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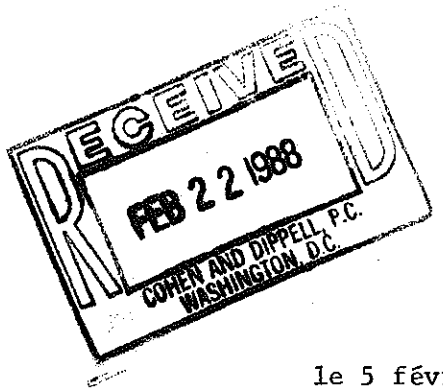

Your file *Votre référence*

Our file *Notre référence*

3525-5-1 (DBC-E)

February 5, 1988

le 5 février 1988

Dear Sir:

We are forwarding herewith the following document pertaining to broadcast assignments:

BTS 1-1 Issue 1 Provisional Broadcast Transmission Standard AM Broadcasting - Stereophonic Operation

Supplement RSS-150 Provisional supplement for Stereophonic AM Broadcasting Transmitters Operating in the 535-1705 kHz Frequency Band at 10 kHz spacing.

Monsieur,

Vous trouverez ci-joint un document concernant les assignations de radiodiffusion:

NER 1-1 - 1ère édition provisoire Norme sur les émissions de radiodiffusion - radiodiffusion AM - Exploitation stéréophonique

CNR-150 (supplément) Supplément provisoire pour les émetteurs de radiodiffusion AM stéréophonique fonctionnant dans la bande de fréquences de 535-1705 kHz avec espacement entre voies de 10 kHz.

Gestionnaire
Service d'information technique
Direction de la réglementation
de radiodiffusion

Lise Létourneau
for B. Ivankiw
Manager
Technical Information Services
Broadcasting Regulation Branch

Canada

Communications Canada

BTS 1-1
ISSUE 1
PROVISIONAL

BROADCAST TRANSMISSION STANDARD

AM BROADCASTING

STEREOPHONIC OPERATION

EFFECTIVE DATE: FEBRUARY 6, 1988

BROADCASTING REGULATION BRANCH

NER 1-1
1ère ÉDITION
PROVISOIRE

NORME SUR LES ÉMISSIONS DE RADIODIFFUSION

RADIODIFFUSION AM

EXPLOITATION STÉRÉOPHONIQUE

MISE EN VIGUEUR: le 6 FÉVRIER 1988

DIRECTION GÉNÉRALE DE LA RÉGLEMENTATION DE LA RADIODIFFUSION

NER 1-1
1ère édition
Provisoire

Norme sur les émissions de radiodiffusion

Radiodiffusion AM

exploitation stéréophonique

1. GÉNÉRALITÉS

1.1. La présente norme décrit le système C-QUAM* (modulation d'amplitude en quadrature compatible) d'émission stéréophonique en radiodiffusion AM et donne les exigences de performance pour l'exploitation stéréophonique du système d'émission AM.

1.2 La radiodiffusion stéréophonique AM nécessite l'émission de signaux qui s'ajoutent au signal monophonique de la porteuse AM, ce qui permet la réception de signaux stéréophoniques dans les canaux de gauche et de droite en plus du signal monophonique original.

1.3 Le signal audio stéréophonique est formé de deux signaux: le signal de gauche (L) et le signal de droite (R). La modulation d'amplitude s'effectue en conformité des normes de radiodiffusion AM actuelles, c'est-à-dire par le signal somme (L+R). La modulation de phase en quadrature au moyen du signal différence (L-R) permet de transmettre d'autres informations sur la porteuse. Un autre signal pilote ajouté au signal différence indique qu'il s'agit d'une émission en stéréophonie.

* C-QUAM est une marque de commerce déposée de Motorola Inc.

2. DÉFINITIONS

2.1 **Voie de radiodiffusion AM.** Bande de fréquences occupée par la porteuse et par les bandes latérales inférieure et supérieure d'un signal de radiodiffusion AM; la porteuse se trouve au centre du canal. Les voies sont identifiées par la fréquence de la porteuse qui leur est assignée.

2.2 **Signal de gauche (ou de droite).** Sortie électrique d'une source audio ou de plusieurs sources qui communiquent avec fidélité les relations d'intensité, de temps et d'origine des sons provenant surtout de la gauche (ou de la droite) de l'auditeur.

2.3 **Voie stéréophonique de gauche (ou de droite).** Trajet suivi par le signal de gauche (ou de droite) dans un système de radiodiffusion stéréophonique AM.

BTS 1-1
Issue 1
Provisional

Broadcast Transmission Standard

AM Broadcasting

Stereophonic Operation

1. GENERAL

1.1 This standard describes the C-QUAM* (Compatible Quadrature Amplitude Modulation) system for AM stereophonic sound broadcasting transmission and gives performance requirements for stereophonic operation of the AM transmission system.

1.2 Stereophonic AM broadcasting involves the transmission of additional information with the monophonic signal on the AM carrier allowing the reception of the original monophonic signal and left and right stereophonic signals.

1.3 The stereophonic audio information is composed of two signals; left (L) and right (R). As in the present AM broadcast standards, the carrier is amplitude modulated by the sum (L+R) signal. The additional information in the form of the difference (L-R) signal is added to the carrier by quadrature phase modulation. A separate pilot signal is added to the difference signal to indicate the presence of a stereophonic broadcast.

* C-QUAM is a registered trademark of Motorola Inc.

2. DEFINITIONS

2.1 **AM Broadcast Channel.** The band of frequencies occupied by the carrier and the upper and lower sidebands of an AM broadcast signal with the carrier frequency at the center. Channels are designated by their assigned carrier frequencies.

2.2 **Left (or Right) Signal.** The electrical output of an audio source or combination of sources conveying the intensity, time, and location of sounds originating predominantly to the listener's left (or right).

2.3 **Left (or Right) Stereophonic Channel.** The left (or right) signal path through an AM stereophonic broadcasting system.

2.4 **Voie somme L+R.** Bande des fréquences audio correspondant à la somme vectorielle des signaux de gauche et de droite qui module la porteuse en amplitude.

2.5 **Voie différence L-R.** Bande des fréquences audio correspondant à la différence vectorielle entre les signaux de gauche et de droite qui module la porteuse en phase.

2.6 **Diaphonie stéréophonique.** Signal indésirable qui apparaît dans la voie somme par suite de la modulation de la voie différence, ou dans la voie différence par suite de la modulation de la voie somme.

2.7 **Tonalité pilote stéréophonique.** Tonalité audio de fréquence fixe (25 Hz) qui est présente dans la voie différence pendant la transmission des émissions stéréophoniques.

2.8 **Séparation stéréophonique.** Rapport, exprimé en dB, entre le niveau de sortie de la voie gauche (ou de droite) dû à un signal destiné à cette voie et le niveau de sortie de la voie de droite (ou de gauche) dû au même signal.

3. NORMES D'ÉMISSION

3.1 Le signal de modulation d'amplitude doit correspondre à la somme (L+R) des signaux stéréophoniques de gauche et de droite.

3.2 La modulation d'amplitude des crêtes fréquentes du signal somme (L+R) ne doit pas dépasser 125 % dans le cas des crêtes positives et 100 % dans le cas des crêtes négatives.

3.3 Le signal de modulation de phase en quadrature doit correspondre à la différence (L-R) entre les signaux stéréophoniques de gauche et de droite.

3.4 L'information de phase en quadrature doit faire varier la phase de la porteuse en conformité de la relation suivante:

$$\phi_C = \tan^{-1} \frac{m(L-R)}{1+m(L+R)}$$

où:

ϕ_C = phase instantanée de la porteuse
L = signal audio dans la voie audio de gauche
R = signal audio dans la voie audio de droite
m = facteur de modulation

2.4 **Sum Channel L+R.** The band of audio frequencies consisting of the vector sum of the left and right signals which amplitude modulates the carrier.

2.5 **Difference Channel L-R.** The band of audio frequencies consisting of the difference of the left and right signals which phase modulates the radio frequency carrier.

2.6 **Stereophonic Crosstalk.** An undesired signal occurring in the sum channel from modulation of the difference channel or that occurring in the difference channel from modulation of the sum channel.

2.7 **Stereophonic Pilot Tone.** An audio tone of fixed frequency (25 Hz) present on the difference channel during the transmission of stereophonic programs.

2.8 **Stereophonic Separation.** The ratio in dB of the output of the left (or right) channel due to a signal intended for that channel to the ouptut of the right (or left) channel due to the same signal.

3. TRANSMISSION STANDARDS

3.1 The amplitude modulating signal shall consist of the sum (L+R) of the stereophonic left and right signals.

3.2 Peaks of frequent occurrence of the sum (L+R) signal shall produce amplitude modulation not exceeding 125% for positive peaks and 100% for negative peaks.

3.3 The quadrature phase modulating signal shall consist of the difference (L-R) of the stereophonic left and right signals.

3.4 The quadrature phase information shall vary the phase of the carrier in accordance with the following relationship:

$$\phi_C = \tan^{-1} \frac{m(L-R)}{1+m(L+R)}$$

Where:

ϕ_C = instantaneous carrier phase
L = audio signal in the left audio channel
R = audio signal in the right audio channel
m = modulation factor

3.5 La phase de la porteuse doit avancer (dans la direction positive) lorsqu'un signal de gauche cause la modulation de l'enveloppe de la porteuse dans une direction positive et doit retarder (dans la direction négative) lorsqu'un signal de droite cause la modulation de l'enveloppe de la porteuse dans une direction positive.

3.6 Le contrôle de la modulation de phase maximale doit être tel que les conditions suivantes sont satisfaites:

a) ϕ_C max = 1,25 radian (71,5°)
pour la modulation d'une seule voie lorsque la modulation d'enveloppe de la voie unique est 75 %, ce qui signifie que m(L) ou m(R) = 0,75.

b) ϕ_C max = 0,79 radian (45°)
lorsque m(L) = -m(R) et m(L) -m(R) = 1 (ce qui équivaut à moduler la porteuse à 100 % par le signal L+R, puis à inverser la phase d'un des signaux; la modulation d'enveloppe devra disparaître et la porteuse être modulée en phase seulement).

3.7 Le signal composite doit comprendre une tonalité pilote de fréquence fixe (25 Hz) qui indique qu'il s'agit d'une émission en stéréophonie. Ce signal est ajouté à la voie différence. Le niveau de modulation de phase due à la tonalité pilote doit varier en fonction inverse de la modulation d'amplitude de la porteuse. La phase du signal pilote doit être

$$\phi \text{ PILOTE} = \tan^{-1} \frac{(0,05 \pm 0,01) \sin 50\pi t}{1 + L+R}$$

Si la porteuse n'est pas modulée, la déviation due au signal pilote doit équivaloir à 5 % de la déviation maximale admissible dans la voie L-R.

4. EXIGENCES RELATIVES À LA PERFORMANCE DES SYSTÈMES D'ÉMISSION EN RADIODIFFUSION STÉRÉOPHONIQUE AM

4.1 **Généralités** - La performance des systèmes stéréophoniques AM, qui consistent d'un générateur stéréo AM raccordé à un émetteur homologué, doit satisfaire aux exigences de cette section, que ces systèmes soient exploités en mode monophonique ou stéréophonique. Les nouveaux émetteurs stéréophoniques doivent satisfaire pleinement aux exigences de CNR-150 et le supplément du CNR 150 2e édition.

3.5 The carrier phase shall advance in a positive direction when a left signal causes the carrier envelope to be modulated in a positive direction and shall retard in a negative direction when a right signal causes the carrier envelope to be modulated in a positive direction.

3.6 Maximum phase modulation shall be controlled in such a manner that the following conditions are satisfied:

a) ϕ_c max = 1.25 radians (71.5°)
for single channel modulation where the single channel envelope modulation equals 75% i.e. m (L) or m (R) = 0.75.

b) ϕ_c max = 0.79 radians (45°)
when m (L) = -m (R) and m (L) -m (R) = 1 (equivalent to modulating the carrier 100% with L+R and then reversing the phase of one signal, the envelope modulation should disappear and the carrier modulation is phase modulation only).

3.7 The composite signal shall include a fixed frequency (25 Hz) pilot signal for indicating the presence of a stereo transmission. This signal is added to the difference channel. The amount of phase modulation produced by the pilot signal shall vary as the inverse of the amplitude modulation on the carrier. The pilot signal phase shall be

$$\phi \text{ PILOT} = \tan^{-1} \frac{(0.05 \pm 0.01) \sin 50\pi t}{1 + L+R}$$

When the carrier is unmodulated, the pilot signal shall produce 5% of the maximum allowable deviation in the L-R channel.

4. TRANSMISSION SYSTEM PERFORMANCE REQUIREMENTS FOR AM STEREO

4.1 General - The performance of AM stereophonic systems, consisting of the AM stereo exciter interfaced with a type approved transmitter shall meet the requirements of this section when operated in either the monophonic or stereophonic mode. New stereophonic transmitters shall meet the full requirements of RSS 150 and the supplement to RSS 150 Issue 2.

4.2 COMPATIBILITÉ RF - Le système de radiodiffusion stéréophonique AM doit être compatible avec les systèmes de radiodiffusion AM existants du point de vue des rapports de protection contre le brouillage et du plan de répartition des fréquences AM.

4.2.1 Largeur de bande occupée - Les rayonnements provenant d'un émetteur AM stéréophonique et consistant en la porteuse et les produits de modulation connexes doivent se trouver sur des fréquences en deçà de ± 15 kHz de la porteuse. Tout rayonnement apparaissant sur une fréquence comprise entre plus de 15 kHz et 30 kHz doit être atténué d'au moins 25 dB au-dessous du niveau de la porteuse non modulée.

4.2.2 Rayonnements non désirés - Tout rayonnement apparaissant sur une fréquence située à plus de 30 kHz de la porteuse doit être atténué d'au moins:

(a) 35 dB au-dessous du niveau de la porteuse non modulée pour toute fréquence située à plus de 30 kHz jusqu'à 75 kHz de la porteuse;

(b) 43 + 10 log P (puissance en watts) dB ou 80 dB (choisir la valeur correspondant au signal du niveau le plus élevé) au-dessous du niveau de la porteuse non modulée pour toute fréquence située à plus de 75 kHz de la porteuse.

4.3 COMPATIBILITÉ MONOPHONIQUE - Les émissions effectuées en stéréophonie doivent être compatibles avec le matériel de réception monophonique qui utilise la détection d'enveloppe. Les exigences de performance doivent être satisfaites en utilisant une détection d'enveloppe à bande large, raccordée à la sortie de l'émetteur.

4.3.1 Réponse audiofréquence - La réponse audiofréquence doit demeurer à 2 dB près de la réponse à 1 000 Hz sur la gamme des fréquences de 50 Hz à 10 000 Hz dans toutes les conditions de modulation du système stéréophonique jusqu'à 85 %.

4.3.2 Distorsion harmonique audiofréquence - La distorsion harmonique totale, y compris les harmoniques jusqu'à 20 000 HZ ne doit pas excéder 5 % sur la gamme des fréquences de 50 Hz à 10 000 Hz dans toutes les conditions de modulation du système stéréophonique jusqu'à 85 %.

4.3.3 Ronflement et bruit de la porteuse - Le niveau du ronflement et du bruit sur toutes les fréquences audio au-desous de 10 000 Hz doit être d'au moins 55 dB au-dessous du niveau de référence pour une modulation de 100 % à 1000 Hz.

4.2 RF COMPATIBILITY - The AM stereophonic system shall be compatible with the present AM monophonic system with respect to interference protection ratios and the AM channeling plan.

4.2.1 Occupied Bandwidth - Emission from a stereophonic AM broadcasting system consisting of the carrier and associated modulation products shall be confined to frequencies within ±15 kHz of the carrier. Emissions appearing on any frequency more than 15 kHz and up to 30 kHz from the carrier shall be attenuated at least 25 dB below the level of the unmodulated carrier.

4.2.2 Unwanted Emissions - Any emissions appearing on a frequency removed by more than 30 kHz from the carrier shall be attenuated at least;

(a) 35 dB below the level of the unmodulated carrier for any frequency more than 30 kHz and up to 75 kHz from the carrier.

(b) 43 + 10 log P (Power in watts) dB or 80 dB, whichever represent the lesser attenuation, below the level of the unmodulated carrier for any frequency more than 75 kHz from the carrier.

4.3 MONOPHONIC COMPATIBILITY - The stereophonic transmissions shall provide compatible reception on monophonic receivers with envelope detection. The performance requirements shall be satisfied using an envelope detector with wideband response coupled to the transmitter output.

4.3.1 Audio Frequency Response - The frequency response shall remain within 2 dB of the response at 1000 Hz over the frequency range from 50 Hz to 10,000 Hz under all conditions of amplitude modulation for the stereophonic system up to 85%.

4.3.2 Audio Frequency Harmonic Distortion - The total harmonic distortion including harmonics up to 20,000 Hz shall not exceed 5% over the frequency range from 50 Hz to 10,000 Hz under all conditions of amplitude modulation for the stereophonic system up to 85%.

4.3.3 Carrier Hum and Noise Level - The level of all hum and noise for audio frequencies below 10,000 Hz shall be at least 55 dB below the reference level for 100% modulation at 1000 Hz.

4.4 **PERFORMANCE STÉRÉOPHONIQUE** - Le système d'émission en radiodiffusion stéréophonique AM comprend tout le matériel situé entre les amplificateurs d'entrée audio (entrée de générateur stéréo) des voies de gauche et de droite de l'émission diffusée et l'antenne d'émission. Chaque voie doit satisfaire individuellement aux exigences de performance séparément à l'aide d'un détecteur audio approprié à bande large à la sortie de l'émetteur.

4.4.1 **Réponse fréquence audio** - La réponse en fréquence de la voie de gauche ou de la voie de droite doit demeurer à 2 dB près de la réponse à 1 000 Hz sur la gamme des fréquences comprises entre 50 Hz à 10 kHz dans toutes les conditions de modulation de la voie stéréophonique de gauche ou de droite jusqu'à 85 %.

4.4.2 **Distorsion harmonique audiofréquence** - La distorsion harmonique totale, y compris les harmoniques allant jusqu'à 20 000 Hz, mesurée séparément dans la voie de gauche ou la voie de droite, ne doit pas excéder 5 % sur la gamme des fréquences de 50 Hz à 10 000 Hz dans toutes les conditions de modulation jusqu'à 85 %.

4.4.3 **Équilibre des voies** - L'équilibre entre la réponse dans la voie de gauche et la réponse dans la voie de droite doit être en déçà de 1 dB de 50 Hz à 10 000 Hz à tous les taux de modulation jusqu'à 85%.

4.4.4 **Séparation stéréophonique** - La séparation entre la voie de gauche et la voie de droite doit être d'au moins 20 dB sur la gamme des fréquences de 400 Hz à 10 000 Hz à tous les taux de modulation jusqu'à 85 %.

4.4.5 **Ronflement et bruit de la porteuse** - Le niveau du ronflement et du bruit dans la voie de gauche ou la voie de droite pour les fréquences audio au-dessous de 10 000 Hz doit être d'au moins 48 dB au-dessous du niveau de référence pour une modulation de 100 % à 1000 Hz.

4.4.6 **Diaphonie** - La diaphonie entre la voie somme (L+R) et la voie différence (L-R) ainsi que la diaphonie inverse entre la voie différence (L-R) et la voie somme (L+R) doivent être d'au moins 30 dB au-dessous du niveau de référence pour une modulation de 100% à 1000 Hz.

Publication autorisée par le
ministre des Communications

Le directeur général
Direction de la réglementation
de la radiodiffusion

G.R. Begley

4.4 STEREOPHONIC PERFORMANCE - The stereophonic AM broadcast transmission system includes all equipment from the output of processing amplifiers (stereo exciter input) for both the left and right program channels up to the transmitter antenna output. The performance requirements shall be satisfied in each channel separately using a suitable audio detector with wide band response at the transmitter output.

4.4.1 Audio Frequency Response - The frequency response of either the left or right channel shall remain within 2 dB of the response at 1000 Hz over the frequency range between 50 Hz and 10,000 Hz under all conditions of modulation of the left or right stereophonic channel up to 85%.

4.4.2 Audio Frequency Harmonic Distortion - The total harmonic distortion including harmonics up to 20,000 Hz measured separately in either left or right channel shall not exceed 5% in the frequency range 50 Hz to 10 000 Hz under all conditions of modulation for the stereophonic system up to 85%.

4.4.3 Channel Balance - The balance between the output level in the left and right channels shall be within 1 dB from 50 Hz to 10,000 Hz at all levels of modulation up to 85%.

4.4.4 Stereophonic Separation - The separation between the left and right channels shall be at least 20 dB in the frequency range from 400 Hz to 10,000 Hz at all levels of modulation up to 85%.

4.4.5 Carrier Hum and Noise Level - The level of hum and noise in either the left or right channel for audio frequences below 10,000 Hz shall be at least 48 dB below the reference level for 100% modulation at 1000 Hz.

4.4.6 Cross-talk - The sum channel (L+R) to the difference channel (L-R) cross-talk and the inverse difference channel (L-R) to the sum channel (L+R) cross-talk shall be at least 30 dB below the reference level for 100% modulation at 1000 Hz.

Issued under the Authority of
the Minister of Communications

G.R. Begley
Director General
Broadcasting Regulation Branch

Communications
Canada

SUPPLEMENT
RSS-150
ISSUE 2
PROVISIONAL

RADIO STANDARDS SPECIFICATION

PROVISIONAL SUPPLEMENT FOR STEREOPHONIC AM BROADCASTING TRANSMITTERS OPERATING IN THE 535-1705 kHz FREQUENCY BAND AT 10 kHz SPACING

EFFECTIVE DATE: FEBRUARY 6, 1988

BROADCASTING REGULATION BRANCH

SUPPLÉMENT
CNR-150
2e ÉDITION
PROVISOIRE

CAHIER DES CHARGES SUR LES NORMES RADIOÉLECTRIQUES

SUPPLÉMENT PROVISOIRE POUR LES ÉMETTEURS DE RADIODIFFUSION AM STÉRÉOPHONIQUE FONCTIONNANT DANS LA BANDE DE FRÉQUENCES DE 535 À 1705 kHz AVEC ESPACEMENT ENTRE VOIES DE 10 kHz

MISE EN VIGUEUR: le 6 FÉVRIER 1988

DIRECTION GÉNÉRALE DE LA RÉGLEMENTATION DE LA RADIODIFFUSION

SUPPLÉMENT
CNR 150
2e ÉDITION
PROVISOIRE

SUPPLÉMENT PROVISOIRE DU CNR 150, 2e ÉDITION, POUR LES ÉMETTEURS DE RADIODIFFUSION AM STÉRÉOPHONIQUE FONCTIONNANT DANS LA BANDE DE FRÉQUENCES DE 535 À 1705 kHz AVEC ESPACEMENT ENTRE VOIES DE 10 kHz

1. OBJET

1.1 Le présent supplément du CNR 150, 2e édition, expose des exigences minimales relatives à l'homologation des émetteurs de radiodiffusion AM conçus pour fonctionner en stéréophonie dans la bande de fréquences de 535 à 1705 kHz.

1.2 Les exigences minimales du CNR 150, 2e édition, relatives aux émetteurs conçus pour fonctionner en monophonie ne sont pas changées.

2. NORMES MINIMALES DE PERFORMANCE EN STÉRÉOPHONIE

2.1 À moins d'indication contraire dans le présent supplément, tous les paragraphes du CNR 150, 2e édition, sont applicables et l'on devra s'y conformer pour obtenir l'homologation. A cet égard, les conditions générales, les conditions d'essai, les définitions et les méthodes de mesure exposées dans le CNR 150, 2e édition, sont applicables.

2.2 Les normes minimales de performance des émetteurs de radiodiffusion AM stéréophonique sont données dans le tableau 1. Les méthodes et normes de mesure supplémentaires sont données dans la section 3 du présent supplément.

3. MESURES ET NORMES SUPPLÉMENTAIRES

3.1 Capacité de modulation

3.1.1 **Norme minimale** - L'émetteur doit pouvoir être modulé en amplitude à 85% sur les crêtes positives et négatives et être modulé en phase à 1,25 radian (71,5%) à toute fréquence porteuse de la bande de radiodiffusion.

3.2 Largeur de bande occupée

3.2.1 **Définition** - Largeur de bande occupée par la porteuse et les produits de modulation connexes qui sont en deçà des limites spécifiées.

SUPPLEMENT
RSS 150
ISSUE 2
PROVISIONAL

PROVISIONAL SUPPLEMENT TO RSS 150 ISSUE 2 FOR STEREOPHONIC AM BROADCASTING TRANSMITTERS OPERATING IN THE 535-1705 KHZ FREQUENCY BAND AT 10 KHZ SPACING

1. INTENT

1.1 This supplement to RSS 150 Issue 2 provides the minimum requirements for the type approval of AM broadcasting transmitters intended for stereophonic operation in the frequency band 535-1705 kHz.

1.2 Minimum requirements currently in RSS 150 Issue 2 for transmitters intended for monophonic operation are unchanged.

2. MINIMUM STEREOPHONIC PERFORMANCE STANDARDS

2.1 Unless indicated otherwise in this supplement, paragraphs of RSS 150 Issue 2 are applicable and should be complied with to obtain type approval. In this regard, general conditions, test conditions, definitions, and methods of measurement now in RSS 150 are to be employed.

2.2 The minimum performance standards for stereophonic AM broadcasting transmitters are outlined in TABLE 1. The additional measurement methods and standards are detailed in section 3 of this supplement.

3. SUPPLEMENTAL MEASUREMENTS AND STANDARDS

3.1 Modulation Capability

3.1.1 Minimum Standard - The transmitter shall be capable of amplitude modulation to 85% on positive and negative peaks and capable of phase modulation to 1.25 radians (71.5%) at any carrier frequency within the broadcast band.

3.2 Occupied Bandwidth

3.2.1 Definition - The bandwidth occupied by the carrier and associated modulation products such that they fall within the specified limits.

3.2.2 **Méthode de mesure** - La mesure de la largeur de bande occupée doit être effectuée au moyen d'un signal de bruit d'essai normal. Le signal d'essai doit provenir d'une source de bruit blanc avec pondération USASI (United states of America Standards Institute). La pondération est produite par filtrage du bruit blanc au moyen d'un réseau passe-haut de 100 Hz, 6 dB par octave, et d'un réseau passe-bas de 320 Hz, 6 dB par octave. Le signal de bruit USASI est ensuite acheminé dans un circuit générateur d'impulsions où le rapport entre l'amplitude de crête et l'amplitude moyenne du signal de bruit est réglé à 20 dB à la sortie du générateur d'impulsions.

Le générateur d'impulsions doit fonctionner à la fréquence de 2,5 Hz avec un facteur d'utilisation de 12,5%. Le signal de bruit d'essai provenant du générateur d'impulsions doit être appliqué à l'entrée de l'émetteur par l'intermédiaire d'un réseau donnant une préaccentuation de 75 us modifiée, puis d'un filtre passe-bas de 10 kHz. La préaccentuation est une courbe de 75 us modifiée avec coude à haute fréquence à 8700 Hz. Le filtre passe-bas est un filtre à point de coupure raide assurant une atténuation de 15 dB à 10 kHz, de 30 dB à 10,5 kHz, de 40 dB à 11 kHz et de 50 dB èa 15 kHz et plus haut. La source de bruit est divisée en deux voies, droite et gauche, qui ont des distributions spectrales identiques. Le niveau de chaque voie est réglé de façon à obtenir un rapport entre L + R (information de somme) et L - R (information de différences) de 3 dB (c'est-à-dire un rapport de 1,4 sur 1).

On utilisera un analyseur de spectre RF à balayage de fréquence convenable pour mesurer les rayonnements spectraux. L'analyseur de spectre doit être réglé ainsi:

a. largeur de bande: résolution de 300 Hz
b. 5, 10 ou 20 kHz/division horizontale (au besoin)
c. 10 dB/division verticale
d. référence: crête de la porteuse
e. temps de maintien de crête: 10 minutes.

En utilisant la largeur de balayage appropriée, mesurer le rayonnement à $\pm$ 30 kHz de la porteuse.

3.2.3 **Norme minimale** - Les rayonnements provenant d'un émetteur AM stéréophonique et consistant en la porteuse et les produits de modulation connexes doivent se trouver sur des fréquences en deçà de $\pm$ 15 kHz de la porteuse. Tout rayonnement apparaissant sur une fréquence comprise entre plus de 15 kHz et 30 kHz doit être atténué d'au moins 25 dB au-dessous du niveau de la porteuse non modulée.

3.3 **Rayonnement non désirés**

3.3.1 **Définition** - Les rayonnements non désirés sont des rayonnements sur une ou des fréquences situées en dehors de la largeur de bande occupée qui sont dus au processus de modulation, à l'exclusion des rayonnements non essentiels.

3.2.2 **Methods of Measurement** - Measurement of the occupied bandwidth shall be conducted using a standard noise test signal. The test signal shall consist of a white noise source with USASI (United States of America Standards Institute) weighting. The weighting is produced by filtering white noise with a 100 Hz, 6dB per octave high pass network and a 320 Hz, 6 dB per octave low pass network. The USASI noise signal is then passed through a pulser circuit wherein the ratio of the peak to average amplitude of the noise signal is set to 20 dB at the output of the pulser.

The pulser shall operate at a frequency of 2.5 Hz with a duty cycle of 12.5%. The noise test signal from the pulser shall be input to the transmitter through a network providing a modified 75 µS preemphasis and a 10 kHz low pass filter. The preemphasis is a modified 75 µS curve with a high frequency break point at 8700 Hz. The low pass filter is a sharp cutoff filter providing attenuation of 15 dB at 10 kHz, 30 dB at 10.5 kHz, 40 dB at 11 kHz and 50 dB at 15 kHz and greater. The noise source is split into two channels left and right that have identical spectral distributions. The individual level of each channel is adjusted to obtain the ratio of L+R (sum information) to L-R (difference information) of 3 dB (i.e. a ratio of 1.4 to 1).

A suitable swept frequency RF spectrum analyzer shall be used to measure the spectrum emissions. The spectrum analyzer setup shall consist of

a. 300 Hz resolution bandwidth
b. 5, 10 or 20 kHz/horizontal division (as appropriate)
c. 10 dB/vertical division
d. Reference: Carrier peak
e. Peak hold: 10 minute duration.

Using the appropriate scan width, measure the emission within ±30 kHz of the carrier.

3.2.3 **Minimum Standard** - Emissions from a stereophonic AM transmitter consisting of the carrier and associated modulation products shall be confined to frequencies within ±15 kHz of the carrier. Emissions appearing on any frequency more than 15 kHz and up to 30 kHz shall be attenuated at least 25 dB below the level of the unmodulated carrier.

3.3 **Unwanted Emissions**

3.3.1 **Definition** - Unwanted emissions are emissions on a frequency or frequencies outside the occupied bandwidth which result from the modulation process but exclude spurious emissions.

3.3.2 **Méthode de mesure** - En utilisant le même montage qu'au paragraphe 3.2.2 et la largeur de balayage appropriée, mesurer les rayonnements en deçà de ± 100 kHz de la porteuse.

3.3.3 **Norme minimale** - Tout rayonnement apparaissant sur une fréquence située à plus de 30 kHz de la porteuse doit être atténué d'au moins:

(a) 35 dB au-dessous du niveau de la porteuse non modulée pour toute fréquence située à plus de 30 kHz jusqu'à 75 kHz de la porteuse;

(b) 43 + 10 log P (puissance en watts) dB, ou 80 dB, (choisir la valeur correspondant au signal du niveau le plus élevé) au-dessous du niveau de la porteuse non modulée pour toute fréquence située à plus de 75 kHz de la porteuse.

3.4 Niveau d'entrée audio

3.4.1 **Norme minimale** - Le niveau normal d'entrée audio pour une modulation de 85% sera de +10 dBm ±2 dBm.

3.5 Réponse audiofréquence

3.5.1 **Définition** - La réponse audiofréquence est le rapport entre les tensions d'entrée et la tension à 1000 Hz, exprimé en dB, nécessaire pour maintenir un taux de modulation constant sur toute la gamme des audiofréquences.

3.5.2 **Méthode de mesure** - Échantilloner le signal de sortie de l'émetteur au moyen d'un démodulateur stéréo d'essai avec sorties audio pour les voies de gauche et de droite. Établir des niveaux de modulation constants en maintenant constants les niveaux de sortie du démodulateur d'essai. Déterminer le niveau d'entrée audio nécessaire pour maintenir des taux de modulation constants de 25, 50 et 85% sur la gamme des fréquences de 50 Hz à 10 kHz pour chacune des voies de gauche et de droite.

3.5.3 **Norme minimale** - La réponse en fréquence de la voie de gauche ou de la voie de droite doit demeurer à 2dB près de la réponse à 1000 Hz sur la gamme des fréquences comprises entre 50 Hz et 10 kHz dans toutes les conditions de modulation de la voie stéréophonique de gauche ou de droite jusqu'à 85%.

3.6 Distorsion harmonique

3.6.1 **Méthode de mesure** - En utilisant la méthode exposée au paragraphe 7.4.2 du CNR 150, mesurer la distorsion harmonique dans chacune des voies de gauche et de droite.

3.3.2 **Method of Measurement** - Using the same setup as in paragraph 3.2.2 and the appropriate scan width, measure the emissions within ±100 kHz of the carrier.

3.3.3 **Minimum Standard** - Any emissions appearing on a frequency removed by more than 30 kHz from the carrier shall be attenuated at least;

(a) 35 dB below the level of the unmodulated carrier for any frequency more than 30 kHz and up to 75 kHz from the carrier

(b) 43 + 10 log P (Power in Watts) dB or 80 dB, whichever is the lesser attenuation, below the level of the unmodulated carrier for any frequency more than 75 kHz from the carrier.

3.4 **Audio Input Level**

3.4.1 **Minimum Standard** - The standard audio input level for 85% modulation shall be +10dBm ±2 dBm.

3.5 **Audio Frequency Response**

3.5.1 **Definition** - The audio frequency response is the ratio of the input voltages relative to the voltage at 1000 Hz, expressed in dB, required to maintain a constant percentage of modulation across the audio frequency range.

3.5.2 **Method of Measurement** - The output of the transmitter shall be sampled with a stereo test demodulator with audio outputs for the Left and Right channels. Constant modulation levels shall be established by maintaining constant output levels from the test demodulator. The audio input level to maintain constant modulation levels of 25, 50, and 85% shall be determined over the frequency range 50 Hz to 10 kHz for each of the left and right channels.

3.5.3 **Minimum Standard** - The frequency response of either the left or right channel shall remain within 2 dB of the response at 1000 Hz over the frequency range between 50 Hz and 10 kHz under all conditions of modulation of the left or right stereophonic channel up to 85%.

3.6 **Harmonic Distortion**

3.6.1 **Method of Measurement** - Using the method of paragraph 7.4.2 of RSS 150, measure the harmonic distortion in each of the left and right channels.

3.6.2 **Norme minimale** - La distorsion harmonique totale, y compris les harmoniques allant jusqu'à 20 000 Hz, mesurée séparément dans la voie de gauche ou la voie de droite, ne doit pas excéder 5 % sur la gamme des fréquences de 50 Hz à 10 000 Hz dans toutes les conditions de modulation jusqu'à 85%.

3.7 Équilibre des voies

3.7.1 **Définition** - L'équilibre des voies est la différence entre le niveau de sortie de la voie de gauche et celui de la voie de droite pour des niveaux d'entrée égaux.

3.7.2 **Méthode de mesure** -Déterminer l'équilibre des voies en comparant les réponses obtenues dans la section 3.5.

3.7.3 **Norme minimale** - L'équilibre entre la réponse dans la voie de gauche et la réponse dans la voie de droite doit être en deçà de 1 dB de 50 Hz à 10 000 Hz à tous les taux de modulation jusqu'à 85%.

3.8 Distorsion d'intermodulation

3.8.1 **Méthode de mesure** - En utilisant la méthode indiquée au paragraphe 7.5.2 du CNR 150 et le démodulateur stéréo d'essai, mesurer la distorsion d'intermodulation dans les voies de gauche et de droite.

3.9 Ronflement et bruit de la porteuse

3.9.1 **Définition** - Le ronflement et le bruit de la porteuse est le rapport, exprimé en dB, entre le niveau de modulation d'un signal de référence et le niveau de la modulation résiduelle causée par les composantes de ronflement et de bruit.

3.9.2 **Méthode de mesure** - La mesure du niveau de ronflement et de bruit peut se faire au moyen du démodulateur stéréo d'essai couplé à la sortie de l'émetteur. La sortie du démodulateur doit être couplée à un mesureur de distorsion et de bruit par l'intermédiaire d'un filtre passe-bas de 10 kHz. Prendre des lectures du signal de sortie avec modulation normale d'essai de 85% et sans modulation mais en terminant l'entrée audio au moyen d'une résistance égale à l'impédance d'entrée audio. Effectuer cette mesure pour la voie de gauche et la voie de droite.

3.9.3 **Norme minimale** - Le niveau du ronflement et du bruit dans la voie de gauche ou la voie de droite pour les fréquences audio au-dessous de 10 000 Hz doit être d'au moins 48 dB au-dessous du niveau de référence pour une modulation de 100% à 1000 Hz.

3.6.2 **Minimum Standard** - The total harmonic distortion including harmonics up to 20,000 Hz measured separately in either the left or right channel shall not exceed 5% in the frequency range 50 Hz to 10,000 Hz under all conditions of modulation up to 85%.

3.7 Channel Balance

3.7.1 **Definition** - The channel balance is the difference in output level of the left and right channels for equal inputs.

3.7.2 **Method of Measurement** - The channel balance shall be determined by comparing the response obtained in section 3.5.

3.7.3 **Minimum Standard** - The balance between the response in the left and right channels shall be within 1 dB from 50 Hz to 10,000 HZ at all levels of modulation up to 85%.

3.8 Intermodulation Distortion

3.8.1 **Method of Measurement** - Using the method of paragraph 7.5.2 of RSS 150 with the stereo test demodulator measure the intermodulation distortion in the left and right channels.

3.9 Carrier Hum and Noise

3.9.1 **Definition** - Carrier hum and noise is the ratio in dB of a reference signal modulation level to the residual modulation level caused by hum and noise components.

3.9.2 **Method of Measurement** - Measurement of the carrier hum and noise level may be made by the use of the stereo test demodulator coupled to the output of the transmitter. The output of the demodulator shall be fed through a 10 kHz low pass filter to a distortion and noise meter. Readings shall be made of the output with standard test modulation of 85% and without modulation but with the audio input terminated with a resistance equal to the audio input impedance. The measurement shall be made in each of the left and right channels.

3.9.3 **Minimum Standard** - The level of hum and noise in either the left or right channel for audio frequencies below 10,000 Hz shall be at least 48 dB below the reference level for 100% modulation at 1000 Hz.

3.10 Séparation stéréophonique

3.10.1 **Définition** - Rapport, exprimé en dB, entre le niveau de sortie de la voie gauche (ou de droite) dû à un signal destiné à cette voie et le niveau de sortie de la voie de droite (ou de gauche) dû au même signal.

3.10.2 **Méthode de mesure** - Appliquer un signal d'essai à l'entrée de la voie de gauche seulement à un niveau équivalent à une modulation de 85%. Mesurer le signal démodulé de la voie de gauche et de la voie de droite et déterminer la séparation sur la gamme de fréquences de 400 Hz à 10 000 Hz. Répéter le même essai en appliquant le signal d'essai seulement à la voie de droite.

3.10.3 **Norme minimale** - La séparation entre la voie de gauche et la voie de droite doit être d'au moins 20 dB sur la gamme des fréquences de 400 Hz à 10 000 Hz à tous les taux de modulation jusqu'à 85%.

3.11 Diaphonie

3.11.1 **Définition** - Signal indésirable qui apparaît dans la voie somme par suite de la modulation de la voie différence, ou dans la voie différence par suite de la modulation de la voie somme.

3.11.2 **Méthode de mesure** - En utilisant les signaux normaux d'essai (L = R) pour produire une modulation de 85% seulement dans la voie L + R, mesurer les composantes du signal apparaissant dans la voie L - R. Répéter l'essai avec les signaux d'essai (L = -R) pour produire une modulation de 85% dans la voie L - R et mesurer les composantes du signal apparaissant dans la voie L + R.

3.11.3 **Norme minimale** - La diaphonie entre la voie somme (L + R) et la voie différence (L -R) ainsi que la diaphonie inverse entre la voie différence (L - R) et la voie somme (L + R) doivent être d'au moins 30 dB au-dessous du niveau de référence pour une modulation de 100% à 1000 Hz.

3.12 Compatibilité monophonique

3.12.1 **Définition** - La compatibilité monophonique est la réception compatible des émissions stéréophoniques par un récepteur monophonique utilisant la détection d'enveloppe.

3.12.2 **Méthode de mesure** - En utilisant un démodulateur d'essai réglé pour le fonctionnement monophique, mesurer la réponse audiofréquence, la distorsion harmonique audiofréquence ainsi que le ronflement et le bruit de la porteuse à la sortie audio monophonique du démodulateur. On pourra utiliser les méthodes d'essai respectives des paragraphes 3.5.2, 3.6.2 et 3.9.2. Le signal de sortie du démodulateur doit provenir d'un détecteur d'enveloppe ayant réponse à large bande.

3.10 Stereophonic Separation

3.10.1 **Definition-** The ratio in dB of the output of the left (or right) channel due to a signal intended for that channel to the output of the right (or left) channel due to the same signal.

3.10.2 **Method of Measurement** - Input a test signal to the left channel only at a level equivalent to 85% modulation. Measure the demodulated output of the left and right channels and determine the separation for the range of frequencies from 400 Hz to 10,000 Hz. Repeat the above with the test signal applied only to the right channel.

3.10.3 **Minimum Standard** - The separation between the left and right channels shall be at least 20 dB in the frequency range from 400 Hz to 10,000 Hz at all levels of modulation up to 85%.

3.11 Crosstalk

3.11.1 **Definition** - An undesired signal occurring in the sum channel from modulation of the difference channel or that occurring in the difference channel from modulation of the sum channel.

3.11.2 **Method of Measurement** - Using the standard test signals (L = R) to produce 85% modulation only in the L + R channel, measure the components of the signal appearing in the L - R channel. Repeat the procedure with test signals (L= -R) to produce 85% modulation in the L - R channel and measure the components of the signal appearing in the L + R channel.

3.11.3 **Minimum Standard** - The sum channel (L + R) to the difference channel (L - R) crosstalk and the inverse difference channel (L - R) to the sum channel (L + R) crosstalk shall be at least 30 dB below the reference level for 100% modulation at 1000 Hz.

3.12 Monophonic Compatibility

3.12.1 **Definition** - Monophonic compatibility is defined as the compatible reception of stereophonic transmissions on a monophonic receiver with envelope detection.,

3.12.2 **Method of Measurement** - Using a test demodulator set for monophonic operation, measure the audio frequency response, audio frequency harmonic distortion, and carrier hum and noise at the monophonic audio output of the demodulator. The respective test methods of paragraphs 3.5.2, 3.6.2 and 3.9.2 may be used. The output of the demodulator shall be derived from an envelope detector with wideband response.

3.12.3 **Norme minimale - Réponse audiofréquence** - La réponse audiofréquence doit demeurer à 2 dB près de la réponse à 1000 Hz sur la gamme des fréquences de 50 Hz à 10 000 Hz dans toutes les conditions de modulation du système stéréophonique jusqu'à 85%.

3.12.4 **Norme minimale - Distorsion harmonique audiofréquence** - La distorsion harmonique totale, y compris les harmoniques jusqu'à 20 000 Hz ne doit pas excéder 5% sur la gamme des fréquences de 50 Hz à 10 000 Hz dans toutes les conditions de modulation du système stéréophonique jusqu'à 85%.

3.12.5 **Norme minimale - Ronflement et bruit de la porteuse** - Le niveau du ronflement et du bruit sur toutes les fréquences audio au-dessous de 10 000 Hz doit être d'au moins 55 dB au-dessous du niveau de référence pour une modulation de 100% à 1000 Hz.

Publication autorisée par le
ministre des Communications

Le directeur général
Direction de la réglementation
de la radiodiffusion

G.R. Begley

3.12.3 **Minimum Standard-Audio Frequency Response** - The frequency response shall remain within 2 dB of the response at 1000 Hz over the frequency range from 50 Hz to 10,000 Hz under all conditions of modulation of the stereophonic system up to 85%.

3.12.4 **Minimum Standard-Audio Frequency Harmonic Distortion** - The total harmonic distortion including harmonics up to 20,000 Hz shall not exceed 5% over the frequency range from 50 Hz to 10,000 Hz under all conditions of modulation of the stereophonic system up to 85%.

3.12.5 **Minimum Standard-Carrier Hum and Noise** - The level of all hum and noise for audio frequencies below 10,000 Hz shall be at least 55 dB below the reference level for 100% modulation at 1000 Hz.

Issued under the authority of
the Minister of Communications

G.R. Begley
Director General
Broadcasting Regulation Branch

TABLEAU 1

NORMES MINIMALES DE PERFORMANCE

ÉMETTEURS DE RADIODIFFUSION AM STÉRÉOPHONIQUE

ESSAI	RÉFÉRENCE	MÉTHODE DE MESURE	NORME
Puissance nominale de sortie	6.1 CNR 150	6.1.2 CNR 150	6.1.3 CNR 150
Capacité de modulation	6.2 CNR 150	6.2.2 CNR 150	6.2.3 CNR 150 3.1.1 Supplément
Stabilité de fréquence de la porteuse	6.3 CNR 150	6.3.2 CNR 150	6.3.3 CNR 150
Changement de niveau de la porteuse	6.4 CNR 150	6.4.2 CNR 150	6.4.3 CNR 150
Rayonnements non essentiels	6.5 CNR 150	6.5.2 CNR 150	6.5.3 CNR 150
Largeur de bande occupée	3.2 Supplément	3.2.2 Supplément	3.2.3 Supplément
Rayonnements non désirés	3.3 Supplément	3.3.2 Supplément	3.3.3 Supplément
Rayonnement du meuble	6.6 CNR 150	6.6.2 CNR 150	6.6.3 CNR 150
Impédance d'entrée audio	7.1 CNR 150	S.O.	7.1.1 CNR 150
Niveau d'entrée audio	7.2 CNR 150	7.2.2 CNR 150	3.4.1 Supplément
Réponse audiofréquence			
Voie de gauche	3.5 Supplément	3.5.2 Supplément	3.5.3 Supplément
Voie de droite	3.5 Supplément	3.5.2 Supplément	3.5.3 Supplément
Distorsion harmonique			
Voie de gauche	3.6 Supplément	3.6.1 Supplément	3.6.2 Supplément
Voie de droite	3.6 Supplément	3.6.1 Supplément	3.6.2 Supplément
Distorsion d'intermodulation			
Voie de gauche	7.5 CNR 150	3.8.1 Supplément	7.5.3 CNR 150
Voie de droite	7.5 CNR 150	3.8.1 Supplément	7.5.3 CNR 150
Ronflement et bruit de la porteuse			
Voie de gauche	3.9 Supplément	3.9.2 Supplément	3.9.3 Supplément
Voie de droite	3.9 Supplément	3.9.2 Supplément	3.9.3 Supplément

TABLE 1

MINIMUM PERFORMANCE STANDARDS

STEREOPHONIC AM BROADCASTING TRANSMITTERS

TEST	REFERENCE		MEASUREMENT METHOD		STANDARD	
Power Output Rating	6.1	RSS 150	6.1.2	RSS 150	6.1.3	RSS 150
Modulation Capability	6.2	RSS 150	6.2.2	RSS 150	6.2.3 3.1.1	RSS 150 Supplement
Carrier Frequency Stability	6.3	RSS 150	6.3.2	RSS 150	6.3.3	RSS 150
Carrier Level Shift	6.4	RSS 150	6.4.2	RSS 150	6.4.3	RSS 150
Spurious Emissions	6.5	RSS 150	6.5.2	RSS 150	6.5.3	RSS 150
Occupied Bandwidth	3.2	Supplement	3.2.2	Supplement	3.2.3	Supplement
Unwanted Emissions	3.3	Supplement	3.3.2	Supplement	3.3.3	Supplement
Cabinet Radiation	6.6	RSS 150	6.6.2	RSS 150	6.6.3	RSS 150
Input Impedance	7.1	RSS 150		N.A.	7.1.1	RSS 150
Input Level	7.2	RSS 150	7.2.2	RSS 150	3.4.1	Supplement
Audio Frequency Response						
Left Channel	3.5	Supplement	3.5.2	Supplement	3.5.3	Supplement
Right Channel	3.5	Supplement	3.5.2	Supplement	3.5.3	Supplement
Harmonic Distortion						
Left Channel	3.6	Supplement	3.6.1	Supplement	3.6.2	Supplement
Right Channel	3.6	Supplement	3.6.1	Supplement	3.6.2	Supplement
Intermodulation Distortion						
Left Channel	7.5	RSS 150	3.8.1	Supplement	7.5.3	RSS 150
Right Channel	7.5	RSS 150	3.8.1	Supplement	7.5.3	RSS 150
Carrier Hum and Noise						
Left Channel	3.9	Supplement	3.9.2	Supplement	3.9.3	Supplement
Right Channel	3.9	Supplement	3.9.2	Supplement	3.9.3	Supplement

ESSAI	RÉFÉRENCE	MÉTHODE DE MESURE	NORME
Équilibre des voies	3.7 Supplément	3.7.2 Supplément	3.7.3 Supplément
Séparation stéréophonique	3.10 Supplément	3.10.2 Supplément	3.10.3 Supplément
Diaphonie	3.11 Supplément	3.11.2 Supplément	3.11.3 Supplément
Compatibilité monophonique	3.12 Supplément	3.12.2 Supplément	
Réponse audiofréquence			3.12.3 Supplément
Distorsion harmonique			3.12.4 Supplément
Ronflement et bruit de la porteuse			3.12.5 Supplément

TEST	REFERENCE	MEASUREMENT METHOD	STANDARD
Channel Balance	3.7 Supplement	3.7.2 Supplement	3.7.3 Supplement
Stereophonic Separation	3.10 Supplement	3.10.2 Supplement	3.10.3 Supplement
Crosstalk	3.11 Supplement	3.11.2 Supplement	3.11.3 Supplement
Monophonic Compatibility	3.12 Supplement	3.12.2 Supplement	
Frequency Response			3.12.3 Supplement
Harmonic Distortion			3.12.4 Supplement
Carrier Hum and Noise			3.12.5 Supplement

PUBLIC NOTICE

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January 18, 1984

NEW U.S.-CANADA AM BROADCASTING AGREEMENT SIGNED

On January 17, 1984, at Ottawa, the United States Ambassador to Canada, Paul H. Robinson, Jr., and Canada's Minister of Communications, Francis Fox, signed the new bilateral Agreement that, with immediate effect, establishes the standards and procedures which will henceforth govern the protection that the United States and Canada provide to each other's AM broadcasting services.

The new Agreement adapts to the particular needs of the United States and Canada the provisions of the Hemisphere-wide Final Acts of the Regional Administrative Radio Conference, Rio de Janeiro 1981, to which both countries are signatories. Also, it supersedes the North American Radio Broadcasting Agreement (NARBA) insofar as the United States and Canada are concerned.

The Agreement incorporates a Plan that includes all the AM assignments the United States and Canada have heretofore recorded as notified and accepted under NARBA, plus a list of approximately 650 additional AM assignments on the 32 channels that under NARBA had been classified as U.S. and Canadian Class IA clear channels (25 U.S. and 7 Canadian). Much of the negotiations leading to the new Agreement have been devoted to resolving incompatibilities that, at the time of the Rio Conference, affected those assignments. The resulting agreed assignments are included in the new bilateral AM Plan. They are set out in List 1 B attached to Part VII of Annex 1 to the Agreement.

The mutual adjustments that made it possible to develop this list of protected new assignments have necessitated some modifications of the facilities proposed by both the United States and Canada. U.S. applicants concerned were informed during the negotiations, and have consented to such modifications. The administrations of both countries wish to proceed further with carrying out the needed adjustments before the channels in question are opened up to the submission of further applications. Accordingly, the freeze on the filing of applications for unlimited-time stations on the 25 U.S. Class I-A clear channels (640, 650, 660, 670, 700, 720, 750, 760, 770, 780, 820, 830, 840, 870, 880, 890, 1020, 1030, 1040, 1100, 1120, 1160,

1180, 1200, and 1210 kHz) that the Commission announced in its News Report No. 5132, released November 18, 1983, will remain in effect for another six months. This freeze does not apply to applications for construction permits that are mutually exclusive with applications for license renewal, nor to mutually exclusive applications that are timely filed in response to Public Notices of cut-offs issued pursuant to Section 73.571 of the Rules.

Similarly, Canada has agreed to defer for six months the notification of assignments on the foregoing U.S. clear channels, and--in order to permit the orderly transition to the newly agreed basis for the assignment by the United States and Canada of unlimited-time stations on each other's Class I-A clear channels--both countries will also defer for the same period the notification of new assignments on the 7 Canadian Class I-A clear channels: 540, 690, 740, 860, 990, 1010 and 1580 kHz. This will not affect the continuing opportunity to apply for stations on these 7 channels that are more than 650 miles from the United States-Canada border, as they are far enough from Canada to be of no concern in this respect.

A noteworthy provision of the new agreement that relates to pre-sunrise and post-sunset operations by arrangement with Canada, was put into effect for daytime-only stations in December, 1983, before the formal signing of the Agreement. Another provision opens the way to a general nighttime power increase from 250 watts to 1 kW for Class IV stations. Rule amendments to this end are before the Commission in a separate proceeding.

As noted in the FCC's November 18, 1983 News Report, the new Agreement also provides for the inclusion of 16 Alaskan stations in the assignment Plan as Class A stations (similar to NARBA Class I stations), thus ensuring protection of their wide-area service during the pendency of pertinent rule making proceedings in MM Docket No. 83-807.

The Commission is gratified at the success of the two-year negotiations in producing this Agreement, which is expected to provide an improved and mutually beneficial basis for Canadian and American protection to each other's AM services, thus continuing the longstanding cooperation both countries have afforded to each other under NARBA.

Copies of the Agreement may be obtained from the International Transcription Services, the Commission's contractor for public records duplication, 4006 University Drive, Fairfax, Virginia 22111. The telephone number for that address is (703) 352-2400. To place orders in Washington, call (202) 296-7322.

For further information contact Wilson LaFollette at (202) 632-5414 or Louis C. Stephens at (202) 632-7792.

AGREEMENT BETWEEN THE GOVERNMENT OF THE UNITED STATES OF AMERICA AND THE GOVERNMENT OF CANADA RELATING TO THE AM BROADCASTING SERVICE IN THE MEDIUM FREQUENCY BAND

OTTAWA, 1984

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AGREEMENT BETWEEN THE GOVERNMENT OF THE UNITED STATES OF AMERICA AND THE GOVERNMENT OF CANADA RELATING TO THE AM BROADCASTING SERVICE IN THE MEDIUM FREQUENCY BAND

The Government of Canada and the Government of the United States of America, desiring to continue their mutual understanding and cooperation in the matter of AM broadcasting, to protect the broadcasting stations in the two countries and to improve the utilization of the frequency band 535 to 1605 kHz allocated to this service, have agreed as follows:

Article I

Definitions

For the purpose of this Agreement, the following terms shall have the meanings defined below:

Administration:	The Federal Communications Commission of the United States and the Department of Communications of Canada, respectively;
Plan:	The frequency assignment plan defined in Annex 1 to the Agreement and the modifications introduced as a result of the application of the procedure of Article III of the Agreement;
Agreement:	This Agreement and its Annexes.

Rio de Janeiro Plan: The frequency assignment plan defined in the Regional Agreement for the Medium Frequency Broadcasting Service in Region 2 (Rio de Janeiro, 1981).

Article II

Adoption of the Plan

The Plan set out in Annex 1 to the Agreement consists of assignments with technical characteristics agreed upon by the two Administrations. Broadcasting stations shall be brought into service only when in conformity with Annex 1 or any modification of it resulting from the application of Article III.

Article III

Modification Procedure

3.1 When an Administration proposes to modify the Plan i.e.:

- to change the characteristics of a frequency assignment to a station shown in the Plan, whether or not the station has been brought into use, or
- to introduce a new assignment into the Plan, or
- to bring into use a new station, or
- to cancel a frequency assignment to a station,

the following procedure shall be applied simultaneously with or prior to the notification to the IFRB for modification to the Rio de Janeiro Plan.

3.2 Proposals for changes in the characteristics of an assignment, for the introduction of a new assignment or for the bringing into use of a new station

3.2.1 An Administration proposing to change the characteristics of an assignment in the Plan, introduce a new assignment or bring into use a new station shall seek the agreement of the other Administration.

3.2.2 Any assignment in conformity with the Agreement shall be considered as adversely affected when appropriate calculations based on Annex 2 indicate that objectionable interference would occur as a result of a proposed modification to the Plan. In the event that a proposed modification to the Plan by one Administration is adversely affected by a proposed modification from the other Administration, the proposal bearing the earlier notified transmittal date shall prevail, unless it is found to cause objectionable interference to other assignments in the Plan.

3.2.3 If an affected Administration considers that a proposed modification is acceptable, it shall signify its agreement as soon as possible to the other Administration and shall inform the IFRB accordingly. If an affected Administration considers that a proposed modification to the Plan is unacceptable, it shall communicate its reasons to the notifying Administration within 60 days from the date of notification. If no comment has been received within that 60 day period, the notifying Administration may proceed with

its assignment and advise the IFRB that the agreement of the other Administration has been obtained.

3.2.4 The agreement referred to in section 3.2.1 is not required for a proposed change in the characteristics of an assignment in conformity with the Agreement if it entails no increase in the radiated field strength in any direction and, if a change in the site of the station is involved, this change is limited to the greater of 3 km or 5% of the distance to the nearest point on the border of the other country up to a maximum of 10 km. The distance is calculated from the site first registered in the Plan or subsequently registered in the Plan as a result of the application of the provisions of section 3.2. In any event, such site change shall not result in a groundwave contour overlap prohibited under section 4.10.4.2 of Annex 2 to the Agreement. However, no protection will be required beyond the level of protection which was already accepted before the proposed move.

3.3 Cancellation of an assignment

When an Administration decides to cancel an assignment in conformity with the Agreement, it shall immediately notify the other Administration. Simultaneously with such cancellation, the Administration may notify a new assignment to substitute for the cancelled assignment, provided that the new assignment would not cause objectionable interference at a level in excess of that caused by the cancelled assignment and which had been previously accepted.

Article IV

Format of Notification

The information required for the notifications referred to in Article III shall be provided in conformity with Annex 1 to the Agreement. In the case of a modification of technical characteristics, there shall be an indication of which parameter is modified. In order to facilitate the verification of the data, directional antenna parameters shall be supplemented by sample values of calculated radiation in 5 azimuths and vertical angles pertinent to the specific protection requirements involved.

Article V

Technical Criteria

The Administrations shall apply, in carrying out the Agreement, the technical criteria contained in Annex 2, as may be amended from time to time pursuant to Article XI.

Article VI

Groundwave Field Strength Measurements

6.1 The technical criteria contained in the Agreement provide for protection from groundwave interference through the use of theoretical calculations based on the values of ground conductivity as included in Appendix 1 to Annex 2. Nevertheless, it is recognized that in some situations such calculations may not properly reflect actual conditions

where the conductivity along a specific path differs from the value shown on the conductivity map.

6.2 Therefore, field strength measurements made within a station's own country in accordance with Appendix 6 to Annex 2 may be employed in these situations to justify an assignment based on measured conductivity values.

6.3 If a station whose parameters were accepted on the basis of measurements submitted in accordance with this Article is found to cause interference within the range of azimuths covered by the data submitted, then the station shall reduce its radiation in the pertinent directions to the levels permitted by calculations using the conductivity map, or to such levels as may be mutually agreed upon by both Administrations.

6.4 Resolution of interference complaints

6.4.1 When it is believed that a station is experiencing objectionable interference above the level previously accepted from a station in the other country, its Administration shall be informed and, after verification, shall refer the interference complaint to its counterpart. The station believed to be the cause of the interference shall be required immediately to verify its authorized operation (including measuring field strength at permanent monitoring points if appropriate) and make any adjustments necessary to resume its authorized operation. The station shall, within 10 days of receipt of the complaint, advise

its Administration of the action taken. The responsible Administration shall immediately advise its counterpart of the station's status including corrective measures taken. If, after completion of the above steps, the complaining station is still experiencing objectionable interference above the level previously accepted anywhere within its protected contour, field strength measurements shall be taken in accordance with Appendix 6 to Annex 2.

6.4.2 The Administration responsible for the complaining station shall review the field strength measurement data and, if satisfied that it is well founded, shall forward the complaint to the other Administration. If that Administration is not satisfied that the complaint is valid, it shall advise the other Administration of the reasons therefor, in order to facilitate discussions. If the Administration which receives the complaint is satisfied that it is valid on the basis of the referred data, it shall:

a) evaluate the measurement data as promptly as possible, but in no event later than 20 days after receipt;

b) forward the measurement data to the station causing the interference;

c) notify the station to take any necessary action to eliminate the interference or to prove that it is operating as authorized. The station shall comply as soon as possible within a time period not to exceed 30 days;

d) if necessary corrective action has not been taken within 30 days, order the interfering station to reduce its power at once by any amount necessary, including cessation of operation, to eliminate the interference;

e) refuse authority to resume normal operation until the necessary action specified in c) and d) above has been taken.

6.4.3 Since actual ground conductivities over specific paths may vary from the values indicated in the ground conductivity maps included in Appendix 1 to Annex 2, interference may be experienced even if the station causing the interference is operating in accordance with notified parameters. In such circumstances, except as noted in section 6.3, no action will be required as long as the station can demonstrate that it is operating as authorized. However, each Administration shall endeavor, in cooperation with the other, to mitigate such interference.

Article VII

Extended Hours of Operation

7.1 Scope. "Extended hours of operation" refers to the operation of AM radio broadcasting stations during nighttime hours which occur between 6:00 am and two hours past sunset local time, with protection requirements determined in accordance with Appendix 7 to Annex 2. Operation during this period shall be with daytime or nighttime facilities adjusted as necessary to meet the requirements of this Article.

7.2 Protection.

7.2.1 During extended hours of operation, a station shall provide protection to each co-channel station in the other country in accordance with the method described in Appendix 7 to Annex 2.

7.2.2 A station authorized for extended hours of operation shall not receive protection for that operation.

7.2.3 In applying section 7.2.1, the hours of sunrise and sunset for each month shall be determined as of the 15th day of each month and adjusted to the nearest quarter-hour.

7.2.4 Power radiated during extended hours of operation shall not exceed the highest power that provides the required protection.

7.2.5 Notified nighttime operation has priority over extended hours of operation. Thus, the power used during extended hours of operation shall be adjusted downward as necessary to provide requisite protection to duly notified and accepted nighttime assignments, whenever they may be notified.

7.3 Notification. Proposed extended hours of operation by stations meeting the requirements of this Article are deemed to be acceptable. Each such proposal shall be notified in accordance with Articles III and IV. The notification shall include the exact operating characteristics of each station proposing extended hours of operation.

Article VIII

Critical Hours of Operation

8.1 Scope. "Critical hours of operation" refers to the operation of Class B and C AM radio broadcasting stations of either country, assigned to channels on which the other country has a Class A station listed in Part VI of Annex 1, during those daytime hours specified in Appendix 8 to Annex 2.

8.2 Protection

8.2.1 The Class A stations referred to in section 8.1 shall be protected during their critical hours of operation in accordance with the criteria specified in Appendix 8 to Annex 2.

8.2.2 No assignment previously accepted by both Administrations, or subsequent modifications thereto, shall be required to reduce radiation to comply with section 8.2.1.

8.3 Notification. Proposed critical hours of operation by stations meeting the requirements of this Article are deemed to be acceptable. Each such proposal shall be notified in accordance with Articles III and IV. The notification shall include the exact operating characteristics of each station proposing critical hours of operation.

Article IX

Termination of Previous Agreements

9.1 This Agreement supersedes all previous agreements, arrangements and understandings between Canada and the United States relating to the AM broadcasting service, including the provisions of the North American Regional Broadcasting Agreement, 1950 (NARBA) insofar as that agreement relates to mutual undertakings of Canada and the United States. The Agreement also prevails over provisions of the Regional Agreement for the Medium Frequency Broadcasting Service in Region 2, (Rio de Janeiro, 1981), wherever the two agreements are inconsistent, insofar as mutual relations between Canada and the United States are concerned.

9.2 Proposed assignments previously notified pursuant to NARBA, and still pending on the date of entry into force of the Agreement, shall be deemed to be notified under this Agreement, taking into account understandings already reached concerning them.

Article X

Periodic Review

Recognizing that the Agreement is intended to remain in effect for an indefinite period, the Parties agree that, no later than five years after the date of the entry into force of the Agreement pursuant to Article XII, and no later than the expiration of each successive five-year period thereafter, each Party shall designate and notify to the other those of its assignments in the Plan not yet brought into use that it wishes to retain in the Plan. Assignments which have remained unused for at least five years, and which are not so designated and notified shall lapse and be automatically deleted from the Plan at the end of each such five-year period.

Article XI

Amendment of the Annexes

Except for modifications to the Plan, which are governed by Article III, the Annexes hereto may be amended by exchange of letters directly between the Administrations. The adoption of such amendments shall be notified to the Department of External Affairs of Canada and the Department of State of the United States of America by the Administration of each country.

Article XII

Entry into Force and Termination

The Agreement shall enter into force on the date of its signature and shall remain in force thereafter until terminated upon twelve months' notice given in writing by one of the Parties to the other.

IN WITNESS WHEREOF, the undersigned, duly authorized by their respective Governments, have signed this Agreement.

DONE in duplicate at Ottawa, this 17th day of January, 1984, in the English and French languages, each version being equally authentic.

(signed): FRANCIS FOX PAUL H. ROBINSON, JR.

For the Government of Canada

For the Government of the United States

ANNEX 1

to the Agreement

INFORMATION TO BE CONTAINED IN LISTINGS AND

IN FORMS FOR NOTIFICATION PURPOSES

1. Parts I through V describe the data to be notified and the forms to be used in notification. Part VI lists the Class A stations to be protected during critical hours of operation. The Plan, a listing of all assignments and their technical parameters, is contained in Part VII.

2. An administration wishing to submit the equivalent information on magnetic tape or by other electronic means, shall submit such data only in the format accepted by the other administration.

3. Five forms and 2 listings are provided; each of which corresponds to the following information:

PART I	:	General information on the transmitting station.
PART II	:	Information on directional antennas consisting of vertical conductors.
PART III	:	Additional information for directional antennas with augmented (modified expanded) patterns.
PART IV	:	Supplementary information for top-loaded or sectionalized towers used for omnidirectional and directional antenna systems.
PART V	:	Supplementary information for extended hours of operation.
PART VI	:	Class A stations (formerly NARBA Class I-A) protected during critical hours of operation.
PART VI-A	:	Class A stations (formerly NARBA Class I-B).
PART VII	:	The Plan

4. Administrations shall use only these forms or reproductions thereof.

5. The administration receiving the notification may return forms which have not been completed correctly.

6. When known, the IFRB Serial Number shall be inserted on each form by the notifying administration. Otherwise, the space provided shall be left blank.

PART I

GENERAL INFORMATION ON THE TRANSMITTING STATION

Instructions for completing the forms

Variable No. or Box No.

00 IFRB Serial Number (Indicate only once a Serial No. has been received from IFRB).

01 Administration

Indicate the name of the administration, the sheet number and the date on which the form was completed.

02 Assigned frequency (kHz)

03 Name of the transmitting station

Indicate the name of the locality or the name by which the station is known. Limit the number of letters and numerals to a total of 14.

04 Call sign

This information is optional. Limit the number of letters and numerals to a total of 7.

05 Additional identification

Indicate any additional information which may be considered essential for complete identification. Where this information is not essential, this box may be left blank.

06 Station Class (A, B or C)

Insert A, B or C according to the station classes defined in Chapter 1 of Annex 2.

07 Operational status

Enter O for a station already in operation or for a change of characteristics in accordance with 3.2.4 of the agreement, and enter P for a station to be brought into operation, or for any other change of characteristics.

08 Country

Indicate the name of the country or geographical area in which the station is located. Use the symbols in Table 1 of the Preface to the International Frequency List.

Variable No.
or
Box No.

09 Geographical coordinates for the transmitting station

Indicate the geographical coordinates (longitude and latitude) of the transmitting antenna site in degrees, minutes and seconds. Seconds need to be entered only if available. If no seconds are indicated, a value of 0 will be used.

11 Indicate the reason for the application of Article III

a) New assignment;

b) Modification of the characteristics of an assignment recorded in the Plan for Region 2;

c) Cancellation of an assignment.

12 Indicate whether the modification is of the type specified in section 3.2.4 of Article III of the Agreement.

13 In the case of a new station, indicate the date of bringing into service. In the case of a change in the characteristics of a station already recorded in the Plan, indicate the date of start of operation with the modified characteristics or the date of cessation of operation.

14 Indicate extended hours (E) or critical hours (C) operation. (If extended hours complete Part V).

DAYTIME OPERATION

21 Station power (kW)

Indicate the carrier power supplied to the antenna for daytime operation (to the second decimal position for powers less than 1 kW).

25 r.m.s. value of radiation (mV/m at 1 km) for daytime station power

26 Antenna type

Indicate here the type of antenna used for daytime operation. Use the symbols as follows:

A - Simple omnidirectional antenna

B - Directional antenna (complete Part II)

1 - Top-loaded omnidirectional antenna (complete Part IV)

2 - Sectionalized omnidirectional antenna (complete Part IV).

Variable No.
or
Box No.

27 Simple vertical antenna electrical height

Indicate here the electrical height, in degrees, for a simple vertical antenna in use for daytime operation. In the case of an antenna type other than A, this box should be left blank.

NIGHTTIME OPERATION

31 Station power (kW)

Indicate the carrier power supplied to the antenna for night-time operation (to the second decimal position for powers less than 1 kW).

35 r.m.s. value of radiation (mV/m at 1 km) for night-time station power

36 Indicate the antenna type used for night-time operation (for symbols, see 26)

37 (See 27)

44 Remarks

Indicate here any necessary additional information, such as the identification of the synchronized network to which the station belongs. If shared time operation is intended, indicate in this box and identify the other assignment involved.

Coordination under Article III

Country - Indicate the name of the countries which may be affected and with which coordination is considered necessary, using the symbols in Table I of the Preface to the International Frequency List.

In progress - Add an "X" if coordination is under way with these countries.

Acceptance obtained - Indicate with an "X" if coordination has been successful.

(00) IFRB Serial No.

FORM FOR THE APPLICATION OF ARTICLE 4 OF THE AGREEMENT
CHARACTERISTICS OF A REGION 2 BROADCASTING STATION IN THE BAND 535 - 1 605 kHz

PART I GENERAL INFORMATION

(01) Administration | FORM No. | Date

Assigned frequency (kHz)		(02)	
TRANSMITTING STATION	Name of the station	(03)	
	Call sign	(04)	
	Additional Identification	(05)	
	Station class	(06)	
	Operational Status	(07)	
Country		(08)	
Geographical coordinates of the transmitting station		(09)	W ° ' " N ° ' "

(11) a) New assignment ☐ b) Modification of characteristic of an assignment recorded in the Plan ☐ c) Cancellation of an assignment ☐

(12) Modification under Article 3.2.4 (Region 2 Agr. Sec. 4.2.14) Yes ☐ No ☐

(13) Date of bringing into service or cessation of operation ☐☐☐ Year Month Day

(14) Extended/Critical hours of operation ☐

STATION PARAMETERS	DAYTIME OPERATION	NIGHT-TIME OPERATION
Station power (kW)	(21)	(31)
r.m.s. value of radiation for station power (mV/m at 1 km)	(25)	(35)
Antenna type	(26)	(36)
Simple vertical antenna electrical height (degrees)	(27)	(37)

(44) Remarks

COORDINATION UNDER ARTICLE III:								
COUNTRY								
IN PROGRESS								
ACCEPTANCE OBTAINED								

PART II

INFORMATION ON DIRECTIONAL ANTENNAS CONSISTING OF VERTICAL CONDUCTORS

Instructions for completing the form

Variable No. or Box No.

00 IFRB Serial Number (only once a Serial No. has been received from IFRB).

01 Indicate the name of the transmitting station.

02 Country

Indicate the country or geographical area in which the station is located. Use the symbols in Table 1 of the Preface to the International Frequency List.

03 Indicate the hours of operation for which the given characteristics of the antenna are applicable. The symbols D or N shall be used to indicate that the station operates for the daytime or night-time period respectively. The symbol C shall be used to indicate critical hours of operation. When the same operation is used for more than one time period, enter the 2 or 3 applicable symbols.

04 Indicate the total number of towers constituting the array.

Column No.

05 Indicate the serial number of towers, as they will be described in columns 06 to 12.

06 Indicate here the ratio of the tower field to the field from the reference tower.

07 Indicate here, in degrees, the positive or negative difference in the phase angle of the field from the tower with respect to the field from the reference tower.

08 Indicate in degrees the electrical spacing of the tower from the reference point. defined in column 10.

09 Indicate, in degrees from True North, the angular orientation of the tower from the reference point indicated in column 10.

10 Define the reference point as follows:

0 = where the spacing and orientation are shown with respect to a common reference point which is generally the first tower.

1 = where the spacing and orientation are shown with respect to the previous tower.

Column No.

11 Indicate the electrical height (degrees) of the tower under consideration.

12 Tower structure

Indicate the structure of each tower using the following code:

0 = simple vertical antenna
1 = top-loaded antenna
2 = } sectionalized antenna
3 =
4 =
5 =
6 =
7 =
8 =
9 =

Codes 1 to 9 are used in Part IV to indicate the characteristics of the various structures. They are also used for the identification of the appropriate formula for vertical radiation in Appendices 3 and 5 to Annex 2.

Variable No.
or
Box No.

14 r.m.s. value of radiation (mV/m at 1 km)

15 Type of pattern : T = theoretical
E = expanded
M = augmented (modified expanded).

16 Special quadrature factor for expanded and augmented (modified expanded) patterns in mV/m at 1 km (to replace the normal expanded pattern quadrature factor when special precautions are taken to ensure pattern stability).

17 Supplementary information.

FORM FOR THE APPLICATION OF ARTICLE 4 OF THE AGREEMENT

CHARACTERISTICS OF A REGION 2 BROADCASTING STATION

IN THE BAND 535 - 1605 kHz

(OD) IFRB Serial No.

PART II

DESCRIPTION OF A DIRECTIONAL ANTENNA CONSISTING OF VERTICAL CONDUCTORS

Form No. Date

(01) Name of transmitting station

(02) Country

(03) Hours of operation

(04) Total number of towers

(05) Tower No.	(06) Tower field ratio	(07) Phase difference of the field (± degrees)	(08) Electrical tower spacing (degrees)	(09) Angular tower orientation (degrees)	(10) Definition point indicator	(11) Electrical height of tower (degrees)	(12) Tower structure
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

(Use a supplementary sheet in cases where there are more than 10 towers.)

(14) r.m.s. value of theoretical radiation ● mV/m at 1 km

(15) Type of pattern (T, E or M)

(16) Special quadrature factor ● mV/m at 1 km

(17) SUPPLEMENTARY INFORMATION

PART III

ADDITIONAL INFORMATION FOR DIRECTIONAL ANTENNAS WITH AUGMENTED (MODIFIED EXPANDED) PATTERNS

1. Part II contains the information for directional antenna systems operating with theoretical and expanded patterns. However, some stations operate with augmented (modified expanded) directional antenna patterns. In these cases, additional calculations are performed, once the expanded radiation is calculated, to determine the radiation from the augmented (modified expanded) directional antenna pattern. Part III contains the additional parameters required for augmented (modified expanded) patterns.

2. If Part III is submitted, a corresponding Part II must also be submitted.

3. Part III should be submitted only if Box 15 of Part II contains the symbol "M" for "augmented (modified expanded)".

Box No.

00 IFRB Serial Number (Indicate the IFRB Serial No. only once one has been received from IFRB).

01 Indicate the name of the transmitting station

02 Country. Indicate the country in which the station is located, using the symbols in Table I of the Preface to the International Frequency List.

03 Indicate the hours of operation for which the antenna characteristics given are applicable. The symbols D or N shall be used to indicate that the station operates for the daytime and night-time period respectively. The symbol C shall be used to indicate critical hours of operation. When the same operation is used for more than one time period, enter the 2 or 3 applicable symbols.
"N".

04 Indicate the total number of augmentations which are used. It must be 1 or greater than 1.

Column No.

05 Indicate the serial number of the augmentations, as they will be described in columns 06, 07 and 08 (see section 2 of Attachment A, Appendix 3 to Annex 2).

06 Indicate the radiation at the central azimuth of augmentation. This value should always be equal to or greater than the value from the theoretical pattern.

07 Indicate the central azimuth of augmentation. This is the centre of the span.

Box No.

08 Indicate the total span of the augmentation. Half of the span will be on each side of the central azimuth of augmentation. Spans may overlap; if so, augmentations are processed clockwise according to the central azimuth of augmentations.

09 Supplementary information. Indicate any supplementary information concerning augmented (modified expanded) patterns. If a supplementary sheet has been used for further augmentations, please indicate in this box.

I.F.R.B. Serial #

(00)

FORM FOR THE APPLICATION OF ARTICLE 4 OF THE AGREEMENT

CHARACTERISTICS OF A REGION 2 BROADCASTING STATION IN THE BAND 535 - 1605 kHz

PART III

ADDITIONAL INFORMATION FOR DIRECTIONAL ANTENNAS WITH

AUGMENTED (MODIFIED EXPANDED) PATTERNS

TO BE SUBMITTED WHENEVER THE SYMBOL M IS ENTERED IN PART II BOX 15

Form No. ___ ___ - Date

(01) Name of transmitting station

(02) Country

(03) Hours of operation

(04) Total number of augmentations

(05) Augmentation No.	(06) Radiation at central azimuth of augmentation (mV/m at 1 km)	(07) Central azimuth of augmentation (degrees)	(08) Total span of augmentation (degrees)
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

(Use a supplementary sheet in cases where there are more than 20 augmentations.)

(09) SUPPLEMENTARY INFORMATION

PART IV

SUPPLEMENTARY INFORMATION FOR TOP-LOADED OR SECTIONALIZED TOWERS USED FOR OMNIDIRECTIONAL AND DIRECTIONAL ANTENNA SYSTEMS

1. Where an omnidirectional antenna is top-loaded or sectionalized, a 1 or a 2 will have been entered in Part I Box 26 and/or 36. Proceed as for a single tower of a directional antenna.

2. When an antenna tower of a directional antenna is either top-loaded or sectionalized, column 12 of Part II will contain either a 1 for top-loaded or 2 to 9. This numeral describes the particular type of top-loaded or sectionalized antenna used, as described below:

Box No.

00 IFRB Serial Number (Indicate the Serial No. only once one has been received from IFRB).

01 Name of the station

02 Country. Indicate the country or geographical area in which the station is located, using the symbols in Table I of the Preface to the International Frequency List.

03 Indicate the hours of operation for which the given characteristics of the antenna are applicable. The symbols D or N shall be used to indicate that the station operates for the daytime or night-time period respectively. The symbol C shall be used to indicate critical hours of operation. When the same operation is used for more than one time period, enter the 2 or 3 applicable symbols.

Column No.

04 Tower number

Columns 5 to 8 contain the values of four characteristics of the elements constituting a top-loaded or sectionalized antenna. Each of these columns may contain a figure representing the value of a given characteristic as described below:

05	Code used in Col. 12 (Part II)	Description of the characteristic for which a value is given in the column. (These values are used in the equations given in Appendices 3 and 5)
	1	Electrical height of the antenna tower (degrees)
	2	Height of lower section (degrees)
	3	Height of lower section (degrees)
	4	Height of lower section (degrees)

	5	Height of lower section (degrees)
	6	Total height of tower (degrees)
	7	Height of lower section (degrees)
	8	Height of lower section (degrees)
	9	Height of centre of bottom dipole (degrees).

06	Code used in Col. 12 (Part II)	Description of the characteristic for which a value is given in the column. (These values are used in the equations given in Appendices 3 and 5).
	1	Difference between apparent electrical height (based on current distribution) and actual height (degrees).
	2	Difference between apparent electrical height of lower section (based on current distribution) and actual height of lower section (degrees).
	3	Blank
	4	Blank
	5	Height of upper section (degrees)
	6	Height of lower section (degrees)
	7	Total height of antenna (degrees)
	8	Height of upper section (degrees)
	9	Height of centre of top dipole (degrees).

07	Code used in Col. 12 (Part II)	Description of the characteristic for which a value is indicated in the column. (These values are used in the equations contained in Appendices 3 and 5)
	1	Blank
	2	Total height of antenna (degrees)
	3	Blank
	4	Blank
	5	Current distribution factor
	6	Blank
	7	Ratio of loop currents in the two elements
	8	Scaling factor so that f (Θ) is 1.0 in the horizontal plane
	9	Blank

08	Code used in Col. 12 (Part II)	Description of the characteristics for which a value is indicated in the column. These values are used in the equations entered in Appendices 3 and 5
	1	Blank
	2	Difference between apparent electrical height (based on current distribution) of the total tower and the actual height of the total tower (degrees)
	3	Blank
	4	Blank
	5	Ratio of maximum current in the top section to maximum currrent in the bottom section
	6	Blank
	7	Blank
	8	The absolute value of the ratio of the real component of current to the imaginary component of current at the point of maximum amplitude
	9	Blank

I.F.R.B. Serial #

(00)

FORM FOR THE APPLICATION OF ARTICLE 4 OF THE AGREEMENT
CHARACTERISTICS OF A REGION 2 BROADCASTING STATION IN THE BAND 535 - 1605 kHz

PART IV

SUPPLEMENTARY INFORMATION FOR TOP-LOADED OR SECTIONALIZED TOWERS USED FOR:

A) DIRECTIONAL ANTENNA SYSTEMS FOR TOWERS ENTERED IN PART II AS TOP-LOADED OR SECTIONALIZED (COLUMN 12), OR
B) NON-DIRECTIONAL ANTENNA TOWERS ENTERED IN PART I AS TOP-LOADED OR SECTIONALIZED (COLUMN 26 OR 36).

Form No. Date

(01) Name of transmitting station (02) Country (03) Hours of operation

(04) Tower number	(05) A	(06) B	(07) C	(08) D

PART V

SUPPLEMENTARY INFORMATION FOR EXTENDED HOURS OF OPERATION

Instructions for completing the form

1. Information in boxes 02, 03, 04 and the IFRB Serial No. should coincide with information on the station previously notified.

2. If the station is new or if previously notified parameters are being modified, this sheet should be attached to IFRB Form Part I (as well as Parts II, III or IV where appropriate) as described in Annex 3 to the Agreement.

3. This sheet is to be submitted only when modified daytime (sunrise-to-sunset at the local site) or night time (sunset-to-sunrise at the local site) parameters are to be used at other than the previously authorized local times.

4. Fill in the remaining data in the following manner:

Box No.

41 The month and day when the operation in that column (boxes 41 to 46) commences.

42 The month and day when the operation ceases.

43 The hour in UTC (Universal Co-ordinated Time) when the parameters described in that column commence.

44 The hour in UTC when these parameters cease to be used.

45 Carrier power supplied to the antenna (to the second decimal position) in kW.

46 r.m.s. value of radiation, in mV/m at 1 km, for the power in box 45.

47 Antenna system used for extended hours: Indicate Day or Night system.

51-56 Similar to 41-46 for the dates and times indicated.

61-66 as 51-56

5. If more than one sheet is necessary to describe the operation, fill in the sheet number and the total sheets in the boxes provided.

(00) IFRB Serial No.

FORM FOR THE APPLICATION OF ARTICLE 4 OF THE AGREEMENT

CHARACTERISTICS OF A REGION 2 BROADCASTING STATION IN THE BAND 535-1605 kHz

PART V

SUPPLEMENTARY INFORMATION FOR EXTENDED HOURS OF OPERATION

(02) FREQ. kHz (03) CITY. STATE/PROV.

(04) CALL SIGN FORM NO. DATE YR MO DAY

SHEET OF SHEETS

Dates of the year inclusive — From: / To:	(41) (42) Mo Day	(51) (52) Mo Day	(61) (62) Mo Day
Hours of Extended Operation (UTC) — From: / To:	(43) (44)	(53) (54)	(63) (64)
Station Power in kW during these hours	(45)	(55)	(65)
R.m.s. value of radiation for station power (mV/m at 1 km)	(46)	(56)	(66)
Antenna system used for extended hours	(47) DAY NIGHT		
Remarks: (add any other pertinent information)			

PART VI

Class A Stations (formerly NARBA Class I-A)

Protected During Critical Hours of Operation

Channel kHz	Call Sign	Location	Country
540	CBK	Watrous, Sask.	Canada
640	KFI	Los Angeles, Cal.	U.S.A.
650	WSM	Nashville, Tenn.	U.S.A.
660	WNBC	New York, N.Y.	U.S.A.
670	WMAQ	Chicago, Ill.	U.S.A.
690	CBF	Montreal, Que.	Canada
700	WLW	Cincinnati, Ohio	U.S.A.
720	WGN	Chicago, Ill.	U.S.A.
740	CBL	Toronto, Ont.	Canada
750	WSB	Atlanta, Ga.	U.S.A.
760	WJR	Detroit, Mich.	U.S.A.
770	WABC	New York, N.Y.	U.S.A.
780	WBBM	Chicago, Ill.	U.S.A.
820	WBAP	Fort Worth, Tex.	U.S.A.
830	WCCO	Minnesota, Minn.	U.S.A.
840	WHAS	Louisville, Ky.	U.S.A.
860	CJBC	Toronto, Ont.	Canada
870	WWL	New Orleans, La.	U.S.A.
880	WCBS	New York, N.Y.	U.S.A.
890	WLS	Chicago, Ill.	U.S.A.
990	CBW	Winnipeg, Man.	Canada
1010	CBR	Calgary, Alta.	Canada
1020	KDKA	Pittsburgh, Pa.	U.S.A.
1030	WBZ	Boston, Mass.	U.S.A.
1040	WHO	Des Moines, Ia.	U.S.A.
1100	WWWE	Cleveland, Ohio	U.S.A.
1120	KMOX	St. Louis, Mo.	U.S.A.
1160	KSL	Salt Lake City, Utah	U.S.A.
1180	WHAM	Rochester, N.Y.	U.S.A.
1200	WOAI	San Antonio, Tex.	U.S.A.
1210	WCAU	Philadelphia, Pa.	U.S.A.
1580	CBJ	Chicoutimi, Que.	Canada.

PART VI - A

Class A Stations (formerly NARBA Class I-B)

Channel kHz	Call Sign	Location	Country
640	CBN	S. John's, Nfld.	Canada
680	KNBR	S. Francisco, Calif.	U.S.A.
710	WOR	New York, N.Y.	U.S.A.
	KIRO	Seattle, Wash.	U.S.A.
810	KGO	S. Francisco, Calif.	U.S.A.
	WGY	Schenectady, N.Y.	U.S.A.
850	KOA	Denver, Colo.	U.S.A.
940	CBM	Montreal, Que.	Canada
1000	WCFL	Chicago, Ill.	U.S.A.
	KOMO	Seattle, Wash.	U.S.A.
1060	KYW	Philadelphia, Pa.	U.S.A.
1070	CBA	Moncton, N.B.	Canada
	KNX	Los Angeles, Calif.	U.S.A.
1080	WTIC	Hartford, Conn.	U.S.A.
	KRLD	Dallas, Texas	U.S.A.
1090	KAAY	Little Rock, Ark.	U.S.A.
	WBAL	Baltimore, Md.	U.S.A.
1110	KFAB	Omaha, Neb.	U.S.A.
	WBT	Charlotte, N.C.	U.S.A.
1130	CKWX	Vancouver, B.C.	Canada
	KWKH	Shreveport, La.	U.S.A.
	WNEW	New York, N.Y.	U.S.A.
1140	WRVA	Richmond, Va.	U.S.A.
1170	KVOO	Tulsa, Okla.	U.S.A.
	WWVA	Wheeling, W. Va.	U.S.A.
1190	WOWO	Fort Wayne, Ind.	U.S.A.
	KEX	Portland, Ore.	U.S.A.
1500	WTOP	Washington, D.C.	U.S.A.
	KSTP	S. Paul, Minn.	U.S.A.
1510	WLAC	Nashville, Tenn.	U.S.A.
	KGA	Spokane, Wash.	U.S.A.
1520	WKBW	Buffalo, N.Y.	U.S.A.
	KOMA	Oklahoma City, Okla.	U.S.A.
1530	KFBK	Sacramento, Calif.	U.S.A.
	WCKY	Cincinnati, Ohio	U.S.A.
1540	KXEL	Waterloo, Ia.	U.S.A.
1550	CBE	Windsor, Ont.	Canada
1560	WQXR	New York, N.Y.	U.S.A.
	KPMC	Bakersfield, Calif.	U.S.A.

PART VII

THE PLAN

1. The Plan in its entirety shall consist of:

a) the assignments notified, coordinated and accepted by both Administrations pursuant to agreements and arrangements previously in force between them, as they appear in their respective records; and

b) the list of assignments which appears in this Part.

Since it was not possible to attach a complete, accurate list of assignments to this Agreement, the Administrations undertake to exchange their respective lists and to verify them with a view to producing a mutually agreed consolidated version of the Plan for the application of the Agreement, as soon as possible. This version of the Plan shall be adopted by an exchange of notes between the two governments.

2. The assignments in the Plan on 1230, 1240, 1340, 1400, 1450 and 1490 kHz reflect agreement that the night-time power of assignments notified and accepted when the Agreement is signed, on channels hitherto classified as "local" channels, may be increased to 1 kW or, in some individual cases, to other indicated levels. The effective dates of such power increases will be established by exchange of letters between the Administrations. Stations on the above-listed channels which are in operation when the Agreement is signed will be permitted to increase power during daytime hours if they provide protection mutually accepted by both Administrations.

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* LISTE DES ASSIGNATIONS EN CONFORMITÉ AVEC L'ALINÉA 1. b) DE LA PARTIE VII DE L'ANNEXE 1 À L'ACCORD *

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****

* LIST OF ASSIGNMENTS IN ACCORDANCE WITH SECTION 1. b) OF PART VII OF ANNEX 1 TO THE AGREEMENT *

****

********** DESCRIPTION DES EN-TETES DE COLONNE **********

********** DESCRIPTION OF COLUMN HEADINGS **********

DATE DE PRÉPARATION DE LA LISTE: 23 NOVEMBRE 1983

DATE LIST WAS PREPARED: 23 NOVEMBER 1983

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
FRÉQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ÉLECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

(17)	(18)	(19)	(20)	(21)	(22)	(23)
NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRÉS)	ESPACEMENT (DEGRÉS)	ORIENTATION (DEGRÉS)	HAUT. ÉLECT. (DEGRÉS)	DONNÉES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISÉES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

(24)	(25)	(26)	(27)
AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADIATION (M/VM)
AUG #			

COLONNE # : ----------DESCRIPTION----------

COLUMN # :

(1) : FRÉQUENCE EN KILOHERTZ
: FREQUENCY IN KILOHERTZ

(2) : INDICATIF D'APPEL DE LA STATION -- PARFOIS LA DATE (AAMMJJ) QUAND L'ASSIGNATION ÉTAIT ENTRÉE
: CALL SIGN OF STATION -- SOMETIMES REFERRING TO A DATE (YYMMDD) THE RECORD WAS ENTERED INTO THE NEGOTIATIONS

(3) : PAYS - (CA) CANADA (US) ÉTATS-UNIS
: COUNTRY - (CA)CANADA (US)UNITED STATES

(4) : LATITUDE EN DEGRÉS, MINUTES, SECONDES - (N)NORD OU (S)SUD
: LATITUDE IN DEGREES, MINUTES, SECONDS - (N)ORTH OR (S)OUTH

(5) : LONGITUDE EN DEGRÉS, MINUTES, SECONDES - (E)EST OU (W)OUEST
: LONGITUDE IN DEGREES, MINUTES, SECONDS - (E)AST OR (W)EST

(6) : PUISSANCE EN KILOWATTS
: POWER IN KILOWATTS

(7) : HEURES D'EXPLOITATION - (D)IURNE (N)OCTURNE
: HOURS OF OPERATION - (D)AY (N)IGHT

(8) : TYPE DE SYSTÈME D'ANTENNE -- (N)NON-DIRECTIONNELLE OU (D)DIRECTIONNELLE
: TYPE OF ANTENNA SYSTEM -- (N)ON-DIRECTIONAL OR (D)IRECTIONAL

(9) : CLASSE DE LA STATION - A, B, C
: CLASS OF STATION - A, B, C

(10) : STATUT - (O)OPERATIONNELLE OU (P)PROPOSÉE
: STATUS - (O)PERATING OR (P)ROPOSED

(11) : HAUTEUR DE L'ANTENNE EN DEGRÉS ÉLECTRIQUES -- NÉANT POUR ANTENNE DIRECTIONNELLE
: ANTENNA HEIGHT IN ELECTRICAL DEGREES -- BLANK IF DIRECTIONAL ANTENNA SYSTEM

(12) : RMS EN MV/M À UN KILOMÈTRE POUR LA PUISSANCE SPECIFIÉE
: RMS IN MV/M AT ONE KILOMETER FOR THE POWER SPECIFIED
(13) : (ET)ÉTAT OU (PR)PROVINCE
: (ST)ATE OR (PR)OVINCE
(14) : VILLE
: CITY
(15) : FACTEUR Q -- ASTÉRISQUE SIGNIFIE UNE VALEUR NON-NORMALE -- NÉANT SI NON-DIRECTIONNELLE
: Q-FACTOR -- ASTERISK DENOTES NON-STANDARD VALUE -- BLANK IF NON-DIRECTIONAL
(16) : NOTES DÉCRIVANT LES CONDITIONS CONVENUES POUR ACCEPTABILITÉ
: NOTES GENERALLY SETTING FORTH AGREED CONDITIONS OF ACCEPTABILITY
(17) : LE NUMÉRO D'UNE TOUR PARTICULIÈRE D'UN SYSTÈME D'ANTENNE DIRECTIONNELLE
: THE NUMBER OF A PARTICULAR TOWER IN A DIRECTIONAL ANTENNA SYSTEM
(18) : RAPPORT DE CHAMPS D'UNE TOUR PARTICULIÈRE
: FIELD RATIO OF A PARTICULAR TOWER
(19) : PHASE EN DEGRÉS D'UNE TOUR PARTICULIÈRE EN RAPPORT A UNE RÉFÉRENCE
: PHASING IN DEGREES OF A PARTICULAR TOWER WITH RESPECT TO A REFERENCE
(20) : ESPACEMENT EN DEGRÉS ÉLECTRIQUES D'UNE TOUR PARTICULIÈRE EN RAPPORT AU POINT DE RÉFÉRENCE
: SPACING IN ELECTRICAL DEGREES OF A PARTICULAR TOWER WITH RESPECT TO THE REFERENCE POINT
(21) : ORIENTATION EN DEGRÉS DU VRAI NORD D'UNE TOUR PARTICULIÈRE EN RAPPORT AU POINT DE RÉFÉRENCE
: ORIENTATION IN DEGREES FROM TRUE NORTH OF A PARTICULAR TOWER WITH RESPECT TO THE REFERENCE POINT
(22) : HAUTEUR DE LA TOUR EN DEGRÉS ÉLECTRIQUES -- NÉANT SI A CHARGE TERMINALE OU SECTIONALISÉE
: TOWER HEIGHT IN ELECTRICAL DEGREES -- BLANK IF TOP-LOADED OR SECTIONALIZED
(23) : DONNÉES POUR ANTENNES À CHARGE TERMINALE OU SECTIONALISÉES -- S SUIVIT D'UN ZERO SIGNIFIE UNE ANTENNE NORMALE SECTIONALISÉE EN RÉFÉRENCE À LA FORMULE DE L'APPENDICE 3 A L'ANNEXE 2, ET S SUIVIT D'UN NUMÉRO 1 A 7 SIGNIFIE UNE ANTENNE SECTIONALISÉE NON-NORMALE EN RÉFÉRENCE AUX FORMULES DE L'APPENDICE 5 A L'ANNEXE 2
: TOP-LOADED AND SECTIONALIZED ANTENNA DATA -- S FOLLOWED BY A ZERO REPRESENTS A STANDARD SECTIONALIZED ANTENNA REFERRING TO THE FORMULA IN APPENDIX 3 OF ANNEX 2 AND S FOLLOWED BY 1 THROUGH 7 REPRESENTS A NON-STANDARD SECTIONALIZED ANTENNA REFERRING TO THE FORMULAS IN APPENDIX 5 OF ANNEX 2
(24) : NUMÉRO D'AUGMENTATION
: AUGMENTATION NUMBER
(25) : AZIMUT D'AUGMENTATION
: AZIMUTH OF AUGMENTATION
(26) : ARC D'AUGMENTATION
: SPAN OF AUGMENTATION
(27) : RAYONNEMENT A L'AZIMUT D'AUGMENTATION
: RADIATION AT THE AZIMUTH OF AUGMENTATION

11 JANVIER 1984
11 JANUARY 1984

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S / HRS DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) ET PR / RMS (MV/M) ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGREES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA				

540	830516	CA	49-15-20 N	122-38- 0 W	50.00	D D B P		2002.02	BC VANCOUVER	70.71	
1	1.0000	0.0000	0.0000	0.0000	71.1						
2	0.7040	-58.6000	150.0000	353.0000	71.1						
3	0.4490	62.4000	150.0000	173.0000	71.1						
*540	830516	CA	49-15-20 N	122-38- 0 W	10.00	N D B P		890.61	BC VANCOUVER	31.62	
1	1.0000	0.0000	0.0000	0.0000	71.1						
2	0.2371	102.0000	240.0000	289.0000	71.1						
3	0.7266	-128.5000	120.0000	289.0000	71.1						
4	0.7266	128.5000	120.0000	109.0000	71.1						
5	0.2371	-102.0000	240.0000	109.0000	71.1						
540	CBT	CA	48-57- 3 N	55-37-34 W	10.00	U N A O	60.0	916.05	NF GRAND FALLS		
540	NEW	CA	44-40- 0 N	63-40- 0 W	10.00	D N B P	70.0	960.79	NS HALIFAX		
540	NEW	CA	44-40- 0 N	63-40- 0 W	10.00	N D B P		943.40	NS HALIFAX	31.62	
1	1.0000	0.0000	0.0000	0.0000	70.0						
2	1.0000	90.0000	90.0000	50.0000	70.0						
3	0.8000	-8.4000	127.2800	95.0000	70.0						
4	0.8000	-98.4000	90.0000	140.0000	70.0						
540	CJSB	CA	45-11-21 N	75-46-46 W	50.00	D D B P		2092.15	ON OTTAWA	75.33	
1	0.9200	0.0000	0.0000	0.0000	70.0						
2	0.9400	93.0000	90.0000	88.0000	70.0						
3	1.0000	-168.5000	77.4900	152.5000	70.0						
4	0.9800	98.4000	90.0000	217.0000	70.0						

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
540	CJSB	CA	45-11-21 N	75-46-46 W	10.00	N	D	B	P	933.42	ON		OTTAWA	31.62	
1	1.8900		0.0000	0.0000	0.0000	70.0									
2	1.0000		23.7000	188.7000	276.6000	70.0									
3	1.0000		-16.3000	195.3000	97.4000	70.0									
540	CKCY	CA	46-32-20 N	84-27-40 W	20.00	D	D	B	P	1259.47	ON		SAULT STE. MARIE	38.73*	
1	1.0000		0.0000	0.0000	0.0000	65.0									
2	0.7700		-76.0000	140.0000	0.0000	65.0									
3	0.3770		76.0000	140.0000	180.0000	65.0									
540	CKCY	CA	46-32-20 N	84-27-40 W	3.00	N	D	B	P	492.46	ON		SAULT STE. MARIE	15.81*	
1	0.3921		87.2000	240.0000	65.0000	65.0									
2	1.0000		-136.6000	120.0000	65.0000	65.0									
3	1.0000		0.0000	0.0000	0.0000	65.0									
4	0.3921		136.2000	120.0000	245.0000	65.0									
540	CBEF	CA	42- 8-50 N	83- 5-33 W	2.50	D	D	B	D	460.27	ON		WINDSOR	17.09	
1	1.0000		0.0000	0.0000	0.0000	88.9									
2	0.9100		239.9999	63.0000	36.0000	69.1									
3	0.9100		0.0000	189.0000	126.0000	88.9									
4	0.8281		239.9999	199.2230	107.5670	69.1									
540	CBEF	CA	42- 8-50 N	83- 5-33 W	5.00	N	D	B	D	651.78	ON		WINDSOR	24.21	
1	1.0000		0.0000	0.0000	0.0000	88.9									
2	0.9100		239.9999	63.0000	36.0000	69.1									
3	0.9100		0.0000	189.0000	126.0000	88.9									
4	0.8281		239.9999	199.2230	107.5670	69.1									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
540	CHIC	CA	48-22- 0 N	71- 5- 0 W	10.00	D	N	B	P	60.0	949.49	QU CHICOUTIMI		
540	CHIC	CA	48-22- 0 N	71- 5- 0 W	10.00	N	D	B	P		893.89	QU CHICOUTIMI	32.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	70.0	
2	1.0000	243.4000	90.0000	57.0000	70.0	
3	1.0000	234.4000	271.1860	84.6830	70.0	
4	1.0000	-9.0000	196.0000	97.0000	70.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
540	CBGA1	CA	47-48-50 N	65- 8-50 W	10.00	D	D	B	O		965.61	QU NEW CARLISLE	35.35	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	1.0000	138.0000	90.0000	169.0000	80.0	
3	0.5000	-80.0000	180.0000	171.7000	80.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
540	CBGA1	CA	47-48-50 N	65- 8-50 W	10.00	N	D	B	O		965.61	QU NEW CARLISLE	39.78	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	1.2730	148.5000	90.0000	169.0000	80.0	
3	0.7834	-68.0000	180.0000	171.7000	80.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
540	CBK	CA	51-40-48 N	105-26-49 W	50.00	U	N	A	O	95.8	2241.82	SA WATROUS		
540	KVIP	US	40-32-36 N	122-21-21 W	1.00	D	N	B	O	65.2	289.68	CA REDDING		
540	KVIP	US	40-32-36 N	122-21-21 W	1.00	D	N	B	P	89.5	289.68	CA REDDING		
540	KVIP	US	40-32-36 N	122-21-21 W	2.50	N	D	B	P		553.61	CA REDDING	32.60	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	88.9	
2	2.8000	-150.0000	80.0000	255.0000	88.9	
3	2.8000	60.0000	160.0000	255.0000	88.9	
4	1.0000	-90.0000	240.0000	255.0000	88.9	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

540	NEW	US	36-43-29 N	121-35-25 W	5.00	N	D	B	P		733.86	CA	SEASIDE	31.15	
1	1.0000		0.0000	0.0000	0.0000		69.1								
2	1.8500		142.9000	80.0000	66.0000		69.1								
3	0.9100		-74.2000	160.0000	66.0000		69.1								
540	WGTO	US	28- 7-57 N	81-43-16 W	50.00	D	D	B	O		2068.01	FL	CYPRESS GARDENS	70.71	
1	1.0000		30.0000	0.0000	0.0000		69.0								
2	1.0000		0.0000	116.9000	0.0000		69.0								
3	0.6000		-145.0000	134.9884	30.0028		69.0								
4	0.6000		-115.0000	67.5000	90.0000		69.0								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	60.0	78.0	3762.6	5	187.5	15.0	523.0
2	99.0	72.0	3933.2	6	195.0	15.0	523.0
3	135.0	68.0	2022.9	7	202.5	15.0	531.1
4	169.0	22.0	774.1	8	335.0	11.0	1046.1

540	WGTO	US	28- 7-57 N	81-43-16 W	1.00	N	D	B	O		299.34	FL	CYPRESS GARDENS	10.00	
1	1.0000		0.0000	0.0000	0.0000		69.0								
2	0.9000		-135.5000	67.5000	90.0000		69.0								
3	0.9000		-163.5000	134.9884	149.9971		69.0								
4	1.0000		-28.0000	116.9000	180.0000		69.0								
540	WGTO	US	28- 7-57 N	81-43-16 W	5.00	N	D	B	P		662.73	FL	CYPRESS GARDENS	22.36	5
1	1.0000		0.0000	0.0000	0.0000		69.0								
2	0.8530		-132.6000	67.5000	90.0000		69.0								
3	0.1920		-77.0000	116.9000	0.0000		69.0								
4	0.1090		-142.3000	134.9900	30.0000		69.0								

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

540	WDAK	US	32-27- 8 N	85- 3-18 W	5.00		D	N	B	O				669.34	GA COLUMBUS
											T	A = 79.0	B = 11.0	C = 0.0	D = 0.0
540	WDAK	US	32-27- 8 N	85- 3-18 W	0.50		N	D	B	O				211.47	GA COLUMBUS 10.16
1	0.4500		145.9999	0.0000	0.0000						T	A = 79.0	B = 11.0	C = 0.0	D = 0.0
2	1.0000		0.0000	80.0000	105.0000						T	A = 79.0	B = 11.0	C = 0.0	D = 0.0
3	0.7400		-154.0000	160.0000	105.0000						T	A = 79.0	B = 11.0	C = 0.0	D = 0.0

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	5.0	10.0	49.9	14	205.0	10.0	61.2
2	10.0	10.0	40.2	15	225.0	20.0	72.4
3	15.0	10.0	38.6	16	235.0	10.0	64.5
4	23.0	16.0	59.9	17	240.0	10.0	73.2
5	50.0	10.0	236.7	18	260.0	12.0	99.7
6	75.0	50.0	392.5	19	266.0	12.0	107.7
7	105.0	60.0	454.5	20	275.5	19.0	118.9
8	135.0	26.0	393.1	21	285.0	15.0	126.0
9	148.0	26.0	329.8	22	292.5	15.0	124.0
10	165.0	34.0	209.2	23	300.0	15.0	115.5
11	189.0	12.0	41.6	24	335.0	20.0	64.5
12	195.0	10.0	41.8	25	335.0	10.0	70.8
13	200.0	10.0	48.3	26	345.0	20.0	66.0

540	WDAK-1	US	32-27- 8 N	85- 3-18 W	10.00		N	D	B	P				945.71	GA COLUMBUS 45.43
1	0.4500		146.0000	0.0000	0.0000						T	A = 79.0	B = 11.0	C = 0.0	D = 0.0
2	1.0000		0.0000	80.0000	105.0000						T	A = 79.0	B = 11.0	C = 0.0	D = 0.0
3	0.7400		-154.0000	160.0000	105.0000						T	A = 79.0	B = 11.0	C = 0.0	D = 0.0

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11 JANUARY 1984

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
540	KWMT	US	42-29-45 N	94-12-27 W	5.00	D	D	B	0	706.50	IA	FORT DODGE	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.9000	-108.0000	0.0000	0.0000	124.9	
2	1.0000	0.0000	80.0000	2.0000		T A = 63.2 B = 19.8 C = 0.0 D = 0.0

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	27.0	30.0	96.6
2	53.0	52.0	241.4
3	310.5	51.0	236.6
4	336.0	30.0	96.6
5	351.0	22.0	93.3

540	KWMT	US	42-29-45 N	94-12-27 W	0.25	N	D	B	P	157.72	IA	FORT DODGE	10.00	4
1	1.0000	0.0000	0.0000	0.0000	83.0									
2	1.1111	65.0000	125.0000	355.0000	83.0									

540	KNOE	US	32-32-36 N	92-10-45 W	5.00	D	D	B	0	651.78	LA	MONROE	22.36	
1	1.0000	0.0000	0.0000	0.0000	63.0									
2	0.1000	50.0000	126.8000	216.5000	63.0									

540	KNOE	US	32-32-36 N	92-10-45 W	1.00	N	D	B	0	276.81	LA	MONROE	12.30	
1	0.9000	33.0000	0.0000	0.0000	63.0									
2	1.0000	0.0000	170.0000	10.0000	63.0									
3	0.8100	-117.0000	80.0000	145.0000	63.0									
4	0.9000	-150.0000	126.7545	36.5055	63.0									

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	11.0	42.0	99.5
2	32.0	42.0	64.4
3	43.0	22.0	104.6
4	160.0	12.0	88.8
5	172.5	25.0	130.9
6	185.0	25.0	152.2
7	202.5	35.0	122.2
8	220.0	20.0	48.3
9	230.0	20.0	66.0
10	240.0	16.0	70.8
11	248.0	16.0	66.0
12	256.0	16.0	57.9
13	268.0	24.0	109.4
14	280.0	10.0	233.4
15	310.0	10.0	374.4
16	350.0	42.0	173.7

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
540	WDMV	US	38- 3-11 N	75-34-11 W	0.50	D N	B	O	63.2	204.84	MD	POCOMOKE CITY		
540	WDVM	US	38- 3-11 N	75-34-11 W	0.50	N N	B	P	63.2	204.84	MD	POCOMOKE CITY		3
540	WETC	US	35-52- 6 N	78-25-56 W	5.00	D D	B	O		638.91	NC	WENDELL-ZEBULON	25.30*	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000		T A = 79.0 B = 54.9 C = 0.0 D = 0.0
2	2.2100	192.2999	90.0000	131.0000		T A = 79.0 B = 54.9 C = 0.0 D = 0.0
3	2.5900	39.3000	180.0000	131.0000		T A = 79.0 B = 54.9 C = 0.0 D = 0.0
4	1.6100	236.0000	270.0000	131.0000		T A = 79.0 B = 54.9 C = 0.0 D = 0.0

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	5.0	43.0	431.5
2	41.0	20.0	135.4
3	81.0	10.0	493.4
4	101.0	10.0	1149.8
5	131.0	10.0	1628.7
6	161.0	10.0	1147.1
7	181.0	10.0	498.9
8	221.0	20.0	144.8
9	257.0	10.0	427.3

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
540	KNMX	US	35-34-25 N	105-10-17 W	5.00	D D	B	O		655.00	NM	LAS VEGAS	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	0.9500	110.0000	90.0000	161.0000	90.0

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
540	KNMX	US	35-34-25 N	105-10-17 W	0.25	N N	B	P	90.0	152.89	NM	LAS VEGAS		
540	WLIX	US	40-45- 4 N	73-12-52 W	0.25	D N	B	O	62.3	144.04	NY	ISLIP		
540	WLIX	US	40-45- 4 N	73-12-52 W	1.00	N D	B	P		307.71	NY	ISLIP	10.00	1

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	62.3
2	0.5700	110.0000	90.0000	350.0000	62.3

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
540	WARO	US	40-17-22 N	80-11- 7 W	0.25	C	D	B	P		145.65	PA	CANONSBURG	10.00	
1	1.0000		0.0000	0.0000	0.0000	63.4									
2	1.0000		104.0000	80.0000	335.0000	63.4									
540	WARO	US	40-17-22 N	80-11- 7 W	1.00	D	D	B	P		283.26	PA	CANONSBURG	10.00	
1	1.0000		0.0000	0.0000	0.0000	63.4									
2	1.0000		104.0000	80.0000	335.0000	63.4									
540	WARO	US	40-17-22 N	80-11- 7 W	0.25	D	D	B	O		145.65	PA	CANONSBURG	10.00	
1	1.0000		104.0000	0.0000	0.0000	63.5									
2	1.0000		0.0000	80.0000	155.0000	63.5									
540	WARO	US	40-17-22 N	80-11- 7 W	0.50	N	D	B	P		214.04	PA	CANONSBURG	10.00	
1	1.0000		0.0000	0.0000	0.0000	63.4									
2	1.0000		104.0000	80.0000	335.0000	63.4									
540	WYNN	US	34-13- 5 N	79-48-22 W	0.25	D	N	B	O	63.2	144.84	SC	FLORENCE		
540	WYNN	US	34-13- 5 N	79-48-22 W	0.25	N	N	B	P	63.2	144.84	SC	FLORENCE		
540	WDXN	US	36-32-28 N	87-19-33 W	1.00	D	N	B	O	72.1	296.12	TN	CLARKSVILLE		
540	WDXN	US	36-32-28 N	87-19-33 W	1.00	N	D	B	P		330.56	TN	CLARKSVILLE	12.27	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		-133.6000	60.0000	160.0000	90.0									
540	KNAK	US	39-20-12 N	112-33-21 W	1.00	D	N	B	O	63.2	288.07	UT	DELTA		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

540	KNAK	US	39-20-12 N	112-33-21 W	0.25	N	D	B	P		152.08	UT	DELTA	10.00	
1	1.0000		0.0000	0.0000	0.0000		63.2								
2	0.9240		90.0000	195.0000	0.0000		63.2								
540	WRIC	US	37- 5- 1 N	81-46-58 W	1.00	D	N	B	O	83.0	281.64	VA	RICHLANDS		
540	WRIC	US	37- 5- 1 N	81-46-58 W	0.25	N	N	B	P	82.8	140.82	VA	RICHLANDS		6
540	WYLO	US	43-20- 0 N	88- 9-11 W	0.25	D	D	B	O		139.05	WI	JACKSON	10.00	
1	0.6990		-155.8000	0.0000	0.0000					T	A = 63.8	B = 10.2	C = 0.0	D = 0.0	
2	1.0000		5.0000	88.9000	354.0000					T	A = 63.8	B = 10.2	C = 0.0	D = 0.0	
3	0.6990		155.7999	177.8000	-6.0000					T	A = 63.8	B = 10.2	C = 0.0	D = 0.0	

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	4.0	20.0	78.1	12	119.0	20.0	128.4
2	14.0	20.0	61.2	13	215.0	15.0	209.2
3	20.0	15.0	48.3	14	224.0	20.0	155.7
4	32.4	10.0	20.9	15	234.0	20.0	100.6
5	45.0	15.0	45.1	16	235.0	20.0	96.6
6	56.0	24.0	72.4	17	240.0	10.0	67.6
7	68.0	20.0	84.2	18	245.0	10.0	38.6
8	78.0	20.0	75.6	19	250.0	15.0	32.2
9	90.0	20.0	45.1	20	345.0	12.0	79.8
10	98.0	20.0	25.7	21	354.0	20.0	84.4
11	109.0	20.0	71.8				

540	WYLO	US	43-20- 0 N	88- 9-11 W	0.25	N	D	B	P		163.19	WI	JACKSON	10.00	2
1	0.5350		-102.0700	0.0000	0.0000		63.8								
2	1.0000		0.0000	88.9300	354.0000		63.8								
3	0.4770		102.6100	177.8600	354.0000		63.8								

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
640	NEW	CA	49-28- 0 N	117-17- 0 W	10.00	D	N	B	P	70.0	960.79	BC	NELSON		
640	NEW	CA	49-28- 0 N	117-17- 0 W	4.00	N	D	B	P		606.72	BC	NELSON	20.00	
1	1.0000		0.0000	0.0000	0.0000	70.0									
2	1.9939		102.2000	90.0000	185.0000	70.0									
3	1.0000		-155.0000	180.0000	185.0000	70.0									
640	CBN	CA	47-30-10 N	52-48- 7 W	10.00	U	N	A	D	65.7	925.37	NF	ST JOHN'S		
640	NEW	CA	45- 5- 0 N	74-54- 0 W	5.00	N	D	B	P		640.13	ON	CORNWALL	22.36	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.9000		256.0000	90.0000	336.0000	90.0									
3	0.8100		256.0000	189.7120	45.9800	90.0									
4	0.9000		0.0000	180.0000	74.0000	90.0									
640	CFOB	CA	48-36-10 N	93-26-52 W	1.00	D	N	B	P	70.2	299.34	ON	FORT FRANCES		
640	NEW	CA	48-36-10 N	93-26-52 W	1.00	N	D	B	P		297.73	ON	FORT FRANCES	10.00	12
1	1.0000		0.0000	0.0000	0.0000	70.2									
2	0.7250		-111.0000	90.0000	20.0000	70.2									
640	NEW	CA	43- 8-58 N	79-39-29 W	20.00	D	D	B	P		1295.52	ON	TORONTO	15.92*	
1	1.0000		0.0000	0.0000	0.0000	82.0									
2	1.9700		93.0000	100.0000	210.0000	82.0									
3	1.0000		186.0000	200.0000	210.0000	82.0									
4	0.8600		0.0000	180.0000	90.0000	82.0									
5	1.7000		93.0000	156.2000	123.7000	82.0									
6	0.8600		186.0000	190.8000	155.2000	82.0									

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
640	NEW	CA	43- 8-58 N	79-39-29 W	25.00		N	D	B	P		1466.11	ON	TORONTO	50.00	
1	1.0000	0.0000	0.0000	0.0000	82.0											
2	1.6001	98.0000	100.0000	210.0000	82.0											
3	0.6399	-164.0000	200.0000	210.0000	82.0											
4	2.7500	97.4000	156.2000	123.7000	82.0											
5	1.1001	-164.6000	190.8000	155.2000	82.0											
6	0.8701	-2.0000	360.0000	90.0000	82.0											
7	1.3999	96.0000	321.8999	105.6000	82.0											
8	0.5601	-166.0000	312.3999	123.7000	82.0											
9	1.7200	-0.6000	180.0000	90.0000	82.0											
640	KFI	US	33-52-48 N	118- 0-48 W	50.00		U	N	A	D	175.7	2651.49	CA	LOS ANGELES		
640	NEW	US	28-53-22 N	82- 1-50 W	1.00		U	N	B	P	85.0	302.56	FL	WILDWOOD		
640	NEW	US	33-45-43 N	84-27-29 W	50.00		D	D	B	P		2011.68	GA	ATLANTA	70.71	
1	1.0000	0.0000	0.0000	0.0000							T A = 78.7 B = 10.3 C = 0.0 D = 0.0					
2	0.7000	-141.0000	80.0000	172.0000							T A = 78.7 B = 10.3 C = 0.0 D = 0.0					
640	NEW	US	33-45-43 N	84-27-29 W	1.00		N	D	B	P		304.97	GA	ATLANTA	11.17*	
1	1.0000	0.0000	0.0000	0.0000							T A = 78.7 B = 10.3 C = 0.0 D = 0.0					
2	1.0000	50.0000	80.0000	270.0000							T A = 78.7 B = 10.3 C = 0.0 D = 0.0					
640	NEW	US	31-39-20 N	84-10-30 W	10.00		D	N	B	P	121.8	1022.93	GA	LEESBURG		
640	NEW	US	31-39-20 N	84-10-30 W	1.00		N	D	B	P		327.12	GA	LEESBURG	10.00	
1	1.0000	0.0000	0.0000	0.0000	59.8											
2	2.0000	125.0000	90.0000	225.0000	121.8											

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
640	830523	US	41-59-34 N	93-41-27 W	1.00	N	D	B	P		305.07	IA	AMES	10.00	
1	1.0000		0.0000	0.0000	0.0000	134.0									
2	0.8500		93.0000	85.0000	267.0000	85.3									
640	WOI	US	41-59-20 N	93-41-12 W	5.00	D	N	B	O	134.2	676.54	IA	AMES		
640	WOI	US	41-59-34 N	93-41-27 W	5.00	D	N	B	P	85.3	676.54	IA	AMES		
640	WOI	US	41-59-34 N	93-41-27 W	1.00	N	D	B	P		307.93	IA	AMES	10.00	
1	1.0000		0.0000	0.0000	0.0000	134.0									
2	0.8200		94.0000	80.0000	252.0000	85.3									
640	KTIB	US	29-45-35 N	90-49-26 W	5.00	D	D	B	P		629.99	LA	THIBODAUX	22.36	
1	1.0000		0.0000	0.0000	0.0000	67.9									
2	0.7000		-22.0000	158.0000	275.0000					T A = 67.9 B = 15.0 C = 0.0 D = 0.0					
640	KTIB	US	29-45-35 N	90-49-26 W	1.00	N	D	B	P		301.00	LA	THIBODAUX	10.00	
1	0.7000		101.0000	0.0000	0.0000	67.9									
2	1.0000		0.0000	90.0000	135.0000	67.9									
640	WLDM	US	42-10-43 N	72-45- 9 W	50.00	D	D	B	P		2165.37	MA	WESTFIELD	73.00	
1	1.1800		118.8000	0.0000	0.0000	70.0									
2	1.0000		0.0000	70.0000	300.0000	70.0									
3	0.2500		250.5999	70.0000	120.0000	70.0									
640	WLDM	US	42-10-43 N	72-45- 9 W	1.00	N	D	B	P		301.59	MA	WESTFIELD	10.00	
1	1.0000		0.0000	0.0000	0.0000	70.0									
2	0.8000		111.1000	70.0000	60.0000	70.0									

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
640	NEW	US	41-57-41 N	86-21- 2 W	0.50	D	N	B	P	89.7	216.22		MI BERRIAN SPRINGS		
640	NEW	US	41-57-41 N	86-21- 2 W	0.25	N	N	B	P	89.7	152.89		MI BERRIAN SPRINGS		
640	NEW	US	44-35-24 N	85-30-45 W	10.00	D	D	B	P		915.36		MI KINGSLEY	31.62	7
1	1.0000	0.0000	0.0000	0.0000	80.0										
2	0.6800	41.5000	150.0000	170.0000	80.0										
640	NEW	US	44-35-24 N	85-30-45 W	1.00	N	D	B	P		316.08		MI KINGSLEY	14.09	8
1	0.7600	-135.0000	0.0000	0.0000	80.0										
2	1.0000	0.0000	75.0000	170.0000	80.0										
3	0.4200	157.0000	150.0000	170.0000	80.0										
640	NEW	US	42-47-31 N	86- 1-12 W	1.00	D	N	B	P	94.4	308.19		MI ZEELAND		
640	NEW	US	42-47-31 N	86- 1-12 W	0.25	N	N	B	P	94.4	154.09		MI ZEELAND		
640	KGVW	US	45-46-15 N	111-13-26 W	10.00	D	D	B	P		976.10	MT	BELGRADE	31.62	
1	1.0000	0.0000	0.0000	0.0000	79.6										
2	2.0000	109.0000	105.0000	132.5000	79.6										
640	KGVW	US	45-46-15 N	111-13-26 W	1.00	N	D	B	P		311.73	MT	BELGRADE	10.00	
1	1.0000	0.0000	0.0000	0.0000	79.6										
2	2.0500	98.0000	105.0000	206.0000	79.6										
3	1.1000	191.9999	210.0000	206.0000	79.6										
640	WFNC	US	35- 4-46 N	78-55-58 W	10.00	D	D	B	P		1001.17	NC	FAYETTEVILLE	31.62	
1	1.0000	0.0000	0.0000	0.0000	111.0										
2	0.5000	-106.0000	87.6000	285.0000	61.0										

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
640	WFNC	US	35- 4-46 N	78-55-58 W	1.00	N	N	B	P	111.0	318.65	NC	FAYETTEVILLE		
640	NEW	US	35-32-18 N	77-27-40 W	10.00	D	D	B	P		983.02	NC	WINTERVILLE	70.71*	
1	1.0000		0.0000	0.0000	0.0000		70.2								
2	2.1230		-110.3000	90.0000	355.0000		70.2								
3	1.0880		148.0000	180.0000	355.0000		70.2								
640	NEW	US	35-32-18 N	77-27-40 W	1.00	N	D	B	P		313.65	NC	WINTERVILLE	32.21*	
1	1.0000		0.0000	0.0000	0.0000		70.2								
2	0.9980		130.3000	90.0000	355.0000		70.2								
3	0.2690		-98.2000	180.0000	355.0000		70.2								
640	NEW	US	40- 5-28 N	74-50-30 W	5.00	D	D	B	P		710.98	NJ	MOUNT HOLLY	29.28	
1	1.0000		0.0000	0.0000	0.0000		70.0								
2	1.6520		135.5700	90.0000	320.0000		70.0								
3	1.0610		295.0000	180.0000	320.0000		70.0								
640	NEW	US	40- 5-28 N	74-50-30 W	1.00	N	D	B	P		288.67	NJ	MOUNT HOLLY	22.11	
1	1.0000		0.0000	0.0000	0.0000		70.0								
2	2.5250		175.7000	90.0000	320.0000		70.0								
3	2.7820		341.0600	180.0000	320.0000		70.0								
4	1.5190		141.0000	270.0000	320.0000		70.0								
640	WCGR	US	42-52-58 N	77-14-55 W	0.25	D	D	B	P		143.39	NY	CANANDAIGUA	10.00	9
1	1.0000		0.0000	0.0000	0.0000		60.0								
2	1.6640		-107.7200	51.5640	41.7220		60.0								
3	0.8740		12.9050	220.2540	61.9650		60.0								
4	1.3940		46.3920	86.9530	114.2450		60.0								

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	70.2	
2	2.1230	-110.3000	90.0000	355.0000	70.2	
3	1.0880	148.0000	180.0000	355.0000	70.2	
1	1.0000	0.0000	0.0000	0.0000	70.2	
2	0.9980	130.3000	90.0000	355.0000	70.2	
3	0.2690	-98.2000	180.0000	355.0000	70.2	
1	1.0000	0.0000	0.0000	0.0000	70.0	
2	1.6520	135.5700	90.0000	320.0000	70.0	
3	1.0610	295.0000	180.0000	320.0000	70.0	
1	1.0000	0.0000	0.0000	0.0000	70.0	
2	2.5250	175.7000	90.0000	320.0000	70.0	
3	2.7820	341.0600	180.0000	320.0000	70.0	
4	1.5190	141.0000	270.0000	320.0000	70.0	
1	1.0000	0.0000	0.0000	0.0000	60.0	
2	1.6640	-107.7200	51.5640	41.7220	60.0	
3	0.8740	12.9050	220.2540	61.9650	60.0	
4	1.3940	46.3920	86.9530	114.2450	60.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
640	WCGR	US	42-52-58 N	77-14-55 W	1.00	N	D	B	P		306.10	NY	CANANDAIGUA	10.00	10
	1	1.0000	0.0000	0.0000	0.0000	60.0									
	2	7.0300	34.9600	86.9500	114.2400	60.0									
	3	7.0300	151.9700	51.5600	41.7200	60.0									
640	NEW	US	42-43-42 N	73-48-18 W	10.00	D	D	B	P		912.22	NY	COHOES	31.62	
	1	1.0000	0.0000	0.0000	0.0000	50.0									
	2	0.6700	101.3000	92.8200	316.6200	50.0									
640	NEW	US	42-43-42 N	73-48-18 W	1.00	N	D	B	P		290.97	NY	COHOES	10.00	
	1	1.0000	0.0000	0.0000	0.0000	50.0									
	2	1.4090	155.2500	92.8240	316.6240	50.0									
	3	1.0980	43.3130	129.4000	233.1900	50.0									
640	NEW	US	42-38-15 N	73-41-23 W	5.00	D	N	B	P	89.0	680.14	NY	EAST GREENBUSH		
640	NEW	US	42-38-15 N	73-41-23 W	1.00	N	D	B	P		296.12	NY	EAST GREENBUSH	10.00	
	1	1.0000	0.0000	0.0000	0.0000	89.0									
	2	1.0000	36.0000	125.0000	61.0000	89.0									
640	WHAZ	US	42-38-25 N	73-41-25 W	5.00	D	N	B	P	89.0	680.14	NY	EAST GREENBUSH		
640	WHAZ	US	42-38-25 N	73-41-25 W	1.00	N	D	B	P		296.12	NY	EAST GREENBUSH	10.00	
	1	1.0000	0.0000	0.0000	0.0000	89.0									
	2	1.0000	36.0000	125.0000	61.0000	89.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
640	821005	US	41- 4-47 N	81-38-45 W	5.00	D	D	B	P		682.36	OH	AKRON	22.36	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	62.3	
2	1.1500	112.1000	90.0000	339.0000	81.2	

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
640	WHLO	US	41- 4-47 N	81-38-45 W	10.00	D	D	B	P		955.95	OH	AKRON	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	62.3	
2	1.1600	95.4000	90.0000	339.0000	81.2	

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
640	WHLO-A	US	41- 4-47 N	81-38-45 W	0.50	N	D	B	P		215.01	OH	AKRON	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	61.3	
2	1.6500	97.8000	90.0000	339.0000	81.2	

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
640	WHLO-C	US	41- 4-47 N	81-38-45 W	0.50	N	D	B	P		214.04	OH	AKRON	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	61.3	
2	1.6500	97.8000	90.0000	339.0000	81.2	

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
640	WHLO-L	US	41- 4-47 N	81-38-45 W	1.00	U	D	B	D		297.73	OH	AKRON	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	63.5	
2	1.6500	97.8000	90.0000	339.0000	82.4	

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	3.0	47.0	111.0	6	250.0	45.0	319.9
2	26.5	47.0	159.9	7	270.0	40.0	250.7
3	50.0	47.0	256.9	8	290.0	40.0	173.6
4	65.0	30.0	309.3	9	315.0	48.0	111.0
5	77.5	20.0	344.4	10	339.0	48.0	115.9

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
640	WWLS	US	35-17-21 N	97-30- 8 W	1.00	D	N	B	P	90.0	305.78	OK	MOORE		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
640	WWLS	US	35-17-21 N	97-30- 8 W	1.00	N	D	B	P		326.70	OK	MOORE	10.16	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.8900	-89.4000	100.0000	92.0000	90.0									
	3	0.5400	180.0000	100.0000	2.0000	90.0									
	4	0.4800	90.6000	141.4000	47.0000	90.0									
640	WWLS	US	35-17-26 N	97-30- 6 W	1.00	D	N	B	O	93.7	307.38	OK	NORMAN		
640	NEW	US	36-30-44 N	82-22-38 W	10.00	D	D	B	P		952.09	TN	BLOUNTVILLE	31.62	
	1	1.0000	0.0000	0.0000	0.0000					T A = 59.7 B = 20.3 C = 0.0 D = 0.0					
	2	0.6640	45.0000	80.0000	120.0000					T A = 59.7 B = 20.3 C = 0.0 D = 0.0					
640	NEW	US	36-30-34 N	82-22-36 W	10.00	D	D	B	P		952.12	TN	BLOUNTVILLE	32.90*	
	1	1.0000	0.0000	0.0000	0.0000					T A = 59.7 B = 20.3 C = 0.0 D = 0.0					
	2	0.8840	45.0000	80.0000	120.0000					T A = 59.7 B = 20.3 C = 0.0 D = 0.0					
640	USBL-1	US	36-30-44 N	82-22-38 W	1.00	N	D	B	P		309.48	TN	BLOUNTVILLE	10.00	
	1	1.0000	0.0000	0.0000	0.0000					T A = 59.7 B = 20.3 C = 0.0 D = 0.0					
	2	0.4730	-126.0000	80.0000	120.0000					T A = 59.7 B = 20.3 C = 0.0 D = 0.0					
640	USBL-2	US	36-30-34 N	82-22-36 W	1.00	N	D	B	P		309.48	TN	BLOUNTVILLE	10.00	
	1	1.0000	0.0000	0.0000	0.0000					T A = 59.7 B = 20.3 C = 0.0 D = 0.0					
	2	0.4730	-128.0000	80.0000	120.0000					T A = 59.7 B = 20.3 C = 0.0 D = 0.0					
640	WMSO	US	35- 1-28 N	89-42-21 W	1.00	D	N	B	P		281.64	TN	COLLIERVILLE		
										T A = 64.4 B = 35.1 C = 0.0 D = 0.0					

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
640	WMSO	US	34-59-20 N	89-41-10 W	10.00	D	N	B	P	90.0	966.95	TN	COLLIERVILLE		
640	WMSO	US	34-59-20 N	89-41- 9 W	0.25	N	D	B	P		143.51	TN	COLLIERVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.7500		22.5000	170.0000	88.0000	90.0									
640	WMSO	US	34-59-24 N	89-41- 4 W	0.25	N	D	B	P		157.97	TN	COLLIERVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000	70.3									
2	0.6500		180.0000	90.0000	5.0000	70.3									
640	WMBG	US	37-16-37 N	76-45- 7 W	0.50	U	N	B	P	92.3	217.35	VA	WILLIAMSBURG		
640	WJJQ	US	45-29-27 N	89-43-33 W	10.00	D	D	C	P		916.60	WI	TOMAHAWK	39.92	11
1	1.0000		0.0000	0.0000	0.0000	70.4									
2	0.6000		-170.0000	60.0000	332.0000	53.0									
640	WJJQ	US	45-29-27 N	89-43-33 W	1.00	N	D	C	P		281.23	WI	TOMAHAWK	13.64	
1	1.0000		0.0000	0.0000	0.0000	70.4									
2	0.8000		170.0000	60.0000	332.0000	53.0									
650	CISL	CA	49- 5-15 N	122-54-20 W	10.00	D	D	B	P		986.53	BC	VANCOUVER	31.62	
1	1.0000		0.0000	0.0000	0.0000	66.0									
2	1.1100		243.5000	90.0000	340.0000	66.0									
3	0.3500		135.0000	180.0000	340.0000	66.0									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) ET PR / RMS (MV/M) ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	CISL	CA	49- 5-15 N	122-54-20 W	7.50	N D B P		849.73	BC VANCOUVER	27.39	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	66.0	
2	0.9299	242.8000	90.0000	340.0000	66.0	
3	0.2400	135.0000	180.0000	340.0000	66.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) ET PR / RMS (MV/M) ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	NEW	CA	45-52- 0 N	66-39- 0 W	10.00	D N B P	80.0	949.49	NB FREDERICTION		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) ET PR / RMS (MV/M) ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	NEW	CA	45-52- 0 N	66-39- 0 W	2.50	N D B P		484.99	NB FREDERICTON	16.17	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	1.0000	265.3601	90.0000	85.0000	80.0	DOES NOT AGREE W/425
3	1.0000	139.3100	115.7020	135.0000	80.0	
4	1.0000	233.9500	90.0000	185.0000	80.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) ET PR / RMS (MV/M) ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	NEW	CA	48-57-37 N	54-39-41 W	10.00	D N B P	60.0	917.33	NF GANDER		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) ET PR / RMS (MV/M) ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	NEW	CA	48-57-37 N	54-39-41 W	5.00	N D B P		623.78	NF GANDER	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	60.0	
2	0.8000	-112.0000	80.1400	105.0000	60.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) ET PR / RMS (MV/M) ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	NEW	CA	45-20- 0 N	73-45- 0 W	10.00	D N B P	80.0	960.79	QU MONTREAL		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) ET PR / RMS (MV/M) ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	NEW	CA	45-20- 0 N	73-45- 0 W	2.50	N D B P		450.60	QU MONTREAL	15.81	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	1.9900	110.9000	90.0000	230.0000	80.0	
3	1.0000	221.5000	180.0000	230.0000	80.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	831219	CA	48- 5- 0 N	79- 1- 0 W	1.00	N	D	B	P		321.80	QU	ROUYN-NORANDA	10.00	
	1	1.0000	0.0000	0.0000	0.0000		80.0								
	2	1.9700	240.0000	90.0000	28.0000		80.0								
	3	1.0000	120.0000	180.0000	28.0000		80.0								
650	NEW	CA	48- 5- 0 N	79- 1- 0 W	10.00	D	N	B	P	80.0	949.49	QU	ROUYN-NORANDA		
650	883121	CA	50- 6- 0 N	66-18- 0 W	5.00	N	D	B	P		670.02	QU	SEPT-ILES	22.36	
	1	1.0000	0.0000	0.0000	0.0000		80.0								
	2	1.0000	268.4600	90.0000	41.0000		80.0								
	3	0.9500	99.3600	166.8920	19.0000		80.0								
	4	0.9500	190.9000	90.0000	357.0000		80.0								
650	NEW	CA	50- 6- 0 N	66-18- 0 W	10.00	D	N	B	P	80.0	949.49	QU	SEPT-ILES		
650	NEW	CA	52- 5- 0 N	106-20- 0 W	10.00	D	D	B	P		997.79	SA	SASKATOON	33.22	
	1	1.0000	0.0000	0.0000	0.0000		80.0								
	2	1.4500	229.7000	90.0000	35.0000		80.0								
	3	0.6400	99.4000	180.0000	35.0000		80.0								
650	NEW	CA	52- 5- 0 N	106-20- 0 W	10.00	N	D	B	P		964.30	SA	SASKATOON	31.62	
	1	1.0000	0.0000	0.0000	0.0000		80.0								
	2	1.9000	126.5000	90.0000	179.0000		80.0								
	3	1.0000	252.9000	180.0000	179.0000		80.0								

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	1.9700	240.0000	90.0000	28.0000	80.0	
3	1.0000	120.0000	180.0000	28.0000	80.0	
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	1.0000	268.4600	90.0000	41.0000	80.0	
3	0.9500	99.3600	166.8920	19.0000	80.0	
4	0.9500	190.9000	90.0000	357.0000	80.0	
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	1.4500	229.7000	90.0000	35.0000	80.0	
3	0.6400	99.4000	180.0000	35.0000	80.0	
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	1.9000	126.5000	90.0000	179.0000	80.0	
3	1.0000	252.9000	180.0000	179.0000	80.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	KYAK	US	61- 9-58 N	149-49-34 W	50.00	D	D	B	0	2063.18	AK	ANCHORAGE	102.27	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	-172.0000	0.0000	0.0000	94.0	
2	0.8500	0.0000	60.0000	180.0000	66.6	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	96.0	10.0	703.2	7	256.0	10.0	741.4
2	101.0	10.0	804.7	8	261.0	10.0	692.0
3	110.0	18.0	828.8	9	266.0	10.0	708.1
4	110.0	10.0	1005.6	10	271.0	10.0	844.9
5	250.0	12.0	844.9	11	276.0	10.0	1033.4
6	250.0	10.0	965.6				

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	KYAK-C	US	61- 9-58 N	149-49-34 W	50.00	U	N	A	P 94.0	2179.23	AK	ANCHORAGE		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	KYAK-L	US	61- 9-58 N	149-49-34 W	25.00	N	D	B	0	1448.41	AK	ANCHORAGE	65.71	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	66.6	
2	1.0000	-155.0000	60.0000	0.0000	94.0	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	95.0	10.0	708.1	8	240.0	10.0	305.8
2	100.0	10.0	515.0	9	245.0	10.0	280.8
3	110.0	10.0	241.4	10	250.0	10.0	305.8
4	115.0	10.0	233.4	11	258.0	16.0	482.8
5	120.0	10.0	241.4	12	266.0	10.0	772.5
6	125.0	10.0	386.2	13	271.0	10.0	923.1
7	235.0	10.0	402.3				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
650	NEW	US	36- 7- 0 N	111-15- 0 W	1.00	N	D	B	P		360.49	AZ	TUBA CITY	13.33	
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.7000		137.0000	100.0000	18.0000	90.0									
3	2.7000		-77.0000	200.0000	18.0000	90.0									
4	1.0000		60.0000	300.0000	18.0000	90.0									
650	NEW	US	38-29- 2 N	121-16-17 W	25.00	D	D	B	P		1569.35	CA	RANCHO CORDOVA	50.00	
1	1.0000		0.0000	0.0000	0.0000	90.4									
2	0.7000		111.7000	85.1000	133.3000	90.4									
650	NEW	US	38-29- 2 N	121-16-17 W	5.00	N	D	B	P		749.44	CA	RANCHO CORDOVA	26.79	
1	1.6000		0.0000	0.0000	0.0000	90.4									
2	1.2300		-157.9000	101.9000	338.3000	90.4									
3	0.6200		131.0000	85.1000	133.3000	90.4									
650	KORL	US	21-17-28 N	157-50-20 W	10.00	U	N	B	O	95.2	936.41	HI	HONOLULU		
650	KLIX	US	42-33- 9 N	114-22- 1 W	50.00	D	N	B	P	90.0	2162.16	ID	TWIN FALLS		
650	KLIX	US	42-33- 9 N	114-22- 1 W	25.00	N	D	B	P		1606.32	ID	TWIN FALLS	54.54	13
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.5900		116.0000	65.0000	88.0000	90.0									
3	0.6100		231.9998	130.0000	88.0000	90.0									
650	NEW	US	42-24-14 N	71-44- 6 W	10.00	D	D	B	P		1038.03	MA	CLINTON	47.07	
1	1.0000		0.0000	0.0000	0.0000	80.9									
2	0.9000		163.4000	90.0000	250.0000	80.9									
3	0.3600		-164.1000	90.0000	70.0000	80.9									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	830609	US	42-24-14 N	71-44- 6 W	1.00		N	D	B	P		321.37	MA	CLINTON-1	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.1570	-45.0600	0.0000	0.0000	60.0	
2	0.3500	-150.7600	90.0000	70.0000	60.0	
3	0.1990	102.3300	180.0000	70.0000	60.0	
4	0.4480	105.7000	130.0000	327.0000	80.9	
5	1.0000	0.0000	140.4900	5.6000	80.9	
6	0.5690	-106.9200	196.9100	30.0000	60.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	NEW	US	42-24-14 N	71-44- 6 W	10.00		D	D	B	P		1038.03	MA	HUDSON/CLINTON	47.07	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.9	
2	0.9000	163.4000	90.0000	250.0000	80.9	
3	0.3600	-164.1000	90.0000	70.0000	80.9	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	NEW	US	42-24-14 N	71-44- 6 W	1.00	N	D	B	P		316.72	MA	HUDSON/CLINTON	10.00	14

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.9	
2	0.6100	106.2999	90.0000	250.0000	80.9	
3	0.4200	-106.3000	90.0000	70.0000	80.9	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	WKKQ	US	47-22-26 N	93- 0-38 W	10.00		D	N	B	P	79.9	946.54	MN	NASHWAUK		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	WKKQ	US	47-22-26 N	93- 0-38 W	1.00		N	D	B	P		319.63	MN	NASHWAUK	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	2.8570	-100.5200	100.0000	336.0000	80.0	
3	2.8570	-201.4800	200.0000	336.0000	80.0	
4	1.0000	-302.0000	300.0000	336.0000	80.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	NEW	US	38- 4-12 N	117-13-42 W	25.00		D	N	B	P	70.9	1464.50	NV	TONOPAH		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
650	NEW	US	38- 4-12 N	117-13-42 W	10.00	N	D	B	P		954.32	NV	TONOPAH	31.62	
	1.0000		0.0000	0.0000	0.0000		70.0								
	0.9360		113.1000	70.0000	85.0000		70.0								
650	NEW	US	44-56-44 N	73-25-48 W	50.00	D	N	B	P	90.0	2162.16	NY	CHAMPLAIN		15
650	NEW	US	44-56-44 N	73-25-48 W	1.00	N	D	B	P		323.00	NY	CHAMPLAIN	10.00	16
	1.0000		0.0000	0.0000	0.0000		90.0								
	1.9690		-112.0500	90.0000	50.0000		90.0								
	1.0000		-224.1000	180.0000	50.0000		90.0								
650	NEW	US	45- 8-30 N	122-51-12 W	1.00	D	N	B	P	90.0	305.78	OR	WOODBURN		
650	WSM	US	35-59-50 N	86-47-32 W	50.00	U	N	A	O	190.3	2799.43	TN	NASHVILLE		
650	KIKK	US	29-41-18 N	95-10-29 W	0.25	D	N	B	O	71.4	146.45	TX	PASADENA		
660	NEW	CA	50-45-27 N	114- 3-42 W	50.00	D	D	B	P		2016.51	AB	CALGARY	70.71	
	1.2000		0.0000	0.0000	0.0000		90.0								
	1.0000		-87.0000	90.0000	4.0000		90.0								
	0.9000		-85.0000	205.0000	326.0000		90.0								
660	NEW	CA	50-45-27 N	114- 3-42 W	50.00	N	D	B	P		2082.49	AB	CALGARY	70.71	
	1.0000		0.0000	0.0000	0.0000		90.0								
	1.7300		-126.5000	90.0000	4.0000		90.0								
	0.7700		108.0000	180.0000	6.0000		90.0								
	0.7700		-67.0000	205.0000	326.0000		90.0								
	1.3000		175.0000	281.3999	337.3999		90.0								
	0.7000		53.0000	364.1001	343.7000		90.0								

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
650	NEW	38- 4-12 N 117-13-42 W	10.00	N D B P		954.32 NV TONOPAH 31.62
1	1.0000	0.0000	0.0000	0.0000	70.0	
2	0.9360	113.1000	70.0000	85.0000	70.0	
650	NEW	44-56-44 N 73-25-48 W	50.00	D N B P	90.0	2162.16 NY CHAMPLAIN 15
650	NEW	44-56-44 N 73-25-48 W	1.00	N D B P		323.00 NY CHAMPLAIN 10.00 16
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.9690	-112.0500	90.0000	50.0000	90.0	
3	1.0000	-224.1000	180.0000	50.0000	90.0	
650	NEW	45- 8-30 N 122-51-12 W	1.00	D N B P	90.0	305.78 OR WOODBURN
650	WSM	35-59-50 N 86-47-32 W	50.00	U N A O	190.3	2799.43 TN NASHVILLE
650	KIKK	29-41-18 N 95-10-29 W	0.25	D N B O	71.4	146.45 TX PASADENA
660	NEW	50-45-27 N 114- 3-42 W	50.00	D D B P		2016.51 AB CALGARY 70.71
1	1.2000	0.0000	0.0000	0.0000	90.0	
2	1.0000	-87.0000	90.0000	4.0000	90.0	
3	0.9000	-85.0000	205.0000	326.0000	90.0	
660	NEW	50-45-27 N 114- 3-42 W	50.00	N D B P		2082.49 AB CALGARY 70.71
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.7300	-126.5000	90.0000	4.0000	90.0	
3	0.7700	108.0000	180.0000	6.0000	90.0	
4	0.7700	-67.0000	205.0000	326.0000	90.0	
5	1.3000	175.0000	281.3999	337.3999	90.0	
6	0.7000	53.0000	364.1001	343.7000	90.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
660	NEW	CA	50-40- 0 N	120-19- 0 W	10.00	D	N	B	P	80.0	949.49	BC	KAMLOOPS		
660	NEW	CA	50-40- 0 N	120-19- 0 W	1.00	N	D	B	P		315.99	BC	KAMLOOPS	10.00	
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	1.0000		229.9000	90.0000	327.8301	80.0									
660	NEW	CA	49-45-53 N	94-26-40 W	1.00	D	N	C	P	70.0	294.51	ON	KENORA		
660	NEW	CA	49-45-53 N	94-26-40 W	0.50	N	D	B	P		206.00	ON	KENORA	10.00	18
1	1.0000		0.0000	0.0000	0.0000	70.0									
2	1.0000		-93.1000	90.0000	310.0000	59.1									
660	KFAR	US	64-52- 9 N	147-49-20 W	10.00	U	N	A	D	72.5	931.32	AK	FAIRBANKS		
660	WMOO	US	30-35-51 N	87-52-57 W	50.00	D	N	B	P	60.0	2014.22	AL	FAIRHOPE		
660	WMOO	US	30-35-51 N	87-52-57 W	1.00	N	D	B	P		289.12	AL	FAIRHOPE	11.30	
1	1.0000		0.0000	0.0000	0.0000	60.0									
2	1.9860		-122.7000	60.0000	222.0000	60.0									
3	1.0000		114.6000	120.0000	222.0000	60.0									
660	KFLR	US	33-26- 9 N	112- 6-35 W	1.00	U	N	B	P	114.0	320.26	AZ	PHOENIX		
660	NEW	US	35-53-54 N	109- 9-20 W	50.00	D	N	B	P	79.7	2105.26	AZ	WINDOW ROCK		
660	NEW	US	35-53-54 N	109- 9-20 W	50.00	N	D	B	P		2169.40	AZ	WINDOW ROCK	70.71	17
1	1.0000		0.0000	0.0000	0.0000	79.7									
2	1.0000		102.3000	85.0000	86.0000	79.7									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
660	NEW	US	34-38-58 N	120- 3- 0 W	10.00	D	D	B	P		957.30	CA	SANTA YNEZ	31.62	
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1	1.0000	0.0000	0.0000	0.0000	72.0										
2	0.6000	-102.0000	90.0000	350.0000	72.0										
660	NEW	US	34-38-58 N	120- 3- 0 W	1.00	N	D	B	P		302.89	CA	SANTA YNEZ	10.00	
1	1.0000	0.0000	0.0000	0.0000	72.0										
2	0.7200	-102.0000	90.0000	279.0000	72.0										
660	KWSR	US	39-32-56 N	107-46-10 W	10.00	D	N	B	P	82.1	951.68	CO	RIFLE		
660	KWSR	US	39-32-56 N	107-46-10 W	0.25	N	N	B	P	82.1	140.82	CO	RIFLE		
660	WWLF	US	27-51-24 N	82-37-26 W	10.00	D	D	B	P		1038.27	FL	KENNETH CITY	37.13	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.8000	-125.0000	75.0000	19.0000	90.0										
3	0.8100	70.0000	180.5000	19.0000	90.0										
660	WWLF	US	27-51-24 N	82-37-26 W	2.50	N	D	B	P		507.01	FL	KENNETH CITY	15.81	
1	0.5000	-105.0000	0.0000	0.0000	90.0										
2	1.0000	0.0000	75.0000	19.0000	90.0										
3	0.5000	105.0000	150.0000	19.0000	90.0										
660	WMIC	US	43-23-34 N	82-49-57 W	1.00	D	D	B	P		315.48	MI	SANDUSKY	10.37	
1	1.0000	0.0000	0.0000	0.0000	79.7										
2	0.6200	144.0000	84.6500	175.0000	79.7										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
660	WJON	US	45-35-38 N	94- 8-22 W	10.00		D	D	B	P	945.20	MN	SAUK RAPIDS	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	70.0	
2	0.7800	90.0000	90.0000	195.0000	70.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
660	WJON	US	45-35-38 N	94- 8-22 W	0.25		N	D	B	P	140.80	MN	SAUK RAPIDS	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.5000	-117.5000	66.0000	276.0000	70.0	
2	1.0000	0.0000	0.0000	0.0000	70.0	
3	0.5000	117.5000	66.0000	96.0000	70.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
660	WVAL	US	45-36-18 N	94- 8-21 W	10.00		D	D	B	P	948.37	MN	SAUK RAPIDS	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	70.0	
2	0.7800	90.0000	90.0000	195.0000	70.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
660	WVAL	US	45-36-18 N	94- 8-21 W	0.25		N	D	B	P	140.82	MN	SAUK RAPIDS	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.5000	-117.5000	0.0000	0.0000	70.0	
2	1.0000	0.0000	66.0000	96.0000	70.0	
3	0.5000	117.5000	132.0000	96.0000	70.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
660	NEW	US	32-28-12 N	90- 9-37 W	10.00		C	D	B	P	992.97	MS	RIDGELAND	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	72.5	
2	3.4820	-122.0000	140.0000	53.0000	72.5	
3	3.0530	113.3000	224.7000	48.0000	72.5	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
660	NEW	US	32-28-12 N	90- 9-37 W	50.00		D	D	B	P	2121.12	MS	RIDGELAND	70.71	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	72.5	
2	3.8750	-97.7000	140.0000	53.0000	72.5	
3	4.0260	128.7000	224.7000	48.0000	72.5	
4	1.6590	81.4000	421.3000	42.7000	72.5	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
660	NEW	US	32-28-12 N	90- 9-37 W	1.00	N	D	B	P	311.41	MS		RIDGELAND	10.00	
1	1.0000		0.0000	0.0000	0.0000	72.5									
2	1.5000		111.3000	70.0000	53.0000	72.5									
3	0.5600		222.7000	140.0000	53.0000	72.5									
660	NEW	US	46-49-37 N	96-49-34 W	10.00	D	D	B	P	964.24	ND		WEST FARGO	28.46*	19
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.9500		112.0300	75.0000	192.5000	70.0									
660	NEW	US	46-49-37 N	96-49-34 W	1.00	N	D	B	P	301.82	ND		WEST FARGO	14.44	20
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.4290		148.5600	90.0000	167.0000	90.0									
3	2.1860		-62.9900	180.0000	167.0000	90.0									
4	0.7290		85.5800	270.0000	167.0000	90.0									
660	820804	US	48- 5- 3 N	103-37-54 W	5.00	N	D	B	P	668.99	ND		WILLISTON	39.83*	
1	1.0000		0.0000	0.0000	0.0000	77.2									
2	0.8000		4.0000	176.0000	113.0000	77.2									
3	0.6800		-128.0000	138.7000	86.9000	77.2									
4	0.8500		-132.0000	80.0000	333.0000	77.2									
660	830225	US	48- 5- 4 N	103-37-54 W	5.00	N	D	B	P	635.59	ND		WILLISTON	25.53	21
1	1.0000		0.0000	0.0000	0.0000	77.2									
2	0.9200		-3.0000	176.0000	113.0000	77.2									
3	0.8280		-135.0000	125.7100	88.8500	77.2									
4	0.9000		-132.0000	80.0000	333.0000	77.2									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
660	KEYZ	US	48- 4-11 N	103-37-22 W	5.00		D	D	B	P		648.50	ND	WILLISTON	20.34*	
	1	1.0000		0.0000	0.0000	0.0000		92.0								
	2	0.7500		-11.0000	165.0000	296.0000		92.0								
	3	0.4400		-111.0000	103.5000	266.9000		92.0								
	4	0.5800		-100.0000	90.0000	150.0000		92.0								
660	KEYZ	US	48- 4-11 N	103-37-22 W	5.00		N	D	B	P		655.20	ND	WILLISTON	24.25	22
	1	1.0000		0.0000	0.0000	0.0000		92.0								
	2	0.8600		5.0000	165.0000	296.0000		92.0								
	3	0.7500		132.0000	103.5000	266.9000		92.0								
	4	0.8700		127.0000	90.0000	150.0000		92.0								
660	NEW	US	48- 5- 4 N	103-37-54 W	5.00		D	D	B	P		631.06	ND	WILLISTON	23.19	
	1	1.0000		0.0000	0.0000	0.0000		77.2								
	2	0.7800		12.0000	176.0000	113.0000		77.2								
	3	0.4680		132.0000	125.7000	88.9000		77.2								
	4	0.6000		120.0000	80.0000	333.0000		77.2								
660	NEW	US	48- 5- 4 N	103-37-54 W	5.00		N	D	B	P		636.53	ND	WILLISTON	24.75	
	1	1.0000		0.0000	0.0000	0.0000		77.2								
	2	0.8000		4.0000	176.0000	113.0000		77.2								
	3	0.8500		-132.0000	80.0000	333.0000		77.2								
	4	0.6800		-128.0000	125.7147	88.8551		77.2								
660	KCRO	US	41-18-47 N	96- 0-36 W	1.00		D	N	B	O	119.6	325.09	NE	OMAHA		
660	WNBC	US	40-51-35 N	73-47- 9 W	50.00		U	N	A	O		2685.63	NY	NEW YORK		

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
T	A = 125.9	B = 29.5	C = 0.0	D = 0.0		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
660	WXIC	US	39- 7-50 N	83- 0-46 W	1.00	D	N	B	P	89.4	286.46	OH	WAVERLY		
660	830523	US	45-33-41 N	122-18- 8 W	10.00	N	D	B	P		1066.83	OR	PORTLAND	33.84	
1	1.0000	0.0000	0.0000	0.0000	79.7										
2	4.0000	120.0000	90.0000	100.0000	79.7										
3	6.0000	240.0000	180.0000	100.0000	79.7										
4	4.0000	0.0000	270.0000	100.0000	79.7										
5	1.6500	120.0000	360.0000	100.0000	79.7										
660	NEW	US	45-28-27 N	122-39-33 W	50.00	D	N	B	P	58.0	2014.22	OR	PORTLAND		
660	NEW	US	45-28-27 N	122-39-33 W	1.00	N	N	B	P	58.0	284.85	OR	PORTLAND		
660	WPLW	US	40-25-40 N	80- 5- 9 W	1.00	D	N	B	P		282.01	PA	CARNEGIE		
						T A = 116.3 B = 58.2 C = 0.0 D = 0.0									
660	WESC	US	34-53-10 N	82-28- 3 W	10.00	C	D	B	O		951.12	SC	GREENVILLE	31.62	
1	1.0000	0.0000	0.0000	0.0000	72.5										
2	1.0000	94.0000	90.0000	42.0000	72.5										

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	25.0	24.0	62.8	8	192.0	60.0	1495.2
2	37.0	10.0	77.2	9	222.0	60.0	1526.6
3	42.0	10.0	78.9	10	252.0	60.0	1509.5
4	58.0	32.0	62.8	11	282.0	50.0	1379.0
5	112.0	50.0	706.1	12	307.0	50.0	1118.2
6	137.0	50.0	1118.2	13	332.0	50.0	706.5
7	162.0	50.0	1391.8				

660	WESC	US	34-53-10 N	82-28- 3 W	10.00	D	N	B	O	145.0	1084.00	SC	GREENVILLE		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
660	KSKY	US	32-45- 2 N	96-41-41 W	10.00	D	N	B	P		966.95	TX	BALCH SPRINGS		
						T A = 72.4 B = 17.5 C = 0.0 D = 0.0									
660	KSKY	US	32-45- 2 N	96-41-41 W	1.00	N	D	B	P		305.78	TX	BALCH SPRINGS	13.67*	
1	1.0000	0.0000	0.0000	0.0000		T A = 72.4 B = 17.5 C = 0.0 D = 0.0									
2	1.5750	-147.0000	90.0000	175.0000		T A = 72.4 B = 17.5 C = 0.0 D = 0.0									
3	0.7220	-294.0000	180.0000	175.0000		T A = 72.4 B = 17.5 C = 0.0 D = 0.0									
660	KSKY	US	32-45- 2 N	96-41-41 W	10.00	D	N	B	O	72.5	931.32	TX	DALLAS		
660	KMO	US	47-18-15 N	122-23-47 W	50.00	D	N	B	P	120.8	2241.82	WA	FIFE		
660	KMO	US	47-18-15 N	122-23-47 W	1.00	N	N	B	P	120.8	324.93	WA	FIFE		
660	KAPS	US	48-26-19 N	122-20-39 W	10.00	D	N	B	P	24.1	900.79	WA	MOUNT VERNON		
660	KAPS	US	48-26-19 N	122-20-39 W	1.00	N	N	B	P	24.1	284.85	WA	MOUNT VERNON		
670	CHYQ	CA	48-24-10 N	53-55- 0 W	10.00	D	D	A	O		925.37	NF	MUSGRAVETOWN	31.62	
1	1.0000	0.0000	0.0000	0.0000	65.0										
2	0.3000	-47.0000	135.0000	80.0000	65.0										
670	CHYQ	CA	48-24-10 N	53-55- 0 W	10.00	N	D	A	O		925.37	NF	MUSGRAVETOWN	31.62	
1	1.0000	0.0000	0.0000	0.0000	65.0										
2	0.9392	-47.0000	135.0000	80.0000	65.0										
670	NEW	CA	47-25- 0 N	70-25- 0 W	10.00	D	N	B	P	90.0	949.49	QU	BAIE COMEAU		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
670	NEW	CA	47-25- 0 N	70-25- 0 W	2.50		N	D	B	P		507.51	QU	BAIE-COMEAU	17.55	
1	1.0000	0.0000	0.0000	0.0000	90.0											
2	1.0000	202.5000	90.0000	333.0000	90.0											
3	1.0000	102.5000	142.8000	10.5000	90.0											
4	1.0000	260.0000	90.0000	48.0000	90.0											
670	KDLG	US	59- 2-43 N	158-27- 7 W	5.00		D	N	B	O	85.8	680.14	AK	DILLINGHAM		
670	KDLG	US	59- 2-43 N	158-27- 7 W	5.00		N	N	A	P	85.8	680.14	AK	DILLINGHAM		
670	NEW	US	34-16-27 N	118-41-36 W	1.00		U	D	B	P		311.39	CA	SIMI VALLEY	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0											
2	0.8000	-100.0000	90.0000	200.0000	90.0											
670	KCIN	US	34-32-15 N	117-18-42 W	1.00		D	N	B	P	70.6	292.90	CA	VICTORVILLE		
670	KCIN	US	34-32-15 N	117-18-42 W	1.00		N	D	B	P		305.52	CA	VICTORVILLE	10.00	
1	1.0000	0.0000	0.0000	0.0000	70.0											
2	0.8300	-122.0000	85.0000	200.0000	70.0											
670	NEW	US	39-49-27 N	104-44-52 W	5.00		D	N	B	P	88.2	683.73	CO	COMMERCE CITY		
670	NEW	US	39-49-27 N	104-44-52 W	1.00		N	D	B	P		313.61	CO	COMMERCE CITY	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0											
2	1.7800	107.4000	90.0000	78.0000	90.0											
3	0.8100	-145.2000	180.0000	78.0000	90.0											
4	0.9000	57.8000	190.0000	345.0000	90.0											
5	1.6000	165.2000	205.9000	10.8760	90.0											
6	0.7300	-87.4000	254.8000	29.8690	90.0											

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
670	NEW	US	25-51-10 N	80-28-48 W	50.00	D	D	B	P		2006.85	FL	MIAMI	70.71	
1	1.0000	0.0000	0.0000	0.0000	88.2										
2	0.9300	-46.0000	180.0000	129.0000	88.2										
3	1.1100	84.0000	179.0000	328.0000	88.2										
670	NEW	US	25-51-10 N	80-28-48 W	2.50	N	D	B	P		457.38	FL	MIAMI	17.38	
1	1.0000	0.0000	0.0000	0.0000	88.2										
2	1.8700	-123.0000	90.0000	129.0000	88.2										
3	0.9400	125.5000	180.0000	129.0000	88.2										
4	1.2500	17.1000	179.0000	328.0000	88.2										
5	2.3400	-105.9000	98.3687	-14.6702	88.2										
6	1.1800	142.6000	59.2603	49.4536	88.2										
670	NEW	US	26-16-14 N	80-17-37 W	1.00	U	D	B	P		281.64	FL	TAMARAC	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.0000	97.0000	90.0000	340.0000	90.0										
670	KPUA	US	19-47- 2 N	155- 5-25 W	10.00	U	N	B	P	90.7	941.50	HI	HILO		
670	NEW	US	20- 1-19 N	155-36-19 W	10.00	U	N	B	P	90.7	966.95	HI	WAIMEA		
670	KBOI	US	43-25-44 N	116-19-43 W	50.00	D	N	B	D	90.0	2162.16	ID	BOISE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.	DEG	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT	DEG	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

670	KBOI		US	43-25-44 N	116-19-43 W	50.00	N	D	B	O			2113.23	ID	BOISE	38.33*
1	0.7460	-56.8000	0.0000	0.0000	90.0											
2	1.0000	0.0000	127.0000	85.0000	90.0											
3	0.2500	-87.2000	217.0000	85.0000	90.0											
4	0.5090	-30.4000	344.0000	85.0000	90.0											

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	63.5	10.0	59.5	7	95.8	10.0	45.1
2	68.5	10.0	51.5	8	101.0	10.0	49.9
3	74.8	12.5	45.1	9	106.0	10.0	55.5
4	80.4	10.0	43.5	10	110.0	10.0	75.6
5	85.0	10.0	41.8	11	207.5	15.0	2092.1
6	89.6	10.0	43.5	12	219.0	10.0	1673.7

670	WMAQ		US	41-56- 1 N	88- 4-23 W	50.00	U	N	A	O	181.5	.	2679.94	IL	CHICAGO	
670	NEW		US	32-19- 0 N	106-47- 0 W	1.00	N	D	B	P			360.49	NM	LAS CRUCES	13.05
1	1.0000	0.0000	0.0000	0.0000	90.0											
2	2.6810	139.7000	100.0000	10.0000	90.0											
3	2.6810	-79.7000	200.0000	10.0000	90.0											
4	1.0000	60.0000	300.0000	10.0000	90.0											
690	CBU		CA	49- 8-15 N	123-12- 0 W	50.00	U	D	B	O			2043.87	BC	VANCOUVER	70.71
1	1.0000	0.0000	0.0000	0.0000	60.0											
2	0.5570	325.5999	175.0000	290.0000	60.0											
3	0.4520	218.7999	285.0000	260.0000	60.0											
4	0.2500	184.9998	445.2360	271.3340	60.0											

FREQ KHZ	INDICA D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL S	N	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	APPORT HAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
690		CA	47-31- 0 N	52-43-26 W	10.00	D	D	B	P		962.39	NF	ST. JOHN'S	31.62	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.5000		180.0000	90.0000	290.0000		90.0								
69	JEW	CA	47-31- 0 N	52-43-26 W	2.50	N	D	B	P		485.70	NF	ST. JOHN'S	15.81	
	1.0000		0.0000	0.0000	0.0000		90.0								
	2.0000		97.7000	90.0000	290.0000		90.0								
	1.0000		192.0000	180.0000	290.0000		90.0								
)	CBF	CA	45-25-42 N	73-26-58 W	50.00	N	N	A	O		2575.02	QU	MONTREAL		
										SO A = 90.0 B = 0.0 C = 80.2 D = 0.0					
690	CBF-1	CA	45-25-42 N	73-26-58 W	50.00	D	N	A	O		2896.91	QU	MONTREAL		
										SO A = 90.0 B = 0.0 C = 80.2 D = 0.0					
690	CBKF-1	CA	49-52-16 N	106-28-19 W	5.00	D	N	B	O	73.2	658.54	SA	GRAVELBOURG		
690	CBKF-1	CA	49-52-16 N	106-28-19 W	5.00	N	D	B	O		643.74	SA	GRAVELBOURG	31.36	
1	1.0000		0.0000	0.0000	0.0000		73.2								
2	0.8948		93.0000	90.0000	80.5000		73.2								
3	1.0527		116.0000	90.0000	230.0000		73.2								
4	1.0527		206.0000	47.0000	155.5000		73.2								
690	WVOK	US	33-26-56 N	86-55-18 W	50.00	D	N	B	O	136.4	2389.75	AL	BIRMINGHAM		
690	WVOK	US	33-26-56 N	86-55-18 W	50.00	D	N	B	P	136.4	2389.75	AL	MIDFIELD		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
690	WVOK	US	33-27- 4 N	87- 4-40 W	10.00	N	D	B	P		890.61	AL	MIDFIELD	31.62	
1	1.0000		0.0000	0.0000	0.0000	88.3									
2	1.0000		-99.0000	90.0000	90.5000	88.3									
3	3.0000		0.0000	208.0000	0.5000	88.3									
4	3.0000		-99.0000	226.6400	23.8980	88.3									
5	3.0000		0.0000	416.0000	0.5000	88.3									
6	3.0000		-99.0000	425.6200	12.7080	88.3									
7	1.0000		0.0000	624.0000	0.5000	88.3									
8	1.0000		-99.0000	630.4600	8.7070	88.3									
690	KBBA	US	34-31-57 N	92-34-16 W	0.25	D	N	B	P	71.5	140.82	AR	BENTON		
690	KBBA	US	34-35-38 N	92-33-10 W	0.25	D	N	B	D	70.7	140.82	AR	BENTON		
690	KBBA	US	34-31-57 N	92-34-16 W	0.25	N	N	B	P	71.0	146.45	AR	BENTON		
690	KZKZ	US	35-12- 2 N	111-36-50 W	1.00	D	D	B	D		289.68	AZ	FLAGSTAFF	10.00	
1	1.0000		0.0000	0.0000	0.0000	70.0									
2	1.4000		85.0000	114.0000	180.0000	70.0									

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	45.0	426.3	9	180.0	10.0	103.0
2	22.5	45.0	434.2	10	210.0	60.0	77.2
3	45.0	45.0	439.2	11	240.0	60.0	160.9
4	67.5	45.0	410.1	12	270.0	45.0	326.5
5	90.0	45.0	328.0	13	292.5	45.0	409.6
6	120.0	60.0	159.3	14	315.0	45.0	439.2
7	150.0	60.0	77.2	15	337.5	45.0	434.2
8	180.0	60.0	102.5				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEE(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

690 KZKZ US 35-12- 2 N 111-36-50 W 0.50 N D B O 209.21 AZ FLAGSTAFF 10.00

1	1.0000	0.0000	0.0000	0.0000	70.0
2	1.0000	-66.0000	228.0000	0.0000	70.0

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	45.0	93.3	11	150.0	30.0	245.3
2	22.5	45.0	128.7	12	165.0	30.0	284.4
3	45.0	28.0	254.9	13	180.0	30.0	290.5
4	59.0	28.0	320.9	14	180.0	10.0	305.4
5	73.0	17.0	353.2	15	241.0	58.0	31.7
6	81.5	17.0	339.5	16	241.0	10.0	32.2
7	90.0	17.0	302.4	17	300.5	29.0	329.2
8	105.0	30.0	174.3	18	315.0	29.0	257.0
9	120.0	30.0	77.7	19	337.5	45.0	135.2
10	135.0	30.0	179.5				

690 KVOI US 32-15-11 N 110-57-44 W 0.25 D N B O 71.5 140.82 AZ TUCSON

690 KRMX US 38-17-48 N 104-38-47 W 0.25 D N B O 70.7 147.25 CO PUEBLO

690 WADS US 41-20-48 N 73- 6-56 W 1.00 D D B P 281.64 CT ANSONIA 10.00

1	1.0000	0.0000	0.0000	0.0000	70.0
2	0.7500	100.0000	90.0000	340.0000	70.0

690 WADS US 41-20-48 N 73- 6-56 W 0.50 D D B O 199.56 CT ANSONIA 10.00

1	1.0000	0.0000	0.0000	0.0000	70.0
2	1.0000	120.0000	90.0000	340.0000	70.0

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	28.0	64.0	25.7	3	205.0	30.0	302.6
2	28.0	10.0	27.4	4	270.0	60.0	106.2

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

690	WADS	US	41-20-48 N	73- 6-56 W	0.25		N	D	B	P		176.83	CT	ANSONIA	10.00
1	0.3640		-125.5000	0.0000	0.0000		90.0								
2	1.0000		0.0000	90.0000	340.0000		90.0								
3	1.0000		126.0000	180.0000	340.0000		90.0								
4	0.3640		-108.5000	270.0000	340.0000		90.0								
690	WAPE	US	30- 7-52 N	81-41-55 W	50.00		D	N	B	O	125.5	2332.85	FL	JACKSONVILLE	
690	WAPE	US	30-18-27 N	81-56-28 W	10.00		N	D	B	O		939.86	FL	JACKSONVILLE	20.00*
1	1.0000		54.5000	0.0000	0.0000		83.3								
2	1.9660		52.0000	198.0000	176.5000		83.3								
3	1.0000		49.5000	396.0000	176.5000		83.3								
4	1.0000		-54.5000	404.0000	165.0788		83.3								
5	1.9666		-52.0000	213.5509	154.4993		83.3								
6	1.0000		-49.5000	80.0000	86.5000		83.3								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	6.0	18.0	61.2	13	220.0	20.0	99.8
2	15.0	10.0	46.7	14	231.0	14.0	103.0
3	20.0	10.0	59.5	15	238.0	14.0	115.2
4	25.0	10.0	62.8	16	245.0	14.0	80.5
5	30.0	10.0	82.1	17	267.0	36.0	160.9
6	35.0	10.0	144.8	18	285.0	34.0	74.0
7	146.0	10.0	45.1	19	302.0	32.0	122.3
8	165.0	20.0	29.0	20	318.0	32.0	93.3
9	175.0	20.0	32.2	21	335.0	22.0	46.7
10	190.0	20.0	29.0	22	346.0	22.0	57.9
11	200.0	20.0	32.2	23	357.0	18.0	66.0
12	210.0	20.0	57.9				

690	KKUA	US	21-17-41 N	157-51-49 W	10.00		U	N	B	P	68.2	931.32	HI	HONOLULU	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	KKUA	US	21-17-41 N	157-51-49 W	10.00	U	N	B	O	68.2	926.23	HI	HONOLULU		
690	KBLI	US	43-10- 7 N	112-22-10 W	1.00	D	N	B	O		305.78	ID	BLACKFOOT		
										T A = 76.3 B = 0.0 C = 0.0 D = 0.0					
690	KBLI	US	43-10- 7 N	112-22-10 W	0.50	N	D	B	P		217.26	ID	BLACKFOOT	10.00	26

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGREES) / PHASING (DEGREES)	ESPACEMENT (DEGREES) / SPACING (DEGREES)	ORIENTATION (DEGREES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.7500	308.6000	200.0000	70.0000	90.0	

690	WLOI	US	41-37-55 N	86-45-43 W	0.25	N	N	B	P	54.0	140.82	IN	LAPORTE		
690	KGGF	US	37- 8-58 N	95-28-27 W	10.00	D	D	B	O		986.53	KS	COFFEYVILLE	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGREES) / PHASING (DEGREES)	ESPACEMENT (DEGREES) / SPACING (DEGREES)	ORIENTATION (DEGREES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	110.0000	0.0000	0.0000	88.5	
2	0.7000	0.0000	80.0000	205.0000	88.5	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	6.8	10.0	305.8	2	55.0	10.0	289.7

690	KGGF	US	37- 8-58 N	95-28-27 W	5.00	N	D	B	P		672.71	KS	COFFEYVILLE	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGREES) / PHASING (DEGREES)	ESPACEMENT (DEGREES) / SPACING (DEGREES)	ORIENTATION (DEGREES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.0000	95.0000	80.0000	25.0000	90.0	
3	0.6500	125.0000	360.0000	342.0000	90.0	
4	0.6500	-140.0000	422.0497	-10.5724	90.0	

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	KGGF-L	US	37- 8-58 N	95-28-27 W	5.00		N	D	B	O	629.90	KS	COFFEYVILLE	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	88.5	
2	1.0000	104.0000	80.0000	25.0000	88.5	
3	0.6500	125.0000	360.0000	342.0000	88.5	
4	0.6500	228.9999	422.0497	-10.5724	88.5	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	6.8	28.0	64.4	13	191.0	58.0	379.8
2	18.4	23.2	70.8	14	191.0	10.0	444.0
3	30.0	23.2	82.1	15	242.0	20.0	1319.7
4	42.5	25.0	78.9	16	262.0	10.0	423.5
5	55.0	22.0	64.4	17	275.0	26.0	931.8
6	61.0	10.0	57.9	18	287.0	24.0	1139.1
7	90.0	58.0	622.8	19	305.0	36.0	792.3
8	113.0	14.0	588.2	20	315.0	20.0	519.8
9	120.0	60.0	427.8	21	325.0	20.0	321.9
10	129.0	14.0	313.8	22	335.0	20.0	188.3
11	136.0	10.0	397.7	23	359.0	14.0	67.6
12	162.0	52.0	782.9				

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	WTIX	US	29-57-53 N	89-57-31 W	10.00		D	D	B	O	941.47	LA	NEW ORLEANS	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.4700	102.0000	138.0000	176.0000	90.0	
3	0.3300	-77.0000	138.0000	356.0000	90.0	
4	0.6800	36.0000	276.0000	-4.0000	90.0	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	52.0	10.0	838.2	6	206.5	21.0	305.8
2	93.0	10.0	1118.7	7	217.0	20.0	398.6
3	115.0	10.0	674.8	8	237.0	18.0	681.0
4	155.5	25.0	261.0	9	300.0	18.0	871.7
5	186.0	10.0	297.7				

FREQ KHZ | INDICATIF D'APPEL | PY | LATITUDE | LONGITUDE | PUIS. (KW) | HRES | DIR | CL | S | HAUTEUR ELECT.(DEG) | RMS (MV/M) | ET PR | VILLE | FACTEUR Q (MV/M) | NOTES

FREQ KHZ | CALL SIGN | CT | LATITUDE | LONGITUDE | POWER (KW) | HRS | DIR | CL | S | ELECT. HT(DEG) | RMS (MV/M) | ST PR | CITY | Q-FACTOR (MV/M) | NOTES

NO. DE TOUR | RAPPORT CHAMPS | PHASE (DEGRES) | ESPACEMENT (DEGRES) | ORIENTATION (DEGRES) | HAUT. ELECT. (DEGRES) | DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)

TOWER NUMBER | FIELD RATIO | PHASING (DEGREES) | SPACING (DEGREES) | ORIENTATION (DEGREES) | ELECT. HT. (DEGREES) | TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

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690 WTIX US 29-57-53 N 89-57-31 W 5.00 N D B 0 635.69 LA NEW ORLEANS 22.36

1	0.7200	-37.0000	0.0000	0.0000	90.0
2	0.9900	29.0000	-138.0000	356.0000	90.0
3	1.0000	0.0000	276.0000	356.0000	90.0
4	0.9300	37.0000	414.0000	356.0000	90.0

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	9.0	26.0	148.1	10	259.0	10.0	1363.1
2	22.0	15.0	93.3	11	264.0	10.0	1311.6
3	29.5	15.0	112.7	12	276.0	10.0	989.7
4	37.0	11.0	169.0	13	281.0	10.0	819.2
5	42.5	11.0	204.4	14	300.0	10.0	295.7
6	135.0	10.0	88.5	15	318.0	24.0	141.6
7	217.0	40.0	65.3	16	330.0	24.0	96.6
8	217.0	10.0	88.5	17	343.0	26.0	148.1
9	249.0	20.0	1223.1	18	356.0	26.0	177.0

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690 KTCR US 45- 1-25 N 93-22-58 W 0.50 D D B 0 223.70 MN MINNEAPOLIS 10.62*

1	1.0000	0.0000	0.0000	0.0000						T	A =	75.8	B =	14.2	C = 0.0 D = 0.0
2	1.6700	-151.5000	100.0000	105.0000						T	A =	75.8	B =	14.2	C = 0.0 D = 0.0
3	0.8100	57.0000	200.0000	105.0000						T	A =	75.8	B =	14.2	C = 0.0 D = 0.0

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	10.0	20.0	22.5	6	240.0	60.0	80.5
2	65.0	66.0	375.8	7	285.0	90.0	200.0
3	105.0	66.0	492.7	8	315.0	60.0	141.6
4	155.0	80.0	309.4	9	345.0	30.0	27.4
5	200.0	20.0	22.5				

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690 KSTL US 38-37- 1 N 90-10-17 W 1.00 D N B D 89.1 305.78 MO SAINT LOUIS

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	KSTL	US	38-37- 1 N	90-10-17 W	5.00	N	N	B	P	88.0	683.73	MO	ST. LOUIS		
690	KEYR	US	41-50- 2 N	103-39-20 W	1.00	D	D	B	O		289.68	NE	TERRYTOWN	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	70.7	
2	1.7000	50.0000	150.0000	220.0000	70.7	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	5.0	70.0	353.7	8	170.0	40.0	173.8
2	40.0	40.0	301.2	9	190.0	40.0	117.5
3	60.0	40.0	326.7	10	220.0	60.0	140.0
4	80.0	40.0	383.9	11	250.0	50.0	119.1
5	100.0	40.0	436.2	12	275.0	50.0	201.2
6	120.0	40.0	447.5	13	300.0	50.0	350.2
7	150.0	40.0	295.8				

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	KEYR	US	41-50- 2 N	103-39-20 W	1.00	N	D	B	P		289.68	NE	TERRYTOWN	10.00	27.28

1	1.0000	0.0000	0.0000	0.0000	71.0		
2	1.5500	50.0000	150.0000	220.0000	71.0		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	KRCO	US	44-20-30 N	120-54-18 W	1.00	D	N	B	O	75.8	284.85	OR	PRINEVILLE		
690	KRCO	US	44-20-28 N	120-54-24 W	0.25	N	N	B	P	75.8	142.43	OR	PRINEVILLE		25
690	WXUR	US	39-55- 1 N	75-30-49 W	0.50	D	N	B	O	112.0	1.14	PA	MEDIA		
690	WYIS	US	40- 8- 8 N	75-33-37 W	1.00	D	D	B	O		285.34	PA	PHOENIXVILLE	10.00	

1	1.0000.	0.0000	0.0000	0.0000	T, A = 90.9 B = 18.9 C = 0.0 D = 0.0	
2	0.7500	-13.0000	190.0000	206.0000	T A = 90.9 B = 18.9 C = 0.0 D = 0.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	KUSD	US	42-47-53 N	96-55-39 W	1.00	D	D	B	O		289.68	SD	VERMILLION	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	71.0	
2	0.7000	6.0000	185.0000	184.0000	71.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	164.0	10.0	91.7
2	330.0	40.0	167.4

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
3	330.0	10.0	177.0

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	KHEY	US	31-58-11 N	106-21-15 W	10.00	D	D	B	O		914.11	TX	EL PASO	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	88.4	
2	0.3000	214.2000	100.0000	200.0000	88.4	
3	0.5000	15.5000	190.0000	110.0000	88.4	
4	0.3000	98.7000	214.7091	137.7585	88.4	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	80.0	10.0	128.7

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
2	310.0	12.0	402.3

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
690	KHEY	US	31-58-11 N 106-21-15 W	10.00	N D B O	850.70 TX EL PASO 31.62
1	0.8500	-86.0000	0.0000	0.0000	88.4	
2	1.0000	0.0000	100.0000	20.0000	88.4	
3	0.9000	0.0000	214.7091	82.2415	88.4	
4	0.7650	-86.0000	190.0000	110.0000	88.4	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	20.0	50.0	226.9	12	235.0	70.0	1290.7
2	45.0	50.0	165.8	13	267.0	12.0	160.9
3	65.0	40.0	202.8	14	272.0	10.0	130.4
4	80.0	30.0	144.8	15	280.0	16.0	169.0
5	90.0	20.0	99.8	16	288.0	16.0	183.5
6	101.0	22.0	143.2	17	299.0	22.0	144.8
7	112.0	18.0	185.1	18	310.0	22.0	99.8
8	120.0	16.0	169.0	19	322.5	25.0	160.9
9	128.0	16.0	132.0	20	335.0	25.0	204.4
10	165.0	60.0	1345.9	21	355.0	40.0	167.4
11	200.0	70.0	2188.7				

690	KPET	US	32-42-27 N 101-56-11 W	0.25	U	N	B	O	70.7	141.62 TX LAMESA			
690	KZEY	US	32-22-52 N 95-20-52 W	1.00	D	D	B	O		292.90 TX TYLER			10.00
1	1.0000	0.0000	0.0000	0.0000	70.6								
2	0.9000	102.0000	90.0000	315.0000	70.6								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	10.0	64.4	5	315.0	30.0	54.7
2	285.0	30.0	30.6	6	330.0	30.0	46.7
3	285.0	10.0	35.4	7	345.0	15.0	31.4
4	300.0	30.0	46.7	8	352.5	15.0	40.2

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	WZAP	US	36-37-51 N	82- 9-53 W	10.00	D N B	0 70.7	926.23	VA	BRISTOL		
690	WZAP	US	36-37-51 N	82- 9-53 W	2.50	N D B	P	501.83	VA	BRISTOL	16.01	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	75.8	
2	1.0000	46.6000	155.0000	12.0000	75.8	
3	1.0000	140.0000	80.0000	311.0000	75.8	
4	1.0000	186.6000	206.0000	352.1400	75.8	

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	WNNT	US	37-56-39 N	76-45- 5 W	0.25	D N B	0 71.7	140.82	VA	WARSAW		
690	WAGO	US	44- 4-51 N	88-33-53 W	0.50	D D B	0	152.08	WI	OSHKOSH	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	3.1000	0.0000	0.0000	90.0	
2	0.5250	148.5000	70.0000	15.0000	90.0	
3	0.4750	-148.5000	70.0000	195.0000	90.0	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	1.3	27.4	61.9	7	93.0	46.0	32.2
2	15.0	27.4	67.4	8	297.5	45.0	35.2
3	28.8	27.4	58.5	9	320.0	37.6	26.7
4	42.5	27.4	42.2	10	338.8	17.3	30.6
5	56.3	27.4	29.1	11	347.5	17.3	43.4
6	70.0	27.4	25.7				

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	WAGO	US	44- 4-51 N	88-33-53 W	1.00	N D B	P	338.28	WI	OSHKOSH	15.43	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.9760	-132.5000	60.0000	240.0000	90.0	
3	1.0000	-265.0000	120.0000	240.0000	90.0	

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
690	WELD	US	39- 3- 6 N	79- 0-16 W	0.50	D N B	0 70.7	201.42	WV	FISHER		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
690	WELD	US	39- 3- 6 N	79- 0-16 W	1.00	N	D	B	P	341.18	WV	FISHER		10.04	
1	1.0000		116.9200	0.0000	0.0000	90.0									
2	1.9400		0.0000	90.0000	160.0000	90.0									
3	1.0000		-116.9200	180.0000	160.0000	90.0									
700	NEW	CA	50-55-25 N	113-49-58 W	50.00	D	D	B	P	2011.68	AB	CALGARY		70.71	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		-92.0000	90.0000	10.0000	90.0									
3	1.0000		-102.0000	171.5200	90.4600	90.0									
4	0.8000		10.0000	180.0000	120.0000	90.0									
700	NEW	CA	50-55-25 N	113-49-58 W	50.00	N	D	B	P	2172.10	AB	CALGARY		73.54	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.7759		224.6500	90.0000	10.0000	90.0									
3	1.0000		89.3000	180.0000	10.0000	90.0									
4	1.0000		105.3000	206.4900	65.0000	90.0									
5	1.7759		240.6500	171.5200	90.4600	90.0									
6	1.0000		16.0000	180.0000	120.0000	90.0									
700	830727	CA	52- 1-49 N	113-43-23 W	25.00	N	D	B	P	1423.30	AB	RED DEER		50.00	30
1	1.0000		0.0000	0.0000	0.0000	89.6									
2	1.0000		-51.2000	131.0000	293.0000	89.6									
3	0.9500		-96.1000	90.0000	36.0000	89.6									
4	0.9500		-147.2000	141.3000	331.4000	89.6									
700	830923	CA	52- 1-49 N	113-43-23 W	50.00	D	D	B	P	2108.45	AB	RED DEER		70.71	29
1	1.0000		0.0000	0.0000	0.0000	89.6									
2	0.7600		-92.0000	90.0000	303.0000	89.6									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
700	830923	CA	52- 1-49 N	113-43-23 W	25.00	N	D	B	P		1400.31	AB	RED DEER	50.00	31
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1	0.8200	120.4000	0.0000	0.0000	89.6										
2	0.8200	96.7000	159.0000	292.0000	89.6										
3	1.0000	23.7000	90.0000	40.0000	89.6										
4	1.0000	0.0000	156.6000	325.1000	89.6										
700	CKGY	CA	52- 8-56 N	113-51-30 W	50.00	D	D	B	P		1968.23	AB	RED DEER	70.71	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.7000	-22.0000	158.0000	295.0000	90.0										
700	CKGY	CA	52- 8-56 N	113-51-30 W	50.00	N	D	B	P		2159.74	AB	RED DEER	70.71	31
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.4700	125.0000	90.0000	175.0000	90.0										
3	0.6201	-103.0000	180.0000	175.0000	90.0										
4	0.9299	21.0000	158.0000	295.0000	90.0										
5	1.3601	105.0000	137.3000	260.3999	90.0										
6	0.5500	-126.0000	170.1000	228.6000	90.0										
700	NEW	CA	50-38- 0 N	120-12- 0 W	10.00	D	N	B	P	90.0	949.64	BC	KAMLOOPS		
700	NEW	CA	50-38- 0 N	120-12- 0 W	10.00	N	D	B	P		975.01	BC	KAMLOOPS	31.62	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.0000	258.5000	90.0000	308.0000	90.0										
3	1.0000	313.5000	304.3621	271.0920	90.0										
4	1.0000	55.0000	238.6000	258.0000	90.0										
700	NEW	CA	45-13- 0 N	65-56- 0 W	10.00	D	N	B	P	80.0	949.64	NB	SAINT JOHN		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) / RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO		PHASE (DEGREES) / PHASING (DEGREES)	ESPACEMENT (DEGREES) / SPACING (DEGREES)	ORIENTATION (DEGREES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGREES) / ELECT. HT. (DEGREES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
700	NEW	CA	45-13- 0 N	65-56- 0 W	1.00	N	D	B	P		312.10	NB	SAINT JOHN	10.00	
1	1.0000		0.0000	0.0000	0.0000		80.0								
2	2.0000		261.7000	90.0000	69.0000		80.0								
3	1.0000		163.4000	180.0000	69.0000		80.0								
700	NEW	CA	48-57- 0 N	57-57- 0 W	10.00	D	N	B	P	90.0	949.49	NF	CORNER BROOK		
700	NEW	CA	48-57- 0 N	57-57- 0 W	10.00	N	D	B	P		975.01	NF	CORNER BROOK	31.62	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	1.0000		267.5000	90.0000	69.0000		90.0								
700	NEW	CA	48-30- 0 N	71-45- 0 W	10.00	D	N	B	P	80.0	949.64	QU	ALMA		
700	NEW	CA	48-30- 0 N	71-45- 0 W	1.00	N	D	B	P		323.99	QU	ALMA	10.00	
1	1.0000		0.0000	0.0000	0.0000		80.0								
2	2.0000		240.4000	90.0000	40.0000		80.0								
3	1.0000		120.7000	180.0000	40.0000		80.0								
700	KBYR	US	61-11-20 N	149-54-34 W	1.00	D	N	B	O	99.2	286.46	AK	ANCHORAGE		
700	KBYR-A	US	61- 7-12 N	149-53-43 W	50.00	U	N	A	P	89.7	2162.16	AK	ANCHORAGE		
700	KBYR-C	US	61-11-20 N	149-54-34 W	1.00	N	N	B	P	99.0	281.64	AK	ANCHORAGE		
700	KBYR-L	US	61-11-20 N	149-54-34 W	0.50	N	N	B	O	99.2	202.56	AK	ANCHORAGE		
700	KVOI	US	32-27- 1 N	111- 3-39 W	10.00	D	D	B	P		1004.38	AZ	ORO VALLEY	25.73*	
1	1.0000		96.7000	0.0000	0.0000		90.0								
2	1.4500		0.5500	90.0000	150.0000		90.0								
3	0.5200		-96.7000	180.0000	150.0000		90.0								

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
700	KVOI	US	32-27- 1 N	111- 3-39 W	1.00	N	D	B	P		334.58	AZ	ORO VALLEY	23.47	
1	0.8900	242.9000	0.0000	0.0000	90.0										
2	1.9200	80.0000	90.0000	150.0000	90.0										
3	2.0200	-78.9000	180.0000	150.0000	90.0										
4	0.9400	-242.9000	270.0000	150.0000	90.0										
700	NEW	US	32-39- 0 N	114-39- 0 W	1.00	D	N	B	P	90.0	305.78	AZ	YUMA		
700	NEW	US	32-39- 0 N	114-39- 0 W	1.00	N	D	B	P		360.49	AZ	YUMA	13.05	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.6810	139.7000	100.0000	330.0000	90.0										
3	2.6810	-79.7000	200.0000	330.0000	90.0										
4	1.0000	60.0000	300.0000	330.0000	90.0										
700	NEW	US	36-48- 0 N	118-10- 0 W	5.00	D	N	B	P	90.0	683.73	CA	INDEPENDENCE		
700	NEW	US	36-48- 0 N	118-10- 0 W	1.00	N	D	B	P		360.49	CA	INDEPENDENCE	13.05	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.6810	139.7000	100.0000	30.0000	90.0										
3	2.6810	-79.7000	200.0000	30.0000	90.0										
4	1.0000	60.0000	300.0000	30.0000	90.0										
700	NEW	US	39-26-29 N	107-38-40 W	50.00	D	N	B	P	90.0	2162.16	CO	SILT		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
700	USSI-1	US	39-26-29 N	107-38-40 W	1.00	N	D	B	P		284.48	CO	SILT	10.00	
1	0.6330		-15.0000	0.0000	0.0000	90.0									
2	1.0000		0.0000	180.0000	82.5000	90.0									
3	0.4050		15.0000	360.0000	82.5000	90.0									
4	0.5060		77.0000	90.0000	172.5000	90.0									
5	0.8000		92.0000	201.2000	109.0000	90.0									
6	0.3240		106.9999	371.1000	96.5000	90.0									
700	WCAT	US	42-35- 6 N	72-16-56 W	1.00	D	N	B	P	52.3	281.64	MA	ORANGE		
700	NEW	US	45-45- 0 N	108-31- 0 W	10.00	D	N	B	P	90.0	966.95	MT	BILLINGS		
700	NEW	US	45-45- 0 N	108-31- 0 W	0.50	N	D	B	P		246.55	MT	BILLINGS	10.00	32
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.2640		195.3000	120.0000	5.0000	90.0									
3	2.2640		33.6800	240.0000	5.0000	90.0									
4	1.0000		229.0000	360.0000	5.0000	90.0									
700	NEW	US	32-46- 0 N	108-17- 0 W	2.50	D	N	B	P	90.0	483.47	NM	SILVER CITY		
700	NEW	US	32-46- 0 N	108-17- 0 W	1.00	N	D	B	P		360.49	NM	SILVER CITY	13.05	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6810		139.7000	100.0000	345.0000	90.0									
3	2.6810		-79.7000	200.0000	345.0000	90.0									
4	1.0000		60.0000	300.0000	345.0000	90.0									
700	WLW	US	39-21-11 N	84-19-30 W	50.00	U	N	A	O	189.3	2674.25	OH	CINCINNATI		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
700	KDUN	US	43-44-17 N	124- 4-30 W	10.00		D	N	B	P			907.91 OR REEDSPORT		
										T A = 51.2 B = 12.8 C = 0.0 D = 0.0					
700	KDUN	US	43-44-17 N	124- 4-30 W	0.50		N	N	B	P			203.02 OR REEDSPORT		
										T A = 51.2 B = 12.8 C = 0.0 D = 0.0					
700	NEW	US	43- 3-28 N	123-23-48 W	25.00		D	N	B	P	89.7		1528.88 OR WINSTON		
700	NEW	US	43- 6-51 N	123-25-53 W	0.50		N	N	B	P	71.7		205.41 OR WINSTON		
700	KFAM	US	40-53-31 N	111-56-30 W	10.00		D	D	B	P			970.76 UT BOUNTIFUL		31.62
1	1.0000		0.0000	0.0000	0.0000	81.9									
2	0.6000		-100.0000	80.0000	120.0000	81.9									
700	KFAM	US	40-57-19 N	111-54-12 W	1.00		N	D	B	P			295.31 UT BOUNTIFUL		10.00
1	1.0000		0.0000	0.0000	0.0000	79.4									
2	0.9000		57.8000	130.0000	75.0000	79.4									
700	KFAM	US	40-53-32 N	111-56-28 W	50.00		D	D	B	P			2144.00 UT NORTH SALT LAKE CI		78.17
1	0.5250		-123.5000	0.0000	0.0000	82.0									
2	1.0000		0.0000	159.5000	76.5000	82.0									
3	0.9900		-144.0000	143.0000	99.0000	82.0									
700	KFAM	US	40-53-32 N	111-56-28 W	1.00		N	D	B	P			292.00 UT NORTH SALT LAKE CI		10.00
1	0.8700		-89.5000	0.0000	0.0000	82.0									
2	1.0000		0.0000	159.5000	76.5000	82.0									
3	0.9350		-108.0000	143.0000	99.0000	82.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
700	NEW	US	48- 8-16 N	117- 1-37 W	10.00	D	N	B	P	71.1	931.32	WA	NEWPORT		
700	NEW	US	48- 8-16 N	117- 1-37 W	1.00	N	D	B	P		297.73	WA	NEWPORT	10.00	
1	1.0000		0.0000	0.0000	0.0000	71.1									
2	1.0000		-70.0000	81.9500	278.4000	71.1									
720	NEW	CA	49-55- 0 N	110-43- 0 W	10.00	D	D	B	P		951.12	AB	MEDICINE HAT	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.8000		-102.0000	90.0000	345.0000	90.0									
720	NEW	CA	49-55- 0 N	110-43- 0 W	5.00	N	D	B	P		624.43	AB	MEDICINE HAT	22.36	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		-106.0000	90.0000	345.0000	90.0									
3	1.0000		-5.0000	178.0000	285.0000	90.0									
4	1.0000		-111.0000	236.2000	304.3000	90.0									
720	NEW	CA	49-50-52 N	119-27-54 W	10.00	D	N	B	P	80.0	949.49	BC	KELOWNA		
720	NEW	CA	49-50-52 N	119-27-54 W	10.00	N	D	B	P		949.51	BC	KELOWNA	31.81	
1	1.0000		0.0000	80.0000	140.0000	80.0									
2	1.9800		-124.0000	0.0000	0.0000	80.0									
3	1.0000		112.0000	80.0000	325.0000	80.0									
720	831108	CA	54-19- 0 N	130-10- 0 W	5.00	N	D	B	P		620.13	BC	PRINCE RUPERT	22.36	
1	1.0000		0.0000	0.0000	0.0000	70.0									
2	0.9000		-15.0000	160.0000	305.0000	70.0									
720	NEW	CA	54-19- 0 N	130-10- 0 W	10.00	D	N	B	P	0.0	946.59	BC	PRINCE RUPERT		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
720	NEW	CA	46-14- 0 N	63-15- 0 W	10.00	D	N	B	P	90.0	949.64	PE	CHARLOTTETOWN		
720	NEW	CA	46-14- 0 N	63-15- 0 W	5.00	N	D	B	P		672.71	PE	CHARLOTTETOWN	22.36	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		267.3999	90.0000	75.0000	90.0									
720	NEW	CA	47-47- 0 N	69-40- 0 W	10.00	D	N	B	P	90.0	949.64	QU	RIVIERE DU LOUP		
720	NEW	CA	47-47- 0 N	69-40- 0 W	2.50	N	D	B	P		490.00	QU	RIVIERE DU LOUP	15.81	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.0000		263.8999	90.0000	44.0000	90.0									
3	1.0000		166.0000	180.0000	44.0000	90.0									
720	KOTZ	US	66-54- 6 N	162-33-40 W	5.00	U	N	A	O	39.5	629.76	AK	KOTZEBUE		
720	KUAI	US	21-53-53 N	159-33-17 W	5.00	U	N	B	O	69.8	629.76	HI	ELEELE		
720	WGN	US	42- 0-42 N	88- 2- 7 W	50.00	U	N	A	O	195.0	2856.32	IL	CHICAGO		
720	NEW	US	42-31-48 N	71-17-52 W	1.00	D	D	B	P		316.46	MA	BILLERICA	10.00	
1	1.0000		0.0000	0.0000	0.0000	79.1									
2	1.2750		114.0000	80.0000	132.0000	79.1									
3	0.4230		228.0000	160.0000	132.0000	79.1									
720	NEW	US	42-31-48 N	71-17-52 W	0.50	N	D	B	P		201.17	MA	BILLERICA	10.00	
1	1.0000		0.0000	0.0000	0.0000	79.1									
2	1.8950		117.2000	80.0000	273.0000	79.1									
3	0.9410		234.4999	160.0000	273.0000	79.1									

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY / US	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
720	WILD	US	42-16- 9 N	71- 9-29 W	2.50		D	D	B	P		450.62	MA BOSTON	37.93	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.3200	-162.1000	90.0000	74.0000	90.0										
3	1.1600	29.3000	180.0000	74.0000	90.0										
4	0.5710	-130.0000	270.0000	74.0000	90.0										
720	WILD	US	42-16- 9 N	71- 9-29 W	0.50		N	D	B	P		199.40	MA BOSTON	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.6600	-118.2000	90.0000	74.0000	90.0										
3	2.6600	121.6000	180.0000	74.0000	90.0										
4	1.0000	3.3900	270.0000	74.0000	90.0										
720	NEW	US	46- 0- 0 N	112-25- 0 W	10.00		D	D	B	P		966.94	MT SILVER BOW	33.18	
1	1.0000	0.0000	0.0000	0.0000	80.0										
2	0.6500	177.3000	90.0000	94.0000	80.0										
720	NEW	US	46- 0- 0 N	112-25- 0 W	0.50		N	D	B	P		225.15	MT SILVER BOW	10.00	
1	1.0000	0.0000	0.0000	0.0000	80.0										
2	0.9800	129.0000	90.0000	94.0000	80.0										
3	0.5400	-65.0000	180.0000	94.0000	80.0										
720	NEW	US	32-23- 0 N	106-23- 0 W	10.00		D	N	B	P	90.0	966.95	NM WHITE SANDS		
720	NEW	US	32-23- 0 N	106-23- 0 W	1.00		N	D	B	P		281.64	NM WHITE SANDS	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9900	99.7000	90.0000	33.0000	90.0										
3	1.0000	199.4000	180.0000	33.0000	90.0										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
720	KDWN	US	36- 4-22 N	114-58-20 W	50.00	D	N	B	O	90.0	2162.16	NV	LAS VEGAS		
720	KDWN	US	36- 4-22 N	114-58-20 W	50.00	N	D	B	O		2003.63	NV	LAS VEGAS	35.00*	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	83.5000	0.0000	0.0000	90.0	
2	1.4470	0.6000	100.0000	246.0000	90.0	
3	0.4910	-83.5000	200.0000	246.0000	90.0	

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	33.0	885.1	12	140.0	44.0	1255.3
2	18.0	36.0	362.1	13	163.0	46.0	2330.2
3	36.0	30.0	156.1	14	186.0	40.0	3170.4
4	41.0	10.0	96.6	15	206.0	40.0	3437.2
5	46.0	10.0	70.8	16	226.0	40.0	3403.4
6	51.0	30.0	66.0	17	246.0	39.0	3347.6
7	66.0	30.0	59.5	18	265.5	39.0	3412.9
8	81.0	15.0	67.6	19	285.0	39.0	3455.8
9	88.5	15.0	83.7	20	306.0	42.0	3175.2
10	96.0	15.0	148.1	21	327.0	33.0	2414.0
11	118.0	44.0	434.5	22	343.5	33.0	1625.4

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
720	NEW	US	44-55- 6 N	123-19- 0 W	1.00	D	N	B	P	90.0	305.78	OR	DALLAS		
720	NEW	US	44-55- 6 N	123-19- 0 W	1.00	N	D	B	P		319.45	OR	DALLAS	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	2.6900	104.0000	100.0000	110.0000	90.0
3	1.8770	208.0000	200.0000	110.0000	90.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
720	NEW	US	30-20-49 N	97-37-43 W	10.00	D	D	B	P		891.62	TX	AUSTIN	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	1.1429	-25.0000	160.0000	200.0000	90.0

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
720	NEW	US	30-23-38 N	97-38-10 W	5.00	D	D	B	P		714.68	TX	AUSTIN	23.15*	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000	110.7									
	2	0.8200	90.5000	89.5000	39.5000	110.7									
720	NEW	US	30-21-20 N	97-38-20 W	5.00	D	D	B	P		693.02	TX	AUSTIN	22.36	
	1	1.0000	0.0000	0.0000	0.0000	100.1									
	2	1.2800	72.0000	110.0000	31.0000	100.1									
720	NEW	US	30-20-49 N	97-37-43 W	5.00	D	D	B	P		698.46	TX	AUSTIN	22.36	
	1	1.0000	0.0000	0.0000	0.0000	100.0									
	2	0.7800	-82.0000	100.0000	211.0000	100.0									
720	USAU-1	US	30-20-49 N	97-37-43 W	1.00	N	D	B	P		321.87	TX	AUSTIN	10.00	
	1	1.0000	0.0000	0.0000	0.0000	100.0									
	2	0.4200	-97.0000	100.0000	211.0000	100.0									
	3	0.6200	97.0000	100.0000	31.0000	100.0									
720	USAU-2	US	30-21-20 N	97-38-20 W	1.00	N	D	B	P		317.80	TX	AUSTIN	10.00	
	1	1.0000	0.0000	0.0000	0.0000	100.1									
	2	2.5000	90.0000	110.0000	31.0000	100.1									
	3	1.5600	180.0000	220.0000	31.0000	100.1									
720	USAU-3	US	30-23-38 N	97-38-10 W	1.00	N	D	B	P		333.17	TX	AUSTIN	10.35*	
	1	1.0000	0.0000	0.0000	0.0000	110.7									
	2	1.9400	110.7999	89.5000	39.5000	110.7									
	3	0.9800	-135.5000	175.7000	40.1000	110.7									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S / HRS DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) ET PR / RMS (MV/M) ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
720	USAU-4	US	30-20-49 N	97-37-43 W	1.00	N D B P		313.03	TX AUSTIN	10.00	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA				
	1	1.0000	0.0000	0.0000	0.0000	90.0					
	2	1.6600	256.1400	90.0000	210.0000	90.0					
	3	0.7225	152.2700	180.0000	210.0000	90.0					
720	NEW	US	30-36-11 N	98-14-47 W	5.00	D D B P		659.56	TX MARBLE FALLS	22.36	
	1	1.0000	0.0000	0.0000	0.0000	73.7					
	2	0.8300	77.4000	150.0000	32.5000	73.7					
	3	0.1800	179.5999	300.0000	32.5000	73.7					
720	NEW	US	30-36-11 N	98-14-47 W	1.00	N D B P		285.56	TX MARBLE FALLS	10.00	
	1	1.0000	0.0000	0.0000	0.0000	73.7					
	2	1.8800	62.7900	150.0000	32.5000	73.7					
	3	0.9600	125.4800	300.0000	32.5000	73.7					
720	NEW	US	29-32- 5 N	98-14-15 W	5.00	D D B P		645.49	TX UNIVERSAL CITY	25.90	
	1	1.0000	0.0000	0.0000	0.0000	98.2					
	2	0.7000	-70.8000	86.8200	189.8300	84.1					
	3	0.9650	-172.8000	86.2500	235.8300	82.5					
	4	1.2000	-125.6000	80.9800	35.7800	79.3					
720	NEW	US	29-35-45 N	98-18-37 W	10.00	D D B P		915.89	TX UNIVERSAL CITY	31.91	
	1	1.0000	0.0000	0.0000	0.0000	79.1					
	2	0.4400	118.3000	80.0000	31.0000	79.1					
	3	0.7200	-45.9000	160.0000	31.0000	79.1					

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)									
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
720	USUN-1	US	29-35-45 N	98-18-37 W	1.00	N	D	B	P		297.70	TX	UNIVERSAL CITY	10.00	
1	1.0000	0.0000	0.0000	0.0000	79.1										
2	1.5000	106.7000	80.0000	31.0000	79.1										
3	0.5600	-146.6000	160.0000	31.0000	79.1										
720	USUN-2	US	29-32- 5 N	98-14-15 W	1.00	N	D	B	P		321.19	TX	UNIVERSAL CITY	10.00	
1	1.0000	0.0000	0.0000	0.0000	98.2										
2	0.3240	-105.6000	86.8200	189.8300	84.1										
3	0.0190	-128.2000	198.4700	219.5100	83.3										
4	0.3750	-105.8000	86.2500	235.8300	82.5										
5	0.3420	102.3000	80.9800	35.7800	79.3										
740	CBX	CA	53-19-10 N	113-26-43 W	50.00	D	D	B	O		2204.80	AB	EDMONTON	70.71	
1	1.0000	0.0000	0.0000	0.0000	86.0										
2	2.0000	239.9999	90.4000	13.0000	86.0										
740	CBX	CA	53-19-10 N	113-26-43 W	50.00	N	D	B	O		2140.43	AB	EDMONTON	70.71	
1	1.0000	0.0000	0.0000	0.0000	86.0										
2	1.1299	269.9999	90.4000	13.0000	86.0										
3	1.2200	270.9998	202.1720	76.4300	86.0										
4	1.0801	1.0000	180.8000	103.0000	86.0										
740	NEW	CA	50-43- 0 N	121-10- 0 W	10.00	D	N	B	P	80.0	949.49	BC	ASHCROFT		
740	NEW	CA	50-43- 0 N	121-10- 0 W	2.50	N	D	B	P		445.69	BC	ASHCROFT	15.81	
1	1.0000	0.0000	0.0000	0.0000	80.0										
2	1.6299	293.8999	180.0000	301.0000	80.0										
3	1.0000	227.7000	360.0000	301.0000	80.0										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
740	NEW	CA	53-16- 3 N	60-27-50 W	10.00	D	N	B	P	80.0	949.13	NF	GOOSE BAY		
740	NEW	CA	53-16- 0 N	60-28- 0 W	1.00	N	D	B	P		316.09	NF	GOOSE BAY	10.00	33
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	1.9900		261.8000	90.0000	55.0000	80.0									
3	1.0000		163.6000	180.0000	55.0000	80.0									
740	CBNM	CA	47- 8-41 N	55-16-22 W	10.00	D	N	B	O	90.0	991.37	NF	MARYSTOWN		
740	CBNM	CA	47- 8-41 N	55-16-22 W	10.00	N	D	B	O		991.36	NF	MARYSTOWN	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.9200		268.9998	90.0000	95.0000	90.0									
740	CBL	CA	43-34-30 N	79-49- 3 W	50.00	U	N	A	O	183.6	2634.42	ON	TORONTO		
740	NEW	CA	60-42- 0 N	135- 0- 0 W	1.00	D	N	B	P	50.0	257.50	YT	WHITEHORSE		
740	NEW	CA	60-42- 0 N	135- 0- 0 W	1.00	N	N	B	P	50.0	257.50	YT	WHITEHORSE		
740	WBAM	US	32-18-39 N	86-13-40 W	50.00	D	D	B	O		2776.12	AL	MONTGOMERY	71.02	
1	1.0000		-43.0000	0.0000	0.0000	124.0									
2	1.4600		43.0000	100.0000	16.0000	202.0									

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	6.0	22.0	804.7	8	60.0	13.0	1126.5
2	17.0	18.0	820.8	9	74.0	28.0	1772.8
3	26.0	18.0	804.7	10	322.5	13.0	1544.6
4	35.0	12.0	804.7	11	329.0	13.0	1309.9
5	41.0	12.0	836.9	12	342.0	26.0	965.6
6	47.0	12.0	836.9	13	355.0	22.0	804.7
7	53.5	13.0	997.8				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

740	WBAM	US	32-18-39 N	86-13-40 W	1.00		N	D	B	P		305.78	AL MONTGOMERY	10.00	
1	1.0000		0.0000	0.0000	0.0000			90.0							
2	1.2030		-62.4400	132.9800	11.9000			90.0							
3	0.8140		-71.4400	275.8500	15.8800			90.0							
4	0.9760		-123.5600	84.6900	104.0100			90.0							
740	KMEO	US	33-21-55 N	112- 6-30 W	1.00		D	D	B	O		290.81	AZ PHOENIX	10.00	
1	1.0000		0.0000	0.0000	0.0000			75.8							
2	0.8000		-54.0000	120.0000	80.0000			75.8							

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	88.0	20.0	349.2	5	250.5	19.0	60.4
2	222.0	10.0	120.9	6	260.0	19.0	57.9
3	231.5	19.0	90.3	7	270.0	20.0	60.4
4	241.0	19.0	68.4	8	280.0	20.0	67.4

740	KBRT	US	33-21-36 N	118-22-18 W	10.00		D	D	B	O		959.17	CA AVALON	31.62	
1	1.0000		0.0000	0.0000	0.0000			75.8							
2	0.8500		45.0000	90.0000	210.0000			75.8							
3	1.0000		-90.0000	90.0000	120.0000			75.8							

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	2.0	16.0	1023.9	6	240.0	20.0	177.0
2	11.0	18.0	1110.9	7	317.5	15.0	474.8
3	20.0	18.0	1171.5	8	335.0	20.0	550.4
4	155.0	80.0	1239.2	9	345.0	18.0	675.9
5	230.0	20.0	193.1	10	354.0	16.0	917.3

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
740	KBRT	US	33-21-36 N	118-22-18 W	1.00	N	D	B	P	312.79		CA	AVALON	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	76.8	
2	1.0000	98.4000	90.0000	325.0000	76.8	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
740	KCBS	US	38- 8-23 N	122-31-45 W	50.00	D	D	B	O	2333.55		CA	SAN FRANCISCO	71.70	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	135.5	
2	0.4000	-4.0000	180.0000	238.0000	135.5	
3	0.2100	-120.0000	201.2461	211.4349	135.5	
4	0.6000	-116.0000	90.0000	148.0000	135.5	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	5.0	14.0	1110.4	6	54.0	18.0	1321.6
2	12.5	15.0	965.6	7	133.5	27.0	4828.0
3	20.0	15.0	836.9	8	147.0	27.0	5471.8
4	32.5	25.0	965.6	9	170.0	46.0	4506.2
5	45.0	18.0	1164.6				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

740	KCBS	US	38- 8-23 N	122-31-45 W	50.00	N	D	B	O	2298.14	CA SAN FRANCISCO	73.38
1	0.9000	-116.0000	0.0000	0.0000	135.5							
2	1.0000	0.0000	90.0000	328.0000	135.5							
3	0.8100	-120.0000	180.0000	238.0000	135.5							
4	0.9000	-4.0000	201.2461	264.5650	135.5							

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	5.0	10.0	515.0	13	147.0	27.0	5793.6
2	13.0	10.0	602.3	14	170.0	46.0	4989.0
3	20.0	14.0	395.9	15	232.5	25.0	402.3
4	32.5	10.0	297.7	16	245.0	20.0	346.0
5	45.0	15.0	209.2	17	255.0	20.0	354.1
6	52.5	15.0	257.5	18	265.0	20.0	370.1
7	60.0	15.0	386.2	19	275.0	20.0	329.9
8	70.0	16.0	395.9	20	285.0	14.0	386.2
9	80.0	10.0	515.0	21	292.0	14.0	482.8
10	101.5	13.0	2253.1	22	305.0	11.0	965.6
11	101.5	10.0	2333.5	23	335.0	30.0	1609.3
12	133.5	27.0	5471.8				

740	KSSS	US	38-54-26 N	104-51-39 W	1.00	D	D	B	O	331.52	CO COLORADO SPRINGS	16.19
1	1.0000	0.0000	0.0000	0.0000	89.5							
2	1.8700	205.4500	90.0000	2.0000	89.5							
3	1.0400	15.0000	180.0000	2.0000	89.5							

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	62.5	29.0	216.9	5	115.0	25.0	169.0
2	77.0	13.0	159.3	6	127.5	25.0	193.1
3	90.0	13.0	173.8	7	140.0	10.0	272.0
4	102.5	25.0	177.0	8	265.0	10.0	178.6

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
740	KSSS	US	38-54-26 N	104-51-39 W	0.25		N	D	B	O		159.00	CO	COLORADO SPRINGS	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	89.5	
2	1.0160	126.1000	90.0000	2.0000	89.5	
3	0.4700	-81.0000	180.0000	2.0000	89.5	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	2.0	17.0	37.9	10	267.5	15.0	105.2
2	12.0	18.0	43.3	11	275.0	10.0	99.8
3	21.0	18.0	37.2	12	310.0	18.0	105.0
4	30.0	18.0	41.5	13	319.0	18.0	88.9
5	40.0	20.0	73.6	14	328.0	18.0	67.8
6	70.0	10.0	86.9	15	337.0	16.0	48.3
7	111.0	12.0	155.7	16	345.0	16.0	35.0
8	140.0	10.0	252.1	17	353.5	17.0	43.3
9	240.0	10.0	184.6				

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
740	KSSS	US	38-54-26 N	104-51-39 W	1.00		N	D	B	P		298.31	CO	COLORADO SPRINGS	10.00	35

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.2000	10.0000	180.0000	48.0000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
740	KVFC	US	37-20-58 N	108-32-29 W	1.00		D	N	B	O	76.6	288.07	CO	CORTEZ		

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
740	KVFC	US	37-20-58 N	108-32-29 W	0.25	N	D	B	O			144.36 CO CORTEZ	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGREES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	76.6	
2	0.7000	-140.0000	60.0000	145.0000	76.6	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	0.0	20.0	64.4	8	90.0	40.0	196.3
2	10.0	20.0	64.4	9	280.0	20.0	64.4
3	20.0	20.0	66.0	10	292.5	25.0	64.4
4	30.0	20.0	72.4	11	305.0	20.0	70.8
5	40.0	20.0	86.9	12	315.0	20.0	75.6
6	50.0	20.0	108.6	13	340.0	20.0	74.0
7	60.0	20.0	131.6	14	350.0	20.0	67.6

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
740	WSBR	US	26-20- 5 N	80-16-11 W	1.00	D	D	B	P			327.34 FL BOCA RATON	10.75	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGREES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	89.4	
2	2.6500	128.8999	90.0000	270.0000	89.4	
3	1.7900	-101.0000	180.0000	270.0000	89.4	

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
740	WSBR	US	26-20-46 N	80-12-32 W	1.00	D	D	B	O			289.68 FL BOCA RATON	10.23	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGREES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	217.7999	0.0000	0.0000	89.4	
2	1.3320	0.0000	100.2000	246.0000	89.4	
3	1.0000	-217.8000	200.4000	246.0000	89.4	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	0.0	40.0	241.4	6	216.0	16.0	35.4
2	21.0	42.0	450.6	7	275.0	10.0	35.4
3	110.0	82.0	434.5	8	280.0	10.0	35.4
4	151.0	10.0	35.4	9	340.0	10.0	35.4
5	156.0	10.0	60.4				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
740	WSBR	US	26-20- 6 N	80-15-55 W	1.00		D	D	B	P		327.34	FL BOCA RATON	10.75	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	89.4	
2	2.6500	128.8999	90.0000	270.0000	89.4	
3	1.7900	-101.0000	180.0000	270.0000	89.4	

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
740	WSBR	US	26-20- 5 N	80-16-11 W	0.50		N	D	B	P		231.58	FL BOCA RATON	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	89.4	
2	2.6500	128.8999	90.0000	270.0000	89.4	
3	1.7900	-101.0000	180.0000	270.0000	89.4	

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
740	WSBR	US	26-20- 6 N	80-15-55 W	0.50		N	D	B	P		231.58	FL BOCA RATON	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	89.4	
2	2.6500	128.8999	90.0000	270.0000	89.4	
3	1.7900	-101.0000	180.0000	270.0000	89.4	

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
740	WKIS	US	28-32-53 N	81-25-37 W	5.00		D	N	B	D	90.0	683.73	FL ORLANDO		

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
740	WKIS	US	28-33-25 N	81-33- 6 W	10.00		D	D	B	P		938.25	FL ORLANDO	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	86.7	
2	1.0500	112.0000	90.0000	280.0000	86.7	
3	2.2000	85.0000	237.7000	347.8000	86.7	
4	1.0900	-10.0000	220.0000	10.0000	86.7	

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
740	WKIS	US	28-33-25 N	81-33- 6 W	5.00		N	D	B	P		656.61	FL ORLANDO	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	86.7	
2	1.5400	90.0000	90.0000	280.0000	86.7	
3	1.3800	54.0000	237.7000	347.8000	86.7	
4	0.9000	-36.0000	220.0000	10.0000	86.7	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

740	WKIS	US	28-32-53 N	81-25-37 W	1.00		N	D	B	O		308.99	FL	ORLANDO	15.42
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.5130	170.0000	90.3000	271.0000	90.0										
3	0.5130	-179.5000	90.0000	97.0000	90.0										

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	21.2	93.3	13	195.6	17.2	28.2
2	11.2	22.4	99.8	14	213.0	34.0	115.9
3	22.5	22.6	143.2	15	230.0	34.0	265.5
4	34.0	22.0	223.2	16	252.5	45.0	427.8
5	45.0	22.0	307.7	17	275.0	45.0	478.7
6	67.5	45.0	528.1	18	297.5	25.0	416.8
7	90.0	45.0	618.5	19	310.0	20.0	323.1
8	112.5	45.0	557.9	20	320.0	20.0	241.4
9	135.0	44.0	382.8	21	330.0	20.0	165.8
10	157.0	44.0	154.4	22	340.0	18.7	119.1
11	179.1	15.8	34.6	23	349.3	18.7	91.7
12	187.0	15.8	27.4				

740	KBOE	US	41-19-15 N	92-38-44 W	0.25		D	N	B	O		73.1	146.45	IA	OSKALOOSA
740	KBOE	US	41-19-15 N	92-38-44 W	0.25		N	N	B	P		72.6	146.45	IA	OSKALOOSA
740	KYME	US	43-36-57 N	116-17- 2 W	0.50		D	N	B	O		73.1	200.28	ID	BOISE
740	KYME	US	43-36-57 N	116-17- 2 W	0.50		N	D	B	P			242.38	ID	BOISE
1	1.0000	0.0000	0.0000	0.0000	81.2										
2	1.0000	170.6560	90.2240	307.5180	81.2										
740	WVLN	US	38-42- 0 N	88- 4-49 W	0.25		D	N	B	O		91.6	154.50	IL	OLNEY

10.00 34

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
740	WNOP	US	39- 5-41 N	84-34-59 W	1.00		D	D	B	O		291.37	KY	NEWPORT	11.29	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	1.0520	96.2000	190.4000	5.6000	80.0	
3	1.6180	148.7000	63.6000	286.1000	80.0	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	24.5	29.0	59.5	5	190.0	20.0	112.7
2	49.0	48.0	152.9	6	200.0	20.0	112.7
3	170.0	20.0	128.7	7	265.5	37.0	43.5
4	180.0	20.0	112.7				

740	WCAS	US	42-24-40 N	71- 4-28 W	0.25	D	N	B	P	68.8	146.45	MA	CAMBRIDGE		
740	WCAS	US	42-23-13 N	71- 8-21 W	0.25	D	N	B	O	75.8	148.06	MA	CAMBRIDGE		
740	NEW	US	44-18-32 N	92-41-20 W	0.25	D	D	B	P		140.90	MN	ZUMBROTA	10.00	

1	1.0000	0.0000	0.0000	80.0
2	0.6500	84.5000	182.5000	80.0
3	0.8600	117.5000	211.0000	80.0
4	0.5600	201.9999	188.6199	80.0

740	WMBL	US	34-44-18 N	76-48-40 W	1.00	D	N	B	O	76.9	297.73	NC	MOREHEAD CITY		
740	WMEL	US	34-44-18 N	76-48-40 W	0.25	N	N	B	P	76.4	148.86	NC	MOREHEAD CITY		
740	WPAQ	US	36-32- 4 N	80-35-48 W	1.00	C	N	B	O	81.2	300.95	NC	MOUNT AIRY		
740	WPAQ	US	36-32- 4 N	80-35-48 W	10.00	D	N	B	O	81.3	951.68	NC	MOUNT AIRY		
740	WPAQ	US	36-32- 4 N	80-35-48 W	0.25	N	N	B	P	81.2	150.47	NC	MOUNT AIRY		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
740	KBAD	US	32-27- 2 N	104-12-47 W	1.00	D	N	B	O	75.8	297.73	NM	CARLSBAD		
740	KBAD	US	32-27- 2 N	104-12-47 W	0.25	N	N	B	O	75.8	148.86	NM	CARLSBAD		
740	NEW	US	32-23-45 N	106-43-22 W	0.25	N	N	B	P	73.1	145.65	NM	LAS CRUCES		
740	WGSM	US	40-51- 4 N	73-26-16 W	1.00	C	N	B	O		297.73	NY	HUNTINGTON		
										T A = 75.7 B = 0.0 C = 0.0 D = 0.0					
740	WGSM	US	40-51- 4 N	73-26-16 W	25.00	D	D	B	P		1702.24	NY	HUNTINGTON	63.32	*
1	1.0000		0.0000	0.0000	0.0000					T A = 54.1 B = 15.8 C = 0.0 D = 0.0					
2	2.2800		143.0000	90.0000	311.5000					T A = 75.8 B = 15.9 C = 0.0 D = 0.0					
3	2.4600		-65.0000	180.0000	310.0000					T A = 75.8 B = 15.9 C = 0.0 D = 0.0					
4	1.0000		77.0000	270.0000	306.5000					T A = 54.1 B = 15.8 C = 0.0 D = 0.0					
740	WGSM	US	40-51- 4 N	73-26-16 W	25.00	D	D	B	P		1575.55	NY	HUNTINGTON	60.29	*
1	1.0000		0.0000	0.0000	0.0000					T A = 54.1 B = 15.9 C = 0.0 D = 0.0					
2	2.2500		150.4999	90.0000	311.5000					T A = 75.8 B = 15.9 C = 0.0 D = 0.0					
3	2.3700		-57.0000	180.0000	310.0000					T A = 75.8 B = 15.9 C = 0.0 D = 0.0					
4	1.0300		85.0000	270.0000	306.5000					T A = 54.1 B = 15.9 C = 0.0 D = 0.0					

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
740	WGSM	US	40-51- 4 N	73-26-16 W	5.00		D	D	B	0			656.61 NY HUNTINGTON	29.39*	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	-158.1000	0.0000	0.0000		T A = 75.7 B = 0.0 C = 0.0 D = 0.0
2	1.6320	11.4000	90.0000	307.0000		T A = 75.7 B = 0.0 C = 0.0 D = 0.0
3	1.0000	158.0999	180.0000	-53.0000		T A = 75.7 B = 0.0 C = 0.0 D = 0.0

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	10.0	26.0	262.3	7	218.5	23.0	257.5
2	34.5	23.0	265.5	8	243.5	27.0	260.7
3	46.0	20.0	206.0	9	257.0	20.0	202.8
4	56.0	20.0	281.6	10	267.0	20.0	239.8
5	197.0	20.0	302.6	11	347.0	20.0	238.2
6	207.0	20.0	201.2	12	357.0	20.0	201.2

740	WGSM	US	40-51- 4 N	73-26-16 W	25.00		D	D	B	P			1532.00 NY HUNTINGTON	74.56	

1	1.0000	0.0000	0.0000	0.0000						T	A = 54.1	B = 15.9	C = 0.0	D = 0.0	
2	2.2800	143.0000	90.0000	311.5000						T	A = 75.8	B = 15.9	C = 0.0	D = 0.0	
3	2.4600	-65.0000	180.0000	310.0000						T	A = 75.8	B = 15.9	C = 0.0	D = 0.0	
4	1.0000	77.0000	270.0000	306.5000						T	A = 54.1	B = 15.9	C = 0.0	D = 0.0	

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	34.0	60.0	642.6	5	239.0	34.0	227.4
2	52.5	20.0	467.5	6	271.5	60.0	314.0
3	206.0	40.0	145.8	7	306.5	60.0	449.2
4	222.0	32.0	291.3	8	351.5	60.0	169.8

740	WGSM	US	40-51- 4 N	73-26-16 W	5.00		N	D	B	P			759.77 NY HUNTINGTON	22.36	36

1	1.0000	0.0000	0.0000	0.0000	70.0										
2	1.8790	115.0000	90.0000	311.5000	91.7										
3	1.0000	230.0000	180.0000	310.0000	91.7										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					

740	KRMG	US	36- 4-50 N	96-17- 9 W	50.00	D	D	B	P	2019.73		OK	TULSA	70.71	
1	1.0000		0.0000	0.0000	0.0000		74.0								
2	0.5190		-10.9000	195.0000	350.0000		74.0								
3	0.5190		-5.9000	195.0000	170.0000		74.0								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	40.0	338.0	3	320.0	40.0	338.0
2	20.0	40.0	338.0	4	340.0	40.0	338.0

740	KRMG	US	36- 4-53 N	96-17-12 W	50.00	D	D	B	O	2019.73		OK	TULSA	70.71	
1	1.0000		0.0000	0.0000	0.0000		74.0								
2	0.5190		-10.9000	195.0000	350.0000		74.0								
3	0.5190		-5.9000	195.0000	170.0000		74.0								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	25.0	10.0	338.0	2	315.0	10.0	338.0

740	KRMG	US	36- 4-50 N	96-17- 9 W	25.00	N	D	B	P	1408.18		OK	TULSA	51.07	
1	0.5540		-15.5000	0.0000	0.0000		74.0								
2	1.0000		0.0000	195.0000	350.0000		74.0								
3	0.5540		15.5000	390.0000	-10.0000		74.0								
4	0.5540		-45.7000	601.6899	7.7207		74.0								
5	1.0000		-61.2000	420.1558	15.8418		74.0								
6	0.5540		-76.7000	259.0000	35.0000		74.0								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	5.0	20.0	90.1	7	315.0	10.0	379.1
2	15.0	20.0	80.5	8	325.0	20.0	201.2
3	25.0	20.0	115.9	9	335.0	20.0	124.7
4	35.0	20.0	104.6	10	345.0	20.0	98.2
5	45.0	20.0	115.9	11	355.0	20.0	90.1
6	55.0	10.0	72.4				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

740	KRMG	US	36- 4-53 N	96-17-12 W	25.00	N	D	B	O		1408.18	OK	TULSA	51.07	
1	1.0000		61.2000	0.0000	0.0000		74.0								
2	1.8000		76.7000	195.0000	350.0000		74.0								
3	1.0000		92.2000	390.0000	-10.0000		74.0								
4	1.0000		31.0000	601.6899	7.7207		74.0								
5	1.8000		15.5000	420.1558	15.8418		74.0								
6	1.0000		0.0000	259.0000	35.0000		74.0								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	14.0	75.6	15	145.0	20.0	74.0
2	10.0	10.0	74.0	16	175.0	10.0	165.8
3	15.0	10.0	74.0	17	185.0	20.0	193.1
4	20.0	10.0	75.6	18	197.0	24.0	91.7
5	25.0	10.0	77.2	19	197.0	10.0	96.6
6	30.0	10.0	80.5	20	278.0	10.0	88.5
7	35.0	10.0	83.7	21	309.5	10.0	217.3
8	40.0	10.0	88.5	22	320.0	10.0	238.2
9	48.0	16.0	106.2	23	325.0	10.0	185.1
10	56.0	15.0	67.6	24	330.0	10.0	135.2
11	63.5	10.0	386.2	25	335.0	10.0	111.0
12	70.0	13.0	1232.8	26	340.0	10.0	96.6
13	82.0	22.0	2605.5	27	346.0	12.0	86.9
14	135.0	20.0	177.0	28	353.0	14.0	79.7

740	KBOY	US	42-18-36 N	122-48-41 W	0.25	N	N	B	P	75.8	144.84	OR	MEDFORD		
740	WVCH	US	39-52-38 N	75-24-24 W	1.00	D	N	B	O	54.2	281.64	PA	CHESTER		
740	WVCH	US	39-52-38 N	75-25-24 W	0.25	N	N	B	P	74.5	140.82	PA	CHESTER		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
740	WIAC	US	18-25-25 N	66- 8-20 W	10.00		U	D	B	O	999.40	PR	SAN JUAN	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	119.2	
2	0.7000	-91.5000	90.0000	150.0000	86.6	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	10.0	10.0	386.2	7	195.0	45.0	1449.4
2	50.0	10.0	940.2	8	217.5	45.0	1316.8
3	80.0	60.0	1296.2	9	240.0	45.0	1067.2
4	115.0	70.0	1475.3	10	262.5	45.0	749.7
5	150.0	45.0	1492.1	11	310.0	40.0	321.9
6	172.5	45.0	1487.7	12	330.0	40.0	272.5

740	WBAW	US	33-13-27 N	81-21-39 W	1.00		D	N	B	O	84.0	300.95	SC	BARNWELL	
740	WSVQ	US	36-34-32 N	83-39-37 W	0.25		D	N	B	O	78.5	148.86	TN	HARROGATE	
740	WSVQ	US	36-34-32 N	83-39-37 W	1.00		D	N	B	P	78.5	296.12	TN	HARROGATE	
740	WSVQ	US	36-34-32 N	83-39-37 W	0.25		N	N	B	P	90.0	148.86	TN	HARROGATE	
740	WIRJ	US	35-48-52 N	88-54-51 W	0.25		D	N	B	O	73.1	140.82	TN	HUMBOLDT	
740	WBGY	US	35-20-36 N	86-12- 0 W	0.25		D	N	B	O		147.25	TN	TULLAHOMA	

T A = 64.8 B = 15.0 C = 0.0 D = 0.0

740	KTRH	US	29-57-57 N	94-56-32 W	50.00		D	D	B	O	2110.83	TX	HOUSTON	70.71	

1	1.0000	0.0000	0.0000	75.0
2	3.5160	60.0000	120.0000	5.0000	75.0
3	10.0160	150.0000	217.5000	30.0000	75.0
4	2.8490	90.0000	120.0000	55.0000	75.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
740	KTRH	US	29-57-57 N	94-56-32 W	50.00	N	D	B	D				2014.68 TX HOUSTON	70.71	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	75.0	
2	1.0000	73.0000	120.0000	5.0000	75.0	
3	1.0000	192.9999	217.5000	30.0000	75.0	
4	1.0000	120.0000	120.0000	55.0000	75.0	

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	5.5	21.0	231.7	14	150.0	35.0	2407.6
2	16.0	16.0	211.6	15	172.5	45.0	3397.5
3	24.0	16.0	185.1	16	195.0	45.0	3787.7
4	32.0	10.0	154.5	17	217.5	45.0	3942.5
5	37.0	10.0	141.6	18	240.0	45.0	4016.9
6	44.0	14.0	317.0	19	270.0	50.0	3653.2
7	54.0	20.0	643.7	20	295.0	40.0	1770.3
8	67.0	26.0	985.9	21	315.0	20.0	708.1
9	83.0	32.0	1062.2	22	325.0	20.0	434.5
10	83.0	10.0	1116.9	23	335.0	20.0	286.6
11	99.0	32.0	740.3	24	345.0	20.0	255.9
12	115.0	32.0	324.3	25	355.0	20.0	242.2
13	132.5	35.0	1223.1				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
740	KCMC	US	33-26-17 N	94- 8-33 W	1.00		U	D	B	O			281.64 TX TEXARKANA	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.4900	-5.5000	0.0000	0.0000	81.2	
2	1.0000	0.0000	192.0000	0.0000	81.2	
3	0.5600	20.5000	384.0000	0.0000	81.2	

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	20.0	63.4	9	180.0	20.0	59.1
2	10.0	20.0	62.8	10	190.0	20.0	57.9
3	20.0	20.0	61.2	11	200.0	12.0	51.5
4	30.0	20.0	57.9	12	206.0	10.0	50.4
5	40.0	20.0	48.5	13	320.0	20.0	46.8
6	150.0	20.0	64.4	14	330.0	20.0	57.9
7	160.0	20.0	59.5	15	340.0	20.0	61.2
8	170.0	20.0	59.5	16	350.0	20.0	62.8

740	WPKX	US	38-44-41 N	77- 5-57 W	0.25		N	N	B	P	90.0	152.89	VA ALEXANDRIA		
740	WMBG	US	37-16-37 N	76-45- 7 W	0.50		D	N	B	O	106.7	208.25	VA WILLIAMSBURG		
740	WMBG	US	37-16-37 N	76-45- 7 W	2.50		N	D	B	P		496.43	VA WILLIAMSBURG	15.81	

1	1.0000	0.0000	0.0000	107.0
2	1.9500	51.0000	150.0000	3.0000	107.0
3	1.0000	103.0000	300.0000	3.0000	107.0

740	NEW	US	47-36- 6 N	117-22-37 W	1.00		D	N	B	P	90.0	305.78	WA DISHMAN		
740	NEW	US	47-36- 6 N	117-22-37 W	0.25		N	N	B	P	54.2	140.82	WA DISHMAN		37
740	WRPQ	US	43-27-19 N	89-45-13 W	0.25		D	N	B	O	70.4	147.25	WI BARABOO		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
740	WRPQ	US	43-27-19 N	89-45-13 W	1.00	N	D	B	P		338.28	WI	BARABOO	15.43	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	1.9760		-132.5000	60.0000	215.0000		90.0								
3	1.0000		-265.0000	120.0000	215.0000		90.0								
740	NEW	US	44-58- 4 N	92-40- 0 W	0.50	D	D	B	P		212.24	WI	HUDSON	10.00	
1	1.0000		0.0000	0.0000	0.0000		59.6								
2	0.7200		-167.0000	75.0000	267.0000		59.6								
740	WRNR	US	39-28-25 N	77-55-57 W	0.50	D	D	B	P		228.04	WV	MARTINSBURG	10.00	
1	1.0000		0.0000	0.0000	0.0000		70.0								
2	1.6340		134.4700	100.0000	60.0000		70.0								
3	1.0300		302.0000	200.0000	60.0000		70.0								
740	WRNR	US	39-28-25 N	77-55-57 W	0.50	N	D	B	P		224.50	WV	MARTINSBURG	10.00	
1	1.0000		0.0000	0.0000	0.0000		70.0								
2	1.0000		87.0000	100.0000	60.0000		70.0								
3	1.0000		92.0000	100.0000	345.0000		70.0								
4	1.0000		179.0000	158.7000	22.5000		70.0								
740	NEW	US	44-48- 0 N	106-56- 0 W	0.25	N	D	B	P		142.91	WY	SHERIDAN	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.9190		123.0800	90.0000	71.9000		90.0								
3	0.3870		-78.5000	180.0000	71.9000		90.0								
750	CBGY	CA	48-40-27 N	53-46-23 W	10.00	D	D	A	O		905.85	NF	BONAVISTA BAY	31.62	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	1.0000		0.0000	120.0000	80.0000		90.0								

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
750	CBGY	CA	48-40-27 N	53-46-23 W	10.00	N	D	A	O		922.15	NF	BONAVISTA BAY	31.62	
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.9500	298.9998	120.0000	80.0000	90.0										
750	NEW	CA	45-20- 0 N	75-45- 0 W	0.50	N	D	B	P		225.31	ON	OTTAWA	10.00	39
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9850	112.0000	90.0000	203.0000	90.0										
3	1.0000	224.0000	180.0000	203.0000	90.0										
750	NEW	CA	48-27-15 N	81-21-35 W	10.00	D	D	B	P		966.89	ON	TIMMINS	31.62	
1	1.0000	0.0000	0.0000	0.0000	82.3										
2	0.5000	-90.0000	90.0000	0.5000	82.3										
750	NEW	CA	48-27-15 N	81-21-35 W	5.00	N	D	B	P		643.74	ON	TIMMINS	16.90*	
1	1.0000	-106.0000	0.0000	0.0000	82.3										
2	1.9700	0.0000	90.0000	180.5000	82.3										
3	1.0000	106.0000	180.0000	180.5000	82.3										
750	NEW	CA	48-24- 0 N	68-38- 0 W	10.00	D	N	B	P	80.0	949.49	QU	RIMOUSKI		
750	NEW	CA	48-24- 0 N	68-38- 0 W	5.00	N	D	B	P		722.79	QU	RIMOUSKI	25.11	
1	1.0000	0.0000	0.0000	0.0000	80.0										
2	1.0000	197.8000	90.0000	336.5000	80.0										
3	1.0000	100.1000	144.2250	13.2500	80.0										
4	1.0000	262.3000	90.0000	50.0000	80.0										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
750	NEW	CA	52- 5- 0 N	106-25- 0 W	10.00	D	D	B	P		957.56	SA	SASKATOON	31.62	
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	0.8200		-90.0000	90.0000	355.0000	80.0									
750	NEW	CA	52- 5- 0 N	106-25- 0 W	10.00	N	D	B	P		997.79	SA	SASKATOON	31.62	
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	1.7000		235.8000	90.0000	355.0000	80.0									
3	0.8101		111.7000	180.0000	355.0000	80.0									
750	KFQD	US	61- 8-13 N	149-50- 6 W	50.00	D	N	A	O	98.8	2207.68	AK	ANCHORAGE		
750	KFQD-C	US	61- 8-13 N	149-50- 6 W	50.00	N	N	A	P	98.8	2184.92	AK	ANCHORAGE		
750	KFQD-L	US	61- 8-13 N	149-50- 6 W	10.00	N	N	A	O	98.8	926.23	AK	ANCHORAGE		
750	WSB	US	33-50-43 N	84-15-12 W	50.00	U	N	A	O	179.3	2685.63	GA	ATLANTA		
750	NEW	US	41-35-59 N	87-11-56 W	2.50	D	D	B	P		482.50	IN	PORTAGE	12.01*	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.6000		70.0000	110.0000	105.0000	90.0									
750	WBMD	US	39-19-26 N	76-32-56 W	1.00	D	N	B	O	82.3	294.51	MD	BALTIMORE		
750	NEW	US	43-47- 8 N	91-17-57 W	1.00	D	N	B	P		305.78	MN	LA CRESCENT		
										T A = 90.0 B = 9.0 C = 0.0 D = 0.0					
750	NEW	US	43-44-10 N	91-12-31 W	10.00	D	D	B	P		922.69	MN	LA CRESCENT	32.29	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.2485		226.9400	90.0000	284.0000	90.0									
3	0.6570		8.2300	180.0000	284.0000	120.0									

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
750	USLA-1	US	43-47- 8 N	91-17-57 W	1.00	N	D	B	P		335.21	MN	LA CRESCENT	11.62	*

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000		T A = 90.0 B = 9.0 C = 0.0 D = 0.0
2	2.7860	243.6700	90.0000	329.0000		T A = 90.0 B = 9.0 C = 0.0 D = 0.0
3	2.7860	126.5500	180.0000	329.0000		T A = 90.0 B = 9.0 C = 0.0 D = 0.0
4	1.0000	10.2300	270.0000	329.0000		T A = 90.0 B = 9.0 C = 0.0 D = 0.0

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
750	USLA-2	US	43-44-10 N	91-12-31 W	1.00	N	D	B	P		341.74	MN	LA CRESCENT	8.58	*

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	120.0	
2	2.6790	109.2500	105.0000	149.0000	120.0	
3	1.6790	219.1600	210.0000	149.0000	120.0	
4	1.0000	328.4199	315.0000	149.0000	120.0	

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
750	KERR	US	47-38-34 N	114- 7-25 W	50.00	D	N	B	P	151.0	2469.41	MT	POLSON		

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
750	KERR	US	47-38-34 N	114- 7-25 W	1.00	N	D	B	P		342.44	MT	POLSON	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	151.0	
2	0.7500	218.9999	120.0000	1.0000	68.6	

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
750	830225	US	48-55- 1 N	97-15-10 W	1.00	N	D	B	P		312.21	ND	PEMBINA	11.28	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.7100	139.7000	100.0000	53.0000	90.0	
3	2.7100	-79.7000	200.0000	53.0000	90.0	
4	1.0000	60.0000	300.0000	53.0000	90.0	

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
750	KMMJ	US	41- 8- 5 N	97-59-38 W	10.00	U	D	B	O		996.18	NE	GRAND ISLAND	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	94.3	
2	1.1400	105.0000	90.0000	85.0000	94.3	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	85.0	10.0	243.0
2	119.0	10.0	109.4

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
3	130.0	10.0	201.2

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
750	WHEB	US	43- 3- 0 N	70-46- 0 W	1.00	U	N	B	O	76.3	296.12	NH	PORTSMOUTH		
750	NEW	US	38-31-32 N	118-37-30 W	5.00	D	N	B	P	90.0	683.73	NV	HAWTHORNE		
750	NEW	US	38-31-32 N	118-37-30 W	1.00	N	D	B	P		360.49	NV	HAWTHORNE	13.05	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.6810	139.7000	100.0000	65.0000	90.0										
3	2.6810	-79.7000	200.0000	65.0000	90.0										
4	1.0000	60.0000	300.0000	65.0000	90.0										
750	NEW	US	44-33-52 N	75-12-46 W	10.00	D	D	B	P		920.11	NY	CANTON	31.62	
1	1.0000	0.0000	0.0000	0.0000	86.9										
2	0.8700	-38.0000	150.0000	20.0000	86.9										
750	NEW	US	44-56-44 N	73-25-48 W	1.00	N	D	B	P		323.00	NY	CHAMPLAIN	10.00	38
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9690	-112.0500	90.0000	50.0000	90.0										
3	1.0000	-224.1000	180.0000	50.0000	90.0										
750	KSEO	US	34- 0- 1 N	96-24-31 W	0.25	D	N	B	O	93.3	151.28	OK	DURANT		
750	KXL-A	US	45-24- 5 N	122-26-47 W	10.00	N	D	B	P		934.76	OR	PORTLAND	31.62	
1	1.0000	0.0000	0.0000	0.0000	77.0										
2	1.2600	68.0000	128.0000	90.0000	77.0										
3	1.2300	157.2000	118.3000	122.7000	90.0										
4	0.9800	90.1000	70.0000	204.0000	90.0										

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
750	KXL-L	US	45-24- 5 N	122-26-47 W	50.00	U	D	B	D				2049.13 OR PORTLAND	70.71	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	56.5000	0.0000	0.0000	77.0	
2	1.0000	110.4000	128.0000	90.0000	77.0	
3	1.0000	53.9000	118.3016	122.7212	90.0	
4	1.0000	0.0000	70.0000	204.0000	90.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	70.0	10.0	160.9	6	105.0	10.0	126.3
2	75.0	10.0	119.1	7	110.0	10.0	177.0
3	80.0	20.0	103.8	8	150.0	20.0	1834.7
4	90.0	40.0	96.6	9	340.0	20.0	2092.1
5	100.0	14.0	104.6				

750	NEW	US	31-36-14 N	106-10-56 W	25.00	D	D	B	P				1547.80 TX CLINT	40.07*	

1	1.0000	0.0000	0.0000	90.0
2	1.0500	269.9999	90.0000	229.0000	90.0

750	NEW	US	31-36-14 N	106-10-56 W	1.00	N	D	B	P				321.87 TX CLINT	8.99*	

1	1.0000	0.0000	0.0000	90.0
2	2.0000	249.9998	90.0000	229.0000	90.0
3	1.0000	140.0000	180.0000	229.0000	90.0

750	NEW	US	31-46- 8 N	106-16-56 W	10.00	D	D	B	P				1023.00 TX EL PASO	31.62	

1	1.0000	0.0000	0.0000	95.0
2	0.5100	-100.0000	90.0000	285.0000	95.0
3	0.5100	112.0000	90.0000	105.0000	95.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
750	NEW	US	32- 0-11 N	106-19-39 W	10.00	D	D	B	P		992.19	TX	EL PASO	24.41*	
1	1.0000		0.0000	0.0000	0.0000	87.8									
2	0.5600		-86.0000	100.0000	260.0000	87.8									
3	0.3600		-115.7000	100.0000	207.0000	87.8									
4	0.2000		158.3000	179.0000	233.5000	87.8									
750	NEW	US	31-50-30 N	106- 9-48 W	10.00	D	N	B	P		946.59	TX	EL PASO		
										T A = 82.3 B = 7.6 C = 0.0 D = 0.0					
750	NEW	US	31-46- 8 N	106-16-56 W	10.00	D	D	B	P		1007.63	TX	EL PASO	25.12*	
1	1.0000		0.0000	15.0000	82.0000	90.0									
2	0.7000		-100.0000	105.0000	305.0000	90.0									
3	0.5000		90.0000	105.0000	125.0000	90.0									
750	USEL-1	US	31-46- 8 N	106-16-56 W	1.00	N	D	B	P		323.49	TX	EL PASO	10.00	
1	1.0000		0.0000	0.0000	0.0000	95.0									
2	0.5100		-100.0000	90.0000	285.0000	95.0									
3	0.5100		112.0000	90.0000	105.0000	95.0									
750	USEL-2	US	31-50-30 N	106- 9-48 W	5.00	N	D	B	P		701.32	TX	EL PASO	24.93*	
1	1.0000		0.0000	0.0000	0.0000					T A = 82.3 B = 7.6 C = 0.0 D = 0.0					
2	0.5100		131.0000	68.0000	43.0000					T A = 82.3 B = 7.6 C = 0.0 D = 0.0					
3	0.5100		-131.0000	68.0000	223.0000					T A = 82.3 B = 7.6 C = 0.0 D = 0.0					
750	USEL-3	US	32- 0-11 N	106-19-39 W	5.00	N	D	B	P		712.79	TX	EL PASO	17.26*	
1	1.0000		0.0000	0.0000	0.0000	87.8									
2	0.9640		-89.4000	100.0000	260.0000	87.8									
3	0.8790		-121.2000	100.0000	207.0000	87.8									
4	0.8380		149.4000	179.0000	233.5000	87.8									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
750	USEL-4	US	31-46- 8 N	106-16-56 W	1.00	N	D	B	P		318.63	TX	EL PASO	11.16	
1	1.0500		-173.0000	105.0000	305.0000	90.0									
2	1.0500		172.9999	105.0000	125.0000	90.0									
3	1.0000		-70.0000	202.0000	222.0000	90.0									
4	1.1000		70.0000	202.0000	42.0000	90.0									
5	2.1800		-14.0000	15.0000	82.0000	90.0									
750	NEW	US	40-41-29 N	111-27-40 W	5.00	D	N	B	P	76.8	663.94	UT	PARK CITY		
750	NEW	US	40-41-29 N	111-27-40 W	1.00	N	D	B	P		302.88	UT	PARK CITY	10.00	
1	1.0000		0.0000	0.0000	0.0000	76.8									
2	1.0000		-90.0000	76.8000	278.0000	76.8									
750	KOAL	US	39-34- 2 N	110-47-53 W	10.00	D	N	B	P	65.8	916.05	UT	PRICE		
750	KOAL	US	39-34- 2 N	110-47-53 W	10.00	N	D	B	P		907.12	UT	PRICE	31.62	
1	1.0000		0.0000	0.0000	0.0000	65.8									
2	0.9700		112.0000	70.0000	95.0000	65.8									
750	WPDX	US	39-14-40 N	80-23- 5 W	1.00	D	N	B	O	93.3	308.99	WV	CLARKSBURG		
760	NEW	CA	49- 4- 0 N	122- 3- 0 W	10.00	D	N	B	P	80.0	949.49	BC	ABBOTSFORD		
760	NEW	CA	49- 4- 0 N	122- 3- 0 W	10.00	N	D	B	P		970.19	BC	ABBOTSFORD	31.62	
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	0.9000		254.8000	90.0000	290.0000	80.0									
760	NEW	CA	49-18- 5 N	117-36-50 W	20.00	D	N	B	P	83.4	1353.43	BC	CASTLEGAR		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
760	NEW	CA	49-18- 5 N	117-36-50 W	5.00		N	D	B	P		643.75	BC	CASTLEGAR	22.36	
1	1.0000	0.0000	0.0000	0.0000	83.4											
2	1.0000	293.0000	120.0000	295.0000	83.4											
760	831219	CA	45-20- 0 N	63-20- 0 W	1.00		N	D	B	P		307.40	NS	TRURO	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0											
2	1.0000	260.0000	90.0000	86.0000	90.0											
760	NEW	CA	45-19-56 N	63-20- 4 W	10.00		D	N	B	P	90.0	946.59	NS	TRURO		
760	NEW	CA	50-23-54 N	102-32-44 W	10.00		D	N	B	P	80.0	916.05	SA	REGINA		
760	NEW	CA	50-23-54 N	102-32-44 W	5.00		N	D	B	P		702.09	SA	REGINA	22.36	
1	1.0000	0.0000	0.0000	0.0000	80.0											
2	1.0000	260.0000	90.0000	305.0000	80.0											
3	1.0000	135.0000	162.4650	330.5000	80.0											
4	1.0000	235.0000	90.0000	356.0000	80.0											
760	NEW	US	33-34-48 N	86-25-35 W	1.00		D	N	B	P	80.7	297.71	AL	MOODY		
760	NEW	US	34-49-34 N	92-12-19 W	5.00		D	N	B	P	97.3	694.53	AR	SHERWOOD		
760	NEW	US	31-33- 0 N	110-18- 0 W	10.00		D	N	B	P	90.0	966.95	AZ	SIERRA VISTA		
760	NEW	US	31-33- 0 N	110-18- 0 W	1.00		N	D	B	P		335.87	AZ	SIERRA VISTA	14.18	
1	1.0000	0.0000	0.0000	0.0000	90.0											
2	1.4000	151.0000	90.0000	0.0000	90.0											
3	0.6400	302.0000	180.0000	0.0000	90.0											

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
760	KFMB	US	32-50-32 N 117- 1-29 W	50.00	D	N	B	P		87.6	2150.78	CA	SAN DIEGO		
760	KFMB	US	32-50-32 N 117- 1-29 W	5.00	D	N	B	O		87.6	680.14	CA	SAN DIEGO		
760	KFMB-A	US	32-50-32 N 117- 1-29 W	50.00	N	D	B	P			2147.99	CA	SAN DIEGO	70.71	
1	1.0000		0.0000	0.0000	0.0000	87.6									
2	0.8870		-71.0000	110.0000	240.0000	87.6									
760	KFMB-L	US	32-50-32 N 117- 1-29 W	5.00	N	D	B	O			675.92	CA	SAN DIEGO	22.36	
1	0.7000		-70.0000	0.0000	0.0000	87.6									
2	1.0000		0.0000	110.0000	60.0000	87.6									
		AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)					AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)		
		1	60.0	54.0	199.6					2	350.0	72.0	589.0		
760	821119	US	39-52-21 N 104-55-39 W	5.00	D	D	B	P			631.01	CO	COMMERCE CITY	22.36	
1	1.0000		-19.9999	10.0000	163.0000	83.4									
2	1.0000		-143.9999	160.0000	253.0001	83.4									
3	1.0000		144.0002	160.0000	73.0000	83.4									
760	821119	US	39-52-21 N 104-55-39 W	1.00	N	D	B	P			283.04	CO	COMMERCE CITY	10.00	
1	1.9000		-0.4999	10.0000	163.0000	83.4									
2	1.9600		-35.9999	160.0000	253.0001	83.4									
3	0.9500		36.0001	160.0000	73.0000	83.4									
760	NEW	US	39-52-20 N 104-55-34 W	10.00	D	D	B	P			1088.16	CO	COMMERCE CITY	31.62	
1	1.0000		14.0000	0.0000	0.0000	83.4									
2	1.2420		161.2000	160.0000	75.0000	83.4									
3	1.0000		-14.0000	320.0000	75.0000	83.4									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
760	NEW	US	39-52-20 N	104-55-34 W	1.00	N	D	B	P		289.04	CO	COMMERCE CITY	10.00	
1	1.0000		-42.0000	0.0000	0.0000	83.4									
2	1.9600		3.5000	160.0000	75.0000	83.4									
3	1.0000		42.0000	320.0000	75.0000	83.4									
760	NEW	US	27- 9-29 N	80-17-14 W	5.00	D	D	B	P		666.94	FL	PALM CITY	22.36*	
1	1.0000		0.0000	0.0000	0.0000					T A = 64.8 B = 1.2 C = 0.0 D = 0.0					
2	0.8000		-134.0000	60.0000	125.0000					T A = 64.8 B = 1.2 C = 0.0 D = 0.0					
760	NEW	US	27- 9-29 N	80-17-14 W	0.25	N	D	B	P		145.32	FL	PALM CITY	10.00	
1	1.0000		0.0000	0.0000	0.0000	66.0									
2	1.9760		223.1900	60.0000	125.0000	66.0									
3	1.0000		86.3700	120.0000	125.0000	66.0									
760	KGU	US	21-17-41 N	157-51-49 W	10.00	U	N	B	O	75.1	941.50	HI	HONOLULU		
760	NEW	US	42-16-14 N	71-56-22 W	5.00	D	N	B	P	54.0	626.16	MA	LEICESTER		
760	WJR	US	42-10- 7 N	83-13- 0 W	50.00	U	N	A	O	194.7	2844.95	MI	DETROIT		
760	NEW	US	44-39- 0 N	111- 6- 0 W	10.00	D	N	B	P	90.0	966.95	MT	W. YELLOWSTONE		
760	NEW	US	44-39- 0 N	111- 6- 0 W	1.00	N	D	B	P		312.18	MT	W. YELLOWSTONE	11.33	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.9500		94.0000	90.0000	90.0000	90.0									
3	0.6200		4.0000	242.8000	79.8600	90.0									
4	0.6500		-90.0000	155.0000	74.0000	90.0									
760	WCPS	US	35-55-40 N	77-34-15 W	1.00	D	N	B	O	76.5	296.12	NC	TARBORO		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
760	WORA	US	18-11-30 N	67- 9-28 W	5.00		U	D	B	O		712.94	PR	MAYAGUEZ	23.70	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.9300	-122.0000	0.0000	0.0000	74.3	
2	1.0000	0.0000	60.0000	290.0000	74.3	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	10.0	441.9	4	290.0	40.0	96.6
2	225.0	10.0	386.2	5	310.0	10.0	88.5
3	270.0	40.0	88.5	6	315.0	10.0	101.4

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
760	WNPC	US	35-59-10 N	83-10-46 W	10.00		D	N	B	P	62.6	890.61	TN	NEWPORT		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
760	NEW	US	29-27- 8 N	98-18-33 W	50.00		D	D	B	P		2051.75	TX	SAN ANTONIO	70.71	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	100.0	
2	0.9000	22.4000	182.0000	351.0000	100.0	
3	0.9000	115.9000	232.4000	11.9000	100.0	
4	1.0000	93.5000	90.0000	58.0000	100.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
760	NEW	US	29-27- 8 N	98-18-33 W	1.00		N	D	B	P		289.20	TX	SAN ANTONIO	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	100.0	
2	0.7600	12.5000	182.0000	351.0000	100.0	
3	0.7000	102.7999	232.4000	11.9000	100.0	
4	0.9200	90.3000	90.0000	58.0000	100.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
760	NEW	US	29-27- 8 N	98-18-33 W	1.00		N	D	B			P	289.20 TX SAN ANTONIO	8.83*	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	100.0	
2	0.7600	12.5000	182.0000	351.0000	100.0	
3	0.7000	102.7999	232.4000	11.9000	100.0	
4	0.9200	90.3000	90.0000	58.0000	100.0	

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	10.0	30.0	37.0	4	62.0	34.0	30.6
2	30.0	40.0	23.3	5	79.0	34.0	56.3
3	30.0	30.0	22.7				

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
760	KGOS	US	42-33- 9 N	114-22- 1 W	5.00		D	N	B	90.0	680.14	P	WY TORRINGTON		
760	KGOS	US	42-33- 9 N	114-22- 1 W	1.00		N	D	B			P	288.49 WY TORRINGTON	8.02*	

TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)
1	1.6900	51.2000	0.0000	0.0000	90.0
2	1.0000	0.0000	157.0000	255.0000	90.0
3	0.7800	103.4000	157.0000	72.0000	90.0

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
770	NEW	CA	50-49-16 N	114- 3- 4 W	50.00		D	N	B	90.0	2162.96	AB	CALGARY		
770	NEW	CA	50-49-16 N	114- 3- 4 W	50.00		N	D	B			P	2105.02 AB CALGARY	70.71	

TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	0.8999	70.0000	185.0000	146.0000	90.0
3	2.1001	126.5000	90.0000	186.0000	90.0
4	1.6500	-174.0000	260.5000	158.8000	90.0
5	0.8999	-101.5000	180.0000	186.0000	90.0
6	0.8999	-59.0000	343.0000	165.7000	90.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
770	NEW	US	61- 6-58 N	146-15-58 W	1.00	D	N	B	P		281.64	AK	VALDEZ		
										T A = 39.4 B = 2.8 C = 0.0 D = 0.0					
770	NEW	US	61- 6-58 N	146-15-58 W	0.50	N	N	A	P	42.3	193.46	AK	VALDEZ		
770	WJMW	US	34-50-21 N	86-55-44 W	10.00	D	N	B	P	90.0	966.95	AL	ATHENS		
770	WJMW	US	34-50-21 N	86-55-44 W	0.50	N	D	B	P		199.43	AL	ATHENS	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	3.0000		119.0000	80.0000	55.0000	90.0									
3	3.0000		-121.0000	160.0000	55.0000	90.0									
4	1.0000		-2.6000	240.0000	55.0000	90.0									
770	KURM	US	36-17-50 N	94- 8-13 W	10.00	D	D	B	P		900.30	AR	ROGERS	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.8810		-6.2600	185.0000	60.0000	90.0									
3	0.1400		-28.5000	370.0000	60.0000	90.0									
770	KURM	US	36-17-50 N	94- 8-13 W	1.00	N	D	B	P		286.09	AR	ROGERS	10.00	
1	1.0000		-102.0000	0.0000	0.0000	90.0									
2	1.9220		-80.0000	185.0000	60.0000	90.0									
3	1.0000		-58.0000	370.0000	60.0000	90.0									
4	1.0000		0.0000	90.0000	124.0000	90.0									
5	1.9220		22.0000	238.0000	80.5000	90.0									
6	1.0000		44.0000	418.0000	72.0000	90.0									
770	NEW	US	35-43- 0 N	117-37- 0 W	1.00	D	N	B	P	90.0	305.78	CA	CHINA LAKE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
770	NEW	US	35-43- 0 N	117-37- 0 W	1.00	N	D	B	P		360.49	CA	CHINA LAKE	13.05	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6810		139.7000	100.0000	45.0000	90.0									
3	2.6810		-79.7000	200.0000	45.0000	90.0									
4	1.0000		60.0000	300.0000	45.0000	90.0									
770	NEW	US	37-42- 8 N	120-54- 6 W	1.00	D	N	B	P	60.0	284.85	CA	RIVERBANK		
770	NEW	US	37-42-30 N	120-49- 2 W	50.00	D	D	B	P		2030.35	CA	RIVERBANK	97.32	
1	1.0000		0.0000	0.0000	0.0000	84.0									
2	1.6900		142.3000	70.0000	70.0000	84.0									
3	0.8000		-75.5000	140.0000	70.0000	84.0									
770	USRI-1	US	37-42- 8 N	120-54- 6 W	1.00	N	D	B	P		288.31	CA	RIVERBANK	10.00	
1	1.0000		0.0000	0.0000	0.0000	60.0									
2	0.6000		-120.0000	60.0000	280.0000	60.0									
770	USRI-2	US	37-42-30 N	120-49- 2 W	1.00	N	D	B	P		320.10	CA	RIVERBANK	11.07	
1	1.0000		0.0000	0.0000	0.0000	84.0									
2	1.7700		120.2000	70.0000	70.0000	84.0									
3	0.8000		240.2999	140.0000	70.0000	84.0									
770	NEW	US	26-45-51 N	81-57- 2 W	10.00	D	D	B	P		1021.45	FL	NORTH FORT MYERS	32.14	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.0230		120.2400	90.0000	10.0000	90.0									
3	1.5100		242.9000	180.0000	10.0000	90.0									
4	0.4200		6.1300	270.0000	10.0000	90.0									

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR / HRS DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
770	NEW	US	26-45-19 N	81-48-50 W	5.00	D	D	B	P		718.73	FL NORTH FORT MYERS	29.90	
1	1.0000	0.0000	0.0000	0.0000	90.0									
2	1.7960	-124.5000	60.0000	190.0000	90.0									
3	0.8100	-255.0000	120.0000	190.0000	90.0									
770	USNO-1	US	26-45-51 N	81-57- 2 W	1.00	N	D	B	P		310.46	FL NORTH FORT MYERS	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0									
2	0.9400	95.0000	90.0000	10.0000	90.0									
770	USNO-2	US	26-45-19 N	81-48-50 W	1.00	N	D	B	P		312.78	FL NORTH FORT MYERS	10.50	
1	1.0000	0.0000	0.0000	0.0000	90.0									
2	1.0000	-123.0000	60.0000	190.0000	90.0									
770	NEW	US	28-19-19 N	82-43-24 W	1.00	D	N	B	P	70.0	292.90	FL PORT RICHEY		
770	NEW	US	28-19-19 N	82-43-24 W	0.50	N	D	B	P		212.59	FL PORT RICHEY	10.00	
1	1.0000	0.0000	0.0000	0.0000	70.0									
2	1.0000	126.5000	60.0000	8.0000	70.0									
770	WWBC	US	28-21-30 N	80-42-38 W	5.00	D	D	B	P		665.95	FL ROCKLEDGE	23.44	
1	1.0000	0.0000	0.0000	0.0000	68.8									
2	0.7500	130.0000	60.0000	180.0000	68.8									
770	WWBC	US	28-21-30 N	80-42-38 W	0.50	N	D	B	P		210.61	FL ROCKLEDGE	10.00	
1	1.0000	0.0000	0.0000	0.0000	68.8									
2	1.0000	-124.5000	60.0000	180.0000	68.8									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
770	WNVL	US	37-52-55 N	84-33- 9 W	1.00	D	N	B	P	82.3	305.71	KY	NICHOLASVILLE		
770	KJCB	US	30-17-55 N	91-59-30 W	1.00	D	N	B	P	60.0	286.46	LA	LAFAYETTE		
770	KJCB	US	30-17-55 N	91-59-30 W	0.50	N	D	B	P		199.70	LA	LAFAYETTE	10.00	
1	1.0000		0.0000	0.0000	0.0000	60.0									
2	1.3960		99.5000	102.7000	16.0900	60.0									
3	0.5360		67.2700	167.8400	293.7800	60.0									
770	KUOM	US	44-47-32 N	93-17-44 W	25.00	D	N	B	P	90.0	1528.88	MN	MINNEAPOLIS		
770	KUOM	US	44-59-54 N	93-11-18 W	5.00	D	N	B	D	156.7	683.73	MN	MINNEAPOLIS		
770	KUOM	US	44-47-32 N	93-17-44 W	2.50	N	D	B	P		488.87	MN	MINNEAPOLIS	15.86	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9984		47.3000	135.0000	90.0000	90.0									
3	1.0000		94.6000	270.0000	90.0000	90.0									
4	1.0000		-130.4000	278.9300	104.5300	90.0									
5	1.9984		-177.7000	152.0700	117.4100	90.0									
6	1.0000		135.0000	70.0000	180.0000	90.0									
770	WCAL	US	44-28-35 N	93-11- 8 W	5.00	D	N	B	D	124.0	676.54	MN	NORTHFIELD		
770	NEW	US	38-56-12 N	94-25-48 W	5.00	D	D	B	P		640.31	MO	RAYTOWN	22.36	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.7000		12.5000	170.0000	10.0000	90.0									
3	0.6300		103.4999	205.7000	35.5230	90.0									
4	0.9000		91.0000	90.0000	90.0000	90.0									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
770	NEW	US	38-56-12 N	94-25-48 W	0.50		N	D	B	P		214.72	MO	RAYTOWN	10.00	
	1	1.0000	0.0000	0.0000	0.0000	90.0										
	2	0.9500	22.5000	187.0000	75.0000	90.0										
	3	0.9000	167.4999	231.9000	91.5950	90.0										
	4	0.9500	144.9999	75.0000	137.0000	90.0										
770	WEW	US	38-37-17 N	90- 4-36 W	1.00		D	N	B	O	91.3	305.78	MO	SAINT LOUIS		
770	KATL	US	46-24- 0 N	105-49-10 W	10.00		D	N	B	P	80.0	941.50	MT	MILES CITY		
770	KATL	US	46-24- 0 N	105-49-10 W	1.00		N	D	B	P		281.64	MT	MILES CITY	10.65	
	1	1.0000	0.0000	0.0000	0.0000	80.0										
	2	0.8000	136.9999	60.0000	140.0000	80.0										
770	NEW	US	48-47- 0 N	98-22- 0 W	2.50		D	N	B	P	90.0	483.47	ND	LANGDON		
770	NEW	US	48-47- 0 N	98-22- 0 W	1.00		N	D	B	P		319.13	ND	LANGDON	10.00	
	1	1.0000	0.0000	0.0000	0.0000	90.0										
	2	1.9900	99.7000	90.0000	105.0000	90.0										
	3	1.0000	199.4000	180.0000	105.0000	90.0										
770	KOB	US	35-12- 9 N	106-36-41 W	50.00		D	N	B	O	112.0	2321.48	NM	ALBUQUERQUE		
770	KOB	US	35-12- 9 N	106-36-41 W	50.00		D	N	B	P	180.4	2697.01	NM	ALBUQUERQUE		
770	KOB-C	US	35-12- 9 N	106-36-41 W	50.00		N	D	B	P		2488.05	NM	ALBUQUERQUE	70.71	98
	1	1.0000	0.0000	0.0000	0.0000	180.4										
	2	0.9300	-90.0000	90.0000	248.0000	124.0										

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
770	KOB-L	US	35-12- 9 N	106-36-41 W	50.00	N	D	B	O		2562.08	NM	ALBUQUERQUE	70.71	98

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	180.0	
2	0.8650	-95.0000	90.0000	268.0000	124.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	8.0	34.0	2218.0	8	195.0	50.0	3203.6
2	25.0	34.0	1480.4	9	220.0	50.0	3698.8
3	88.0	10.0	312.2	10	246.0	44.0	3855.3
4	107.0	36.0	289.5	11	268.0	44.0	3871.3
5	125.0	36.0	528.0	12	290.0	44.0	3855.3
6	143.0	36.0	1146.8	13	313.0	46.0	3731.6
7	170.0	50.0	2302.5	14	340.0	54.0	3231.7

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
770	WABC	US	40-52-50 N	74- 4-12 W	50.00	U	N	A	O	180.4	2697.01	NY	NEW YORK		
770	WFAB	US	18-12-54 N	65-54-33 W	5.00	D	D	B	P		651.86	PR	JUNCOS	25.21	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	85.4
2	0.8500	132.0000	47.4700	280.0000	47.5

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
770	WFAB	US	18-12-54 N	65-54-33 W	5.00	U	D	B	P		642.24	PR	JUNCOS	25.04	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	85.4
2	1.0150	132.0000	47.4700	280.0000	47.5

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
770	NEW	US	36-33- 4 N	85-31- 5 W	1.00	D	N	B	P	81.7	299.34	TN	CELINA		
770	NEW	US	33-10-20 N	96-54-35 W	5.00	D	D	B	P		703.99	TX	CARROLLTON	29.56	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	78.9
2	0.7000	135.0000	70.0000	350.0000	78.9
3	0.4900	-85.0000	123.0066	27.6727	78.9
4	0.7000	140.0000	80.0000	60.0000	78.9

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
770	NEW	US	33-10-20 N	96-54-35 W	2.50	N	D	B	P		511.42	TX	CARROLLTON	26.49	
1	1.0000		0.0000	0.0000	0.0000	78.9									
2	1.8700		151.0000	70.0000	350.0000	78.9									
3	0.9000		-58.0000	140.0000	350.0000	78.9									
4	0.9500		105.0000	80.0000	60.0000	78.9									
5	1.7850		-104.0000	123.0066	27.6727	78.9									
6	0.8500		47.0000	183.4700	14.1886	78.9									
770	KPBC	US	33- 2-30 N	96-33-28 W	5.00	D	D	B	P		682.84	TX	GARLAND	22.78	
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	0.6760		-116.4000	90.0000	246.0000	80.0									
3	0.5650		90.3000	90.0000	309.0000	80.0									
4	0.3820		-26.1000	153.5000	277.5000	80.0									
770	KPBC	US	33- 2-30 N	96-33-28 W	1.00	N	D	B	P		300.30	TX	GARLAND	10.06	
1	0.9570		93.9000	0.0000	0.0000	80.0									
2	1.0000		0.0000	90.0000	246.0000	80.0									
3	0.8790		-164.0000	90.0000	309.0000	80.0									
4	0.9190		102.1000	153.5000	277.5000	80.0									
770	NEW	US	33- 2- 7 N	96-35-58 W	10.00	D	D	B	P		891.58	TX	GARLAND	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.2									
2	1.2500		20.0000	150.0000	305.0000	90.2									
3	1.4290		111.0600	90.0000	55.0000	90.2									
4	1.7860		131.0600	146.2000	340.0000	90.2									

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO		PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
770	NEW	US	33- 2- 7 N	96-35-58 W	1.00	N	D	B	P		294.51	TX	GARLAND	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.2									
2	0.9000		44.0600	150.0000	305.0000	90.2									
3	0.9500		95.4300	90.0000	55.0000	90.2									
4	0.8550		139.4900	146.2000	340.4000	90.2									
770	NEW	US	33- 7- 2 N	96-42-49 W	5.00	D	D	B	P		632.47	TX	PLANO	50.96	
1	1.0000		0.0000	0.0000	0.0000	71.9									
2	0.7030		168.6000	67.6900	1.1000	80.0									
3	0.6250		-156.6900	67.5600	176.9900	80.0									
4	0.0770		79.5000	31.9200	349.9800	80.0									
770	NEW	US	33- 4- 7 N	96-38-11 W	10.00	D	D	B	P		1041.50	TX	PLANO	37.86	
1	0.9880		-137.5000	0.0000	0.0000	90.0									
2	1.0000		0.0000	90.0000	30.0000	90.0									
3	0.4150		144.5000	180.0000	30.0000	90.0									
770	USPL-1	US	33- 7- 2 N	96-43-49 W	1.00	N	D	B	P		301.27	TX	PLANO	18.58	
1	1.0000		0.0000	0.0000	0.0000	71.9									
2	0.5510		157.7200	67.6900	1.1000	80.0									
3	0.5110		-154.1600	67.5600	176.9900	80.0									
4	0.0750		86.7200	31.9200	349.9800	80.0									
770	USPL-2	US	33- 4- 7 N	96-38-11 W	1.00	N	D	B	P		340.12	TX	PLANO	13.20	
1	0.4520		-136.0000	0.0000	0.0000	90.0									
2	1.0000		0.0000	90.0000	10.0000	90.0									
3	0.8230		136.9999	180.0000	10.0000	90.0									
4	0.2610		-87.0000	270.0000	10.0000	90.0									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) / RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
770	KBEC	US	32-26-45 N	96-48-15 W	1.00	D	N	B	P	80.0	292.90	TX	WAXAHACHIE		
770	KBEC	US	32-26-45 N	96-48-15 W	1.00	N	D	B	P		305.78	TX	WAXAHACHIE	15.26	
	1	1.0000	153.5000	0.0000	0.0000	80.0									
	2	1.8850	0.0000	80.0000	170.0000	80.0									
	3	1.0000	-153.5000	160.0000	170.0000	80.0									
770	830513	US	47-27-16 N	122-14- 7 W	5.00	N	D	B	P		669.44	WA	SEATTLE	22.36	
	1	1.0000	0.0000	0.0000	0.0000	90.2									
	2	2.0000	326.0000	132.5000	275.0000	90.2									
	3	1.0000	236.0000	265.0000	275.0000	90.2									
770	KXA	US	47-27-16 N	122-14- 7 W	50.00	D	D	B	P		2150.18	WA	SEATTLE	70.71	
	1	1.0000	0.0000	0.0000	0.0000	90.2									
	2	3.9300	133.0000	132.5000	275.0000	90.2									
	3	4.7200	198.0000	265.0000	275.0000	90.2									
770	KXA-A	US	47-27-16 N	122-14- 7 W	10.00	N	D	B	P		944.75	WA	SEATTLE	31.62	
	1	1.0000	0.0000	0.0000	0.0000	90.2									
	2	2.0000	317.9999	132.5000	275.0000	90.2									
	3	1.0000	236.0000	265.0000	275.0000	90.2									
770	KXA-C	US	47-36-30 N	122-20-15 W	1.00	U	N	B	P	32.7	281.64	WA	SEATTLE		
770	KXA-L	US	47-36-30 N	122-20-15 W	1.00	U	N	B	O	32.7	281.64	WA	SEATTLE		
780	CKOK	CA	49-27-45 N	119-34-33 W	20.00	D	D	B	P		1351.85	BC	PENTICTON	44.72	
	1	1.0000	0.0000	0.0000	0.0000	80.0									
	2	0.5600	-125.0000	80.0000	318.0000	80.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
780	CKOK	CA	49-27-45 N	119-34-33 W	10.00	N	D	B	P		992.97	BC	PENTICTON	33.03	
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	2.0000		-124.0000	80.0000	318.0000	80.0									
3	0.9350		112.5000	160.0000	318.0000	80.0									
780	NEW	CA	48-56-51 N	58- 2- 5 W	10.00	D	N	B	P	80.0	946.59	NF	CORNER BROOK		
780	NEW	CA	48-57- 0 N	58- 2- 0 W	10.00	N	D	B	P		974.99	NF	CORNER BROOK	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		268.6001	90.0000	68.0000	90.0									
780	NEW	CA	43-49-52 N	66-14- 1 W	10.00	D	N	B	P	80.0	946.59	NS	YARMOUTH		
780	NEW	CA	43-50- 0 N	66-14- 0 W	2.50	N	D	B	P		521.28	NS	YARMOUTH	17.22	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		259.8999	90.0000	82.5000	90.0									
3	1.0000		108.3000	146.3120	118.1250	90.0									
4	1.0000		208.4000	90.0000	153.7500	90.0									
780	KNOM	US	64-29-16 N	165-17-58 W	10.00	D	N	B	O	66.5	880.43	AK	NOME		
780	KNOM-A	US	64-29-16 N	165-17-58 W	10.00	N	N	A	P	66.5	880.43	AK	NOME		
780	KNOM-L	US	64-29-16 N	165-17-58 W	5.00	N	N	B	O	66.5	622.56	AK	NOME		
780	KAZM	US	34-51-38 N	111-49-10 W	5.00	D	N	B	P	52.5	626.16	AZ	SEDONA		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

780	KAZM	US	34-51-38 N	111-49-10 W	0.25	N	D	B	P			145.48	AZ	SEDONA	10.00

1	1.0000	0.0000	0.0000	0.0000	52.5
2	0.9000	125.0000	80.0000	20.0000	52.5

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	20.0	20.0	62.8				

780	WBBM	US	41-59-32 N	88- 1-36 W	50.00	U	N	A	O	194.1	2844.95	IL	CHICAGO		
780	WCKB	US	35-17-30 N	78-35-45 W	1.00	D	N	B	O	77.1	297.73	NC	DUNN		
780	WBBO	US	35-21- 2 N	81-54- 4 W	1.00	D	N	B	O	81.4	297.73	NC	FOREST CITY		
780	WJAG	US	42- 1-54 N	97-29-47 W	1.00	U	N	B	O	75.4	296.12	NE	NORFOLK		
780	KROW	US	39-40-41 N	119-48- 6 W	50.00	D	N	B	O	90.0	2162.16	NV	RENO		
780	KROW	US	39-40-41 N	119-48- 6 W	50.00	N	D	B	O		2172.61	NV	RENO	17.85*	

1	1.0000	-66.0000	0.0000	0.0000	90.0
2	2.1000	0.0000	110.0000	75.0000	90.0
3	1.0000	66.0000	220.0000	75.0000	90.0

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	52.0	14.0	136.8	5	90.0	14.0	104.6
2	60.0	14.0	104.6	6	97.0	12.0	132.0
3	67.0	14.0	91.7	7	255.0	52.0	2940.3
4	83.0	14.0	91.7				

780	KSPI	US	36- 4-56 N	97- 3-13 W	0.25	D	N	B	O	91.3	152.89	OK	STILLWATER		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
780	WIVV	US	18- 6-19 N	65-28- 3 W	50.00		D	B	P		2392.26	PR	ISLAND OF VIEQUES	95.57	
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.6500	172.2000	90.0000	305.0000	90.0										
3	0.5200	318.4000	171.7000	287.5000	90.0										
4	0.8000	146.2999	90.0000	270.0000	90.0										
780	WIVV	US	18- 6-19 N	65-28- 3 W	50.00		N	B	P		2333.66	PR	ISLAND OF VIEQUES	73.65	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.7700	95.4000	90.0000	305.0000	90.0										
3	0.5800	259.8000	171.7000	287.5000	90.0										
4	0.7500	164.4000	90.0000	270.0000	90.0										
780	NEW	US	18- 0-37 N	66- 1-29 W	0.25		U	N	B	P	75.1	148.86	PR	PATILLAS		
780	WPTN	US	36- 9-30 N	85-31-15 W	1.00		D	N	B	P	77.1	297.73	TN	COOKEVILLE		
780	WABS	US	38-53-44 N	77- 8- 4 W	1.00		D	N	B	O	102.2	307.38	VA	ARLINGTON		
780	WABS	US	38-53-44 N	77- 8- 4 W	5.00		D	N	B	P	102.2	698.13	VA	ARLINGTON		
780	NEW	US	46-14- 0 N	119-49- 0 W	10.00		D	D	B	P		966.94	WA	PROSSER	31.62	
1	1.0000	0.0000	0.0000	0.0000	120.0										
2	0.3500	175.2000	90.0000	89.0000	120.0										
780	NEW	US	46-14- 0 N	119-49- 0 W	1.00		N	D	B	P		304.81	WA	PROSSER	10.00	
1	1.0000	0.0000	0.0000	0.0000	120.0										
2	0.8200	90.0000	90.0000	89.0000	120.0										
3	0.8300	24.0000	160.0000	186.0000	120.0										
4	0.6800	114.0000	173.8000	155.1000	120.0										

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
820	NEW	CA	44-30- 0 N	63-40- 0 W	50.00	D	N	B	P	90.0	2104.46	NS	HALIFAX		
820	NEW	CA	44-30- 0 N	63-40- 0 W	50.00	N	D	B	P		2104.44	NS	HALIFAX	70.71	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.9300	93.0000	90.0000	258.0000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
820	NEW	CA	46-10- 0 N	60-12- 0 W	10.00	D	N	B	P	90.0	965.62	NS	SYDNEY		
820	NEW	CA	46-10- 0 N	60-12- 0 W	10.00	N	D	B	P		941.50	NS	SYDNEY	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.6000	-90.0000	90.0000	78.0000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
820	NEW	CA	49-46- 0 N	92-54- 0 W	1.00	D	N	B	P	73.4	296.12	ON	DRYDEN		
820	NEW	CA	49-46- 0 N	92-54- 0 W	1.00	N	D	B	P		291.77	ON	DRYDEN	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	73.4	
2	0.9199	-90.0000	90.0000	10.0000	60.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
820	830303	CA.	43- 6-58 N	79-46-38 W	50.00	D	D	B	P		2117.90	ON	HAMILTON	70.71	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.6800	-118.8000	90.0000	352.0000	90.0	
3	1.8200	128.2000	180.0000	352.0000	90.0	
4	0.9700	-76.5000	195.1000	53.5000	90.0	
5	1.0800	171.3000	250.8000	35.1000	90.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)									
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
820	830303	CA	43- 6-58 N	79-46-38 W	10.00	N	D	B	P		960.78	ON	HAMILTON	16.57*	45
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9500	-120.8000	90.0000	352.0000	90.0										
3	0.9850	116.8000	180.0000	352.0000	90.0										
4	0.9850	-11.2000	171.5000	81.0000	90.0										
5	1.9400	-133.7000	195.1000	53.5000	90.0										
6	0.9950	103.8000	250.8000	35.1000	90.0										
820	CKOC	CA	43- 3- 4 N	79-48-42 W	25.00	N	D	B	P		1472.55	ON	HAMILTON	50.00	46,47
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9900	-69.0000	120.0000	60.0000	90.0										
3	1.0000	-138.0000	240.0000	60.0000	90.0										
4	0.5000	-106.0000	96.0000	340.0000	90.0										
5	0.9900	-175.0000	166.1800	25.3300	90.0										
6	0.5000	116.0000	273.5300	39.7800	90.0										
820	NEW	CA	43- 3- 4 N	79-48-42 W	50.00	D	D	B	P		2059.96	ON	HAMILTON	70.71	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.9100	-70.0000	120.0000	25.0000	90.0										
820	NEW	CA	45-49-50 N	72-28- 3 W	5.00	D	N	B	P	80.0	672.94	QU	DRUMMONDVILLE		
820	NEW	CA	45-50- 0 N	72-28- 0 W	5.00	N	D	B	P		730.63	QU	DRUMMONDVILLE	26.24	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9131	222.4500	90.0000	4.5000	90.0										
3	1.0000	84.9000	180.0000	4.5000	90.0										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
820	NEW	CA	52- 7- 0 N	106-38- 0 W	10.00	D	D	B	P		965.61	SA	SASKATOON	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.7000		-90.0000	90.0000	30.0000	90.0									
820	NEW	CA	52- 7- 0 N	106-38- 0 W	10.00	N	D	B	P		1065.00	SA	SASKATOON	35.51	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.8000		233.5000	90.0000	30.0000	90.0									
3	2.8000		107.2000	180.0000	30.0000	90.0									
4	1.0000		340.7000	270.0000	30.0000	90.0									
820	KCBF-A	US	64-45-56 N	147-20-43 W	50.00	U	N	A	P	114.0	2264.58	AK	FAIRBANKS		
820	KCBF-C	US	64-51-49 N	147-45- 6 W	50.00	U	N	A	P	96.0	2196.30	AK	FAIRBANKS		
820	NEW	US	29-13-20 N	81- 6-26 W	10.00	D	D	B	P		986.27	FL	HOLLY HILLS	31.65	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.7000		-141.9600	90.0000	125.0000	90.0									
820	NEW	US	29-13-20 N	81- 6-26 W	1.00	N	D	B	P		310.39	FL	HOLLY HILLS	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.5980		267.1100	90.0000	125.0000	90.0									
3	0.6400		174.2299	180.0000	125.0000	90.0									
820	WSST	US	27-54-30 N	82-46-51 W	50.00	D	D	B	P		2012.16	FL	LARGO	70.71	
1	1.0000		0.0000	0.0000	0.0000	93.3									
2	0.9500		41.7000	174.3000	250.0000	93.3									

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
820	WSST	US	27-56- 3 N	82-47-59 W	1.00	N	D	B	P		300.79	FL	LARGO	10.00	
1	1.0000	0.0000	0.0000	0.0000	75.0										
2	1.9900	76.3000	115.0000	318.0000	75.0										
3	1.0000	152.5000	230.0000	318.0000	75.0										
820	NEW	US	28-33-14 N	81-31-27 W	10.00	D	N	B	P	90.0	966.95	FL	PINE HILLS		
820	NEW	US	28-33-14 N	81-31-27 W	1.00	N	D	B	P		291.26	FL	PINE HILLS	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9700	50.5000	145.0000	318.0000	90.0										
3	1.0000	101.0000	290.0000	318.0000	90.0										
820	WAIT-A	US	41-55-33 N	87-57- 0 W	1.00	N	D	B	P		350.56	IL	CHICAGO	10.40	
1	1.0000	0.0000	0.0000	0.0000	126.0										
2	2.7860	243.6700	90.0000	43.0000	126.0										
3	2.7860	126.5500	180.0000	43.0000	126.0										
4	1.0000	10.2300	270.0000	43.0000	126.0										
820	WAIT-L	US	41-55-33 N	87-57- 0 W	5.00	U	N	B	O	126.1	734.11	IL	CHICAGO		40
820	WSWI	US	37-59-21 N	87-35-48 W	0.25	D	N	B	O	143.2	171.40	IN	EVANSVILLE		
820	820909	US	42-12- 0 N	70-59- 0 W	10.00	D	D	B	P		1049.68	MA	WEYMOUTH	31.62	
1	1.0000	0.0000	0.0000	0.0000	81.0										
2	1.0000	90.0000	75.0000	280.0000	81.0										
820	820909	US	42-12- 0 N	70-59- 0 W	2.50	N	D	B	P		524.84	MA	WEYMOUTH	15.81	
1	1.0000	0.0000	0.0000	0.0000	81.0										
2	1.0000	115.0000	75.0000	280.0000	81.0										

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
820	NEW	US	42- 4- 6 N	70-57-15 W	10.00		D	D	B	P		1049.68	MA WEYMOUTH	31.62	40a
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000	140.0									
	2	1.0000	45.0000	105.0000	253.0000	140.0									
820	NEW	US	42- 4- 6 N	70-57-15 W	10.00	N	D	B	P		1047.65	MA	WEYMOUTH	31.62	
	1	1.0000	0.0000	0.0000	0.0000	140.0									
	2	1.0000	75.0000	105.0000	253.0000	140.0									
820	NEW	US	42- 3-36 N	70-55-57 W	1.00	D	N	B	P	58.8	284.85	MA	WHITMAN		
820	NEW	US	42- 3-36 N	70-55-57 W	1.00	N	D	B	P		292.10	MA	WHITMAN	10.00	
	1	1.0000	0.0000	0.0000	0.0000	58.8									
	2	0.8000	120.0000	60.0000	240.0000	58.8									
820	WZYQ	US	39-24-42 N	77-28-20 W	5.00	D	D	B	P		641.32	MD	FREDERICK	22.36	
	1	1.0000	0.0000	0.0000	0.0000	48.0									
	2	0.6500	95.5000	119.8000	162.5000	48.0									
820	WZYQ	US	39-24-42 N	77-28-20 W	1.00	N	D	B	P		286.33	MD	FREDERICK	10.00	
	1	0.9700	124.3000	0.0000	0.0000	48.0									
	2	1.0000	0.0000	60.0000	73.0000	60.0									
820	WFRB	US	39-41- 2 N	78-57-57 W	50.00	D	D	B	P		2249.27	MD	FROSTBURG	70.71	
	1	1.0000	0.0000	0.0000	0.0000	102.9									
	2	0.8800	103.9000	80.0000	310.0000	102.9									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
820	WFRB	US	39-41- 2 N	78-57-57 W	1.00	N	D	B	P		328.95	MD	FROSTBURG	10.00	
1	0.8900		113.1000	0.0000	0.0000	102.9									
2	1.5900		2.5000	80.0000	75.0000	102.9									
3	0.6900		-113.1000	160.0000	75.0000	102.9									
820	NEW	US	48-10- 0 N	111-57- 0 W	2.50	D	D	B	P		483.46	MT	CONRAD	15.81	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.9500		63.4000	71.5800	134.6500	90.0									
820	NEW	US	48-10- 0 N	111-57- 0 W	1.00	N	D	B	P		281.64	MT	CONRAD	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.5150		87.2500	71.5800	134.6500	90.0									
3	0.4080		121.5200	279.5200	116.2400	90.0									
4	1.0440		10.4300	196.9500	131.5000	90.0									
820	NEW	US	35- 9-29 N	80-55-40 W	10.00	D	D	B	P		1021.61	NC	CHARLOTTE	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.4100		180.0000	100.0000	70.0000	90.0									
820	NEW	US	35- 9-29 N	80-55-40 W	1.00	N	D	B	P		325.89	NC	CHARLOTTE	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.8020		-107.0000	100.0000	70.0000	90.0									
3	0.2290		144.8000	200.0000	70.0000	90.0									
4	0.4460		105.6000	100.0000	250.0000	90.0									
820	WIQT	US	42- 9-14 N	76-50-47 W	5.00	D	N	B	P	87.0	676.54	NY	HORSEHEADS		41

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
820	WIQT	US	42- 9-14 N	76-50-47 W	1.00	N	D	B	P		297.02	NY	HORSEHEADS	10.00	
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1	1.0000	0.0000	0.0000	0.0000	87.0										
2	1.0000	54.4300	135.0000	245.9000	87.0										
820	WNYC	US	40-35-47 N	74- 7-49 W	50.00	D	D	B	P		2402.75	NY	NEW YORK	115.28	
1	1.0000	0.0000	0.0000	0.0000	99.0										
2	1.4800	169.0000	100.0000	254.0000	99.0										
3	0.9800	-37.0000	200.0000	254.0000	99.0										
4	0.3300	111.0000	300.0000	254.0000	99.0										
820	WNYC	US	40-35-47 N	74- 7-49 W	10.00	N	D	B	P		1076.65	NY	NEW YORK	34.20	
1	1.0000	0.0000	0.0000	0.0000	99.0										
2	1.9800	105.0000	100.0000	254.0000	99.0										
3	1.5700	-112.0000	200.0000	254.0000	99.0										
4	1.0600	18.0000	300.0000	254.0000	99.0										
820	WOSU	US	40- 1-44 N	83- 3-22 W	5.00	D	N	B	P	91.8	683.73	OH	COLUMBUS		
820	WOSU	US	39-55-34 N	83- 6- 4 W	1.00	N	D	B	P		320.55	OH	COLUMBUS	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9800	104.3000	90.0000	241.5000	90.0										
3	1.0000	208.4998	180.0000	241.5000	90.0										
820	NEW	US	40-42-42 N	77-58-16 W	50.00	D	D	B	P		2145.92	PA	STATE COLLEGE	70.71	43
1	1.0000	0.0000	0.0000	0.0000	87.0										
2	1.0000	57.0000	90.0000	250.0000	87.0										

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
820	NEW	US	40-42-42 N	77-58-16 W	5.00	N	D	B	P		703.78	PA	STATE COLLEGE	22.36	44
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
	1	1.0000	0.0000	0.0000	0.0000	87.0									
	2	2.0000	90.0000	90.0000	250.0000	87.0									
	3	1.0000	180.0000	180.0000	250.0000	87.0									
820	WBAP	US	32-36-38 N	97-10- 0 W	50.00	U	N	A	O	192.1	2810.81	TX	FORT WORTH		
820	WGGM	US	37-22-54 N	77-25-36 W	10.00	D	N	B	P	90.0	966.95	VA	CHESTER		
820	WGGM	US	37-22-54 N	77-25-36 W	1.00	N	D	B	P		287.82	VA	CHESTER	10.00	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	1.5800	39.5000	150.0000	260.0000	90.0									
	3	0.6400	79.0000	300.0000	260.0000	90.0									
820	KQIN	US	47-26-29 N	122-28-21 W	50.00	D	D	B	P		2121.07	WA	BURIEN-SEATTLE	70.71	
	1	1.0000	0.0000	0.0000	0.0000	87.0									
	2	2.0000	90.0000	135.0000	130.0000	87.0									
	3	1.0000	144.9999	270.0000	130.0000	87.0									
820	KQIN	US	47-26-29 N	122-28-21 W	10.00	N	D	B	P		920.26	WA	BURIEN-SEATTLE	31.62	
	1	1.0000	0.0000	0.0000	0.0000	87.0									
	2	2.0000	51.0000	135.0000	130.0000	87.0									
	3	1.0000	90.0000	270.0000	130.0000	87.0									
830	NEW	CA	55-13- 0 N	127-32- 0 W	10.00	N	D	B	P		895.91	BC	HAZELTON	31.62	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	1.0000	351.2000	180.0000	307.0000	90.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
830	NEW	CA	55-13- 0 N	127-32- 0 W	10.00	D	N	B	P	90.0	949.49	BC	HAZLETON		
830	NEW	CA	48-23-50 N	123-18-20 W	10.00	U	D	B	P		998.21	BC	VICTORIA	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9700		249.0000	90.0000	311.0000	90.0									
3	1.0000		138.0000	180.0000	311.0000	90.0									
830	NEW	CA	44-36-14 N	75-47-41 W	5.00	D	N	B	P	74.4	671.10	ON	BROCKVILLE		
830	NEW	CA	44-36-14 N	75-47-41 W	1.00	N	D	C	P		304.17	ON	BROCKVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000	74.4									
2	1.9700		-102.2000	90.0000	60.0000	74.4									
3	1.0000		157.6000	180.0000	60.0000	74.4									
830	831219	CA	52-40- 0 N	108-13- 0 W	1.00	N	D	B	P		312.08	SA	NORTH BATTLEFORD	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		257.5000	90.0000	335.5000	90.0									
830	NEW	CA	52-40- 0 N	108-13- 0 W	10.00	D	N	B	P	90.0	949.49	SA	NORTH BATTLEFORD		
830	KABN	US	61-34- 5 N	149-43-21 W	10.00	U	N	A	P	106.3	1000.03	AK	LONG ISLAND		
830	WMOB	US	30-45-49 N	88- 6-37 W	10.00	D	N	B	P	89.9	961.86	AL	CHICKASAW		
830	WMOB	US	30-45-49 N	88- 6-37 W	1.00	N	D	B	P		321.29	AL	CHICKASAW	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9300		105.8000	90.0000	43.3000	90.0									
3	0.9730		211.9000	180.0000	8.3000	90.0									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	WANL	US	33-16-57 N	85-47-26 W	5.00		D	N	B	66.8	647.75	P	AL LINEVILLE		
830	NEW	US	32-17-44 N	111- 2-12 W	50.00		D	D	B		1992.37	P	AZ TUCSON	70.71	
830	NEW	US	32-17-44 N	111- 2-12 W	1.00		N	D	B		281.64	P	AZ TUCSON	12.85	
830	NEW	US	40-36- 0 N	124- 9- 0 W	1.00		N	D	B		320.26	P	CA FORTUNA	10.00	
830	KNCO	US	39-10-58 N	121- 2-54 W	5.00		D	N	B	60.0	640.55	P	CA GRASS VALLEY		
830	KNCO	US	39-10-58 N	121- 2-54 W	1.00		N	D	B		288.64	P	CA GRASS VALLEY	10.00	
830	NEW	US	33-56-59 N	118- 3-20 W	50.00		D	D	B		2316.70	P	CA LA MIRADA	70.71	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.8700	91.5000	90.0000	275.0000	90.0	
1	0.4160	-145.5000	0.0000	0.0000	90.0	
2	1.0000	0.0000	90.0000	340.0000	90.0	
3	0.9000	145.9999	180.0000	340.0000	90.0	
4	0.3040	-68.5000	270.0000	340.0000	90.0	
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.6900	104.0000	100.0000	76.0000	90.0	
3	1.8770	208.0000	200.0000	76.0000	90.0	
1	1.0000	0.0000	0.0000	0.0000	60.0	
2	0.9000	-116.0000	60.0000	244.0000	60.0	
1	1.0000	0.0000	0.0000	0.0000	91.1	
2	1.0000	177.0000	180.0000	19.0000	91.1	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
830	USLA-2	US	33-56-59 N	118- 3-20 W	1.00	N	D	B	P		332.22	CA	LA MIRADA	10.00	
1	1.0000		0.0000	0.0000	0.0000	91.1									
2	1.9900		115.0000	90.0000	19.0000	121.4									
3	0.9500		213.9998	180.0000	19.0000	91.1									
830	NEW	US	32-51-49 N	116-55-55 W	10.00	D	N	B	P	60.8	905.88	CA	LAMESA		
830	USLA-1	US	32-51-49 N	116-55-55 W	2.50	N	D	B	P		466.15	CA	LAMESA	15.81	
1	1.0000		0.0000	0.0000	0.0000	60.8									
2	0.9000		90.5000	90.0000	50.0000	60.8									
830	NEW	US	34- 2- 0 N	118- 5-34 W	5.00	D	D	B	P		725.81	CA	LOS ANGELES	23.82	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.5000		180.0000	90.0000	10.0000	90.0									
830	NEW	US	34- 2- 0 N	118- 5-34 W	1.00	N	D	B	P		308.99	CA	LOS ANGELES	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.8300		85.0000	90.0000	50.0000	90.0									
830	KUDE	US	33-14-34 N	117-18- 3 W	2.50	D	N	B	P	75.9	489.71	CA	OCEANSIDE		
830	KUDE	US	33-14-34 N	117-18- 3 W	1.00	N	D	B	P		302.43	CA	OCEANSIDE	10.00	
1	1.0000		0.0000	0.0000	0.0000	75.9									
2	1.1000		95.0000	80.0000	50.0000	75.9									
830	NEW	US	33-14-23 N	117-18-54 W	1.00	D	N	B	P	70.0	286.46	CA	OCEANSIDE		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR / HRS DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
830	NEW	US	33-14-23 N	117-18-54 W	1.00	N	D	B	P		301.11	CA OCEANSIDE	10.00	
1	1.0000	0.0000	0.0000	0.0000	70.0									
2	1.1230	-107.3700	70.0000	230.0000	70.0									
830	NEW	US	33-49-40 N	117-51-31 W	2.50	D	N	B	P	90.0	483.47	CA ORANGE		
830	NEW	US	33-49-40 N	117-51-31 W	1.00	N	D	B	P		301.11	CA ORANGE	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0									
2	0.8200	-61.8000	120.0000	230.0000	90.0									
830	NEW	US	33-49-31 N	117- 0-17 W	50.00	D	D	B	P		2178.41	CA SAN JACINTO	70.71	
1	1.0000	0.0000	0.0000	0.0000	91.1									
2	1.0000	75.0000	80.0000	51.5000	91.1									
830	USSA-1	US	33-49-31 N	117- 0-17 W	5.00	N	D	B	P		698.09	CA SAN JACINTO	22.36	
1	1.0000	0.0000	0.0000	0.0000	91.1									
2	0.9800	103.0000	80.0000	51.5000	91.1									
830	NEW	US	33-11-14 N	117-10-15 W	1.00	D	N	B	P	70.0	286.46	CA SAN MARCOS		
830	USSA-2	US	33-11-14 N	117-10-15 W	1.00	N	D	B	P		301.11	CA SAN MARCOS	10.00	
1	1.0000	0.0000	0.0000	0.0000	70.0									
2	1.1230	-107.3700	70.0000	230.0000	70.0									
830	NEW	US	32-51-49 N	116-55-55 W	2.50	D	N	B	P	85.0	478.38	CA SANTEE		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
830	USSA-3	US	32-51-49 N	116-55-55 W	1.00	N	D	B	P		305.81	CA	SANTEE	10.00	
1	1.0000	-84.0000	0.0000	0.0000	85.0										
2	0.8500	0.0000	100.0000	50.0000	85.0										
830	NEW	US	26-45-19 N	81-48-50 W	5.00	D	D	B	P		699.31	FL	EAST FORT MYERS	23.43	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.9000	-123.0000	60.0000	155.0000	90.0										
830	NEW	US	26-45-19 N	81-48-50 W	1.00	N	D	B	P		312.78	FL	EAST FORT MYERS	10.50	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.9800	-123.0000	60.0000	155.0000	90.0										
830	NEW	US	25-50-36 N	80-23- 4 W	1.00	U	D	B	P		297.73	FL	HIALEAH	13.98	
1	1.0000	0.0000	0.0000	0.0000	85.0										
2	1.8400	-160.5000	90.0000	78.5000	85.0										
3	1.0000	39.0000	180.0000	78.5000	85.0										
830	NEW	US	28- 3- 5 N	82- 7- 7 W	10.00	D	N	B	P	90.0	966.95	FL	PLANT CITY		
830	NEW	US	28- 3- 5 N	82- 7- 7 W	1.00	N	D	B	P		323.40	FL	PLANT CITY	10.00	
1	0.5000	-78.2000	112.0000	136.5000	90.0										
2	1.0000	0.0000	0.0000	0.0000	90.0										
3	0.5000	75.8000	114.5000	316.5000	90.0										
830	NEW	US	25-45-49 N	80-29-19 W	1.00	U	D	B	P		307.38	FL	SWEETWATER	14.42	
1	1.0000	0.0000	0.0000	0.0000	88.0										
2	1.8400	-160.5000	90.0000	79.0000	88.0										
3	1.0000	39.1000	180.0000	79.0000	88.0										

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	KIKI-C	US	21-17-59 N	157-51-33 W	10.00		U	N	B	P	97.2	982.21	HI	HONOLULU		
830	KIKI-L	US	21-17-59 N	157-51-33 W	10.00		U	N	B	O	82.0	890.61	HI	HONOLULU		
830	NEW	US	36-41-17 N	86-34- 4 W	0.25		D	N	B	P	59.2	142.43	KY	FRANKLIN		
830	NEW	US	30- 2-26 N	90-26-42 W	1.00		D	N	B	P	79.0	297.73	LA	NORCO		
830	NEW	US	30- 2-26 N	90-26-42 W	0.50		N	D	B	P		221.99	LA	NORCO	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	79.0	
2	2.0800	126.7000	60.0000	352.0000	79.0	
3	1.0900	-106.7000	120.0000	352.0000	79.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	NEW	US	47- 0- 0 N	67-55- 0 W	10.00		D	N	B	P	90.0	966.95	ME	LORRING		
830	NEW	US	47- 0- 0 N	67-55- 0 W	1.00		N	D	B	P		360.49	ME	LORRING	13.05	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.6810	139.7000	100.0000	190.0000	90.0	
3	2.6810	-79.7000	200.0000	190.0000	90.0	
4	1.0000	60.0000	300.0000	190.0000	90.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	NEW	US	42-17- 1 N	84-57- 2 W	2.50		D	N	B	P	80.2	473.27	MI	MARSHALL		
830	WCCO	US	45-10-40 N	93-20-55 W	50.00		U	N	A	O	194.4	2833.57	MN	MINNEAPOLIS		
830	WCCO	US	45- 1-49 N	93-32-25 W	50.00		U	N	A	P		3492.23	MN	MINNEAPOLIS		

S7 A = 90.0 B = 270.0 C = 0.0 D = 0.0

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	KBOA	US	36-13-29 N	90- 4-31 W	1.00		D	N	B	O	119.7	325.09	MO	KENNETT		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	KBOA	US	36-13-29 N	90- 4-31 W	10.00	D	D	B	P		1011.91	MO	KENNETT	31.62	
1	1.0000		0.0000	0.0000	0.0000		119.6								
2	0.6450		-91.0000	90.0000	162.0000		90.0								
830	WJIK	US	34-44- 2 N	77-29-29 W	10.00	D	D	B	P		976.13	NC	CAMP LEJEUNE	31.62	
1	1.0000		0.0000	0.0000	0.0000		75.0								
2	2.1310		196.0000	90.0000	297.0000		75.0								
830	WJIK	US	34-44- 2 N	77-29-29 W	2.50	N	D	B	P		514.09	NC	CAMP LEJEUNE	15.81	
1	1.0000		0.0000	0.0000	0.0000		75.0								
2	2.7960		116.6600	90.0000	297.0000		75.0								
3	2.7960		233.8400	180.0000	297.0000		75.0								
4	1.0000		350.4998	270.0000	297.0000		75.0								
830	WCBX	US	36-31-21 N	79-45-55 W	1.00	D	N	B	P	89.9	304.17	NC	EDEN		
830	WCBX	US	36-31-21 N	79-45-55 W	1.00	N	D	B	P		322.14	NC	EDEN	8.90*	
1	0.5090		-108.8000	0.0000	0.0000		90.0								
2	1.0000		0.0000	90.0000	315.0000		90.0								
3	0.5090		108.8000	180.0000	315.0000		90.0								

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	119.6	
2	0.6450	-91.0000	90.0000	162.0000	90.0	
1	1.0000	0.0000	0.0000	0.0000	75.0	
2	2.1310	196.0000	90.0000	297.0000	75.0	
1	1.0000	0.0000	0.0000	0.0000	75.0	
2	2.7960	116.6600	90.0000	297.0000	75.0	
3	2.7960	233.8400	180.0000	297.0000	75.0	
4	1.0000	350.4998	270.0000	297.0000	75.0	
1	0.5090	-108.8000	0.0000	0.0000	90.0	
2	1.0000	0.0000	90.0000	315.0000	90.0	
3	0.5090	108.8000	180.0000	315.0000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	WNYC	US	40-35-47 N	74- 7-49 W	50.00		D	D	B	P	2032.60		NY NEW YORK	92.14	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	100.1	
2	0.2700	129.0000	100.0000	280.0000	100.1	
3	0.7430	-35.0000	200.0000	280.0000	100.1	
4	0.4090	-55.0000	200.0000	220.0000	100.1	
5	0.1490	109.0000	173.2051	190.0000	100.1	
6	0.5500	-20.0000	200.0000	160.0000	100.1	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	40.0	2349.6	10	220.0	40.0	4068.2
2	20.0	40.0	1512.8	11	240.0	40.0	2886.5
3	80.0	40.0	3860.5	12	260.0	20.0	927.2
4	100.0	40.0	3601.2	13	270.0	20.0	386.2
5	120.0	40.0	2069.0	14	300.0	20.0	275.2
6	140.0	40.0	895.2	15	310.0	20.0	584.2
7	160.0	40.0	931.0	16	320.0	20.0	1185.3
8	180.0	40.0	1814.9	17	340.0	40.0	2269.2
9	200.0	40.0	3128.8				

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	WNYC-	US	40-43-45 N	73-57-40 W	1.00		U	D	B	O	281.64		NY NEW YORK	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	91.1	
2	1.0000	45.0000	45.0000	352.5000	91.1	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

830	WNYC-A	US	40-35-47 N	74- 7-49 W	50.00		N	D	B	P		2185.49	NY	NEW YORK	70.71
1	0.2050		-108.0000	0.0000	0.0000		100.1								
2	0.5000		-20.0000	100.0000	280.0000		100.1								
3	0.3100		68.0000	200.0000	280.0000		100.1								
4	0.6200		88.0000	200.0000	220.0000		100.1								
5	1.0000		0.0000	173.2051	190.0000		100.1								
6	0.4100		-88.0000	200.0000	160.0000		100.1								

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	9.0	40.0	1470.6	15	259.0	10.0	86.9
2	29.0	40.0	3093.8	16	264.0	10.0	86.9
3	49.0	40.0	4917.8	17	269.0	10.0	86.9
4	74.0	50.0	5386.5	18	274.0	10.0	86.1
5	99.0	50.0	3588.2	19	279.0	10.0	82.1
6	124.0	50.0	2194.3	20	284.0	10.0	80.5
7	154.0	60.0	2523.5	21	289.0	10.0	80.5
8	184.0	50.0	1498.8	22	294.0	10.0	80.5
9	209.0	40.0	675.9	23	299.0	10.0	80.5
10	229.0	20.0	321.9	24	314.0	10.0	88.5
11	239.0	10.0	170.6	25	319.0	10.0	112.7
12	244.0	10.0	120.7	26	324.0	10.0	160.9
13	249.0	10.0	93.3	27	334.0	20.0	321.9
14	254.0	10.0	88.5	28	349.0	30.0	622.7

830	WNYC-L	US	40-43-45 N	73-57-40 W	1.00		U	D	B	O		308.99	NY	NEW YORK	10.00
1	1.0000		0.0000	0.0000	0.0000		92.3								
2	1.0000		45.0000	46.2000	110.0000		92.3								

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	57.0	82.0	321.9	3	141.0	86.0	273.6
2	98.0	82.0	289.7	4	233.0	30.0	402.3

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	NEW	US	41-17- 6 N	80-44-37 W	1.00		D	N	B	P	88.1	304.17	OH	CORTLAND		
830	NEW	US	45-56- 0 N	118-23- 0 W	5.00		D	N	B	P	90.0	683.73	OR	MILTON		
830	NEW	US	45-56- 0 N	118-23- 0 W	1.00		N	D	B	P		303.44	OR	MILTON	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	120.0
2	1.3500	15.0000	150.0000	85.0000	120.0
3	0.7300	7.0000	300.0000	85.0000	120.0
4	0.2400	0.0000	450.0000	85.0000	120.0

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	NEW	US	32-13- 9 N	81- 1-57 W	50.00		D	D	B	P		2111.70	SC	BLUFFTON	75.39	
830	NEW	US	32-13- 9 N	81- 1-57 W	1.00		N	D	B	P		320.90	SC	BLUFFTON	9.29*	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	78.9
2	0.9500	19.0000	220.0000	326.0000	78.9
3	1.4300	134.9999	90.0000	250.0000	78.9
4	1.3600	153.9999	257.1000	306.1000	78.9

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	NEW	US	32-13- 9 N	81- 1-57 W	1.00		N	D	B	P		320.90	SC	BLUFFTON	9.29*	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	78.9
2	1.9500	89.4000	110.0000	326.0000	78.9
3	1.0000	178.7999	220.0000	326.0000	78.9
4	0.8500	142.0000	90.0000	250.0000	78.9
5	1.6600	-128.6000	158.1000	292.5000	78.9
6	0.8500	-39.2000	257.1000	306.1000	78.9

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
830	NEW	US	32-58-41 N	80- 6-49 W	5.00		D	D	B	P		630.90	SC	HANAHAN	28.51	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	80.0
2	0.9380	155.7999	90.0000	297.0000	80.0
3	0.9230	-54.8000	180.0000	297.0000	80.0

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
830	NEW	US	32-58-41 N	80- 6-49 W	2.50	N	D	B	P		445.80	SC	HANAHAN	12.94*	
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	2.0560		115.0000	90.0000	297.0000	80.0									
3	1.1630		-129.5000	180.0000	297.0000	80.0									
830	NEW	US	32-48-58 N	80- 7-15 W	10.00	D	D	B	P		1034.58	SC	SAINT ANDREWS	33.15	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.3573		236.1300	90.0000	100.0000	90.0									
3	0.5525		105.0000	180.0000	100.0000	90.0									
830	USSA-4	US	32-48-58 N	80- 7-15 W	1.00	N	D	B	P		317.43	SC	SAINT ANDREWS	8.05*	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.5970		265.0999	90.0000	144.2700	90.0									
3	0.6400		170.0000	180.0000	144.2700	90.0									
830	NEW	US	27-47- 0 N	97-24- 0 W	2.50	D	N	B	P	90.0	483.47	TX	CORPUS CHRISTI		
830	NEW	US	27-47- 0 N	97-24- 0 W	1.00	N	D	B	P		319.13	TX	CORPUS CHRISTI	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9900		99.7000	90.0000	10.0000	90.0									
3	1.0000		199.4000	180.0000	10.0000	90.0									
830	NEW	US	29-20-52 N	100-52-32 W	1.00	D	N	B	P	89.0	305.78	TX	DEL RIO		
830	KEYH	US	30- 6- 4 N	95-28-18 W	50.00	D	D	B	P		2269.87	TX	SPRING	59.28*	
1	1.0000		0.0000	0.0000	0.0000	89.9									
2	1.6700		112.2000	85.0000	270.0000	89.9									
3	1.0400		-142.4000	175.0000	275.0000	89.9									
4	0.3700		115.9000	114.8000	317.5000	89.9									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNÉES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
830	KEYH	US	30- 6- 4 N	95-28-18 W	1.00	N	D	B	P		312.20	TX SPRING	10.89	
1	1.0000	0.0000	0.0000	0.0000	89.9									
2	1.6800	108.5000	85.0000	5.5000	89.9									
3	0.7200	-143.0000	170.0000	5.0000	89.9									
4	0.5400	-25.0000	183.3199	-22.5102	89.9									
5	0.7500	117.9999	85.0000	270.0000	89.9									
6	1.2600	-133.5000	114.8503	-42.5000	89.9									
840	NEW	CA	55- 8- 0 N	118-40- 0 W	10.00	D	N	B	P	90.0	946.59	AB GRANDE PRAIRIE		
840	NEW	CA	55- 8- 0 N	118-40- 0 W	10.00	N	D	B	P		1032.80	AB GRANDE PRAIRIE	31.80	
1	1.0000	0.0000	0.0000	0.0000	90.0									
2	1.5000	237.6000	90.0000	347.0000	90.0									
3	0.6399	115.5000	180.0000	347.0000	90.0									
840	NEW	CA	50-23- 8 N	127-26-54 W	10.00	D	N	B	P	80.0	946.59	BC PORT ALICE		
840	NEW	CA	50-23- 0 N	127-27- 0 W	0.50	N	N	B	P	80.0	217.24	BC PORT ALICE		
840	831219	CA	45-50- 0 N	64-18- 0 W	10.00	D	N	B	P	80.0	949.51	NS AMHERST		
840	NEW	CA	45-50- 0 N	64-18- 0 W	5.00	N	D	B	P		700.00	NS AMHERST	22.36	
1	1.0000	0.0000	0.0000	0.0000	80.0									
2	2.0000	266.2000	90.0000	70.0000	80.0									
3	1.0000	172.4000	180.0000	70.0000	80.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
840	830517	CA	46-16- 0 N	79-35- 0 W	1.00	N	D	B	P		337.96	ON	NORTH BAY	12.97	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.4800		225.0000	90.0000	15.0000	90.0									
3	2.4800		90.0000	180.0000	15.0000	90.0									
4	1.0000		315.0000	270.0000	15.0000	90.0									
840	NEW	CA	46-16- 0 N	79-35- 0 W	10.00	D	N	B	P	90.0	949.49	ON	NORTH BAY		
840	NEW	CA	49-37- 4 N	103-45- 3 W	10.00	D	N	B	P	80.0	946.59	SA	WEYBURN		
840	NEW	CA	49-37- 0 N	103-45- 0 W	2.50	N	D	B	P		506.81	SA	WEYBURN	16.10	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		257.6001	90.0000	308.5000	90.0									
3	1.0000		111.8750	149.8820	342.1250	90.0									
4	1.0000		214.2750	90.0000	15.7500	90.0									
840	NEW	US	55-21- 6 N	160-28- 2 W	0.25	U	N	A	P	60.3	143.23	AK	SAND POINT		
840	WWAX	US	30-42-41 N	88- 1-49 W	1.00	D	N	B	O	89.2	305.78	AL	MOBILE		
840	NEW	US	40-39-23 N	122-22-11 W	10.00	D	N	B	P	59.9	905.88	CA	CENTRAL VALLEY		
840	NEW	US	40-39-23 N	122-22-11 W	0.50	N	N	B	P	59.9	202.56	CA	CENTRAL VALLEY		
840	KBLC	US	39- 0-50 N	122-53-39 W	1.00	D	N	B	P		297.73	CA	LAKEPORT		
										T A = 61.4 B = 8.6 C = 0.0 D = 0.0					
840	KBLC	US	39- 0-50 N	122-53-39 W	0.50	N	N	B	P		149.08	CA	LAKEPORT		
										T A = 61.4 B = 8.6 C = 0.0 D = 0.0					

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
840	NEW	US	36-42-57 N	121-47-50 W	5.00	D	D	B	P		677.69	CA	MARINA	22.36	
	1.0000		0.0000	0.0000	0.0000		90.0								
	0.5000		-62.3000	115.0000	75.0000		90.0								
840	NEW	US	36-42-57 N	121-47-50 W	1.00	N	D	B	P		303.04	CA	MARINA	10.00	
	1.0000		0.0000	0.0000	0.0000		90.0								
	0.5000		-62.3000	115.0000	255.0000		90.0								
840	NEW	US	36-42- 1 N	119-31-54 W	10.00	D	N	B	P	53.2	890.61	CA	SANGER		
840	NEW	US	36-42- 1 N	119-31-54 W	0.50	N	N	B	P	53.2	199.15	CA	SANGER		
840	NEW	US	38-22-45 N	122-23-15 W	2.50	D	D	B	P		445.95	CA	YOUNTVILLE	15.81	
	1.0000		0.0000	0.0000	0.0000		90.0								
	0.7200		57.1000	150.0000	45.0000		90.0								
840	USYO-1	US	38-22-45 N	122-23-15 W	0.25	N	D	B	P		286.46	CA	YOUNTVILLE	10.00	
	1.0000		0.0000	0.0000	0.0000		90.0								
	0.5700		84.0000	150.0000	45.0000		90.0								
840	USYO-2	US	38-22-45 N	122-23-15 W	1.00	N	N	B	P	79.7	299.34	CA	YOUNTVILLE		
840	WRYM	US	41-41-15 N	72-43-46 W	1.00	D	N	B	O	77.5	297.73	CT	NEW BRITAIN		
840	NEW	US	28-39-30 N	81-13-26 W	5.00	D	N	B	P	86.1	676.54	FL	OVIEDO		
840	WHAS	US	38-15-40 N	85-25-40 W	50.00	U	N	A	O	201.1	2913.22	KY	LOUISVILLE		
840	NEW	US	48-22- 0 N	114-11- 0 W	10.00	D	N	B	P	90.0	966.95	MT	COLUMBIA FALLS		

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.5000	-62.3000	115.0000	75.0000	90.0	
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.5000	-62.3000	115.0000	255.0000	90.0	
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.7200	57.1000	150.0000	45.0000	90.0	
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.5700	84.0000	150.0000	45.0000	90.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGREES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
840	NEW	US	48-22- 0 N	114-11- 0 W	1.00	N	D	B	P		288.72	MT	COLUMBIA FALLS	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.9000		28.0000	160.0000	105.0000		90.0								
840	NEW	US	32-54- 0 N	105-57- 0 W	10.00	D	N	B	P	90.0	966.95	NM	ALAMOGORDO		
840	NEW	US	32-54- 0 N	105-57- 0 W	1.00	N	D	B	P		285.98	NM	ALAMOGORDO	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	1.0000		96.6000	90.0000	60.0000		90.0								
3	0.7000		121.9000	272.0000	85.9000		90.0								
4	0.7000		25.3000	195.0000	97.5000		90.0								
840	NEW	US	38-57- 9 N	119-42- 4 W	10.00	D	N	B	P	90.0	966.95	NV	GARDNERVILLE		
840	NEW	US	38-57- 9 N	119-42- 4 W	1.00	N	D	B	P		289.86	NV	GARDNERVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.6000		20.0000	160.0000	90.0000		90.0								
840	NEW	US	36- 7- 4 N	114-59-52 W	50.00	D	D	B	P		2031.80	NV	NORTH LAS VEGAS	70.71	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.5700		-3.0000	180.0000	40.0000		90.0								
840	NEW	US	36- 7- 4 N	114-59-52 W	25.00	N	D	B	P		1471.55	NV	NORTH LAS VEGAS	50.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.6700		42.0000	227.0000	7.5000		90.0								
3	1.0000		91.0000	90.0000	85.0000		90.0								
4	0.6700		133.0000	261.6730	27.1200		90.0								

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
840	KSWB	US	45-58-55 N	123-55- 2 W	1.00	D	N	B	P				284.85 OR SEASIDE		
						T A = 58.4 B = 7.6 C = 0.0 D = 0.0									
840	KSWB	US	45-58-55 N	123-55- 2 W	0.50	N	N	B	P				201.42 OR SEASIDE		
						T A = 58.4 B = 7.6 C = 0.0 D = 0.0									
840	WVPO	US	40-58-26 N	75-11-43 W	0.25	D	N	B	O	76.9			143.23 PA STROUDSBURG		
840	WXEW	US	18- 2-58 N	65-52- 7 W	5.00	D	N	B	P				654.95 PR YABUCOA		
						T A = 55.3 B = 14.7 C = 0.0 D = 0.0									
840	WXEW	US	18- 2-58 N	65-52- 7 W	1.00	N	D	B	P				301.11 PR YABUCOA		11.72*
1	1.0000	0.0000	0.0000	0.0000		T A = 55.3 B = 14.7 C = 0.0 D = 0.0									
2	1.1230	107.3700	70.0000	285.0000		T A = 55.3 B = 14.7 C = 0.0 D = 0.0									
840	NEW	US	26- 1- 7 N	97-28-22 W	2.50	D	D	B	P				446.27 TX BROWNSVILLE		15.81
1	1.0000	0.0000	0.0000	0.0000	45.0										
2	0.2420	-94.1550	82.2200	188.9700	45.0										
3	0.4480	-55.8100	151.7600	220.7500	45.0										
4	0.2460	-94.1100	83.9800	230.2900	45.0										
5	0.2870	84.4400	85.4600	34.8900	45.0										
840	NEW	US	26- 1- 7 N	97-28-22 W	2.50	N	D	B	P				456.89 TX BROWNSVILLE		15.81
1	1.0000	0.0000	0.0000	0.0000	45.0										
2	0.3140	-96.0300	82.2200	188.9700	45.0										
3	0.1000	-59.5600	151.7600	220.7500	45.0										
4	0.2940	-94.8600	83.9800	230.2900	45.0										
5	0.3420	83.6900	85.4600	34.8900	45.0										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
840	NEW	US	26-12-58 N	98- 8-52 W	50.00	D	D	B	P		2156.49	TX	PHARR	70.71	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.7500		-33.5000	227.5000	175.0000	90.0									
3	0.7500		95.5000	90.0000	100.0000	90.0									
4	0.5600		62.0000	265.4330	155.8800	90.0									
840	NEW	US	26-12-58 N	98- 8-52 W	1.00	N	D	B	P		318.25	TX	PHARR	10.00	
1	0.6270		-97.5000	0.0000	0.0000	90.0									
2	1.0000		0.0000	90.0000	38.5000	90.0									
3	0.4010		97.5000	180.0000	38.5000	90.0									
840	NEW	US	38-48-36 N	77-11-48 W	2.50	D	N	B	P	87.3	445.25	VA	ANNADALE		
840	KTAC	US	47-13-56 N	122-23-22 W	10.00	D	D	B	P		947.90	WA	FIFE	31.62	
1	1.0000		0.0000	0.0000	0.0000	79.9									
2	1.0000		45.0000	89.0000	353.0000	79.9									
840	KTAC	US	47-13-56 N	122-23-22 W	1.00	N	D	B	P		307.38	WA	FIFE	10.00	
1	1.0000		0.0000	0.0000	0.0000	79.9									
2	0.2500		265.0000	89.0000	294.0000	79.9									
3	0.1500		199.9999	89.0000	353.0000	79.9									
860	NEW	CA	49-30-49 N	117-15-52 W	1.00	U	D	B	P		310.60	BC	NELSON	13.96	
1	1.0000		0.0000	0.0000	0.0000	60.0									
2	0.8000		-157.0000	60.0000	190.0000	60.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)									
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
860	CFPR	CA	54-17- 8 N	130-22-28 W	10.00	U	D	A	O		917.33	BC	PRINCE RUPERT	33.56*	96
1	1.0000	0.0000	0.0000	0.0000	84.8										
2	1.5000	150.0000	73.6160	55.0000	84.8										
860	NEW	CA	54-17- 8 N	130-22-28 W	10.00	D	N	B	P	84.8	2951.73	BC	PRINCE RUPERT		
860	NEW	CA	54-17- 8 N	130-22-28 W	2.50	N	N	B	P	84.8	737.93	BC	PRINCE RUPERT		97
860	CBH	CA	44-38- 9 N	63-41-46 W	10.00	D	N	B	O	90.0	941.50	NS	HALIFAX		
860	CBH	CA	44-38- 9 N	63-41-46 W	10.00	N	D	B	O		997.79	NS	HALIFAX	31.62	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.0000	90.0000	90.0000	269.5000	90.0										
860	CHAK	CA	68-20-41 N	133-40-59 W	1.00	U	N	B	O	60.0	297.73	NT	INUVIK		
860	CJBC	CA	43-34-30 N	79-49- 3 W	50.00	U	N	A	O	202.9	2970.12	ON	TORONTO		
860	CBKF2	CA	52-15- 0 N	106-39-33 W	10.00	D	D	B	O		933.42	SA	SASKATOON	31.62	
1	1.0000	0.0000	0.0000	0.0000	88.0										
2	0.7500	45.0000	135.0000	273.0000	88.0										
860	CBKF2	CA	52-15- 0 N	106-39-33 W	10.00	N	D	B	O		1005.84	SA	SASKATOON	31.62	
1	1.0000	0.0000	0.0000	0.0000	88.0										
2	1.1000	199.0000	90.0000	3.0000	88.0										
3	0.9000	45.0000	135.0000	273.0000	88.0										
4	0.7000	226.0000	161.0000	307.0000	88.0										
860	WHRT	US	34-27- 9 N	86-56-26 W	0.25	D	N	B	O	70.5	147.25	AL	HARTSELLE		

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	WHRT	US	34-27- 9 N	86-56-26 W	1.00	N	N	B	P	81.8	300.95	AL	HARTSELLE		
860	WAMI	US	31-18-54 N	86-15-45 W	1.00	D	N	B	O	79.9	289.68	AL	OPP		
860	KOSE	US	35-41- 3 N	89-58-57 W	1.00	D	N	B	O	125.9	288.07	AR	OSCEOLA		
860	KOSE	US	35-41- 3 N	89-58-57 W	1.00	N	N	B	P	125.9	288.07	AR	OSCEOLA		
860	KWRF	US	33-37-59 N	92- 3-51 W	0.25	D	N	B	O	78.7	144.84	AR	WARREN		
860	KIFN	US	33-24-16 N	112- 7-24 W	1.00	D	N	B	O	78.7	289.68	AZ	PHOENIX		
860	KIFN	US	33-24-11 N	112- 7-23 W	1.00	N	D	B	P		333.13	AZ	PHOENIX	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	78.7
2	0.5740	-104.7000	79.2000	143.8000	78.7
3	0.4630	-175.6000	197.6000	2.3000	78.7

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

860	KIFN	US	33-24-11 N	112- 7-23 W	1.00	N	D	B	P		316.88	AZ	PHOENIX	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	78.7
2	0.7090	-110.2000	87.0000	122.7000	78.7
3	0.5610	-128.6000	219.4000	358.7000	78.7

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

860	KTRB	US	37-40-17 N	120-58-43 W	10.00	D	D	B	O		965.61	CA	MODESTO	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	2.0000	41.6000	160.0000	243.0000	90.0

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	213.0	10.0	482.8

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
2	273.0	10.0	482.8

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	KTRB	US	37-42-32 N	120-43-27 W	10.00		D	D	B	P		961.42	CA	MODESTO	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	88.1	
2	0.7900	-14.0000	80.0000	255.0000	88.1	
3	0.5600	-87.5000	160.0000	255.0000	88.1	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	KTRB	US	37-42-32 N	120-43-27 W	50.00		D	N	B	P	90.0	2162.16	CA	MODESTO		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	KTRB	US	37-42-32 N	120-43-27 W	1.00		N	D	B	P		333.13	CA	MODESTO	19.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	88.1	
2	2.8000	-150.0000	80.0000	255.0000	88.1	
3	2.8000	60.0000	160.0000	255.0000	88.1	
4	1.0000	-90.0000	240.0000	255.0000	88.1	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	KTRB	US	37-40-17 N	120-58-43 W	1.00		N	D	B	0		291.29	CA	MODESTO	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	-100.0000	0.0000	0.0000	90.0	
2	1.6500	8.4000	160.0000	63.0000	90.0	
3	1.0000	100.0000	320.0000	63.0000	90.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	30.0	64.4	7	147.0	88.0	122.3
2	15.0	30.0	72.4	8	191.0	88.0	528.5
3	33.0	18.0	112.7	9	243.0	104.0	386.2
4	42.0	18.0	168.0	10	295.0	86.0	528.5
5	63.0	42.0	180.9	11	338.0	14.0	144.8
6	93.0	60.0	98.2	12	345.0	14.0	83.7

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	KTRB	US	37-42-32 N	120-43-27 W	10.00	N	D	B	P			969.24 CA MODESTO	57.07	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
	1	1.0000	45.0000	0.0000	0.0000	90.0								
	2	2.8000	255.0000	80.0000	255.0000	90.0								
	3	2.8000	-255.0000	160.0000	255.0000	90.0								
	4	1.0000	-45.0000	240.0000	255.0000	90.0								
860	WAMA	US	27-58-20 N	82-43-41 W	0.50	D	D	B	O			215.65 FL CLEARWATER	13.60	
	1	1.0000	0.0000	0.0000	0.0000	88.0								
	2	1.9700	170.2000	90.0000	86.0000	88.0								
	3	1.5600	-34.7000	180.0000	86.0000	88.0								
	4	0.6320	121.0000	270.0000	86.0000	88.0								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	55.0	10.0	120.7	8	176.0	22.0	20.0
2	70.0	30.0	135.2	9	176.0	10.0	20.1
3	86.0	20.0	150.9	10	187.0	22.0	24.1
4	86.0	10.0	151.9	11	221.0	46.0	233.4
5	96.0	18.0	151.3	12	315.0	10.0	193.1
6	131.0	12.0	115.9	13	315.0	10.0	214.3
7	154.0	44.0	90.1	14	342.0	10.0	20.1

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	WKKO	US	28-21- 8 N	80-45-37 W	1.00	D	N	B	O	81.8		291.29 FL COCOA		
860	WKKO	US	28-21- 8 N	80-45-37 W	0.25	N	N	B	P	81.8		150.47 FL COCOA		
860	NEW	US	26- 3-41 N	80-18- 1 W	1.00	D	D	B	P			321.80 FL COOPER CITY	13.28	
	1	1.0000	0.0000	0.0000	0.0000	80.0								
	2	1.9940	-126.4450	60.0000	175.0000	80.0								
	3	1.0000	-252.8900	120.0000	175.0000	80.0								

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	NEW	US	26- 3-41 N	80-18- 1 W	1.00	N	D	B	P		312.94	FL	COOPER CITY	12.92	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	78.7	
2	1.9940	-126.4450	60.0000	175.0000	78.7	
3	1.0000	-252.8900	120.0000	175.0000	78.7	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	WAMA	US	27-59-55 N	82-42- 1 W	0.50	U	D	B	O		214.09	FL	DUNEDIN	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	88.1	
2	1.9600	67.0000	127.5000	31.5000	88.1	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	WAEC	US	33-47-27 N	84-25-23 W	1.00	D	N	B	O	78.7	299.34	GA	ATLANTA		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	WAEC	US	33-47-27 N	84-25-23 W	5.00	D	N	B	P	78.7	669.34	GA	ATLANTA		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	WDMG	US	31-30-26 N	82-48-46 W	5.00	D	N	B	O	78.5	669.34	GA	DOUGLAS		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	WDMG	US	31-30-26 N	82-48-46 W	5.00	N	D	B	O		659.83	GA	DOUGLAS	25.00*	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	-246.5000	0.0000	0.0000	78.5	
2	2.6900	-82.1000	90.0000	88.5000	78.5	
3	2.6900	82.1000	180.0000	88.5000	78.5	
4	1.0000	246.4999	270.0000	88.5000	78.5	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	8.5	10.0	33.8	10	280.0	23.0	1485.4
2	28.5	31.0	29.0	11	292.0	24.0	1295.4
3	28.5	10.0	37.0	12	304.0	22.0	1013.9
4	44.0	31.0	177.0	13	315.0	22.0	692.0
5	168.5	29.0	33.8	14	326.0	22.0	426.5
6	183.5	30.0	35.4	15	337.0	22.0	160.9
7	237.0	16.0	1124.0	16	348.5	23.0	28.2
8	257.0	23.0	1504.2	17	348.5	10.0	33.8
9	268.5	23.0	1552.8				

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	KWPC	US	41-26-43 N	91- 4-36 W	0.25	D	N	B	O	78.7	144.84	IA	MUSCATINE		
860	KWPC	US	41-26-43 N	91- 4-36 W	0.25	N	N	B	P	78.7	149.67	IA	MUSCATINE		
860	WGOM	US	40-33-12 N	85-38-45 W	1.00	D	D	B	P		292.18	IN	MARION	10.00	

NO. DE TOUR / TOWER NUMBER — DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGREES) / PHASING (DEGREES)	ESPACEMENT (DEGREES) / SPACING (DEGREES)	ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	94.5
2	1.0000	47.0000	126.5000	58.0000	65.0

860	WGOM	US	40-33-12 N	85-38-45 W	0.25	D	D	B	O		144.84	IN	MARION	10.00	

1	1.0000	-42.0000	0.0000	0.0000	63.0
2	0.9400	0.0000	160.0000	30.0000	94.4

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	0.0	40.0	25.7	3	65.0	10.0	32.2
2	65.0	30.0	29.0	4	170.0	70.0	177.0

860	WGOM	US	40-33-12 N	85-38-45 W	0.50	N	D	B	P		239.15	IN	MARION	10.91	

1	1.0000	0.0000	0.0000	0.0000	90.0
2	1.9760	-132.5000	60.0000	210.0000	90.0
3	1.0000	-265.0000	120.0000	210.0000	90.0

860	KKOW	US	37-24-46 N	94-38-16 W	10.00	D	N	B	O	91.3	972.04	KS	PITTSBURG		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	KKOW	US	37-24-46 N	94-38-16 W	5.00	N	D	B	O		672.71	KS	PITTSBURG	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	-101.0000	0.0000	0.0000	91.3
2	1.9850	0.0000	90.0000	20.0000	91.3
3	1.0000	101.0000	180.0000	20.0000	91.3

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	20.0	46.0	31.4	7	220.0	60.0	1207.0
2	20.0	10.0	32.2	8	265.0	70.0	949.5
3	66.0	18.0	46.7	9	300.0	44.0	370.1
4	110.0	70.0	510.2	10	328.0	12.0	56.3
5	155.0	70.0	1158.7	11	334.0	12.0	47.5
6	190.0	60.0	1239.2	12	357.0	46.0	34.6

860	WSON	US	37-49-36 N	87-33- 0 W	0.50	D	N	B	O	157.4	218.49	KY	HENDERSON		

860	WSON	US	37-49-36 N	87-33- 0 W	0.50	N	D	B	P		246.23	KY	HENDERSON	10.00	

1	1.0000	0.0000	0.0000	157.0
2	0.8700	-95.0000	90.0000	204.0000	88.0

860	WSBS	US	42-12-53 N	73-20-45 W	0.25	D	N	B	O	79.0	149.67	MA	GREAT BARRINGTON		

860	WAYE	US	39-18-47 N	76-29-27 W	2.50	C	D	B	P		463.23	MD	BALTIMORE	15.81	

1	1.0000	0.0000	0.0000	0.0000	90.0
2	1.0000	23.5000	170.0000	330.0000	90.0
3	0.9500	131.7000	178.7900	354.3300	90.0
4	0.9500	108.2000	74.0000	65.5000	90.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

860	WAYE	US	39-18-47 N	76-29-27 W	5.00	D	D	B	P		653.73	MD	BALTIMORE	22.36	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.6800		0.0000	170.0000	330.0000		90.0								
3	0.6560		107.8000	178.7900	354.3300		90.0								
4	0.9650		107.8000	74.0000	65.5000		90.0								
860	WAYE	US	39-18-43 N	76-29-26 W	1.00	D	D	B	O		292.90	MD	BALTIMORE	14.03	
1	1.0000		0.0000	0.0000	0.0000		75.5								
2	0.6600		143.3000	74.0000	40.0000		75.5								
3	0.5520		-143.3000	74.0000	220.0000		75.5								

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	2.0	44.0	64.4	5	78.0	44.0	66.0
2	24.0	32.0	41.0	6	130.0	60.0	69.2
3	40.0	32.0	45.1	7	310.0	60.0	64.4
4	56.0	32.0	41.8	8	340.0	44.0	96.6

860	KNUJ	US	44-17-10 N	94-25-50 W	1.00	D	N	B	O	102.3	313.82	MN	NEW ULM		
860	KNUJ	US	44-17-10 N	94-25-50 W	1.00	N	D	B	P		320.26	MN	NEW ULM	10.00	
1	0.5100		-109.4000	0.0000	0.0000		90.0								
2	1.0000		0.0000	90.0000	54.0000		90.0								
3	0.5100		109.4000	180.0000	54.0000		90.0								
860	NEW	US	45-46- 0 N	111-13- 0 W	1.00	U	N	B	P	90.0	305.78	MT	BELGRADE		
860	WFMO	US	34-31- 3 N	79- 6-19 W	1.00	D	N	B	O	99.2	302.56	NC	FAIRMONT		
860	WFMO	US	34-31- 3 N	79- 6-19 W	0.25	N	N	B	P	99.2	151.28	NC	FAIRMONT		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
860	WQXZ	US	35-55-57 N	81-10-19 W	0.25	D	N	B	O	78.7	148.86	NC	TAYLORSVILLE		
860	KARS	US	34-41-43 N	106-46-13 W	0.25	D	N	B	P		168.98	NM	BELEN		
										T A = 82.0 B = 57.0 C = 0.0 D = 0.0					
860	KISD	US	42-18-36 N	122-48-41 W	1.00	D	N	B	O	88.1	305.78	OR	MEDFORD		
860	NEW	US	44- 4- 0 N	123- 2- 0 W	1.00	U	N	B	P	90.0	305.78	OR	SPRINGFIELD		
860	WTEL	US	40- 9-15 N	75-22-10 W	10.00	D	D	B	O		973.65	PA	PHILADELPHIA	35.75	*

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	-40.5000	0.0000	0.0000		T A = 81.8 B = 12.6 C = 0.0 D = 0.0
2	2.6000	106.0000	70.0000	300.0000		T A = 81.8 B = 12.6 C = 0.0 D = 0.0
3	2.6000	-106.0000	140.0000	-60.0000		T A = 81.8 B = 12.6 C = 0.0 D = 0.0
4	1.0000	40.5000	210.0000	-60.0000		T A = 81.8 B = 12.6 C = 0.0 D = 0.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
860	WTEL	US	40- 9-15 N	75-22-10 W	0.25	N	N	B	P	90.0	153.69	PA	PHILADELPHIA		
860	WAMO	US	40-29-27 N	79-58-55 W	1.00	D	D	B	O		308.99	PA	PITTSBURGH	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	88.9
2	0.9000	96.0000	90.0000	330.0000	88.9

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	10.0	40.0	69.2	9	200.0	50.0	464.8
2	30.0	40.0	169.0	10	225.0	50.0	393.2
3	55.0	50.0	302.7	11	250.0	50.0	279.6
4	80.0	40.0	415.3	12	280.0	60.0	122.3
5	100.0	40.0	464.8	13	310.0	40.0	32.2
6	120.0	40.0	481.7	14	330.0	40.0	38.6
7	150.0	50.0	488.2	15	350.0	40.0	32.2
8	175.0	50.0	487.6				

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	WAMO	US	40-29-27 N	79-58-55 W	1.00	U	D	B	P		308.99	PA	PITTSBURGH	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	88.9	
2	0.9000	96.0000	90.0000	330.0000	88.9	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	10.0	40.0	69.2	9	200.0	50.0	464.8
2	30.0	40.0	169.0	10	225.0	50.0	393.2
3	55.0	50.0	302.7	11	250.0	50.0	279.6
4	80.0	40.0	415.3	12	280.0	60.0	122.3
5	100.0	40.0	464.8	13	310.0	40.0	32.2
6	120.0	40.0	481.7	14	330.0	40.0	38.6
7	150.0	50.0	488.2	15	350.0	40.0	32.2
8	175.0	50.0	487.6				

860	WLBG	US	34-30-13 N	82- 1- 6 W	1.00	D	N	B	O	86.4	291.29	SC	LAURENS		
860	WLBG	US	34-30-13 N	82- 1- 6 W	1.00	N	D	B	P		302.96	SC	LAURENS	10.00	
1	1.0000		0.0000	0.0000	0.0000		81.8								
2	0.9500		37.0000	148.0000	10.0000		81.8								
860	WUCR	US	35-55-20 N	85-26-50 W	1.00	D	N	B	O	78.7	289.68	TN	SPARTA		
860	KFST	US	30-52-37 N	102-53-30 W	0.25	D	N	B	O	83.4	150.47	TX	FORT STOCKTON		
860	KPAN	US	34-47-58 N	102-25-40 W	0.25	D	N	B	O	85.0	149.67	TX	HEREFORD		
860	KPAN	US	34-47-33 N	102-25-45 W	0.25	N	N	B	P	85.0	152.08	TX	HEREFORD		
860	KSFA	US	31-36-40 N	94-37-50 W	1.00	D	N	B	O	88.1	305.78	TX	NACOGDOCHES		
860	KSFA	US	31-36-41 N	94-37-47 W	0.25	N	N	B	P	88.1	152.89	TX	NACOGDOCHES		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	KONO	US	29-26-14 N	98-25-19 W	5.00	D	N	B	O	88.1	683.73	TX	SAN ANTONIO		
860	KONO	US	29-26-14 N	98-25-19 W	2.50	N	D	B	P		486.02	TX	SAN ANTONIO	15.81	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.7000	35.0000	150.0000	56.0000	90.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	KONO	US	29-26-14 N	98-25-19 W	1.00	N	D	B	O		289.68	TX	SAN ANTONIO	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.8500	-10.0000	0.0000	0.0000	88.1	
2	0.5000	10.0000	185.0000	0.0000	88.1	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	0.0	27.0	194.7	13	184.0	20.0	148.1
2	13.5	27.0	181.2	14	194.0	20.0	160.9
3	21.0	10.0	144.8	15	265.0	26.0	498.9
4	27.0	26.0	153.2	16	278.0	26.0	461.9
5	33.5	13.0	159.8	17	286.0	10.0	433.8
6	40.0	10.0	185.1	18	291.0	10.0	373.4
7	50.0	20.0	220.5	19	303.0	34.0	281.6
8	60.0	20.0	305.8	20	320.0	26.0	160.9
9	75.0	30.0	418.4	21	326.5	13.0	148.4
10	90.0	30.0	489.2	22	333.0	26.0	153.2
11	109.0	14.0	466.4	23	346.5	27.0	175.9
12	170.0	28.0	156.1				

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	KWHO	US	40-42-47 N	111-55-53 W	1.00	D	N	B	O	88.1	305.78	UT	SALT LAKE CITY		
860	KWHO	US	40-42-47 N	111-55-53 W	1.00	N	D	B	P		307.38	UT	SALT LAKE CITY	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	106.0	
2	1.0000	0.0000	166.0000	50.0000	106.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) / RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
860	WEVA	US	36-41-56 N	77-32-55 W	1.00	D	N	B	O		284.85	VA	EMPORIA		
										T A = 75.5 B = 0.0 C = 0.0 D = 0.0					
860	WEVA	US	36-41-56 N	77-32-55 W	1.00	N	N	B	P	75.5	284.85	VA	EMPORIA		
860	WNOV	US	43- 2-20 N	87-54-17 W	0.25	D	N	B	O	80.9	140.82	WI	MILWAUKEE		
860	WNOV	US	43- 2-20 N	87-54-17 W	0.25	N	D	B	P		140.01	WI	MILWAUKEE	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	2.0000	263.0000	90.0000	260.0000	90.0
3	1.0000	166.0000	180.0000	260.0000	90.0

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

860	WOAY	US	37-57-30 N	81- 9- 3 W	5.00	C	N	B	O	215.0	629.76	WV	OAK HILL		
860	WOAY	US	37-57-30 N	81- 9- 3 W	10.00	D	N	B	O	215.0	890.61	WV	OAK HILL		
860	WOAY	US	37-57-30 N	81- 9- 3 W	10.00	U	N	B	P	215.0	890.61	WV	OAK HILL		
870	NEW	CA	53-52- 0 N	122-38- 0 W	10.00	D	N	B	P	90.0	3002.62	BC	PRINCE GEORGE		
870	NEW	CA	53-52- 0 N	122-38- 0 W	10.00	N	D	B	P		885.14	BC	PRINCE GEORGE	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	1.0000	5.0000	160.0000	138.0000	90.0

870	NEW	CA	47-32-59 N	65-44- 8 W	10.00	D	N	B	P	80.0	946.59	NB	BATHURST		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
870	NEW	CA	47-33- 0 N	65-44- 0 W	10.00		N	D	B			P	988.38 NB BATHURST	37.00	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	1.0000	201.1000	90.0000	333.6001	90.0									
	3	1.0000	106.7000	110.9430	25.5500	90.0									
	4	1.0000	265.6001	90.0000	77.5000	90.0									
870	NEW	CA	48-31-34 N	58-29-28 W	0.50		U	N	B		57.4	P	205.97 NF STEPHENVILLE		
870	NEW	CA	45-45- 2 N	77-12- 2 W	10.00		D	D	B			P	965.61 ON PEMBROKE	31.62	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.5000	229.0000	98.0000	45.0000	90.0									
870	NEW	CA	45-45- 0 N	77-12- 0 W	5.00		N	D	B			P	631.52 ON PEMBROKE	22.36	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	1.9871	270.0500	98.0000	45.0000	90.0									
	3	1.9871	270.0500	294.0000	45.0000	90.0									
	4	1.0000	180.1000	392.0000	45.0000	90.0									
870	831102	CA	46-31- 0 N	84-24- 0 W	10.00		D	D	B			P	960.20 ON SAULT STE MARIE	31.62	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	2.0000	-90.0000	90.0000	15.0000	90.0									
	3	1.0000	180.0000	180.0000	15.0000	90.0									
870	831102	CA	46-31- 0 N	84-24- 0 W	3.00		N	D	B			P	580.12 ON SAULT STE MARIE	22.38	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	2.1721	231.5400	90.0000	15.0000	90.0									
	3	2.1721	91.8600	180.0000	15.0000	90.0									
	4	1.0000	323.4000	270.0000	15.0000	90.0									

LOT DOES NOT AGREE w/425

LOT DOES NOT AGREE w/425

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
870	831102	CA	48-22- 0 N	89-24-30 W	4.00	N	D	B	P		560.73	ON	THUNDER BAY	20.00	
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	1.9600		-54.0000	140.0000	5.0000	80.0									
3	1.0000		-107.4500	280.0000	5.0000	80.0									
870	NEW	CA	48-22- 0 N	89-24-30 W	10.00	D	N	B	P	80.0	946.59	ON	THUNDER BAY		55
870	NEW	CA	47-45- 0 N	71-15- 0 W	10.00	D	N	B	P	90.0	965.62	QU	QUEBEC		
870	NEW	CA	47-45- 0 N	71-15- 0 W	10.00	N	D	B	P		1030.21	QU	QUEBEC	31.98	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		212.3700	90.0000	337.0000	90.0									
3	1.0000		116.7700	150.0990	10.5000	90.0									
4	1.0000		264.3999	90.0000	44.0000	90.0									
870	KSKO	US	62-56-51 N	155-33-18 W	5.00	D	N	B	O		676.54	AK	MCGRATH		
										T A = 39.8 B = 45.2 C = 0.0 D = 0.0					
870	KSKO	US	62-56-51 N	155-33-18 W	5.00	U	N	A	P		676.54	AK	MCGRATH		
										T A = 39.8 B = 45.2 C = 0.0 D = 0.0					
870	NEW	US	36- 9- 0 N	109-33- 0 W	10.00	D	N	B	P	90.0	966.95	AZ	CHINLE		
870	NEW	US	36- 9- 0 N	109-33- 0 W	1.00	N	D	B	P		360.49	AZ	CHINLE	13.05	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6810		139.7000	100.0000	15.0000	90.0									
3	2.6810		-79.7000	200.0000	15.0000	90.0									
4	1.0000		60.0000	300.0000	15.0000	90.0									

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
870	KIEV	US	34- 8-14 N	118-13-36 W	5.00		D	N	B	O	89.2	629.76	CA	GLENDALE		
870	KIEV	US	34- 5- 7 N	118-12- 6 W	1.00		N	D	B	P		312.21	CA	GLENDALE	10.14	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.4	
2	0.8160	-120.0000	60.0000	280.0000	90.4	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
870	KAIM	US	21-10-56 N	57-13-27 W	50.00		U	D	B	O		2381.83	HI	HONOLULU	70.71	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	92.3	
2	0.9200	100.0000	70.0000	51.0000	92.3	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
870	NEW	US	43-31- 0 N	111-59- 0 W	1.00		N	D	B	P		360.49	ID	IDAHO FALLS	13.05	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.6810	139.7000	100.0000	184.0000	90.0	
3	2.6810	-79.7000	200.0000	184.0000	90.0	
4	1.0000	60.0000	300.0000	184.0000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
870	NEW	US	38-56-46 N	84-36-44 W	0.25		D	N	B	P	76.4	148.06	KY	FLORENCE		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
870	WWL	US	29-50-14 N	90- 7-55 W	50.00		U	D	A	O		2798.65	LA	NEW ORLEANS	72.49	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	182.1	
2	1.2500	67.0000	138.0000	180.0000	182.1	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	60.0	3629.9	9	180.0	70.0	1028.1
2	30.0	60.0	4017.6	10	180.0	10.0	1032.8
3	60.0	30.0	4474.4	11	215.0	30.0	758.0
4	75.0	30.0	4303.3	12	230.0	25.0	1094.4
5	90.0	30.0	3744.3	13	242.5	25.0	1979.5
6	117.5	25.0	1941.3	14	270.0	55.0	3780.2
7	130.0	25.0	1094.4	15	300.0	60.0	4470.7
8	145.0	30.0	515.0	16	330.0	60.0	4071.6

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
870	WKAR	US	42-42-19 N	84-28-30 W	10.00	D	D	B	O		949.51	MI	EAST LANSING	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	95.6
2	0.4000	-134.0000	80.0000	330.0000	95.6

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)

TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	96.0	48.0	675.9
2	175.0	50.0	724.2
3	204.0	58.0	675.9

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
870	KPRM	US	46-54-18 N	95- 1- 4 W	2.50	D	N	B	P	77.7	470.75	MN	PARK RAPIDS		
870	KPRM	US	46-54-18 N	95- 1- 4 W	1.00	N	D	B	P		311.89	MN	PARK RAPIDS	10.00	
1	0.5000	-98.5000	0.0000	0.0000	77.7										
2	1.0000	0.0000	90.0000	165.0000	77.7										
3	0.5000	91.5000	180.0000	165.0000	77.7										
870	NEW	US	40-15-16 N	94- 9-26 W	0.25	D	N	B	P	93.9	154.50	MO	WEST HAMPTON		
870	WGTL	US	35-26-13 N	80-36-21 W	1.00	D	N	B	O	79.6	299.34	NC	KANNAPOLIS		
870	NEW	US	35-10- 0 N	114-34-37 W	10.00	D	D	B	P		897.92	NV	LAUGHLIN	31.62	
1	1.0000	-16.0000	0.0000	0.0000	89.0										
2	1.0530	-7.8000	188.0000	90.0000	89.0										
3	0.3600	16.0000	376.0000	90.0000	89.0										
870	NEW	US	35-10- 0 N	114-34-37 W	1.00	N	D	B	P		283.20	NV	LAUGHLIN	10.00	
1	1.0000	-3.0000	0.0000	0.0000	89.0										
2	1.9950	5.8000	188.0000	90.0000	89.0										
3	1.0000	3.0000	376.0000	90.0000	89.0										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
870	WHCU	US	42-27-54 N	76-22-23 W	5.00	D	N	B	O	110.5	712.52	NY	ITHACA		
870	WHCU-A	US	42-25- 5 N	76-35-11 W	2.50	N	D	B	P		506.01	NY	ITHACA	15.81	50
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9810		102.3499	90.0000	225.5000	90.0									
3	1.0050		204.3499	180.0000	225.5000	90.0									
870	WHCU-C	US	42-27-53 N	76-22-24 W	0.50	N	D	B	P		199.56	NY	ITHACA	10.00	
1	1.0000		0.0000	0.0000	0.0000	110.0									
2	1.0000		117.8000	70.0000	222.2000	70.0									
870	WHCU-L	US	42-27-54 N	76-22-23 W	1.00	N	N	B	O	110.5	318.65	NY	ITHACA		
870	NEW	US	45-51-42 N	122-48-24 W	1.00	D	N	B	P	90.0	305.78	OR	SAINT HELENS		
870	NEW	US	45-51-42 N	122-48-24 W	0.25	N	N	B	P	90.0	152.89	OR	SAINT HELENS		
870	WVOZ	US	18-22-17 N	66-12-17 W	5.00	U	D	B	O		656.61	PR	SAN JUAN	22.36	
1	1.0000		0.0000	0.0000	0.0000	67.0									
2	1.1500		104.0000	80.0000	280.0000	67.0									

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	45.0	102.0	981.7	5	262.0	10.0	80.5
2	100.0	106.0	1086.3	6	300.0	10.0	80.5
3	153.0	96.0	997.8	7	354.0	102.0	563.3
4	201.0	96.0	635.7				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
870	NEW	US	44-21- 0 N	103-46- 0 W	1.00	N	D	B	P		320.26	SD	LEAD	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6900		104.0000	100.0000	165.0000	90.0									
3	1.8770		208.0000	200.0000	165.0000	90.0									
870	NEW	US	36- 3-24 N	86-47- 0 W	0.50	D	N	B	P	89.2	216.22	TN	BRENTWOOD		
870	NEW	US	36-25-35 N	82-29-28 W	5.00	D	N	B	P	60.5	640.55	TN	COLONIAL HEIGHTS		
870	KJIM	US	32-45-42 N	97-18-49 W	0.25	D	N	B	O	90.1	152.89	TX	FORT WORTH		
870	WFLO	US	37-18-38 N	78-23-13 W	1.00	D	N	B	O	108.3	318.65	VA	FARMVILLE		
870	KORD	US	46-13-39 N	119- 7-46 W	10.00	D	N	B	P	83.7	951.68	WA	PASCO		
870	KORD	US	46-13-39 N	119- 7-46 W	0.25	N	N	B	P	83.7	150.47	WA	PASCO		
870	831114	US	43-27-19 N	89-45-13 W	0.25	N	D	B	P		157.43	WI	BARABOO	10.00	
1	1.0000		0.0000	0.0000	0.0000	82.9									
2	1.9760		223.1900	60.0000	0.0000	82.9									
3	1.0000		86.3700	120.0000	0.0000	82.9									
870	WRPQ	US	43-27-19 N	89-45-13 W	5.00	D	N	B	P		672.94	WI	BARABOO		

T A = 82.9 B = 8.1 C = 0.0 D = 0.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
870	WRPQ	US	43-27-19 N	89-45-13 W	1.00	N	D	B	P		329.43	WI	BARABOO	11.36*	51
1	1.0000		0.0000	0.0000	0.0000					T A = 82.9 B = 8.1 C = 0.0 D = 0.0					
2	2.8800		-113.7720	90.0000	0.0000					T A = 82.9 B = 8.1 C = 0.0 D = 0.0					
3	2.8800		132.2870	180.0000	0.0000					T A = 82.9 B = 8.1 C = 0.0 D = 0.0					
4	1.0000		18.8160	270.0000	0.0000					T A = 82.9 B = 8.1 C = 0.0 D = 0.0					
870	NEW	US	44-25-16 N	88- 2-52 W	10.00	D	D	B	P		1068.56	WI	DE PERE	36.33	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	2.3790		233.0300	90.0000	355.0000		90.0								
3	2.1410		105.0300	180.0000	355.0000		90.0								
4	0.7290		338.0499	270.0000	355.0000		90.0								
870	NEW	US	44-25-16 N	88- 2-52 W	1.00	N	D	B	P		337.90	WI	DE PERE	11.49	52
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	2.3790		233.0300	90.0000	355.0000		90.0								
3	2.1410		105.0300	180.0000	355.0000		90.0								
4	0.7290		338.0499	270.0000	355.0000		90.0								
870	NEW	US	42-58-58 N	89-22-32 W	1.00	D	D	B	P		290.33	WI	MADISON	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.4870		11.0000	175.0000	60.0000		90.0								
3	1.4120		93.0000	90.0000	115.0000		90.0								
4	0.6880		104.0000	238.3100	78.0200		90.0								
870	NEW	US	42-58-58 N	89-22-32 W	1.00	N	D	B	P		292.90	WI	MADISON	10.00	53
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	2.8570		100.5300	100.0000	182.5000		90.0								
3	2.8570		201.4799	200.0000	182.5000		90.0								
4	1.0000		302.0000	300.0000	182.5000		90.0								

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
870	WMNE	US	44-50-18 N	91-56-38 W	2.50	D	N	B	P	90.0	483.47	WI	MENOMONIE		
870	WMNE	US	44-50-18 N	91-56-38 W	1.00	N	D	B	P		321.23	WI	MENOMONIE	10.00	54
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9670		254.1099	90.0000	355.5000	90.0									
3	1.0000		148.2100	180.0000	355.5000	90.0									
870	KUUY	US	41- 3- 9 N	104-49-53 W	10.00	D	N	B	P	90.0	966.95	WY	ORCHARD VALLEY		
870	KUUY	US	41- 3- 9 N	104-49-53 W	1.00	N	D	B	P		318.01	WY	ORCHARD VALLEY	10.00	
1	0.5040		98.8210	0.0000	0.0000	90.0									
2	1.0000		0.0000	90.0000	310.0000	90.0									
3	0.5040		-98.8210	180.0000	310.0000	90.0									
880	NEW	CA	53-27-55 N	113-19-50 W	50.00	D	N	B	P	90.0	2162.96	AB	EDMONTON		54a
880	NEW	CA	53-27-55 N	113-19-50 W	50.00	N	D	B	P		2162.96	AB	EDMONTON	74.17	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9500		138.0000	90.0000	155.0000	90.0									
3	1.0000		-93.0000	180.0000	155.0000	90.0									
880	NEW .	CA	49- 9-56 N	121-50- 1 W	10.00	D	N	B	P	80.0	946.59	BC	CHILLIWACK		56
880	NEW	CA	49-10- 0 N	121-50- 0 W	10.00	N	D	B	P		935.03	BC	CHILLIWACK	31.62	56
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	0.9651		268.3000	165.0000	303.0000	80.0									
3	0.3000		200.5000	330.0000	303.0000	80.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
880	831219	CA	49-37-11 N	99-48-19 W	10.00	N	D	B	P		873.25	MB	BRANDON	31.62	
1	1.0000		0.0000	0.0000	0.0000		80.0								
2	0.9199		-34.0000	150.0000	290.0000		80.0								
3	0.8000		-90.0000	90.0000	0.0000		80.0								
4	0.7500		-118.0000	199.6000	315.1001		80.0								
880	NEW	CA	49-37-11 N	99-48-19 W	10.00	D	D	B	P		932.61	MB	BRANDON	31.62	
1	1.0000		0.0000	0.0000	0.0000		80.0								
2	2.0000		-90.0000	90.0000	0.0000		80.0								
880	830302	CA	48-35- 0 N	93-21- 0 W	10.00	D	N	B	P	90.0	949.49	ON	FORT FRANCES		
880	830302	CA	48-35- 0 N	93-21- 0 W	2.50	N	D	B	P		519.82	ON	FORT FRANCES	19.46	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	2.8401		225.0000	90.0000	7.5000		90.0								
3	2.8401		90.6000	180.0000	7.5000		90.0								
4	1.0000		315.6001	270.0000	7.5000		90.0								
880	NEW	US	61-12- 0 N	149-55- 0 W	10.00	D	N	B	P	90.0	966.95	AK	ANCHORAGE		
880	NEW	US	61-12- 0 N	149-55- 0 W	1.00	N	N	B	P	90.0	305.78	AK	ANCHORAGE		
880	NEW	US	32-13- 0 N	110-58- 0 W	10.00	D	N	B	P	90.0	966.95	AZ	TUCSON		
880	NEW	US	32-13- 0 N	110-58- 0 W	1.00	N	D	B	P		309.48	AZ	TUCSON	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.4000		90.0000	90.0000	63.0000		90.0								

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
880	NEW	US	36-32-57 N	121-28-26 W	5.00		D	D	B		649.05	P	CA GONZALES	22.36	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000	60.0									
	2	0.5000	100.0000	60.0000	60.0000	60.0									
880	NEW	US	36-32-57 N	121-28-26 W	1.00	N	D	B	P		290.16		CA GONZALES	10.00	
	1	1.0000	0.0000	0.0000	0.0000	60.0									
	2	0.5000	100.0000	60.0000	60.0000	60.0									
880	NEW	US	34- 5-34 N	83-30- 5 W	5.00	D	N	B	P	72.1	658.54		GA JEFFERSON		
880	KSPT	US	48-18-24 N	116-32-27 W	10.00	D	N	B	P	64.4	964.40		ID SANDPOINT		
880	KSPT	US	48-18-24 N	116-32-27 W	1.00	N	N	B	P	64.4	304.97		ID SANDPOINT		
880	WINU	US	38-45-23 N	89-39-18 W	5.00	D	D	B	P		635.69		IL HIGHLAND	22.36	
	1	1.0000	-117.0000	0.0000	0.0000	90.0									
	2	0.9000	0.0000	70.0000	45.0000	90.0									
	3	0.2000	116.9999	140.0000	45.0000	90.0									
880	WINU	US	38-45-23 N	89-39-18 W	0.25	N	D	B	P		140.82		IL HIGHLAND	10.00	
	1	1.0000	-212.0000	0.0000	0.0000	90.0									
	2	2.6120	-71.0600	70.0000	45.0000	90.0									
	3	2.6120	71.0600	140.0000	45.0000	90.0									
	4	1.0000	211.9999	210.0000	45.0000	90.0									
880	WEAK	US	37- 4-30 N	88- 4-41 W	1.00	D	N	B	P	80.5	300.95		KY EDDYVILLE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
880	NEW	US	32-35-57 N	93-37-46 W	10.00	D	D	B	P		1034.33	LA	SHREVEPORT	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.1	
2	1.3000	153.9999	90.0000	45.0000	90.1	
3	1.0000	249.9999	180.0000	45.0000	90.1	

880	NEW	US	32-35-57 N	93-37-46 W	5.00	N	D	B	P		738.85	LA	SHREVEPORT	22.36	

1	1.0000	0.0000	0.0000	0.0000	90.1	
2	2.8200	116.6000	90.0000	45.0000	90.1	
3	2.9200	228.0000	180.0000	45.0000	90.1	
4	1.0000	333.9999	270.0000	45.0000	90.1	

880	NEW	US	44-46-12 N	94- 7-34 W	0.50	D	N	B	P	63.4	204.84	MN	GLENCOE		
880	KJJR	US	48-25-21 N	114-16-44 W	50.00	D	N	C	P	93.4	2173.54	MT	WHITEFISH		
880	KJJR	US	48-23-44 N	114-19-11 W	0.50	N	N	C	P	93.4	217.35	MT	WHITEFISH		
880	WRRZ	US	34-58-40 N	78-18-15 W	1.00	D	N	B	D	103.0	315.43	NC	CLINTON		
880	KRVN	US	40-31- 3 N	99-23-20 W	50.00	D	N	B	D	96.6	2196.30	NE	LEXINGTON		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
880	KRVN	US	40-31- 3 N	99-23-20 W	50.00	N	D	B	O		2253.08	NE	LEXINGTON	17.50*	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.1500	179.0000	0.0000	0.0000	96.6	
2	0.6700	-90.0000	100.0000	81.0000	96.6	
3	1.0000	0.0000	200.0000	81.0000	96.6	
4	0.5000	88.0000	300.0000	81.0000	96.6	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	27.0	56.0	225.3	9	216.0	45.0	3950.9
2	55.0	16.0	51.5	10	238.5	45.0	4021.8
3	63.0	14.0	40.2	11	261.0	45.0	4022.2
4	70.0	14.0	37.0	12	283.5	45.0	4021.5
5	98.0	34.0	40.2	13	306.0	45.0	3935.0
6	134.0	72.0	212.4	14	328.5	45.0	3249.9
7	171.0	45.0	1746.2	15	351.0	45.0	1707.8
8	193.5	45.0	3216.9				

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
880	NEW	US	40- 9-37 N	118-27-22 W	1.00	D	N	B	P	62.8	288.07	NV	LOVELOCK		
880	NEW	US	40- 9-37 N	118-27-22 W	0.25	N	N	B	P	62.8	144.04	NV	LOVELOCK		
880	WCBS	US	40-51-35 N	73-47- 9 W	50.00	U	N	A	O		3015.64	NY	NEW YORK		

T - A = 167.8 B = 39.3 C = 0.0 D = 0.0

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
880	WRFD	US	40- 9-32 N	83- 0-36 W	50.00	D	D	B	P		2349.64	OH	COLUMBUS-WORTHINGT	122.31	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.7290	-146.0000	0.0000	0.0000	89.9	
2	1.0000	0.0000	80.0000	350.0000	89.9	
3	0.6110	146.8000	160.0000	350.0000	89.9	
4	0.1430	-69.4000	240.0000	350.0000	89.9	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
880	WRFD	US	40- 9-32 N	83- 0-36 W	5.00	D	N	B	O	177.1	842.07	OH	COLUMBUS-WORTHINGT		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
880	KWIP	US	44-55-45 N	123-17-22 W	5.00	D	N	B	P		645.95	OR	DALLAS		
										T A = 64.3 B = 25.6 C = 0.0 D = 0.0					
880	KWIP	US	44-55-45 N	123-17-22 W	1.00	N	N	B	P		288.88	OR	DALLAS		
										T A = 64.3 B = 25.6 C = 0.0 D = 0.0					
880	KISD	US	42-18-36 N	122-48-41 W	1.00	U	N	B	P	90.2	305.78	OR	PHOENIX		
880	NEW	US	18- 4-13 N	66-59- 8 W	1.00	U	D	B	P		283.57	PR	SABANA GRANDE	10.24	
1	1.0000		0.0000	0.0000	0.0000	60.0									
2	1.5400		163.7499	70.0000	250.0000	60.0									
3	0.9550		144.9999	97.5000	160.7500	60.0									
880	NEW	US	36-12-43 N	86-49- 9 W	2.50	D	N	B	P	78.3	470.75	TN	NASHVILLE		
880	NEW	US	36- 9-48 N	83-19-28 W	10.00	D	D	B	P		918.60	TN	WHITE PINE	37.35	
1	1.0000		0.0000	0.0000	0.0000	61.2									
2	0.8000		145.0000	60.0000	345.0000	61.2									
880	NEW	US	25-54- 0 N	97-30- 0 W	1.00	N	D	B	P		320.26	TX	BROWNSVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6900		104.0000	100.0000	24.0000	90.0									
3	1.8770		208.0000	200.0000	24.0000	90.0									
880	KIKR	US	30-17-38 N	95-25-55 W	10.00	D	D	B	P		983.31	TX	CONROE	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.8300		-100.0000	80.0000	330.0000	90.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
880	KIKR	US	30-17-38 N	95-25-55 W	0.50	N	D	B	P		201.17	TX	CONROE	10.00	
1	0.8400		-119.0000	0.0000	0.0000		90.0								
2	1.0000		0.0000	70.0000	72.0000		90.0								
880	NEW	US	30-56- 4 N	95-52-52 W	5.00	D	D	B	P		660.47	TX	MADISONVILLE	22.36	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.8500		56.0000	135.0000	43.0000		90.0								
880	NEW	US	30-56- 4 N	95-52-52 W	0.50	N	D	B	P		208.89	TX	MADISONVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.8500		56.0000	135.0000	43.0000		90.0								
880	NEW	US	31-51- 0 N	102-23- 0 W	1.00	N	D	B	P		360.49	TX	ODESSA	13.05	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	2.6810		139.7000	100.0000	28.0000		90.0								
3	2.6810		-79.7000	200.0000	28.0000		90.0								
4	1.0000		60.0000	300.0000	28.0000		90.0								
880	KIXI	US	47-34-59 N	122-10-52 W	50.00	D	D	B	P		2223.78	WA	MERCER ISLAND	70.71	
1	1.0000		0.0000	0.0000	0.0000		77.6								
2	2.0000		110.0000	87.7500	106.0000		77.6								
3	1.0000		207.0000	174.1800	105.5000		77.6								
880	KIXI	US	47-34-59 N	122-10-52 W	1.00	N	D	B	P		314.03	WA	MERCER ISLAND	10.00	
1	1.0000		0.0000	0.0000	0.0000		77.6								
2	2.0000		110.0000	87.7500	106.0000		77.6								
3	1.0000		207.0000	174.1800	105.5000		77.6								

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
890	NEW	CA	49- 5- 0 N	117-50- 0 W	1.00		D	N	B	P	60.0	289.68	BC	TRAIL		
890	NEW	CA	49- 5- 0 N	117-50- 0 W	1.00		N	D	C	P		289.68	BC	TRAIL	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	60.0
2	0.7500	-100.0000	80.0000	290.0000	60.0

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
890	NEW	CA	52- 7- 0 N	122- 0- 0 W	10.00		D	N	B	P	90.0	949.49	BC	WILLIAMS LAKE		
890	NEW	CA	52- 7- 0 N	120- 0- 0 W	10.00		N	D	B	P		1014.50	BC	WILLIAMS LAKE	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	1.5701	246.2000	90.0000	326.5000	90.0
3	0.6399	132.4000	180.0000	326.5000	90.0

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
890	NEW	CA	47-19- 0 N	68-25- 0 W	5.00		D	N	B	P	90.0	643.75	NB	EDMUNDSTON		
890	NEW	CA	47-19- 0 N	68-25- 0 W	2.50		N	D	B	P		499.81	NB	EDMUNDSTON	15.81	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	1.9861	252.6000	90.0000	18.0000	90.0
3	1.0000	145.1000	180.0000	18.0000	90.0

LOT DOES NOT AGREE W/425

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
890	NEW	CA	50-13-52 N	107-41-56 W	10.00		D	N	B	P	80.0	946.59	SA	SWIFT CURRENT		
890	NEW	CA	50-14- 0 N	107-42- 0 W	2.50		N	D	B	P		499.99	SA	SWIFT CURRENT	15.81	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	1.9500	247.0000	90.0000	329.0000	90.0
3	1.0000	134.0000	180.0000	329.0000	90.0

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
890	NEW	US	51-55- 0 N	176-33- 0 W	0.25		U	N	B	O	98.0	155.30	AK	ADAK		

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL / CT	PY / US	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
890	NEW	US	37-22- 0 N	121-47- 0 W	1.00	D	N	B	P	90.0	305.78	CA	SAN JOSE		
890	NEW	US	37-22- 0 N	121-47- 0 W	1.00	N	D	B	P		360.49	CA	SAN JOSE	13.05	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.6810	139.7000	100.0000	45.0000	90.0										
3	2.6810	-79.7000	200.0000	45.0000	90.0										
4	1.0000	60.0000	300.0000	45.0000	90.0										
890	NEW	US	33-41-45 N	84-34- 0 W	2.50	D	N	B	P	86.0	475.84	GA	COLLEGE PARK		
890	WLS	US	41-33-21 N	87-50-54 W	50.00	U	N	A	0	189.3	2788.05	IL	CHICAGO		
890	WQDY	US	45-10-55 N	67-15-59 W	1.00	U	D	B	P		360.49	ME	CALAIS	13.05	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.6810	139.7000	100.0000	328.0000	90.0										
3	2.6810	-79.7000	200.0000	328.0000	90.0										
4	1.0000	60.0000	300.0000	328.0000	90.0										
890	NEW	US	32-24-22 N	90- 5-24 W	0.50	D	N	B	P	89.9	215.08	MS	RIDGELAND		
890	830302	US	46- 8- 0 N	112-55- 0 W	1.00	N	D	B	P		360.49	MT	ANACONDA	13.05	57
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.6810	139.7000	100.0000	161.5000	90.0										
3	2.6810	-79.7000	200.0000	161.5000	90.0										
4	1.0000	60.0000	300.0000	161.5000	90.0										
890	NEW	US	46- 8- 0 N	112-55- 0 W	10.00	D	N	B	P	90.0	966.95	MT	ANACONDA		
890	WHNC	US	36-20-45 N	78-22-35 W	1.00	D	N	B	0	90.2	305.78	NC	HENDERSON		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
890	NEW	US	32-18-42 N	106-46-42 W	10.00	D	N	B	P	90.0	966.95	NM	LAS CRUCES		
890	NEW	US	32-18-42 N	106-46-42 W	1.00	N	D	B	P		321.23	NM	LAS CRUCES	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9700		105.9000	90.0000	41.0000	90.0									
3	1.0000		211.8000	180.0000	41.0000	90.0									
890	KBYE	US	35-33-59 N	97-28-28 W	1.00	D	N	B	D	160.6	315.43	OK	OKLAHOMA CITY		
890	NEW	US	43-44- 0 N	124- 4- 0 W	10.00	D	N	B	P	90.0	966.95	OR	REEDSPORT		
890	NEW	US	43-44- 0 N	124- 4- 0 W	1.00	N	D	B	P		309.48	OR	REEDSPORT	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.6000		90.0000	90.0000	70.0000	90.0									
890	WQTW	US	40-18- 7 N	79-21-56 W	1.00	D	N	B	P	49.5	278.42	PA	LATROBE		
890	KVOZ	US	27-36-42 N	99-26- 3 W	10.00	D	N	B	P	86.3	956.77	TX	DEL MAR HILLS		
890	KVOZ	US	27-36-42 N	99-26- 3 W	1.00	N	D	B	P		313.19	TX	DEL MAR HILLS	10.00	
1	1.0000		-92.0000	0.0000	0.0000	84.6									
2	1.9950		4.6000	100.0000	30.0000	84.6									
3	1.0000		92.0000	200.0000	30.0000	84.6									
890	KDXU	US	37- 8-43 N	113-27-52 W	10.00	D	N	B	P	81.6	928.78	UT	SAINT GEORGE		
890	KDXU	US	37- 8-43 N	113-27-52 W	10.00	N	D	B	P		981.70	UT	SAINT GEORGE	31:62	
1	1.0000		0.0000	0.0000	0.0000	81.6									
2	1.9897		91.5000	100.0000	70.0000	81.6									
3	1.0000		180.0000	200.0000	70.0000	81.6									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
890	NEW	US	37- 2-51 N	113-51-40 W	50.00	D	N	B	P	90.1	2162.16	UT	SAINT GEORGE		
890	USSA-1	US	37- 2-51 N	113-51-40 W	10.00	N	D	B	P		999.56	UT	SAINT GEORGE	31.62	
1	0.6250		-90.0000	0.0000	0.0000	90.1									
2	1.0000		0.0000	90.0000	70.0000	90.1									
3	0.4000		90.0000	180.0000	70.0000	90.1									
990	NEW	CA	54-18-59 N	130- 9-52 W	10.00	D	N	B	P	80.0	946.59	BC	PRINCE RUPERT		
990	NEW	CA	54-19- 0 N	130-10- 0 W	10.00	N	D	B	P		1002.11	BC	PRINCE RUPERT	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9900		263.0000	90.0000	269.0000	90.0									
3	1.0000		166.0000	180.0000	269.0000	90.0									
990	CBW	CA	49-31-14 N	97-58-30 W	50.00	U	N	A	O	216.0	3015.70	MB	WINNIPEG		
990	CBY	CA	48-55-58 N	57-54-26 W	10.00	U	N	A	O	81.5	933.41	NF	CORNER BROOK		
990	NEW	CA	45-16-19 N	73-44-52 W	50.00	D	D	B	P		2684.39	QU	MONTREAL	76.78	
1	1.0000		0.0000	0.0000	0.0000	195.0									
2	0.7000		-60.0000	237.0000	303.0000	195.0									
3	0.5180		-150.0000	253.5130	323.7939	195.0									
4	0.7400		-90.0000	90.0000	33.0000	195.0									
990	NEW	CA	45-16-19 N	73-44-52 W	50.00	D	D	B	P		2105.02	QU	MONTREAL	70.71	
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	0.5000		-90.0000	90.0000	50.0000	80.0									

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL /	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
990	NEW	CA	45-16-19 N	73-44-52 W	50.00		N	D	B	P		2697.26	QU MONTREAL	86.84	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	215.0	
2	2.0000	-50.9200	237.0000	303.0000	215.0	
3	1.0000	-101.8400	474.0001	303.0000	215.0	
4	1.0000	-198.9900	482.4690	313.7510	215.0	
5	2.0000	-148.0700	253.5130	323.7939	215.0	
6	1.0000	-97.1500	90.0000	33.0000	215.0	

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL /	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
990	NEW	CA	45-16-19 N	73-44-52 W	25.00		N	D	B	P		1488.64	QU MONTREAL	50.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	1.0000	-63.1000	249.1000	307.0000	80.0	
3	0.8999	-161.5000	245.1000	328.0000	80.0	
4	0.8999	-98.4000	90.0000	50.0000	80.0	

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL /	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
990	WEIS	US	34- 9-10 N	85-40-44 W	0.25	D	N	B	O	87.0	152.08	AL	CENTRE		
990	WWWF	US	33-41- 6 N	87-49-16 W	1.00	D	N	B	O		302.56	AL	FAYETTE		
										T A = 78.9 B = 6.0 C = 0.0 D = 0.0					
990	WWWF	US	33-41- 6 N	87-49-16 W	0.25	N	N	B	P	83.0	151.28	AL	FAYETTE		
990	WPIK	US	31- 0-22 N	87-16-42 W	2.50	D	N	B	P	87.0	480.93	AL	FLOMATON		
990	KTKT	US	32-15-19 N	111- 0-32 W	10.00	D	D	B	O		987.33	AZ	TUCSON	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	70.0	
2	0.6800	219.9999	120.0000	35.0000	70.0	
3	0.2750	207.0000	125.6660	89.5700	70.0	
4	0.1500	342.0000	172.0000	120.0000	70.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

990	KTKT	US	32-15-19 N	111- 0-32 W	1.00	N	D	B	O		292.90	AZ	TUCSON	10.00	
1	1.0000		0.0000	0.0000	0.0000		70.0								
2	0.7500		44.0000	172.0000	300.0000		70.0								
3	0.5620		154.9998	244.0820	-44.8866		70.0								
4	0.7500		111.0000	90.0000	345.0000		70.0								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	14.0	75.6	10	267.0	10.0	67.6
2	7.5	15.0	85.3	11	280.0	26.0	67.6
3	15.0	15.0	91.7	12	300.0	36.0	57.9
4	22.5	15.0	95.0	13	318.0	24.0	40.2
5	30.0	15.0	109.4	14	330.0	18.0	40.2
6	37.5	15.0	137.9	15	339.0	14.0	41.8
7	45.0	15.0	178.6	16	339.0	10.0	57.9
8	52.5	15.0	222.1	17	346.0	14.0	48.3
9	267.0	26.0	48.3	18	353.0	14.0	62.8

990	KTKT	US	32-15-19 N	111- 0-32 W	1.00	N	D	B	P		285.71	AZ	TUCSON	10.00	
1	1.0000		0.0000	0.0000	0.0000		70.0								
2	1.8630		36.0000	172.0000	300.0000		70.0								
3	4.4340		151.0000	244.0800	315.1100		70.0								
4	2.3800		115.0000	90.0000	345.0000		70.0								

990	KKIS	US	38- 4-49 N	121-50-33 W	5.00	D	D	B	O		692.02	CA	PITTSBURG	30.68	
1	1.0000		0.0000	0.0000	0.0000		85.5								
2	0.5800		196.0000	90.0000	61.0000		85.5								
3	0.7200		40.0000	180.0000	61.0000		85.5								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	4.0	10.0	241.4	4	161.0	38.0	1041.2
2	30.0	16.0	771.4	5	241.0	10.0	289.7
3	92.0	16.0	804.0	6	341.0	10.0	762.8

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

990	KKIS	US	38- 4-49 N	121-50-33 W	5.00	N	D	B	O				753.17	CA	PITTSBURG	25.01

1	0.5260	-130.0000	0.0000	0.0000	85.5
2	1.0000	0.0000	90.0000	61.0000	85.5
3	0.5260	130.0000	180.0000	61.0000	85.5

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	6.0	14.0	53.8	10	71.0	20.0	156.1
2	13.5	16.0	50.7	11	90.0	30.0	83.7
3	21.0	10.0	56.3	12	102.0	50.0	56.3
4	27.5	13.0	91.7	13	130.0	50.0	48.3
5	34.0	13.0	119.1	14	182.0	66.0	917.3
6	39.0	10.0	128.7	15	300.0	70.0	925.4
7	45.0	12.0	148.1	16	346.0	20.0	75.6
8	51.0	12.0	157.7	17	352.0	10.0	46.7
9	61.0	10.0	177.0	18	359.0	14.0	49.9

990	KKIS	US	38-10-56 N	121-53-26 W	25.00	N	D	B	P				1488.64	CA	PITTSBURG	50.00

1	1.0000	0.0000	0.0000	0.0000	110.0
2	3.3230	-0.9000	142.3000	169.3000	110.0
3	1.1750	102.6000	317.2000	169.3000	110.0
4	1.7770	58.8000	134.0000	81.5000	110.0
5	3.8650	89.8000	185.7000	130.4000	110.0
6	0.4930	66.2000	329.6000	152.2000	110.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

990 KBLS US 34-28-15 N 119-40-33 W 1.00 D D B O 304.97 CA SANTA BARBARA 10.00

1	1.0000	0.0000	0.0000	0.0000	90.0
2	0.9410	-90.0000	90.0000	295.0000	90.0

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	25.0	58.0	334.7	6	205.0	10.0	333.4
2	54.0	32.0	185.1	7	250.0	90.0	461.6
3	70.0	10.0	109.4	8	295.0	90.0	498.6
4	160.0	90.0	201.2	9	340.0	90.0	482.8
5	160.0	10.0	209.2				

990 KBLS US 34-28-15 N 119-40-33 W 5.00 N D B P 737.08 CA SANTA BARBARA 24.81

1	1.0000	0.0000	0.0000	0.0000	90.0
2	1.9000	124.0000	90.0000	43.0000	90.0
3	1.1000	-98.0000	180.0000	43.0000	90.0

990 KRKS US 39-41- 4 N 105- 4- 4 W 5.00 D N B O 178.3 633.35 CO DENVER

990 NEW US 39-41- 0 N 105- 4- 0 W 1.00 N N B P 90.0 305.78 CO DENVER

990 WNTY US 41-35- 0 N 72-53- 3 W 0.50 D D B O 217.26 CT SOUTHINGTON 10.00

1	1.0000	111.0000	0.0000	0.0000	90.0
2	0.6000	0.0000	90.0000	304.0000	90.0

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	4.0	60.0	289.7	7	165.0	10.0	98.2
2	34.0	52.0	217.3	8	190.0	50.0	136.8
3	60.0	50.0	136.8	9	217.0	54.0	225.3
4	85.0	50.0	95.9	10	244.0	54.0	289.2
5	124.0	78.0	115.2	11	304.0	60.0	338.0
6	165.0	50.0	96.6				

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
990	NEW	US	25-41-53 N	80-22-10 W	5.00	U D B P		648.57	FL	MIAMI	51.67*	
1	1.0000		-59.1000	0.0000	0.0000		T A = 90.5 B = 39.8 C = 0.0 D = 0.0					
2	3.2100		108.1000	100.0000	257.0000		T A = 90.5 B = 39.8 C = 0.0 D = 0.0					
3	5.1000		-84.4000	200.0000	257.0000		T A = 90.5 B = 39.8 C = 0.0 D = 0.0					
4	5.1000		84.4000	300.0000	257.0000		T A = 90.5 B = 39.8 C = 0.0 D = 0.0					
5	3.2100		-108.1000	400.0000	257.0000		T A = 90.5 B = 39.8 C = 0.0 D = 0.0					
6	1.0000		59.1000	500.0000	257.0000		T A = 90.5 B = 39.8 C = 0.0 D = 0.0					

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	15.0	26.0	172.2	5	317.0	20.0	69.9
2	28.0	10.0	94.1	6	327.0	20.0	77.2
3	223.0	12.0	80.5	7	344.0	32.0	62.8
4	233.0	10.0	160.9	8	360.0	30.0	99.8

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGREES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
990	WFAB	US	25-41-53 N	80-22-10 W	5.00	U D B O	648.57 FL MIAMI-SOUTH MIAMI 79.67
1	1.0000	-59.1000	0.0000	0.0000	90.0	
2	3.2100	108.1000	100.0000	257.0000	90.0	
3	5.1000	-84.4000	200.0000	257.0000	90.0	
4	5.1000	84.4000	300.0000	257.0000	90.0	
5	3.2100	-108.1000	400.0000	257.0000	90.0	
6	1.0000	59.1000	500.0000	257.0000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
990	WHOO	US	28-34-50 N	81-27- 0 W	10.00	C N B O	180.0	1145.07	FL	ORLANDO		
990	WHOO	US	28-34-50 N	81-27- 0 W	50.00	D D B O		2639.32	FL	ORLANDO	70.71	
1	1.0000		0.0000	0.0000	0.0000	180.0						
2	1.0000		0.0000	140.0000	328.0000	180.0						

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	148.0	44.0	1367.9	3	328.0	46.0	1367.9
2	148.0	10.0	1448.4	4	328.0	10.0	1448.4

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

990 WHOO US 28-34-50 N 81-27- 0 W 5.00 N D B O 616.86 FL ORLANDO 22.36

1	1.0000	0.0000	0.0000	0.0000	180.0
2	1.0000	227.0000	270.0000	265.0000	90.0
3	1.0000	-20.0000	210.0000	3.0000	90.0
4	1.0000	207.0000	318.1474	-54.1828	90.0

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	4.0	12.0	37.0	13	185.0	34.0	482.2
2	10.0	12.0	37.0	14	205.0	38.0	466.7
3	16.0	12.0	40.2	15	224.0	32.0	75.6
4	22.0	12.0	46.7	16	224.0	10.0	83.7
5	40.0	12.0	418.4	17	240.0	32.0	341.0
6	58.0	36.0	993.4	18	270.0	60.0	565.2
7	90.0	64.0	1455.3	19	303.0	24.0	885.1
8	126.0	24.0	594.2	20	315.0	20.0	719.4
9	138.0	10.0	233.4	21	345.0	12.0	48.3
10	143.0	10.0	185.1	22	351.0	12.0	48.3
11	148.0	10.0	152.9	23	358.0	12.0	38.6
12	165.0	10.0	51.5				

990 WHOO US 28-34-50 N 81-27- 0 W 10.00 N D B P 902.52 FL ORLANDO 31.62

1	1.0000	0.0000	0.0000	0.0000	180.0
2	1.3600	-141.9000	270.0000	265.0000	90.0
3	1.7200	-157.5000	318.0000	305.8200	90.0
4	0.9800	-22.6000	210.0000	3.0000	90.0

990 WGST US 33-48-35 N 84-21-23 W 10.00 N D B P 991.36 GA ATLANTA 33.27

1	1.0000	0.0000	0.0000	0.0000	91.0
2	0.9500	-123.0000	60.0000	165.0000	91.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
990	WDWD	US	31-48-35 N	84-27-45 W	1.00	D	N	B	O	87.0	302.56	GA	DAWSON		
990	WGML	US	31-51- 1 N	81-36- 4 W	0.25	D	N	B	O	72.5	148.06	GA	HINESVILLE		
990	KHVH	US	21-17-59 N	157-51-33 W	5.00	U	N	B	P	115.9	719.72	HI	HONOLULU		
990	KAYL	US	42-37-56 N	95- 9-54 W	0.25	D	N	B	O	144.9	168.98	IA	STORM LAKE		
990	NEW	US	44-14- 0 N	116-57- 0 W	1.00	U	N	B	P	90.0	305.78	ID	WEYSER		
990	WCAZ	US	40-24-30 N	91-10-15 W	1.00	D	N	B	O	94.2	308.99	IL	CARTHAGE		
990	WCAZ	US	40-24-30 N	91-10-15 W	0.25	N	N	B	P	94.2	154.50	IL	CARTHAGE		
990	WITZ	US	38-21- 2 N	86-56-26 W	1.00	D	N	B	O	166.7	317.04	IN	JASPER		
990	WERK	US	40- 6-54 N	85-22- 2 W	0.25	D	D	B	O		152.89	IN	MUNCIE	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.6	
2	1.0280	-5.0000	253.8000	90.0000	90.6	
3	0.3000	-14.0000	507.5999	90.0000	90.6	
4	0.8000	105.3999	130.0000	145.0000	90.6	
5	0.8220	100.4000	345.2008	107.9680	90.6	
6	0.2400	91.4000	591.8244	100.3660	90.6	

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
AUG #				AUG #			
1	35.0	20.0	77.2	8	195.0	40.0	56.3
2	50.0	30.0	41.0	9	230.0	30.0	36.4
3	90.0	40.0	29.3	10	245.0	30.0	103.4
4	110.0	40.0	39.4	11	305.0	20.0	80.5
5	135.0	20.0	27.2	12	315.0	20.0	58.8
6	145.0	20.0	44.3	13	325.0	20.0	78.5
7	171.0	48.0	164.2	14	340.0	30.0	238.9

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
990	WERK	US	40-14- 0 N	85-19- 0 W	0.50	N	D	B	P		203.98	IN	MUNCIE	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.0000	20.5000	165.0000	345.0000	90.0	
3	1.0000	93.0000	50.0000	10.0000	90.0	
4	1.0000	113.5000	249.5000	353.8000	90.0	

990	KRSL	US	38-54-22 N	98-51-39 W	0.25	D	N	B	O	79.7	149.67	KS	RUSSELL		
990	WNNR	US	29-57-24 N	90- 4-34 W	0.25	D	N	B	O	80.8	140.82	LA	NEW ORLEANS		
990	WNNR	US	29-57-24 N	90- 4-34 W	0.25	N	N	B	P	80.8	140.82	LA	NEW ORLEANS		
990	KXLA	US	32-28-55 N	91-47-46 W	1.00	D	D	B	P		287.61	LA	RAYVILLE	10.00	

1	1.0000	0.0000	0.0000	0.0000	T	A = 54.3 B = 5.7 C = 0.0 D = 0.0
2	0.6000	-60.5000	120.0000	30.0000	T	A = 54.3 B = 5.7 C = 0.0 D = 0.0

990	KXLA	US	32-28-55 N	91-47-46 W	1.00	D	N	B	P	60.0	287.59	LA	RAYVILLE		
990	KXLA	US	32-28-35 N	91-43-30 W	0.25	D	N	B	O	87.0	152.08	LA	RAYVILLE		
990	KXLA	US	32-28-55 N	91-47-46 W	0.25	N	D	B	P		143.79	LA	RAYVILLE	10.00	

1	1.0000	0.0000	0.0000	0.0000	T	A = 54.3 B = 5.7 C = 0.0 D = 0.0
2	0.6000	-60.5000	120.0000	30.0000	T	A = 54.3 B = 5.7 C = 0.0 D = 0.0

990	KXLA	US	32-28-55 N	91-47-46 W	0.25	N	D	B	P		143.79	LA	RAYVILLE	10.00	

1	1.0000	0.0000	0.0000	0.0000	60.0	
2	0.6000	-60.5000	120.0000	210.0000	60.0	

990	NEW	US	44-26- 0 N	69- 1- 0 W	1.00	U	N	B	P	90.0	305.78	ME	BELFAST		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
990	WSDM	US	43-48-15 N	84-45-55 W	0.25	D	D	B	O		142.59	MI	CLARE	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	65.2	
2	0.9500	135.9999	60.0000	82.0000	65.2	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	39.0	86.0	14.3	3	126.0	86.0	17.7
2	39.0	10.0	16.1	4	262.0	16.0	247.4

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
990	WYFC	US	42-15-52 N	83-36-53 W	0.25	N	D	B	P		142.91	MI	YPSILANTI	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.8000	12.5000	170.0000	42.0000	90.0										
3	1.0000	93.0000	90.0000	353.0000	90.0										
4	0.8000	105.5000	238.9000	25.5000	90.0										
990	KRMO	US	36-56-15 N	93-55-30 W	0.25	D	N	B	O	85.2	151.28	MO	MONETT		
990	KRMO	US	36-56-15 N	93-55-30 W	0.50	N	D	B	P		199.56	MO	MONETT	10.00	
1	1.0000	0.0000	0.0000	0.0000	85.2										
2	0.6800	106.0000	80.0000	330.0000	85.2										
990	WABO	US	31-40-48 N	88-40-34 W	1.00	D	N	B	O	87.0	304.17	MS	WAYNESBORO		
990	WCEL	US	35-11-37 N	79-24-42 W	5.00	C	N	B	P	87.0	631.52	NC	SOUTHERN PINES		
990	WCEL	US	35-11-51 N	79-24-48 W	10.00	D	N	B	P	87.0	961.86	NC	SOUTHERN PINES		
990	WCEL	US	35-11-37 N	79-24-42 W	5.00	D	N	B	O	87.0	680.14	NC	SOUTHERN PINES		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
990	WCEL	US	35-11-51 N	79-24-48 W	5.00	N	D	B	P		648.89	NC	SOUTHERN PINES	48.87	
1	1.0000	0.0000	0.0000	0.0000	87.0										
2	1.9930	-157.0000	60.0000	110.0000	87.0										
3	1.1170	47.7000	120.0000	110.0000	87.0										
990	WBTE	US	35-58- 0 N	76-56-54 W	1.00	D	N	B	O	65.2	289.68	NC	WINDSOR		
990	KSVP	US	32-49-29 N	104-23-59 W	1.00	D	N	B	O	88.8	289.68	NM	ARTESIA		
990	KSVP	US	32-49-29 N	104-23-59 W	0.25	N	N	B	O	88.8	144.84	NM	ARTESIA		
990	KLMX	US	36-26-39 N	103-11-24 W	0.25	N	N	B	P	138.0	168.98	NM	CLAYTON		
990	WNYR	US	43-11-50 N	77-46-56 W	5.00	D	D	B	P		642.35	NY	ROCHESTER	22.36	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.7000	5.0000	190.0000	348.2500	90.0										
990	WNYR	US	43-13-54 N	77-52- 0 W	2.50	N	D	B	P		445.40	NY	ROCHESTER	15.81	
1	1.0000	0.0000	0.0000	0.0000	99.7										
2	1.0200	266.6000	90.0000	123.5000	99.7										
3	1.8280	359.2000	206.0000	5.5000	99.7										
4	1.8180	263.3000	182.0100	31.3900	99.7										
5	1.0300	358.5000	412.0000	5.5000	99.7										
6	1.0200	263.9000	378.1900	17.6300	99.7										
990	WJEH	US	38-48-21 N	82-13-23 W	0.25	C	N	B	O	87.0	152.08	OH	GALLIPOLIS		
990	WJEH	US	38-48-21 N	82-13-23 W	1.00	D	N	B	O	87.0	304.17	OH	GALLIPOLIS		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
990	WTIG	US	40-49-56 N	81-33-40 W	0.25	D	D	B	O		146.45	OH	MASSILLON	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	72.5	
2	0.6250	-112.5000	70.0000	180.0000	72.5	
3	0.4000	112.4999	70.0000	0.0000	72.5	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	20.0	12.9	6	285.0	56.0	61.2
2	10.0	20.0	12.2	7	330.0	20.0	11.6
3	20.0	20.0	11.6	8	340.0	20.0	11.6
4	30.0	20.0	11.6	9	350.0	20.0	12.2
5	75.0	58.0	61.2				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
990	WTIG	US	40-49-56 N	81-33-40 W	0.25	N	D	B	P		146.45	OH	MASSILON	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	72.5
2	0.9500	49.5000	140.0000	0.0000	72.5
3	0.4500	-165.5000	156.5000	26.6000	72.5
4	0.4700	145.0000	70.0000	90.0000	72.5

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
990	KRKT	US	44-36-54 N	123- 5-54 W	0.25	D	N	B	O	99.7	156.11	OR	ALBANY		
990	KRKT	US	44-36-54 N	123- 5-54 W	0.25	N	N	B	P	99.7	156.11	OR	ALBANY		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

990	WZZD		US	40- 6-14 N	75-16-16 W	50.00		D	D	B	0		2236.99	PA	PHILADELPHIA	70.71	
1	0.2800		-140.0000		0.0000	0.0000		90.6									
2	0.6600		102.0000		90.0000	139.5000		90.6									
3	0.8500		0.0000		180.0000	139.5000		90.6									
4	1.0000		-102.0000		270.0000	139.5000		90.6									
5	0.7000		142.0000		360.0000	139.5000		90.6									

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	36.0	16.0	490.0	6	192.5	65.0	2575.0
2	45.0	18.0	474.8	7	259.0	10.0	257.5
3	54.0	10.0	474.8	8	292.0	55.0	265.5
4	100.0	79.0	3701.5	9	341.0	43.0	265.5
5	139.5	79.0	4828.0				

990	WZZD		US	40- 6-14 N	75-16-16 W	10.00		N	D	B	0		891.58	PA	PHILADELPHIA	51.94	
1	1.0000		117.5000		0.0000	0.0000		91.0									
2	2.9330		-34.4000		90.0000	139.5000		91.0									
3	3.8180		177.2000		180.0000	139.5000		91.0									
4	2.5980		29.7000		270.0000	139.5000		91.0									
5	0.7830		-117.5000		360.0000	139.5000		91.0									

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	19.0	18.0	57.3	9	260.0	20.0	72.4
2	44.5	32.0	53.1	10	260.0	10.0	72.9
3	100.0	79.0	1270.6	11	280.0	40.0	88.5
4	139.5	79.0	2252.9	12	300.5	17.0	72.4
5	192.5	52.0	759.3	13	309.0	17.0	75.6
6	218.5	32.0	67.6	14	319.5	21.0	88.5
7	234.5	31.0	70.0	15	345.0	13.0	82.1
8	250.0	20.0	78.1				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
990	WVSC	US	40- 1-31 N	79- 5-42 W	5.00	D	D	B	O		671.90	PA	SOMERSET	22.36	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.7500	55.0000	140.0000	315.0000	90.0	

AUG #	AZIMUT AUG #	AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
	1	260.0	38.0	407.0
	2	315.0	54.0	193.1
	3	315.0	10.0	200.5

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
990	WVSC	US	40- 1-31 N	79- 5-42 W	10.00	D	D	B	P		944.60	PA	SOMERSET	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.7500	56.0000	140.0000	315.0000	90.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
990	WVSC	US	40- 1-31 N	79- 5-42 W	0.25	N	D	B	P		165.76	PA	SOMERSET	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.8200	-132.0000	0.0000	0.0000	90.0	
2	1.0000	0.0000	90.0000	340.0000	90.0	
3	0.5900	139.0000	180.0000	340.0000	90.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
990	WPRA	US	18-10-52 N	67-10- 7 W	1.00	U	N	B	O	85.2	302.56	PR	MAYAGUEZ		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
990	WLKW	US	41-57-18 N	71-35-39 W	50.00	D	D	B	O		2161.35	RI	PROVIDENCE	70.71	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	87.0	
2	1.9360	97.9000	100.0000	325.0000	87.0	
3	1.0000	195.7999	200.0000	325.0000	87.0	
4	1.0000	0.0000	184.0000	235.0000	87.0	
5	1.9360	97.9000	209.4182	263.5231	87.0	
6	1.0000	193.9998	271.7646	-77.6141	87.0	

AUG #	AZIMUT AUG #	AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
	1	90.0	40.0	1327.7
	2	145.0	40.0	5592.6
	3	165.0	40.0	4786.5
	4	195.0	60.0	1734.5

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)									
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
990	WLKW	US	41-57-18 N	71-35-39 W	5.00	N	D	B	P		683.97	RI	PROVIDENCE	22.36	
1	1.0000	0.0000	0.0000	0.0000	87.0										
2	1.9360	97.9000	100.0000	325.0000	87.0										
3	1.0000	195.8000	200.0000	325.0000	87.0										
4	1.0000	0.0000	184.0000	235.0000	87.0										
5	1.9360	97.9000	209.4200	263.5000	87.0										
6	1.0000	195.8000	271.7600	293.4800	87.0										
990	WAKN	US	33-33-14 N	81-47-14 W	1.00	D	N	B	O	98.9	312.21	SC	AIKEN		
990	WAKN	US	33-34-14 N	81-47-14 W	1.00	N	N	B	P	98.0	310.60	SC	AIKEN		
990	WNOX	US	36- 2-37 N	83-53-54 W	10.00	D	N	B	O	172.0	1175.60	TN	KNOXVILLE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

990	WNOX	US	36- 2-37 N	83-53-54 W	10.00	N	D	B	O		1046.07	TN	KNOXVILLE	34.90
1	1.0000		0.0000	0.0000	0.0000		172.0							
2	1.0000		116.9999	70.0000	315.0000		90.6							
3	0.6500		61.0000	245.0000	226.0000		90.6							
4	0.6500		178.0000	255.9758	241.8680		90.6							

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	2.0	14.0	246.2	15	239.0	10.0	994.3
2	8.0	12.0	296.1	16	272.0	10.0	209.2
3	14.0	12.0	334.7	17	281.0	18.0	252.7
4	20.0	12.0	357.3	18	290.0	18.0	273.6
5	26.0	12.0	370.1	19	299.0	18.0	252.7
6	32.0	12.0	375.0	20	308.0	14.0	209.2
7	38.0	12.0	376.6	21	315.0	14.0	175.4
8	44.0	12.0	371.8	22	322.0	14.0	173.8
9	50.0	12.0	355.7	23	329.0	14.0	141.6
10	56.0	12.0	354.1	24	336.0	14.0	96.6
11	173.0	16.0	844.9	25	343.0	14.0	88.5
12	181.0	16.0	1182.9	26	349.0	12.0	93.3
13	213.0	16.0	1545.0	27	355.0	12.0	177.0
14	221.0	16.0	1392.1				

990	KWAM	US	35- 8- 4 N	90- 5-38 W	10.00	D	D	B	O		1018.71	TN	MEMPHIS	33.49
1	1.0000		0.0000	0.0000	0.0000		72.5							
2	1.3000		12.5000	222.0000	167.0000		160.0							

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	17.0	20.0	289.7	3	207.0	20.0	289.7
2	126.0	18.0	289.7	4	317.0	20.0	289.7

990	KWAM	US	35- 8- 4 N	90- 5-38 W	0.25	N	N	B	P	180.0	177.03	TN	MEMPHIS	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGREES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

990 KALO US 30- 7-17 N 94- 9-30 W 1.00 U D B O 275.84 TX BEAUMONT 10.05

1	1.0000	0.0000	0.0000	0.0000	84.4
2	1.2200	-152.6000	80.0000	134.0000	84.4

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	24.0	10.0	57.9	8	185.0	50.0	380.8
2	60.0	20.0	258.0	9	210.0	47.0	245.4
3	70.0	20.0	316.7	10	233.5	10.0	112.7
4	94.0	48.0	422.5	11	244.0	21.0	60.7
5	119.0	30.0	477.7	12	265.0	42.0	143.6
6	134.0	30.0	486.6	13	290.0	48.0	240.4
7	160.0	50.0	460.6	14	314.0	10.0	260.7

990 KALO US 30- 8-57 N 94- 7-59 W 1.00 U D B P 281.59 TX BEAUMONT 10.20

1	1.0000	0.0000	0.0000	0.0000	177.6
2	0.8330	151.0000	80.0000	315.7000	83.3

990 KAML US 28-51- 2 N 97-52-48 W 0.25 D N B O 84.4 151.28 TX KENEDY-KARNES CITY

990 KNIN US 33-55-40 N 98-34-10 W 10.00 D D B O 991.36 TX WICHITA FALLS 31.62

1	1.0000	10.0000	0.0000	0.0000	100.0
2	1.1420	0.0000	80.0000	343.0000	100.0
3	1.2850	10.0000	210.0000	243.0000	100.0

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	3.0	30.0	708.1	7	192.0	32.0	321.9
2	18.0	30.0	482.8	8	192.0	10.0	328.5
3	54.0	62.0	804.7	9	213.0	18.0	687.8
4	85.0	22.0	547.2	10	270.0	50.0	547.2
5	101.0	10.0	788.6	11	295.0	50.0	1255.3
6	167.0	18.0	1287.5	12	320.0	48.0	1931.2

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
990	KNIN	US	33-55-40 N	98-34-10 W	1.00	N	D	B	O				321.87 TX WICHITA FALLS	10.34	
1	1.0000	0.0000	0.0000	0.0000	100.0										
2	0.9050	105.0000	80.0000	343.0000	100.0										
3	0.9050	45.0000	210.0000	243.0000	100.0										
4	0.8180	150.0000	211.3419	264.8873	100.0										

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	3.0	42.0	45.1	7	192.0	50.0	51.5
2	54.0	38.0	64.4	8	192.0	10.0	64.4
3	54.0	10.0	67.6	9	270.0	72.0	169.0
4	76.0	10.0	104.6	10	320.0	44.0	120.7
5	101.0	50.0	354.1	11	342.0	42.0	67.6
6	167.0	50.0	643.7	12	342.0	10.0	69.2

990	KDYL	US	40-32-36 N	112-18-33 W	0.50	N	D	B	P				218.87 UT TOOELE	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.6										
2	0.8200	94.0000	90.0000	8.0000	90.6										
990	KTLE	US	40-32-36 N	112-18-33 W	1.00	D	N	B	O	90.6			307.38 UT TOOELE		
990	WNRV	US	37-20-39 N	80-46-36 W	5.00	D	N	B	O	87.7			680.14 VA NARROWS-PEARISBURG		
990	WNRV	US	37-20-39 N	80-46-36 W	1.00	N	D	B	P				305.78 VA NARROWS-PEARISBURG	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.0000	90.0000	90.0000	140.0000	90.0										
990	WANT	US	37-31-40 N	77-22-48 W	1.00	D	N	B	O	88.4			305.78 VA RICHMOND		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
990	WANT	US	37-31-40 N	77-22-48 W	1.00	N	D	B	P		303.52	VA	RICHMOND	10.00	
1	1.0000	0.0000	0.0000	0.0000	80.0										
2	2.2710	-54.1000	296.6300	45.2300	80.0										
3	2.6570	86.4000	367.7500	9.1300	80.0										
4	1.1260	35.5000	392.4600	31.0600	80.0										
1010	CBR	CA	50-56-17 N	113-57-38 W	50.00	N	D	A	O		2542.76	AB	CALGARY	70.71	
1	1.0000	0.0000	0.0000	0.0000	180.0										
2	1.0000	16.0000	105.0000	108.0000	180.0										
1010	CBR-1	CA	50-56-17 N	113-57-38 W	50.00	D	D	A	O		2542.76	AB	CALGARY	70.71	
1	1.0000	0.0000	0.0000	0.0000	180.0										
2	1.0000	343.9999	105.0000	108.0000	180.0										
1010	831219	CA	48-58-30 N	54-36-47 W	5.00	U	N	B	O		629.27	NF	GANDER		
						T A = 49.9 B = 10.1 C = 0.0 D = 0.0									
1010	NEW	CA	48-20- 0 N	89-35- 0 W	10.00	D	N	B	P	90.0	965.62	ON	THUNDER BAY		
1010	NEW	CA	48-20- 0 N	89-35- 0 W	5.00	N	D	B	P		648.89	ON	THUNDER BAY	22.36	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.0000	0.0000	184.0000	133.5000	90.0										
3	1.0000	112.0000	178.8760	162.1760	90.0										
4	1.0000	112.0000	90.0000	241.0000	90.0										

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	CFRB	CA	43-30-22 N	79-37-50 W	50.00	D	D	A	O		2687.60	ON	TORONTO	82.00	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
	1	1.0000	0.0000	0.0000	0.0000	203.0									
	2	0.9400	295.0000	188.5600	303.0000	203.0									
	3	0.4700	285.0000	135.0000	16.0000	92.3									
1010	CFRB	CA	43-30-22 N	79-37-50 W	50.00	N	D	A	O		2196.75	ON	TORONTO	70.71	*
	1	1.0000	0.0000	0.0000	0.0000	203.0									
	2	1.0100	354.9999	188.5600	303.0000	203.0									
	3	0.9199	288.9998	262.0390	332.5170	92.3									
	4	1.0000	294.0000	135.0000	16.0000	92.3									
1010	WPYK	US	33-48- 4 N	87- 6-42 W	5.00	D	N	B	O	72.4	654.95	AL	DORA		
1010	KLRA	US	34-46-10 N	92- 9-30 W	10.00	D	N	B	O	87.0	961.86	AR	LITTLE ROCK		
1010	KLRA	US	34-46-10 N	92- 9-30 W	5.00	N	D	B	O		573.73	AR	LITTLE ROCK	22.84	
	1	1.0000	0.0000	0.0000	0.0000	87.0									
	2	0.9000	32.0000	184.0000	316.0000	87.0									
	3	0.9000	11.0000	216.0000	356.0000	87.0									
	4	0.8100	43.0000	376.0364	-22.3322	87.0									

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	34.5	10.0	96.6	5	317.5	15.0	92.7
2	148.2	13.4	67.6	6	329.0	20.0	128.7
3	242.0	16.0	1142.6	7	341.0	20.0	136.8
4	279.6	12.0	128.7	8	352.5	15.0	96.6

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1010	KLRA	US	34-46-10 N	92- 9-30 W	5.00		N	D.	B			P		658.59 AR LITTLE ROCK	26.22	58

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	143.5	
2	0.9000	32.0000	184.0000	316.0000	143.5	
3	0.9000	11.0000	216.0000	356.0000	143.5	
4	0.8100	43.0000	376.0364	-22.3322	143.5	

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	34.5	10.0	96.6	15	264.0	16.0	689.3
2	76.0	32.0	1761.1	16	279.6	31.2	128.7
3	100.0	40.0	1096.4	17	296.0	28.0	253.3
4	120.0	30.0	394.1	18	310.0	15.0	137.1
5	135.0	13.0	139.0	19	315.0	10.0	90.9
6	141.5	13.0	93.3	20	318.5	10.0	90.4
7	148.2	13.4	67.6	21	322.5	10.0	118.8
8	165.0	33.6	185.4	22	327.5	10.0	133.6
9	186.0	35.8	319.3	23	332.5	10.0	144.8
10	203.9	24.2	114.6	24	337.5	10.0	146.5
11	216.0	20.0	506.3	25	340.0	10.0	137.6
12	226.0	20.0	947.4	26	345.0	15.0	128.7
13	242.0	28.0	1313.2	27	350.0	10.0	107.0
14	256.0	16.0	1021.9	28	355.0	10.0	106.9

1010	KXEG	US	33-26-46 N	112-12-24 W	1.00	D	N	B	P	90.0	305.78	AZ	TOLLESON
1010	KXEG	US	33-26-46 N	112-12-24 W	1.00	D	N	B	O	92.4	307.38	AZ	TOLLESON
1010	KXEG	US	33-26-46 N	112-12-24 W	0.25	N	N	B	P	90.0	152.89	AZ	TOLLESON
1010	KXEG	US	33-26-46 N	112-12-24 W	0.25	N	N	B	O	92.4	149.67	AZ	TOLLESON

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1010	KCHJ	US	35-48-40 N	119-19-18 W	5.00	D	D	B	O		785.36	CA	DELANO	25.42*	

1	1.0000		0.0000	0.0000	0.0000					T	A = 110.9	B =	0.0	C = 0.0	D = 0.0
2	0.7500		163.9999	90.0000	20.0000					T	A = 110.9	B =	0.0	C = 0.0	D = 0.0

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	90.0	20.0	354.1	5	305.0	30.0	289.7
2	100.0	16.0	273.6	6	320.0	30.0	450.6
3	108.0	16.0	305.8	7	320.0	10.0	482.8
4	290.0	14.0	321.9				

1010	KCHJ	US	35-48-40 N	119-19-18 W	1.00	N	D	B	O		331.52	CA	DELANO	12.14*	

1	1.0000		0.0000	0.0000	0.0000					T	A = 110.9	B =	13.1	C = 0.0	D = 0.0
2	1.0000		106.0000	90.0000	20.0000					T	A = 110.9	B =	13.1	C = 0.0	D = 0.0

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	20.0	74.4	7	60.0	20.0	66.7
2	10.0	20.0	78.9	8	65.0	10.0	69.8
3	20.0	20.0	80.5	9	90.0	20.0	207.6
4	30.0	20.0	78.9	10	100.0	20.0	265.8
5	40.0	20.0	77.2	11	340.0	20.0	59.1
6	50.0	20.0	71.3	12	350.0	20.0	66.8

1010	KIQI	US	37-39- 2 N	122- 9- 8 W	50.00	D	D	B	P		2261.45	CA	HAYWARD	70.71	

1	1.0000	0.0000	0.0000	0.0000	73.9
2	0.9070	-117.1000	113.6000	237.6000	73.9
3	0.1190	147.7000	256.9000	234.3000	73.9
4	0.4680	145.5000	129.3000	50.8000	73.9
5	0.6140	-117.0000	129.5000	287.8000	73.9
6	0.4960	141.6000	221.9000	264.1000	73.9
7	0.1640	18.4000	121.0000	357.8000	73.9

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1010	KIQI	US	37-39- 2 N	122- 9- 8 W	5.00	N	D	B	P		654.04	CA	HAYWARD	22.36	
1	1.0000		0.0000	0.0000	0.0000		73.9								
2	0.5800		-129.8000	113.6000	237.6000		73.9								
3	0.1800		-84.2000	256.9000	234.3000		73.9								
4	0.4850		94.8000	129.3000	50.8000		73.9								
5	0.5000		39.0000	129.5000	287.8000		73.9								
6	0.4690		306.9999	221.9000	264.1000		73.9								
7	0.4300		133.5000	121.0000	357.8000		73.9								
1010	KCMJ	US	33-51-45 N	116-32-48 W	1.00	D	D	B	O		301.75	CA	PALM SPRINGS	10.00	
1	1.0000		0.0000	0.0000	0.0000		85.0								
2	0.2700		-131.9000	80.0000	67.0000		85.0								

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	171.5	11.0	266.1	3	187.5	21.0	253.3
2	177.0	11.0	257.9	4	300.0	10.0	249.5

1010	KCMJ	US	33-51-45 N	116-32-48 W	0.50	N	D	B	O		199.56	CA	PALM SPRINGS	10.00	
1	1.0000		0.0000	0.0000	0.0000		85.0								
2	0.5000		166.0999	80.0000	67.0000		85.0								

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	30.0	19.0	198.3	5	247.0	106.0	300.9
2	39.5	19.0	214.1	6	311.5	17.0	194.9
3	115.5	10.0	189.1	7	347.0	11.0	126.0
4	147.0	10.0	127.8				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1010 KIQI US 37-49-33 N 122-18-39 W 10.00 D D B D 930.20 CA SAN FRANCISCO 33.65*

1	1.0000	0.0000	0.0000	0.0000		T	A =	75.4	B =	14.6	C =	0.0	D =	0.0
2	1.1420	117.9000	90.0000	60.0000		T	A =	75.4	B =	14.6	C =	0.0	D =	0.0
3	0.4300	-110.2000	180.0000	60.0000		T	A =	75.4	B =	14.6	C =	0.0	D =	0.0

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	7.0	34.0	265.5	11	200.0	16.0	1528.9
2	24.0	34.0	196.3	12	208.0	16.0	1641.5
3	41.0	14.0	144.8	13	240.0	17.0	1786.4
4	48.0	14.0	144.8	14	248.5	17.0	1818.6
5	79.0	30.0	144.8	15	270.0	40.0	1697.9
6	94.0	30.0	189.9	16	290.0	20.0	1528.9
7	112.0	36.0	252.7	17	300.0	20.0	1271.4
8	130.0	10.0	317.0	18	325.0	42.0	611.6
9	172.0	36.0	1030.0	19	325.0	10.0	643.7
10	190.0	20.0	1367.9	20	346.0	42.0	365.3

1010 KIQI US 37-49-33 N 122-18-39 W 0.25 N D B D 147.09 CA SAN FRANCISCO 10.00

1	1.0000	0.0000	0.0000	0.0000		T	A =	75.4	B =	14.6	C =	0.0	D =	0.0
2	1.1420	117.9000	90.0000	60.0000		T	A =	75.4	B =	14.6	C =	0.0	D =	0.0
3	0.4300	-110.2000	180.0000	60.0000		T	A =	75.4	B =	14.6	C =	0.0	D =	0.0

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	7.0	22.0	42.0	12	200.0	16.0	241.7
2	24.0	34.0	31.1	13	208.0	16.0	259.1
3	41.0	14.0	22.9	14	240.0	17.0	282.4
4	48.0	14.0	22.9	15	248.5	17.0	286.5
5	59.0	20.0	22.9	16	270.0	40.0	268.8
6	69.0	20.0	22.9	17	290.0	20.0	239.8
7	79.0	20.0	22.9	18	300.0	20.0	201.0
8	94.0	30.0	29.9	19	325.0	42.0	96.7
9	130.0	10.0	50.1	20	325.0	10.0	101.9
10	172.0	36.0	162.9	21	346.0	20.0	57.8
11	190.0	20.0	216.3	22	356.0	20.0	48.6

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	KIQI	US	37-25-29 N	121-57-18 W	25.00		D	D	B	P		1625.15	CA	SUNNYVALE	50.00	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000	72.1									
	2	2.3100	115.9000	100.0000	60.0000	72.1									
	3	2.0400	236.5999	200.0000	60.0000	72.1									
	4	0.7200	-2.2000	300.0000	60.0000	72.1									
1010	KIQI	US	37-25-29 N	121-57-18 W	10.00		N	D	B	P		1046.12	CA	SUNNYVALE	37.84	
	1	1.0000	0.0000	0.0000	0.0000	72.1									
	2	2.4600	139.4700	100.0000	60.0000	72.1									
	3	2.3900	-80.5900	200.0000	60.0000	72.1									
	4	0.9100	58.8100	300.0000	60.0000	72.1									
1010	KCMP	US	40-15-39 N	103-38-15 W	2.50		C	N	B	O	66.5	445.30	CO	BRUSH		
1010	KCMP	US	40-15-39 N	103-38-15 W	5.00		D	N	B	O	66.5	629.76	CO	BRUSH		
1010	KCMP	US	40-15-39 N	103-38-15 W	5.00		N	N	B	P	66.5	647.75	CO	BRUSH		
1010	WCNU	US	30-42-36 N	86-34-19 W	10.00		D	N	B	P	85.0	956.77	FL	CRESTVIEW		
1010	WCNU	US	30-42-36 N	86-34-19 W	1.00		D	N	B	O	85.0	302.56	FL	CRESTVIEW		
1010	WBIX	US	30-17-42 N	81-33-11 W	10.00		D	D	B	O		926.98	FL	JACKSONVILLE BEACH	31.62	
	1	1.0000	0.0000	0.0000	0.0000	72.5									
	2	1.2000	10.0000	190.0000	5.0000	72.5									

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	5.0	28.0	362.1	7	172.0	26.0	251.1
2	19.0	28.0	292.9	8	185.0	26.0	221.5
3	33.0	16.0	193.1	9	198.0	26.0	249.4
4	87.5	15.0	1638.5	10	337.0	16.0	196.3
5	95.0	15.0	1687.5	11	351.0	28.0	294.5
6	102.5	15.0	1670.8				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1010	WBIX	US	30-17-42 N	81-33-11 W	1.00	N	D	B	P	308.54	FL	JACKSONVILLE BEACH		10.00	
1	1.0000		0.0000	0.0000	0.0000		72.5								
2	0.7000		70.0000	190.0000	5.0000		72.5								
1010	WCBF	US	27-59-25 N	82-15- 6 W	50.00	D	D	B	O	2039.04	FL	TAMPA		70.71	
1	0.9020		-19.5000	0.0000	0.0000		96.0								
2	1.7800		0.0000	197.0000	355.0000		96.0								
3	1.0000		19.5000	394.0000	-5.0000		96.0								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	6.8	23.4	379.8	9	200.0	10.0	112.7
2	18.5	11.6	135.2	10	218.0	16.0	1062.2
3	24.3	11.4	156.1	11	227.0	18.0	1858.8
4	30.0	11.4	169.0	12	310.0	10.0	138.4
5	37.5	15.0	141.6	13	315.0	10.0	244.6
6	130.0	40.0	1142.6	14	320.0	10.0	263.9
7	150.0	25.0	209.2	15	337.5	35.0	238.2
8	150.0	10.0	257.5	16	355.0	23.6	515.0

1010	WCBF	US	27-59-25 N	82-15- 6 W	50.00	D	D	B	P	2039.04	FL	TAMPA		67.68*	
1	0.9020		-19.5000	0.0000	0.0000		96.0								
2	1.7800		0.0000	197.0000	355.0000		96.0								
3	1.0000		19.5000	394.0000	355.0000		96.0								

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	6.8	23.4	379.8	9	200.0	10.0	112.7
2	18.5	11.6	135.2	10	218.0	16.0	1062.2
3	24.3	11.4	156.1	11	230.0	20.0	2253.1
4	30.0	11.4	169.0	12	310.0	10.0	138.4
5	37.5	15.0	141.6	13	315.0	10.0	244.6
6	130.0	40.0	1142.6	14	320.0	10.0	263.9
7	150.0	25.0	209.2	15	337.5	35.0	238.2
8	150.0	10.0	257.5	16	355.0	23.6	515.0

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	WCBF	US	27-59-25 N	82-15- 6 W	0.50	N	D	B	O		203.90	FL	TAMPA	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.9020	-19.5000	0.0000	0.0000	96.0	
2	1.7800	0.0000	197.0000	355.0000	96.0	
3	1.0000	19.5000	394.0000	-5.0000	96.0	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	5.0	10.0	33.2	8	150.5	41.0	20.9
2	10.0	10.0	22.4	9	310.0	20.0	11.3
3	15.0	10.0	12.9	10	320.0	20.0	24.9
4	18.5	10.0	7.6	11	332.0	14.0	8.5
5	30.0	19.0	15.6	12	339.0	10.0	18.3
6	39.5	19.0	11.6	13	344.0	10.0	29.6
7	130.0	40.0	114.3	14	355.0	20.0	48.3

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	WCBF	US	27-59-25 N	82-15- 6 W	5.00	N	D	B	P		674.32	FL	TAMPA	22.40	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	96.0
2	1.3900	-1.4000	197.0000	355.0000	96.0
3	0.6080	-4.3000	394.0000	355.0000	96.0

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	WGUN	US	33-41-55 N	84-17-23 W	50.00	D	N	B	O	129.4	2241.82	GA	ATLANTA		
1010	WGUN	US	33-41-55 N	84-17-23 W	2.50	N	D	B	P		483.64	GA	ATLANTA	15.89	60

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	88.7
2	1.0000	-100.0000	90.0000	80.0000	88.7
3	1.0000	18.0000	210.0000	352.5000	88.7
4	1.0000	-75.0000	232.0500	15.2970	88.7

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	KSMN	US	43- 8-31 N	93- 6-40 W	1.00	D	N	B	O	147.9	302.56	IA	MASON CITY		
1010	KSMN	US	43- 8-31 N	93- 6-40 W	1.00	N	N	B	P	147.9	302.56	IA	MASON CITY	72.73	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	WCSI	US	39-11- 5 N	85-57-17 W	0.50	D	N	B	O	110.9	221.91	IN	COLUMBUS		
1010	WCSI	US	39-11- 5 N	85-57-17 W	0.50	N	N	B	P	110.9	221.91	IN	COLUMBUS		69
1010	KIND	US	37-13- 7 N	95-43-30 W	0.25	D	N	B	O	87.2	152.89	KS	INDEPENDENCE		
1010	WBCE	US	36-58-54 N	89- 4-39 W	0.25	D	D	B	P		140.82	KY	WICKLIFE	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	T A = 70.2 B = 20.0 C = 0.0 D = 0.0
2	1.4578	-151.8000	75.0000	200.0000	T A = 70.2 B = 20.0 C = 0.0 D = 0.0
3	0.7650	54.1000	150.0000	200.0000	T A = 70.2 B = 20.0 C = 0.0 D = 0.0

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	KDLA	US	30-52-43 N	93-17-25 W	1.00	D	N	B	O	107.6	289.68	LA	DERIDDER		
1010	WKQT	US	30- 4-35 N	90-37-17 W	0.50	D	N	B	O	125.7	233.29	LA	GARYVILLE		
1010	WSID	US	39-17- 9 N	76-36-14 W	1.00	D	N	B	O	73.9	281.64	MD	BALTIMORE		
1010	WSID	US	39-17- 9 N	76-36-14 W	1.00	N	D	B	P		349.23	MD	BALTIMORE	13.07	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	91.0
2	1.4500	143.0000	90.0000	275.0000	91.0
3	0.5350	-74.1000	180.0000	275.0000	91.0

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	WITL	US	42-40-32 N	84-30- 6 W	0.50	D	D	B	O		212.43	MI	LANSING	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	0.5100	104.0000	0.0000	0.0000	91.4
2	1.0000	2.0000	90.0000	290.0000	91.4
3	0.5100	-104.0000	180.0000	-70.0000	91.4

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	70.0	244.6	5	175.0	50.0	41.8
2	35.0	70.0	72.4	6	200.0	45.0	144.8
3	70.0	40.0	12.9	7	325.0	70.0	351.6
4	150.0	40.0	12.9				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1010	WITL	US	42-40-32 N	84-30- 6 W	1.00	N	D	B	P		323.48	MI	LANSING	10.00	
1	0.1810		-86.9000	0.0000	0.0000		90.0								
2	0.4210		4.0000	225.0000	21.0000		90.0								
3	0.3290		86.9000	450.0000	21.0000		90.0								
1010	WMIN	US	44-55-15 N	92-58-52 W	0.25	D	D	B	O		140.82	MN	MAPLEWOOD	10.00	
1	1.0000		0.0000	0.0000	0.0000		89.0								
2	0.9500		-90.0000	90.0000	0.0000		89.0								

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	67.5	45.0	188.3	7	190.0	20.0	13.4
2	90.0	45.0	160.7	8	202.5	45.0	20.4
3	112.5	45.0	112.0	9	247.5	45.0	109.0
4	157.5	45.0	20.1	10	270.0	45.0	163.7
5	170.0	20.0	14.8	11	292.5	45.0	189.9
6	180.0	45.0	12.1				

1010	WMIN	US	44-55-15 N	92-58-52 W	1.00	N	D	B	P		329.92	MN	MAPLEWOOD	11.14	66,67
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	1.0000		-123.6000	60.0000	140.0000		90.0								
1010	KCHI	US	39-45-51 N	93-33-21 W	0.25	D	N	B	O	88.7	152.08	MO	CHILLICOTHE		
1010	KCHI	US	39-45-51 N	93-33-21 W	0.25	N	N	B	P	88.7	152.08	MO	CHILLICOTHE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1010	KXEN	US	38-45-59 N	90- 3-35 W	50.00	D	D	B	P		2261.13	MO	FESTUS-SAINT LOUIS	79.37	

NO. DE TOUR	RAPRORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	96.0	
2	0.9500	102.0000	80.0000	48.6000	96.0	
3	1.7000	0.0000	208.0000	138.6000	96.0	
4	1.6200	102.0000	222.8542	117.5625	96.0	
5	0.8100	0.0000	416.0000	138.6000	96.0	
6	0.7700	102.0000	423.6225	127.7145	96.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1010	KXEN	US	38-45-43 N	90- 3-26 W	50.00	D	D	B	O		2261.13	MO	FESTUS-SAINT LOUIS	79.37	

NO. DE TOUR	RAPRORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	96.0	
2	0.9500	102.0000	80.0000	48.6000	96.0	
3	1.7000	0.0000	208.0000	138.6000	96.0	
4	1.6200	102.0000	222.8542	117.5625	96.0	
5	0.8100	0.0000	416.0000	138.6000	96.0	
6	0.7700	102.0000	423.6225	127.7145	96.0	

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	260.0	40.0	2613.6	2	280.0	20.0	152.9

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1010	KXEN	US	38-45-43 N	90- 3-26 W	0.25	N	N	B	P	96.0	154.50	MO	FESTUS-ST. LOUIS		70

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1010	WMOX	US	32-23-42 N	88-39-28 W	10.00	D	D	B	O		925.37	MS	MERIDIAN	31.62	

NO. DE TOUR	RAPRORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.4000	45.0000	0.0000	0.0000	70.0	
2	0.9570	-133.9000	100.0000	52.5000	70.0	
3	0.4000	-45.0000	200.0000	52.5000	70.0	

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	2.0	14.0	708.1	6	78.0	51.0	703.3
2	9.0	14.0	700.1	7	114.0	10.0	703.3
3	16.0	14.0	700.1	8	142.0	56.0	695.2
4	33.0	34.0	700.1	9	277.5	65.0	1219.9
5	52.5	10.0	724.2	10	350.0	24.0	708.1

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	WMOX	US	32-23-42 N	88-39-28 W	1.00	N	D	B	O		291.29	MS	MERIDIAN	12.43	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	-43.0000	0.0000	0.0000	70.0	
2	2.1130	106.8000	100.0000	52.5000	70.0	
3	2.1130	-106.8000	200.0000	52.5000	70.0	
4	1.0000	43.0000	300.0000	52.5000	70.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	2.0	14.0	77.2	10	151.0	18.0	35.4
2	9.0	14.0	70.8	11	288.0	10.0	248.2
3	16.0	14.0	56.3	12	310.0	12.0	32.2
4	34.0	36.0	40.2	13	317.5	15.0	38.6
5	52.5	37.0	69.2	14	325.0	13.0	41.8
6	52.5	10.0	72.4	15	331.5	13.0	37.8
7	78.0	10.0	32.2	16	338.0	13.0	33.0
8	134.0	16.0	37.8	17	350.0	24.0	64.4
9	142.0	16.0	41.8				

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	WMOX	US	32-23-42 N	88-39-28 W	2.50	N	D	B	P		462.69	MS	MERIDIAN	15.81	59

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.4070	186.0000	0.0000	0.0000	70.0	
2	1.0000	0.0000	100.0000	52.5000	70.0	
3	0.4070	71.0000	200.0000	52.5000	70.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	WWWX	US	35-22-40 N	80-11-38 W	1.00	D	N	B	O	92.4	307.38	NC	ALBEMARLE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1010	WFGW	US	35-36-19 N	82-21- 0 W	10.00	C	D	B	0		984.92	NC	BLACK MOUNTAIN	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	2.7320	0.0000	0.0000	0.0000	90.0	
2	1.0000	82.4000	170.0000	50.0000	90.0	
3	1.0000	-82.4000	170.0000	230.0000	90.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	2.5	15.0	305.8	6	217.5	25.0	1038.0
2	25.0	30.0	579.4	7	230.0	25.0	988.2
3	97.5	15.0	289.7	8	242.5	25.0	1038.0
4	105.0	15.0	278.4	9	340.0	30.0	418.4
5	115.5	21.0	346.0	10	355.0	15.0	278.4

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1010	WFGW	US	35-36-19 N	82-21- 0 W	50.00	D	D	B	0		2182.27	NC	BLACK MOUNTAIN	70.71	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	2.4680	0.0000	0.0000	0.0000	90.0	
2	1.0000	49.8000	170.0000	50.0000	90.0	
3	1.0000	-49.8000	170.0000	230.0000	90.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	10.0	15.0	434.5	4	230.0	25.0	1345.7
2	90.0	15.0	434.5	5	242.5	25.0	1443.3
3	217.0	26.0	1455.8				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1010	WFGW	US	35-36-19 N	82-21- 0 W	2.50	N	D	B	P		474.76	NC	BLACK MOUNTAIN	15.81	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.0000	15.5000	175.0000	9.0000	90.0	
3	1.0000	92.0000	90.0000	257.0000	90.0	
4	1.0000	107.5000	164.1000	338.4000	90.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1010	WELS	US	35-15-45 N	77-37-35 W	1.00	D	N	B	0	88.7	304.17	NC	KINSTON		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	WELS	US	35-15-45 N	77-37-35 W	1.00	N	N	B	P 88.7	304.17	NC	KINSTON		68
1010	WCNL	US	43-21-52 N	72-10-45 W	0.25	D	N	B	O 73.9	148.06	NH	NEWPORT		
1010	WINS	US	40-48-16 N	74- 6-25 W	50.00	N	D	B	P	2615.18	NY	NEW YORK	83.53	64,65

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	117.0	
2	2.4600	141.6400	101.0000	277.0000	117.0	
3	2.6700	-89.9300	202.0000	277.0000	117.0	
4	0.9400	38.0000	303.0000	277.0000	117.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	WINS	US	40-48-16 N	74- 6-25 W	50.00	U	D	B	O	2498.35	NY	NEW YORK	82.53	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	19.8000	0.0000	0.0000	73.9	
2	2.4800	-112.4000	101.0000	97.0000	73.9	
3	2.4800	112.4000	202.0000	97.0000	73.9	
4	1.0000	-19.8000	303.0000	97.0000	73.9	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	7.0	26.0	193.1	15	210.0	10.0	321.9
2	12.0	10.0	241.4	16	219.5	14.0	64.4
3	22.0	20.0	965.6	17	230.0	40.0	103.2
4	82.0	30.0	5331.8	18	253.0	46.0	156.4
5	97.0	60.0	5642.8	19	253.0	10.0	289.7
6	127.0	60.0	4893.9	20	277.0	46.0	346.0
7	150.0	22.0	3061.0	21	300.0	10.0	201.2
8	162.0	38.0	1857.2	22	307.5	15.0	80.5
9	181.0	12.0	321.9	23	315.0	15.0	66.0
10	187.0	12.0	260.7	24	315.0	10.0	80.5
11	192.5	11.0	241.4	25	322.0	10.0	59.2
12	200.0	20.0	249.4	26	337.0	34.0	93.3
13	205.0	10.0	251.1	27	354.0	26.0	257.5
14	210.0	20.0	177.0				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1010	WIOI	US	38-43-48 N	82-57-10 W	1.00	D	N	B	O	92.4	286.46	OH	NEW BOSTON		
1010	NEW	US	45-29-48 N	122-48-30 W	0.25	D	N	B	P	56.6	141.62	OR	BEAVERTON		
1010	NEW	US	42-13-15 N	121-42-30 W	1.00	D	N	B	P	88.7	308.99	OR	KLAMATH FALLS		
1010	NEW	US	45-28-27 N	122-39-33 W	0.25	D	N	B	P	88.7	152.08	OR	MILWAUKEE		
1010	NEW	US	45-46-15 N	111-13-26 W	1.00	N	D	B	P		321.23	OR	MILWAUKEE	10.00	
1	1.0000		0.0000	0.0000	0.0000	88.7									
2	2.0000		80.0000	120.0000	5.0000	88.7									
3	1.0000		152.0000	240.0000	5.0000	88.7									
1010	WTGC	US	40-56-40 N	76-52-45 W	1.00	D	N	B	O	90.6	305.78	PA	LEWISBURG		
1010	WTGC	US	40-56-40 N	76-52-45 W	1.00	N	D	B	P		305.78	PA	LEWISBURG	10.30	74
1	1.0000		0.0000	0.0000	0.0000	90.6									
2	1.0000		150.0000	90.0000	195.0000	90.6									
1010	WHIN	US	36-26- 0 N	86-28- 0 W	5.00	D	N	B	P	92.4	687.33	TN	GALLATIN		
1010	WHIN	US	36-26- 0 N	86-28- 0 W	1.00	D	N	B	O	92.4	307.38	TN	GALLATIN		
1010	WHIN	US	36-26- 0 N	86-28- 0 W	5.00	N	D	B	P		777.31	TN	GALLATIN	27.49	63
1	1.0000		0.0000	0.0000	0.0000	88.7									
2	1.5736		-135.3300	90.0000	65.0000	88.7									
3	0.8100		89.3500	180.0000	65.0000	88.7									
1010	WORM	US	35-14-24 N	88-14-29 W	0.25	D	N	B	O	85.0	151.28	TN	SAVANNAH		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	KDJW	US	35-13-14 N	101-46-21 W	5.00		D	D	B	0			656.45 TX AMARILLO	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	92.5	
2	0.6000	-77.0000	160.0000	225.0000	64.7	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	90.5	25.0	280.0	5	347.0	24.0	320.3
2	103.0	25.0	310.6	6	359.0	24.0	273.6
3	185.0	10.0	905.2	7	359.0	10.0	289.7
4	244.0	10.0	804.3				

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	KDJW	US	35-13-14 N	101-46-21 W	0.50		N	D	B	0			204.39 TX AMARILLO	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	92.5	
2	0.6000	-77.0000	160.0000	225.0000	64.7	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	9.5	21.0	99.8	12	119.0	10.0	164.2
2	20.0	10.0	122.3	13	185.0	10.0	285.6
3	25.0	10.0	132.0	14	244.5	13.0	255.9
4	33.0	12.0	144.8	15	315.0	10.0	237.5
5	39.0	12.0	151.9	16	320.0	10.0	221.0
6	45.0	12.0	156.8	17	325.0	10.0	197.6
7	52.0	14.0	154.5	18	330.0	10.0	169.0
8	59.0	14.0	149.7	19	335.0	10.0	144.8
9	75.0	31.0	120.7	20	347.0	24.0	101.4
10	90.5	29.0	91.7	21	359.0	21.0	91.7
11	105.0	28.0	99.8				

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	KLAT	US	29-53-47 N	95-17-25 W	5.00		D	D	B	0			680.75 TX HOUSTON	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.5200	-141.7000	0.0000	0.0000	88.7	
2	1.0000	0.0000	80.0000	0.0000	88.7	
3	0.5200	141.7000	160.0000	0.0000	88.7	
4	0.5200	157.7000	183.5756	29.3578	88.7	
5	1.0000	16.0000	120.4159	48.3665	88.7	
6	0.5200	-125.7000	90.0000	90.0000	88.7	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	20.0	40.0	159.3	6	204.0	48.0	1382.8
2	50.0	40.0	37.0	7	235.0	55.0	801.5
3	70.0	40.0	37.8	8	290.0	40.0	37.8
4	155.0	50.0	1251.2	9	310.0	30.0	38.6
5	180.0	48.0	1508.3	10	325.0	30.0	80.5

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	KLAT	US	29-53-47 N	95-17-25 W	1.00		N	D	B	P			305.78 TX HOUSTON	20.08	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	88.7
2	1.1200	175.9000	100.0000	0.0000	88.7
3	1.0100	-1.2000	180.0000	0.0000	88.7
4	1.0600	64.2000	134.5400	41.9900	88.7
5	1.4900	-120.0000	201.2480	26.5671	88.7
6	0.8900	58.0000	275.1372	19.0951	88.7

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	KLAT	US	29-53-47 N	95-17-25 W	5.00		N	D	B	P			692.00 TX HOUSTON	22.90	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	0.2510	5.3000	0.0000	0.0000	88.7
2	0.9540	143.0000	100.0000	0.0000	88.7
3	0.7970	-82.6000	180.0000	0.0000	88.7
4	0.2550	39.8000	260.0000	0.0000	88.7
5	0.2000	-79.8000	275.1363	19.0935	88.7
6	1.1160	132.8000	80.0000	180.0000	88.7
7	1.0000	0.0000	160.0000	180.0000	88.7

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	KLAT	US	29-53-47 N	95-17-25 W	0.25	N	D	B	0	152.24	TX	HOUSTON	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.5200	-141.7000	0.0000	0.0000	88.7	
2	1.0000	0.0000	80.0000	0.0000	88.7	
3	0.5200	141.7000	160.0000	0.0000	88.7	
4	0.5200	157.7000	183.5756	29.3578	88.7	
5	1.0000	16.0000	120.4159	48.3665	88.7	
6	0.5200	-125.7000	90.0000	90.0000	88.7	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	40.0	50.4	6	204.0	48.0	309.2
2	20.0	40.0	35.6	7	235.0	55.0	179.1
3	50.0	40.0	9.3	8	310.0	10.0	8.7
4	155.0	50.0	279.7	9	315.0	10.0	18.0
5	180.0	48.0	337.2	10	340.0	40.0	38.5

1010	KKIK	US	31-34- 9 N	97- 0- 0 W	10.00	D	D	B	0	989.75	TX	WACO-MARLIN	41.96	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.5600	29.0000	0.0000	0.0000	90.0	
2	1.0620	-176.1000	90.0000	352.0000	90.0	
3	1.0000	-29.0000	180.0000	352.0000	90.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	92.0	10.0	434.5	2	305.0	10.0	354.1

1010	KKIK	US	31-30- 2 N	96-57-52 W	2.50	N	D	B	0	450.78	TX	WACO-MARLIN	15.81	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	99.8	
2	1.7430	85.6600	204.0000	45.0000	99.8	
3	2.5350	166.9400	408.0000	45.0000	99.8	
4	2.4490	257.2499	611.9999	45.0000	99.8	
5	1.6330	341.0600	815.9998	45.0000	99.8	
6	1.3690	81.0000	1019.9999	45.0000	99.8	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1010	KDYL	US	40-32-36 N	112-18-33 W	0.50		N	D	B	P		218.87	UT	TOOELE	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	92.4
2	0.8300	97.5000	90.0000	356.0000	92.4

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1010	KTLE	US	40-32-36 N	112-18-33 W	2.50		C	N	B	P	90.6	486.02	UT	TOOELE		
1010	KTLE	US	40-32-36 N	112-18-33 W	50.00		D	N	B	P	90.6	2173.54	UT	TOOELE		
1010	WMEV	US	36-51-23 N	81-30-21 W	1.00		D	N	B	O	90.6	305.78	VA	MARION		
1010	WPMH	US	36-49-20 N	76-26-38 W	5.00		D	D	B	O		638.91	VA	PORTSMOUTH	46.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	-253.8000	0.0000	0.0000	90.0
2	1.8000	-93.4000	90.0000	285.0000	90.0
3	1.3300	73.7000	180.0000	-75.0000	90.0
4	0.5400	253.7999	270.0000	-75.0000	90.0

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	7.0	10.0	64.4	8	182.5	41.0	338.0
2	10.0	10.0	88.5	9	203.0	41.0	111.0
3	48.0	58.0	515.0	10	225.0	40.0	273.6
4	77.0	56.0	1189.3	11	245.0	40.0	178.2
5	105.0	56.0	1553.3	12	325.0	40.0	152.9
6	133.0	56.0	1189.2	13	345.0	40.0	233.4
7	162.0	41.0	515.0				

1010	WPMH	US	36-49-20 N	76-26-38 W	0.25		N	N	B	P	90.0	152.89	VA	PORTSMOUTH		71
1010	WXYQ	US	44-32-17 N	89-35-43 W	1.00		D	N	B	O	146.4	346.01	WI	STEVENS POINT		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1010	WXYQ	US	44-27-58 N	89-37-20 W	2.50	N	D	B	P		471.38	WI	STEVENS POINT	15.81	61,62
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.0000		0.0000	180.0000	310.0000	90.0									
3	1.0000		0.0000	360.0000	310.0000	90.0									
1010	WCST	US	39-37- 0 N	78-13- 3 W	0.25	D	N	B	D	85.0	151.28	WV	BERKELEY SPRINGS		
1020	NEW	CA	54-31- 1 N	128-36- 1 W	10.00	D	N	B	P	90.0	946.59	BC	TERRACE		
1020	NEW	CA	54-31- 1 N	128-36- 1 W	1.00	N	N	B	P	90.0	308.99	BC	TERRACE		
1020	NEW	CA	45-34- 2 N	62-31-57 W	10.00	D	N	B	P	90.0	946.59	NS	NEW GLASGOW		
1020	NEW	CA	45-34- 0 N	62-32- 0 W	1.00	N	D	B	P		316.40	NS	NEW GLASGOW	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9961		262.2000	90.0000	105.0000	90.0									
3	1.0000		164.4000	180.0000	105.0000	90.0									
1020	NEW	CA	49-43-58 N	94-25- 4 W	10.00	D	N	B	P	90.0	946.59	ON	KENORA		
1020	NEW	CA	49-44- 0 N	94-25- 0 W	1.00	N	D	B	P		331.49	ON	KENORA	10.76	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.7300		235.4200	90.0000	1.5000	90.0									
3	2.7300		111.4800	180.0000	1.5000	90.0									
4	1.0000		346.8999	270.0000	1.5000	90.0									
1020	831219	CA	51-11- 0 N	102-23- 0 W	10.00	D	D	B	P		957.59	SA	YORKTON	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.8000		250.0000	90.0000	332.0000	90.0									
3	0.8200		148.0000	180.0000	332.0000	90.0									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1020	831219	CA	51-11- 0 N	102-23- 0 W	7.50	N	D	B	P		840.03	SA	YORKTON	27.39	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	1.8000	254.0000	90.0000	332.0000	90.0									
	3	0.8200	148.0000	180.0000	332.0000	90.0									
1020	NEW	US	31-20- 0 N	110-56- 0 W	10.00	D	N	B	P	90.0	966.95	AZ	NOGALES		
1020	NEW	US	31-20- 0 N	110-56- 0 W	1.00	N	D	B	P		320.58	AZ	NOGALES	10.02	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.7000	135.0000	90.0000	3.0000	90.0									
1020	KTNQ	US	34- 2- 0 N	117-59- 0 W	50.00	D	D	B	0		2678.75	CA	LOS ANGELES	83.67	
	1	1.0000	0.0000	0.0000	0.0000	180.0									
	2	0.7800	-95.0000	100.0000	252.0000	180.0									
	3	0.2000	-86.0000	203.1700	310.5000	180.0									
	4	0.1800	-20.0000	173.4000	340.0000	180.0									
	5	0.3900	161.0000	82.1000	41.0000	180.0									
1020	KTNQ	US	34- 2- 0 N	117-59- 0 W	50.00	N	D	B	0		2550.81	CA	LOS ANGELES	77.10	
	1	1.0000	0.0000	0.0000	0.0000	180.0									
	2	1.0600	9.4200	173.4000	340.0000	180.0									
	3	1.1100	92.8200	197.2000	10.5000	180.0									
	4	1.0480	83.4000	100.0000	72.0000	180.0									
		AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)					AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)		
		1	125.0	40.0	965.6										
1020	WCIL	US	37-43-31 N	89-15-25 W	1.00	D	N	B	P	157.5	320.26	IL	CARBONDALE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
1020	WCIL	US	37-43-31 N	89-15-25 W	1.00	D	N	B	O	112.7	320.26	IL	CARBONDALE		
1020	WPEO	US	40-41-53 N	89-31-31 W	1.00	D	N	B	O	89.6	305.78	IL	PEORIA		
1020	WKQT	US	30- 4-15 N	90-37- 6 W	50.00	D	D	B	P		2204.99	LA	GARYVILLE	73.68	
1	1.0000		0.0000	0.0000	0.0000	134.4									
2	0.9700		-11.0000	180.0000	35.0000	134.4									
3	0.9400		-118.0000	254.8000	42.6000	134.4									
4	0.9700		-107.0000	80.0000	60.0000	134.4									
1020	WKQT	US	30- 4-15 N	90-37- 6 W	0.25	N	D	B	P		172.99	LA	GARYVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000	134.4									
2	1.8800		110.4000	90.0000	35.0000	134.4									
3	0.9200		-139.5000	180.0000	35.0000	134.4									
1020	821019	US	47-44-40 N	103-14- 9 W	5.00	D	N	B	P	82.1	672.94	ND	WATFORD CITY		
1020	821019	US	47-44-40 N	103-14- 9 W	1.00	N	D	B	P		175.00	ND	WATFORD CITY	10.00	
1	1.0000		0.0000	0.0000	0.0000	82.1									
2	0.9500		111.0000	75.0000	110.0000	82.1									
1020	830303	US	47-44-40 N	103-14- 9 W	5.00	D	D	B	P		672.93	ND	WATFORD CITY	27.36	
1	1.0000		0.0000	0.0000	0.0000	82.1									
2	1.0000		165.0000	75.0000	290.0000	82.1									
1020	NEW	US	47-44-32 N	103-13- 8 W	5.00	D	N	B	P	82.1	672.94	ND	WATFORD CITY		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1020	NEW	US 47-44-32 N 103-13- 8 W	1.00	N D B P		281.99 ND WATFORD CITY 10.00
1	1.0000	0.0000	0.0000	0.0000	82.1	
2	0.9500	106.0000	80.0000	110.0000	82.1	
1020	KBCQ	US 33-27-53 N 104-29-58 W	50.00	D D B O		2188.71 NM ROSWELL 70.71
1	1.0000	-50.5000	0.0000	0.0000	90.0	
2	2.0050	9.3000	140.0000	60.0000	90.0	
3	1.0000	50.5000	280.0000	60.0000	90.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	21.0	10.0	346.0	7	66.5	13.0	329.9
2	30.0	10.0	331.5	8	73.0	13.0	329.9
3	35.0	10.0	329.9	9	81.0	16.0	329.9
4	40.0	10.0	329.9	10	89.0	16.0	320.3
5	50.0	20.0	329.9	11	89.0	10.0	329.9
6	60.0	13.0	329.9	12	98.5	10.0	338.0

1020	KBCQ-	US	33-27-53 N 104-29-58 W	50.00	N	D	B	P		2114.68 NM ROSWELL				70.71	
1	0.2263		-158.8400	0.0000	0.0000		90.0								
2	0.4500		-110.3500	140.0000	60.0000		90.0								
3	0.2263		-61.8000	280.0000	60.0000		90.0								
4	0.5029		-48.0000	266.0000	204.0000		90.0								
5	1.0000		0.0000	183.6327	174.3214		90.0								
6	0.5029		48.0000	189.4358	130.2742		90.0								

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1020	KBCQ-L	US	33-27-53 N	104-29-58 W	50.00		N	D	B	O	2114.68	NM	ROSWELL	70.71	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.2260	-158.8000	0.0000	0.0000	90.0	
2	0.4500	-110.4000	140.0000	60.0000	90.0	
3	0.2260	-61.8000	280.0000	60.0000	90.0	
4	0.5030	48.0000	169.2478	127.4879	90.0	
5	1.0000	0.0000	163.4673	177.2183	90.0	
6	0.5030	-48.0000	252.9788	207.9134	90.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	10.0	40.0	449.2	12	98.0	18.0	128.7
2	30.0	20.0	48.1	13	130.0	30.0	643.7
3	30.0	10.0	90.1	14	145.0	10.0	1689.8
4	40.0	20.0	27.2	15	174.0	49.0	4440.0
5	40.0	10.0	48.3	16	198.5	49.0	3578.7
6	60.0	26.0	34.9	17	223.0	34.0	2649.6
7	60.0	10.0	41.0	18	240.0	34.0	2166.0
8	73.0	26.0	35.2	19	279.0	70.0	1094.4
9	73.0	10.0	41.8	20	314.0	70.0	4405.4
10	89.0	18.0	31.5	21	350.0	40.0	1779.9
11	89.0	10.0	56.3	22	350.0	10.0	1850.7

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1020	KDKA	US	40-33-25 N	79-57- 8 W	50.00		U	N	A	O	3379.79	PA	PITTSBURGH		

SO A = 133.1 B = 46.9 C = 266.2 D = 0.0

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1020	WEAG	US	35-48-15 N	83-57-15 W	1.00		D	N	B	P	73.2	294.51	TN	ALCOA	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1020	KWIQ	US	47- 6- 9 N	119-14-26 W	5.00		D	N	B	P	78.4	644.15	WA	MOSES LAKE NORTH	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1020	KWIQ	US	47-10-49 N	119-16- 3 W	0.50		N	N	B	P	59.7	201.42	WA	MOSES LAKE NORTH	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1020	NEW	US	46-40-17 N	120-30-15 W	5.00	D	D	B	P		679.47	WA	SELAH	22.36	
1	1.0000	0.0000	0.0000	0.0000	112.0										
2	0.9100	300.0000	120.0000	241.5000	74.6										
1020	NEW	US	46-40-17 N	120-30-15 W	0.50	N	N	B	P	112.0	225.32	WA	SELAH		
1030	NEW	CA	53-34-59 N	116-25-51 W	10.00	D	N	B	P	90.0	946.59	AB	EDSON		
1030	NEW	CA	53-35- 0 N	116-26- 0 W	0.30	N	N	B	P	90.0	177.03	AB	EDSON		
1030	NEW	CA	53-54- 0 N	122-40- 0 W	10.00	D	N	B	P	90.0	949.49	BC	PRINCE GEORGE		
1030	NEW	CA	53-54- 0 N	122-40- 0 W	10.00	N	D	B	P		1007.50	BC	PRINCE GEORGE	31.62	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.7500	240.0000	90.0000	317.0000	90.0										
1030	NEW	CA	46- 4-59 N	67-47- 4 W	50.00	D	N	B	P	90.0	2128.02	NB	MONCTON		
1030	NEW	CA	46- 5- 0 N	64-47- 0 W	1.00	N	D	B	P		321.79	NB	MONCTON	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9800	254.5000	90.0000	65.4000	90.0										
3	1.0000	149.1000	180.0000	65.4000	90.0										
1030	NEW	CA	47-33- 0 N	52-48- 0 W	10.00	D	N	B	P	90.0	946.59	NF	ST. JOHN'S		
1030	NEW	CA	47-33- 0 N	52-48- 0 W	10.00	N	D	B	P		974.99	NF	ST. JOHN'S	31.62	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.0000	268.0000	90.0000	82.4000	90.0										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1030	KHOG	US	36- 6-34 N	94-10-59 W	10.00	D	N	B	P	60.0	900.79	AR	FARMINGTON		
1030	KHOG	US	36- 6-34 N	94-10-59 W	1.00	N	D	B	P		282.09	AR	FARMINGTON	12.71	
1	1.0000		0.0000	0.0000	0.0000	60.0									
2	1.7900		-132.0000	60.0000	210.0000	60.0									
3	0.8100		-264.0000	120.0000	210.0000	60.0									
1030	NEW	US	33- 0-50 N	111-22-38 W	2.50	D	N	B	P	73.0	465.66	AZ	FLORENCE		
1030	NEW	US	33- 0-50 N	111-22-38 W	0.25	N	N	B	P	73.0	147.25	AZ	FLORENCE		
1030	NEW	US	32-43- 0 N	114-38- 0 W	1.00	N	D	B	P		360.49	AZ	YUMA	13.05	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6810		139.7000	100.0000	19.7500	90.0									
3	2.6810		-79.7000	200.0000	19.7500	90.0									
4	1.0000		60.0000	300.0000	19.7500	90.0									
1030	NEW	US	38-41-38 N	121- 6-37 W	50.00	D	D	B	P		2153.95	CA	FOLSOM	73.13	
1	1.0000		0.0000	0.0000	0.0000	72.0									
2	0.8000		245.0000	75.0000	330.0000	72.0									
3	0.4000		130.0000	106.1000	15.0000	72.0									
4	0.5000		245.0000	75.0000	60.0000	72.0									
1030	NEW	US	38-41-38 N	121- 6-37 W	1.00	N	D	B	P		289.84	CA	FOLSOM	11.90	
1	1.0000		0.0000	0.0000	0.0000	72.0									
2	0.9500		225.0000	75.0000	330.0000	72.0									
3	0.9000		-20.0000	106.1000	15.0000	72.0									
4	0.9500		115.0000	75.0000	60.0000	72.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1030	NEW	US	35-14-56 N	120-35-34 W	50.00	D	D	B	P		2066.88	CA	SAN LUIS OBISPO	144.52	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	72.3	
2	1.7900	164.7100	90.0000	75.0000	72.3	
3	1.5400	-35.4500	180.0000	75.0000	72.3	
4	0.5400	137.2300	270.0000	75.0000	72.3	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1030	USSA-1	US	35-14-56 N	120-35-34 W	1.00	N	D	B	P		302.86	CA	SAN LUIS OBISPO	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	72.3	
2	0.9200	100.0000	90.0000	75.0000	72.3	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1030	NEW	US	42-13-59 N	87-56-34 W	0.50	D	D	B	P		204.06	IL	VERNON HILLS	10.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	60.0	
2	0.5500	117.9999	60.0000	15.0000	60.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1030	NEW	US	40-12-54 N	84-49-23 W	5.00	D	D	B	P		665.09	IN	UNION CITY	22.36	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	60.3	
2	0.7000	130.0000	75.0000	40.0000	60.3	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1030	820816	US	38- 0- 1 N	100-53-54 W	25.00	D	D	B	P		1476.99	KS	HOLCOMB	50.00	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	99.8	
2	0.4000	34.0000	162.1000	137.2000	99.8	
3	0.4000	119.0000	203.8300	115.5600	82.8	
4	1.0000	85.0000	80.0000	67.2000	82.8	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1030	820816	US	38- 0- 1 N	100-53-54 W	1.00	N	D	B	P		292.88	KS	HOLCOMB	10.00	
1	1.0000		0.0000	0.0000	0.0000	99.8									
2	0.8000		-20.0000	162.1000	137.2000	99.8									
3	0.7240		83.0000	203.8300	116.0000	82.8									
4	0.9050		103.0000	80.0000	67.2000	82.8									
1030	KBUF	US	38- 0- 1 N	100-53-54 W	25.00	D	D	B	P		1565.09	KS	HOLCOMB	50.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.6000		40.0000	148.3000	137.2000	90.0									
3	0.4500		144.9999	191.1000	116.0000	90.0									
4	0.7500		105.0000	80.0000	67.2000	90.0									
1030	KBUF	US	38- 0- 1 N	100-53-54 W	1.00	N	D	B	P		293.08	KS	HOLCOMB	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		-10.0000	148.3000	137.0000	90.0									
3	1.0000		96.0000	191.1000	116.0000	90.0									
4	1.0000		106.0000	80.0000	67.2000	90.0									
1030	NEW	US	37-46-32 N	97-10-10 W	1.00	D	D	B	P		290.66	KS	WICHITA	10.00	
1	1.0000		0.0000	0.0000	0.0000	100.0									
2	1.0000		9.0000	194.0000	314.0000	100.0									
3	1.0000		92.0000	90.0000	55.0000	100.0									
4	1.0000		101.0000	197.6700	340.5500	100.0									
1030	NEW	US	37-46-32 N	97-10-10 W	1.00	N	D	B	P		290.62	KS	WICHITA	10.00	
1	1.0000		0.0000	0.0000	0.0000	100.0									
2	1.3700		347.9998	194.0000	314.0000	100.0									
3	1.0810		91.5000	90.0000	55.0000	100.0									
4	1.4800		439.4998	197.6700	340.5500	100.0									

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1030	WHLN	US	36-50-59 N	83-23-41 W	10.00	D N B	P 128.2	1043.28	KY	HARLAN		
1030	NEW	US	38- 7- 9 N	85-49- 8 W	1.00	D N B	P 71.6	292.90	KY	PLEASURE RIDGE PAR		
1030	WBZ	US	42-16-44 N	70-52-34 W	50.00	U D A	O	2783.99	MA	BOSTON	71.11	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	188.5	
2	1.0000	86.4000	93.6000	90.0000	188.5	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	45.0	90.0	1110.0	4	252.0	36.0	4088.0
2	90.0	90.0	337.0	5	297.5	55.0	4184.0
3	135.0	90.0	1307.0				

1030	NEW	US	42-36-55 N	83- 2- 4 W	5.00	D D B	P	698.86	MI	STERLING HEIGHTS	22.36	
1	1.0000		0.0000	0.0000	0.0000	90.0						
2	0.6100		106.0000	90.0000	160.0000	90.0						
1030	WMIN	US	44-55-15 N	92-58-52 W	50.00	D D B	P	2115.00	MN	MAPLEWOOD	70.71	
1	1.0000		0.0000	0.0000	0.0000	90.0						
2	0.7500		-111.0000	90.0000	340.0000	90.0						
1030	WMIN	US	44-55-15 N	92-58-52 W	0.50	N D B	P	216.99	MN	MAPLEWOOD	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0						
2	2.6770		219.7599	90.0000	340.0000	90.0						
3	2.6770		79.8450	180.0000	340.0000	90.0						
4	1.0000		-60.3000	270.0000	340.0000	90.0						

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1030	821201	US	45-38-47 N	94-11-53 W	10.00		D	D	B	P		318.65	MN	SARTELL	31.62	
1	1.0000	0.0000	0.0000	0.0000	110.0											
2	0.7250	90.0000	90.0000	113.5000	110.0											
1030	821201	US	45-38-47 N	94-11-53 W	1.00		N	D	B	P		295.31	MN	SARTELL	10.00	
1	1.0000	0.0000	0.0000	0.0000	110.0											
2	1.7937	-31.8000	165.0000	276.5000	110.0											
3	0.8500	-61.2500	330.0000	276.5000	110.0											
1030	NEW	US	45-38-47 N	94-11-53 W	10.00		D	N	B	P	110.0	1007.66	MN	SARTELL		
1030	USSA-2	US	45-38-47 N	94-11-53 W	1.00		N	D	B	P		295.68	MN	SARTELL	10.00	
1	1.0000	32.0000	0.0000	0.0000	110.0											
2	1.8750	0.0000	159.5000	274.0000	110.0											
3	1.0000	-32.0000	319.0000	274.0000	110.0											
1030	NEW	US	39- 2-44 N	94-14- 6 W	1.00		D	D	B	P		309.04	MO	BLUE SPRINGS	10.00	
1	1.0000	0.0000	0.0000	0.0000	73.5											
2	0.5200	-98.0000	90.0000	212.0000	73.5											
1030	NEW	US	39- 2-44 N	94-14- 6 W	0.50		N	D	B	P		211.63	MO	BLUE SPRINGS	10.00	
1	1.0000	0.0000	0.0000	0.0000	73.5											
2	1.8200	-128.0000	90.0000	212.0000	73.5											
3	1.0000	104.0000	180.0000	212.0000	73.5											

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1030	NEW	US	39-13-48 N	92- 6-58 W	5.00	D	D	B	P		738.19	MO	HALLSVILLE	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.4400	109.5000	0.0000	0.0000	90.0	
2	1.0000	0.0000	103.2380	164.9290	90.0	
3	0.8700	-113.0000	206.4770	164.9290	90.0	
4	0.3000	132.4999	309.7140	164.9290	90.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1030	NEW	US	39-13-48 N	92- 6-58 W	1.00	N	D	B	P		308.95	MO	HALLSVILLE	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.5300	-116.0000	0.0000	0.0000	90.0	
2	1.0000	0.0000	90.0000	43.0000	90.0	
3	0.5300	116.0000	180.0000	43.0000	90.0	
4	0.5300	-118.0000	189.0000	111.0000	90.0	
5	1.0000	-2.0000	237.8340	90.4600	90.0	
6	0.5300	114.0000	305.9560	77.9400	90.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1030	WPTW	US	40- 8-26 N	84-16- 8 W	1.00	D	N	B	P	75.4	294.51	OH	PIQUA		
1030	WTRJ	US	40- 1- 8 N	84-14-29 W	2.50	D	N	B	P	61.5	455.36	OH	TROY		
1030	WKFI	US	39-26-13 N	83-51-19 W	2.50	D	N	B	P	67.8	458.03	OH	WILMINGTON		
1030	NEW	US	40- 8-17 N	83- 0-32 W	2.50	D	N	B	P	73.9	465.64	OH	WORTHINGTON		
1030	KDUN	US	43-44-17 N	124- 4-30 W	10.00	D	N	B	P	113.1	1002.57	OR	REEDSPORT		
1030	KDUN	US	43-44-17 N	124- 4-30 W	0.50	N	N	B	P	113.1	224.18	OR	REEDSPORT		
1030	WOSO	US	18-22- 7 N	66-15-17 W	10.00	U	D	B	O		1033.20	PR	SAN JUAN	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.1	
2	1.6090	119.2000	90.0000	304.0000	90.1	
3	0.9940	234.0999	180.0000	-56.0000	90.1	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR CL S / HRS DIR CL S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					

1030	NEW	US	35-10-49 N	89-56-25 W	10.00	C N B P	90.0	977.13	TN	MEMPHIS		
1030	NEW	US	35-10-49 N	89-56-25 W	50.00	D N B P	90.0	2162.16	TN	MEMPHIS		
1030	NEW	US	35-10-49 N	89-56-25 W	1.00	N D B P		322.35	TN	MEMPHIS	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0							
2	2.0000	249.9999	90.0000	230.0000	90.0							
3	1.0000	140.0000	180.0000	230.0000	90.0							
1030	WLOK	US	35-10-58 N	89-56- 7 W	50.00	D D B P		2677.37	TN	MEMPHIS	70.71	
1	1.0000	0.0000	0.0000	0.0000	180.0							
2	0.4600	92.7000	90.0000	49.0000	180.0							
1030	WLOK	US	35-10-58 N	89-56- 7 W	1.00	N D B P		385.97	TN	MEMPHIS	10.75	
1	1.8900	107.5000	0.0000	0.0000	180.0							
2	1.0000	0.0000	90.0000	229.0000	180.0							
3	0.9200	219.9999	90.0000	46.0000	180.0							
1030	WBDX	US	36- 8- 3 N	87-12-58 W	1.00	D N B P		440.96	TN	WHITE BLUFF		
						T A = 169.5 B = 59.0 C = 0.0 D = 0.0						
1030	WBDX	US	36- 8- 3 N	87-12-58 W	0.25	N D B P		154.50	TN	WHITE BLUFF	10.00	
1	1.0000	0.0000	0.0000	0.0000		T A = 169.5 B = 59.0 C = 0.0 D = 0.0						
2	1.9400	114.0000	90.0000	60.0000		T A = 169.5 B = 59.0 C = 0.0 D = 0.0						
3	1.0000	-131.8000	180.0000	60.0000		T A = 169.5 B = 59.0 C = 0.0 D = 0.0						
1030	KCTA	US	27-56- 3 N	97-15-33 W	50.00	D N B P	90.5	2162.16	TX	CORPUS CHRISTI		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1030	KCTA-A	US	27-56- 3 N	97-15-33 W	1.00		N	D	B	P		317.52	TX CORPUS CHRISTI	10.00	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.9000	105.0000	90.0000	25.0000	90.0									
1030	KCTA-L	US	27-56- 1 N	97-15-34 W	50.00		U	N	B	O	131.9	2184.92	TX CORPUS CHRISTI		
1030	KMAS	US	47-13-17 N	123- 4-46 W	5.00		D	N	B	P	75.4	662.14	WA SHELTON		
1030	KMAS	US	47-13-17 N	123- 4-46 W	1.00		N	N	B	P	75.4	296.12	WA SHELTON		
1030	KGY	US	47- 3-30 N	122-54- 0 W	10.00		D	N	B	P	75.4	936.41	WA TUMWATER		
1030	KGY	US	47- 3-30 N	122-54- 0 W	0.50		N	N	B	P	75.4	209.39	WA TUMWATER		
1030	WOKL	US	44-47-33 N	91-23-10 W	10.00		D	N	B	P	90.0	966.95	WI ALTOONA		
1030	WOKL	US	44-47-33 N	91-23-10 W	0.25		N	D	B	P		151.29	WI ALTOONA	10.00	
	1	0.3650	-81.5000	0.0000	0.0000	90.0									
	2	1.0000	0.0000	134.0000	95.0000	90.0									
	3	1.0000	81.5000	268.0000	95.0000	90.0									
	4	0.3650	162.9999	402.0000	95.0000	90.0									
1030	821082	US	43- 4- 0 N	87-53-34 W	5.00		D	D	B	P		716.80	WI MILWAUKEE	22.36	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	1.9000	310.0000	140.0000	335.0000	90.0									
1030	NEW	US	42-51-58 N	87-56-52 W	5.00		D	D	B	P		716.80	WI MILWAUKEE	22.36	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	2.0000	100.0000	90.0000	160.0000	90.0									
	3	1.0000	208.0000	180.0000	160.0000	90.0									

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1030	NEW	US	38-51-43 N	82-11-10 W	2.50	C	D	B	P		461.01	WV	POINT PLEASANT	18.53	
1	1.0000	0.0000	0.0000	0.0000	60.0										
2	0.7500	145.0000	60.0000	230.0000	60.0										
1030	NEW	US	38-51-43 N	82-11-10 W	10.00	D	D	B	P		922.03	WV	POINT PLEASANT	37.06	
1	1.0000	0.0000	0.0000	0.0000	60.0										
2	0.7500	145.0000	60.0000	230.0000	60.0										
1030	KTWO	US	42-50-34 N	106-13- 7 W	50.00	D	N	B	O	90.0	2162.16	WY	CASPER		
1030	KTWO	US	42-57-48 N	106- 2-30 W	50.00	D	N	B	P	90.0	2162.16	WY	CASPER		
1030	KTWO-C	US	42-57-48 N	106- 2-30 W	50.00	N	D	B	P		2508.65	WY	CASPER	70.71	
1	1.0000	0.0000	0.0000	0.0000	214.9										
2	0.9850	-94.1000	87.5000	263.0000	90.0										
1030	KTWO-L	US	42-50-34 N	106-13- 7 W	50.00	N	D	B	O		2190.80	WY	CASPER	70.71	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.9900	-91.9000	90.0000	260.0000	90.0										
1040	830330	CA	49-11-36 N	123- 1-17 W	50.00	D	D	B	P		2172.61	BC	VANCOUVER	70.71	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.0000	-90.0000	90.0000	350.0000	90.0										
1040	NEW	CA	49-11-36 N	123- 1-17 W	25.00	N	D	B	P		1549.32	BC	VANCOUVER	50.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9399	252.7000	90.0000	276.5000	90.0										
3	1.0000	145.5000	180.0000	276.5000	90.0										

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1040	NEW	CA	47- 0- 0 N	67-50- 0 W	10.00	D	N	B	P	80.0	949.49	NB	GRAND FALLS		
1040	NEW	CA	47- 0- 0 N	67-50- 0 W	5.00	N	D	B	P		650.50	NB	GRAND FALLS	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	0.9700	-92.5000	90.0000	72.0000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1040	NEW	CA	48-25-56 N	81-24- 0 W	10.00	D	N	B	P	90.0	946.59	ON	TIMMINS		
1040	NEW	CA	48-26- 0 N	81-24- 0 W	2.00	N	D	B	P		459.40	ON	TIMMINS	14.15	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.9651	237.7500	90.0000	22.0000	90.0	
3	1.0000	115.5000	180.0000	22.0000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1040	831219	CA	48-51- 0 N	72-18- 0 W	5.00	N	D	B	P		707:81	QU	DOLBEAU	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.0000	239.5000	90.0000	20.0000	90.0	
3	1.0000	130.0000	180.0000	25.0000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1040	NEW	CA	48-51- 0 N	72-18- 0 W	10.00	D	N	B	P	90.0	946.59	QU	DOLBEAU		
1040	NEW	CA	45-20- 0 N	73-30- 0 W	10.00	D	D	B	P		1001.91	QU	MONTREAL	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.9900	100.8000	90.0000	240.0000	90.0	
3	1.0000	195.0000	180.0000	240.0000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1040	NEW	CA	45-20- 0 N	73-30- 0 W	2.50	N	D	B	P		492.11	QU	MONTREAL	15.81	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.9900	100.8000	90.0000	240.0000	90.0	
3	1.0000	201.6000	180.0000	240.0000	90.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1040	NEW	US	33-27- 0 N	112- 4- 0 W	1.00	N	D	B	P	360.49		AZ	PHOENIX	13.05	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6810		139.7000	100.0000	356.0000	90.0									
3	2.6810		-79.7000	200.0000	356.0000	90.0									
4	1.0000		60.0000	300.0000	356.0000	90.0									
1040	NEW	US	32-40-26 N	116-59-55 W	1.00	D	D	B	P	313.98		CA	CHULA VISTA	10.00	
1	1.0000		0.0000	0.0000	0.0000	107.0									
2	0.5000		-72.0000	110.0000	238.0000	107.0									
1040	NEW	US	32-40-26 N	116-59-55 W	1.00	N	D	B	P	313.34		CA	CHULA VISTA	10.00	
1	1.0000		0.0000	0.0000	0.0000	107.0									
2	0.8500		-72.0000	110.0000	238.0000	107.0									
1040	NEW	US	38-29-14 N	121-12-37 W	2.50	D	D	B	P	576.15		CA	FAIR OAKS	22.00	
1	1.0000		0.0000	0.0000	0.0000	91.3									
2	3.3300		151.7000	120.0000	152.0000	91.3									
3	4.9100		-53.1000	240.0000	152.0000	91.3									
4	3.7200		107.6000	360.0000	152.0000	91.3									
5	1.2700		-85.1000	480.0000	152.0000	91.3									
1040	NEW	US	38-29-14 N	121-12-37 W	1.00	N	D	B	P	365.32		CA	FAIR OAKS	13.95	
1	1.0000		0.0000	0.0000	0.0000	91.3									
2	3.3300		151.7000	120.0000	152.0000	91.3									
3	4.9100		-53.1000	240.0000	152.0000	91.3									
4	3.7200		107.6000	360.0000	152.0000	91.3									
5	1.2700		-85.1000	480.0000	152.0000	91.3									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1040	NEW	US	32-51- 8 N	116-58-26 W	10.00	D	D	B	P		963.68	CA	SAN DIEGO	36.63	
1	0.5300		141.4000	0.0000	0.0000	110.0									
2	1.0000		0.0000	90.0000	229.0000	110.0									
3	0.5300		-143.5000	180.0000	229.0000	110.0									
1040	NEW	US	32-51- 8 N	116-58-26 W	5.00	N	D	B	P		710.53	CA	SAN DIEGO	22.36	
1	0.6100		119.5999	0.0000	0.0000	110.0									
2	1.0000		0.0000	90.0000	229.0000	110.0									
3	0.5080		-123.0000	180.0000	229.0000	110.0									
1040	NEW	US	39- 8- 7 N	104-49-54 W	5.00	D	N	B	P	91.3	629.76	CO	MONUMENT		
1040	WKAO	US	26-31-48 N	80-12- 7 W	10.00	D	D	B	P		967.22	FL	BOYNTON BEACH	52.08	
1	1.0000		50.5000	0.0000	0.0000	90.0									
2	2.0035		-103.0200	90.0000	80.0000	90.0									
3	1.6027		103.0200	180.0000	80.0000	90.0									
4	0.5120		-50.5000	270.0000	80.0000	90.0									
1040	WKAO	US	26-31-48 N	80-12- 7 W	1.00	N	D	B	P		313.82	FL	BOYNTON BEACH	16.96	
1	1.0000		49.7000	0.0000	0.0000	90.0									
2	2.5228		-103.3400	90.0000	80.0000	90.0									
3	2.5228		103.3400	180.0000	80.0000	90.0									
4	1.0000		-49.7000	270.0000	80.0000	90.0									
1040	NEW	US	27- 7-40 N	82-27- 3 W	5.00	D	D	B	P		697.91	FL	NOKOMIS	22.36	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		110.0000	70.0000	331.0000	90.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
1040	NEW	US	27- 7-40 N	82-27- 3 W	0.50	N	D	B	P		209.21	FL	NOKOMIS	10.00	
1	0.6270		-116.0000	0.0000	0.0000	90.0									
2	1.0000		0.0000	70.0000	331.0000	90.0									
3	0.4010		116.0000	140.0000	331.0000	90.0									
1040	WJNO	US	26-45-27 N	80- 7-49 W	10.00	D	N	B	P	91.3	966.95	FL	PALM BEACH		
1040	WJNO	US	26-45-27 N	80- 7-49 W	1.00	N	D	B	P		342.03	FL	PALM BEACH	14.15	
1	0.1850		-90.0000	0.0000	0.0000	91.3									
2	0.7200		135.0000	90.0000	145.0000	91.3									
3	1.0000		0.0000	180.0000	145.0000	91.3									
4	0.7400		-135.0000	270.0000	145.0000	91.3									
5	0.2300		90.0000	360.0000	145.0000	91.3									
1040	WHBO	US	27-49-32 N	82-45-24 W	5.00	D	N	B	P	160.0	629.76	FL	PINELLAS PARK		
1040	WHBO	US	27-49-32 N	82-45-24 W	1.00	N	D	B	P		290.05	FL	PINELLAS PARK	10.00	
1	0.6340		-55.1250	153.6720	142.9370	143.5									
2	1.0000		0.0000	0.0000	0.0000	98.2									
3	0.4760		-13.3440	236.5830	323.4100	160.0									
1040	NEW	US	24-38-34 N	81-36-23 W	50.00	U	D	B	P		2659.99	FL	SADDLEBUNCH	70.71	
1	0.5090		102.2000	0.0000	0.0000	200.0									
2	1.0000		0.0000	93.0000	150.0000	200.0									
3	0.5090		-102.2000	186.0000	150.0000	200.0									
1040	KPOI-C	US	21-17-41 N	157-51-49 W	10.00	U	N	B	P	102.8	992.39	HI	HONOLULU		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1040	KPOI-L	US	21-21-32 N	157-51-41 W	10.00		U	N	B	O		961.86	HI	HONOLULU		
										T A = 76.1 B = 19.1 C = 0.0 D = 0.0					
1040	WHO	US	41-39-12 N	93-20-56 W	50.00		U	N	A	O		3334.28	IA	DES MOINES		
										S5 A = 120.0 B = 300.0 C = 0.0 D = 0.0					
1040	NEW	US	31-34-17 N	91-23-55 W	1.00		D	N	B	P	90.2	305.78	LA	VIDALIA		
1040	NEW	US	41-22-37 N	82- 0-27 W	2.50		C	N	B	P	73.5	465.66	OH	NORTH RIDGEVILLE		
1040	NEW	US	41-22-37 N	82- 0-27 W	5.00		D	N	B	P	73.5	658.54	OH	NORTH RIDGEVILLE		
1040	830207	US	45-27- 7 N	122-47-36 W	0.25		D	N	B	P	80.0	149.67	OR	BEAVERTON		
1040	830207	US	45-27- 7 N	122-47-36 W	0.25		N	D	B	P		152.08	OR	BEAVERTON	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	80.0	
2	0.9150	96.8000	70.0000	110.0000	80.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1040	WSKE	US	40- 0-26 N	78-21-44 W	2.50		C	N	B	P	102.8	468.00	PA	EVERETT		
1040	WSKE	US	40- 0-26 N	78-21-44 W	10.00		D	N	B	P	102.8	936.00	PA	EVERETT		
1040	NEW	US	18-24-10 N	67- 8-58 W	0.25		D	N	B	P	74.2	148.06	PR	MOCA		
1040	KPBC	US	32-46-45 N	96-43-49 W	1.00		D	N	B	O	194.1	402.34	TX	DALLAS		
1040	NEW	US	46-15- 0 N	119-55- 0 W	1.00		D	N	B	P	90.0	305.78	WA	GRANDVIEW		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1040	NEW	US	46-15- 0 N	119-55- 0 W	1.00	N	D	B	P	285.66	WA		GRANDVIEW	10.00	75
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.7600		37.1000	160.0000	95.0000	90.0									
3	0.8100		74.3000	320.0000	95.0000	90.0									
1100	NEW	CA	49-23- 0 N	121-27- 0 W	10.00	D	N	B	P	90.0	946.59	BC	HOPE		
1100	NEW	CA	49-23- 0 N	121-27- 0 W	0.50	N	N	B	P	90.0	210.82	BC	HOPE		
1100	NEW	CA	54- 3- 0 N	128-37- 0 W	10.00	D	N	B	P	80.0	949.49	BC	KITIMAT		
1100	NEW	CA	54- 3- 0 N	128-37- 0 W	1.00	N	N	B	P	80.0	299.34	BC	KITIMAT		
1100	NEW	CA	49-40- 0 N	96-50- 0 W	10.00	D	N	B	P	90.0	965.42	MB	WINNIPEG		
1100	NEW	CA	49-40- 0 N	96-50- 0 W	2.50	N	D	B	P		471.20	MB	WINNIPEG	15.81	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9900		102.2000	90.0000	130.0000	90.0									
3	1.0000		-154.0000	180.0000	130.0000	90.0									
1100	NEW	CA	48-55-50 N	57-52- 7 W	10.00	D	N	B	P	90.0	946.59	NF	CORNER BROOK		
1100	NEW	CA	48-56- 0 N	57-52- 0 W	5.00	N	D	B	P		673.90	NF	CORNER BROOK	22.36	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		267.1001	90.0000	74.0000	90.0									
1100	NEW	CA	68-21- 0 N	133-43- 0 W	10.00	D	N	B	P	90.0	946.59	NT	INUVIK		
1100	NEW	CA	68-21- 0 N	133-43- 0 W	1.50	N	N	B	P	90.0	373.37	NT	INUVIK		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1100	NEW	CA	49-38- 0 N	108-20- 0 W	10.00	D	N	B	P	90.0	949.49	SA	SHAUNAVON		
1100	NEW	CA	49-38- 0 N	108-20- 0 W	10.00	N	D	B	P		919.10	SA	SHAUNAVON	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		342.1001	165.0000	281.5000	90.0									
3	1.0000		237.9000	216.0800	304.1321	90.0									
4	1.0000		255.8000	90.0000	349.0000	90.0									
1100	NEW	US	33-27- 0 N	112- 4- 0 W	1.00	N	D	B	P		318.81	AZ	PHOENIX	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.7500		128.0000	90.0000	10.0000	90.0									
1100	KFAX	US	37-37-56 N	122- 7-49 W	50.00	U	D	B	O		2053.52	CA	SAN FRANCISCO	70.71	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.9200		52.0000	130.0000	70.0000	90.0									
3	0.9200		106.0000	158.1140	104.7000	90.0									
4	1.0000		54.0000	90.0000	160.0000	90.0									
1100	KREX	US	38-57- 2 N	108-25-11 W	50.00	C	D	B	O		2357.69	CO	GRAND JUNCTION	73.14	
1	0.5040		-21.0000	0.0000	0.0000	136.8									
2	1.0000		0.0000	175.0000	81.0000	136.8									
3	0.5040		17.0000	350.0000	81.0000	136.8									

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	22.0	36.0	1873.3	8	109.5	11.0	90.6
2	40.0	25.0	563.3	9	115.0	11.0	120.7
3	52.5	11.0	90.6	10	140.0	50.0	1842.1
4	58.0	11.0	90.4	11	184.0	88.0	4861.1
5	65.0	14.0	90.6	12	229.0	90.0	1228.6
6	81.0	32.0	101.1	13	318.0	54.0	3249.9
7	97.0	25.0	90.6	14	345.0	54.0	5000.6

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1100	KREX	US	38-57- 2 N	108-25-11 W	50.00	D	N	B	O	136.8	2389.75	CO	GRAND JUNCTION		
1100	KREX	US	38-57- 2 N	108-25-11 W	10.00	N	D	B	O		1054.12	CO	GRAND JUNCTION	32.70	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.5040	-21.0000	0.0000	0.0000	136.8	
2	1.0000	0.0000	175.0000	81.0000	136.8	
3	0.5040	17.0000	350.0000	81.0000	136.8	

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	22.0	36.0	852.8	11	115.0	11.0	57.9
2	45.0	10.0	74.0	12	140.0	50.0	841.6
3	52.5	15.0	40.9	13	184.0	88.0	2179.4
4	60.0	10.0	41.0	14	229.0	22.0	552.6
5	65.0	10.0	41.0	15	240.0	22.0	258.3
6	81.0	32.0	45.1	16	261.0	10.0	112.7
7	81.0	10.0	45.2	17	274.0	26.0	227.7
8	97.0	25.0	40.2	18	318.0	54.0	1448.4
9	97.0	10.0	40.6	19	345.0	54.0	2242.4
10	109.5	11.0	40.6				

1100	NEW	US	33-36-28 N	85- 5-25 W	1.00	D	N	B	P	90.6	305.78	GA	CARROLLTON		
1100	NEW	US	33-36-34 N	85- 5-13 W	1.00	D	N	B	P	90.6	305.78	GA	CARROLLTON		
1100	NEW	US	33-36-34 N	85- 5-13 W	1.00	D	N	B	P	90.6	307.38	GA	CARROLLTON		
1100	NEW	US	33-36-34 N	85- 5-13 W	1.00	D	N	B	P	90.6	305.78	GA	CARROLLTON		
1100	WLBB	US	33-36-34 N	85- 5-13 W	1.00	D	N	B	O	92.6	307.38	GA	CARROLLTON		
1100	WPPI	US	33-33-45 N	85- 3-13 W	1.00	D	N	B	P	90.6	305.78	GA	CARROLLTON		

FREQ KHZ	INDICATIF D'APPEL	PY .	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
1100	NEW	US	37-47-55 N	88-25-40 W	2.50	D	D	B	P		535.59	IL	HARRISBURG	17.68	
1	1.0000		0.0000	0.0000	0.0000	97.0									
2	2.5000		144.0000	105.0000	86.0000	97.0									
3	2.0000		-73.0000	210.0000	86.0000	97.0									
1100	KDAN	US	44-52-39 N	92-58-40 W	1.00	D	N	B	P	76.5	312.21	MN	NEWPORT		
1100	NEW	US	37- 6-20 N	94-30- 9 W	5.00	D	N	B	P	89.4	683.73	MO	WEBB CITY		
1100	NEW	US	37- 6-20 N	94-30- 9 W	2.50	D	N	B	P	89.4	483.47	MO	WEBB CITY		
1100	WHLI	US	40-41- 6 N	73-36-38 W	10.00	D	D	B	O		1005.84	NY	HEMPSTEAD	31.62	
1	1.0000		0.0000	0.0000	0.0000	102.6									
2	1.1400		105.0000	80.0000	280.0000	102.6									

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	253.0	14.0	128.7	5	280.0	10.0	136.8
2	260.0	14.0	128.7	6	292.0	24.0	133.6
3	270.0	20.0	132.0	7	304.0	10.0	117.5
4	280.0	20.0	132.8	8	309.0	10.0	138.4

1100	WWWE	US	41-16-50 N	81-37-22 W	50.00	U	N	A	O	185.2	2742.53	OH	CLEVELAND		
1100	WGPA	US	40-37-27 N	75-21-19 W	0.25	D	N	B	O	90.6	150.47	PA	BETHLEHEM		
1100	NEW	US	35-48- 4 N	86-58-43 W	1.00	D	N	B	P	78.9	296.12	TN	THOMPSON STATION		
1100	KDRY	US	29-33-26 N	98-22-35 W	2.50	D	N	B	P	90.0	483.47	TX	ALAMO HEIGHTS		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M) / RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1100	KDRY	US	29-33-26 N	98-22-35 W	1.00	N	D	B	P		310.27	TX	ALAMO HEIGHTS	13.17	
1100	NEW	US	46-36- 0 N	120-31- 0 W	1.00	D	N	B	P	90.0	305.78	WA	YAKIMA		
1100	NEW	US	46-36- 0 N	120-31- 0 W	1.00	N	D	B	P		360.49	WA	YAKIMA	13.05	76
1120	NEW	CA	56-14-49 N	120-50-52 W	10.00	D	N	B	P	90.0	946.59	BC	FORT ST JOHN		
1120	NEW	CA	56-15- 0 N	120-51- 0 W	0.25	N	N	B	P	90.0	144.84	BC	FORT ST JOHN		
1120	831219	CA	44-39- 0 N	63-36- 0 W	50.00	N	D	B	P		1424.31	NS	HALIFAX	70.71	
1120	NEW	CA	44-39- 1 N	63-35-53 W	50.00	D	N	B	P	90.0	2128.02	NS	HALIFAX		
1120	NEW	CA	48-24-53 N	81-22-57 W	10.00	D	N	B	P	90.0	946.59	ON	TIMMINS		
1120	NEW	CA	48-25- 0 N	81-23- 0 W	2.50	N	D	B	P		514.30	ON	TIMMINS	16.44	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1100 KDRY						
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.0000	-137.5000	45.0000	225.0000	90.0	
1100 NEW						
1100 NEW						
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.6810	139.7000	100.0000	107.0000	90.0	
3	2.6810	-79.7000	200.0000	107.0000	90.0	
4	1.0000	60.0000	300.0000	107.0000	90.0	
1120 NEW						
1120 NEW						
1120 831219						
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.0000	-94.5000	90.0000	85.0000	90.0	
3	1.0000	-187.0000	180.0000	85.0000	90.0	
1120 NEW						
1120 NEW						
1120 NEW						
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.8999	236.8000	90.0000	31.5000	90.0	
3	2.8999	113.5000	180.0000	31.5000	90.0	
4	1.0000	350.3000	270.0000	31.5000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1120	NEW	CA	45-20- 0 N	72- 0- 0 W	10.00	D	N	B	P	90.0	940.99	QU	SHERBROOKE		
1120	NEW	CA	45-20- 0 N	72- 0- 0 W	2.50	N	D	B	P		485.20	QU	SHERBROOKE	15.81	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9800	103.2000	90.0000	231.0000	90.0										
3	1.0000	206.4000	180.0000	231.0000	90.0										
1120	830303	CA	52- 0- 0 N	106-30- 0 W	10.00	D	D	B	P		965.61	SA	SASKATOON	31.62	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.6500	-90.0000	90.0000	315.0000	90.0										
1120	NEW	CA	52- 0- 0 N	106-30- 0 W	5.00	N	D	B	P		720.15	SA	SASKATOON	22.36	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.0000	261.6000	90.0000	315.0000	90.0										
3	1.0000	125.5000	157.4315	344.0000	90.0										
4	1.0000	223.9000	90.0000	13.0000	90.0										
1120	NEW	US	32-47-25 N	115-33-35 W	2.50	D	N	B	P	90.0	483.47	CA	EL CENTRO		
1120	NEW	US	32-47-25 N	115-33-35 W	1.00	N	D	B	P		360.49	CA	EL CENTRO	13.05	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.6810	139.7000	100.0000	0.0000	90.0										
3	2.6810	-79.7000	200.0000	0.0000	90.0										
4	1.0000	60.0000	300.0000	0.0000	90.0										
1120	NEW	US	36-25-43 N	121-19-25 W	2.50	D	N	B	P	90.0	483.47	CA	SOLEDAD		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1120	NEW	US	36-25-43 N	121-19-25 W	1.00	N	D	B	P		360.49	CA	SOLEDAD	13.05	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6810		139.7000	100.0000	45.0000	90.0									
3	2.6810		-79.7000	200.0000	45.0000	90.0									
4	1.0000		60.0000	300.0000	45.0000	90.0									
1120	821028	US	41-39-29 N	72-56-51 W	0.50	N	D	B	P		199.59	CT	BRISTOL	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.7300		128.4000	80.0000	260.0000	90.0									
3	0.8100		258.6000	160.0000	260.0000	90.0									
1120	WBIS	US	41-39-29 N	72-56-51 W	1.00	D	N	B	P	90.2	305.78	CT	BRISTOL		
1120	WUST	US	38-55- 4 N	77- 1-27 W	2.50	C	N	B	P	53.3	445.30	DC	WASHINGTON		
1120	WUST	US	38-55- 4 N	77- 1-27 W	5.00	D	N	B	P	53.3	629.76	DC	WASHINGTON		
1120	WUST	US	38-55- 4 N	77- 1-27 W	1.00	D	N	B	O	53.3	281.64	DC	WASHINGTON		
1120	WIZY	US	32-51-43 N	83-21-56 W	5.00	D	N	B	P	164.0	809.69	GA	GORDON		
1120	NEW	US	42-26-22 N	71-25-51 W	1.00	D	D	B	P		321.55	MA	CONCORD	12.20	
1	1.0000		0.0000	0.0000	0.0000	80.3									
2	0.7000		180.0000	80.0000	110.0000	80.3									
1120	NEW	US	42-26-22 N	71-25-51 W	1.00	N	D	B	P		315.62	MA	CONCORD	10.00	77
1	1.0000		0.0000	0.0000	0.0000	80.3									
2	1.6000		104.3999	80.0000	255.0000	80.3									
3	0.6400		-151.3000	160.0000	255.0000	80.3									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
1120	NEW	US	46-53- 6 N	68- 2-40 W	10.00	D	N	B	P	90.0	966.95	ME	CARIBOU		
1120	NEW	US	46-53- 6 N	68- 2-40 W	1.00	N	D	B	P		360.49	ME	CARIBOU	13.05	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6810		139.7000	100.0000	180.0000	90.0									
3	2.6810		-79.7000	200.0000	180.0000	90.0									
4	1.0000		60.0000	300.0000	180.0000	90.0									
1120	KMOX	US	38-43-20 N	90- 3-16 W	50.00	U	N	A	O	192.7	2822.19	MO	SAINT LOUIS		
1120	830303	US	48-23-30 N	102-56-12 W	0.50	D	D	B	P		226.92	ND	TIOGA	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6900		104.0000	100.0000	291.0000	90.0									
3	1.8770		208.0000	200.0000	291.0000	90.0									
1120	KTGO	US	48-23-30 N	102-56-12 W	0.50	N	D	B	P		199.56	ND	TIOGA	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	2.6900		104.0000	100.0000	111.0000	90.0									
3	1.8770		208.0000	200.0000	111.0000	90.0									
1120	830513	US	42-45-42 N	71-16-13 W	1.00	N	D	B	P		315.75	NH	SALEM	10.00	
1	0.5260		-98.6000	0.0000	0.0000	87.7									
2	1.0000		0.0000	110.0000	268.6000	87.7									
3	0.5260		98.6000	220.0000	268.6000	87.7									
1120	WVNH	US	42-45-42 N	71-16-13 W	5.00	C	N	B	P	87.7	680.14	NH	SALEM		
1120	WVNH	US	42-45-42 N	71-16-13 W	10.00	D	N	B	P	87.7	961.86	NH	SALEM		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1120	WWOL	US	42-49-50 N	78-47-54 W	1.00	D	N	B	D	200.9	328.31	NY	BUFFALO		
1120	WYNO	US	39-26-20 N	82-13-13 W	2.50	D	N	B	P	81.9	475.84	OH	NELSONVILLE		
1120	KPNW	US	43-57-24 N	123- 2-10 W	50.00	U	D	B	O		2716.57	OR	EUGENE	70.71	93

NO. DE TOUR / TOWER NUMBER — RAPPORT CHAMPS / FIELD RATIO — PHASE (DEGRES) / PHASING (DEGREES) — ESPACEMENT (DEGRES) / SPACING (DEGREES) — ORIENTATION (DEGRES) / ORIENTATION (DEGREES) — HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1	1.0000	0.0000	0.0000	0.0000	180.0
2	0.9000	73.6000	120.0000	90.0000	180.0
3	0.8100	172.7000	205.8711	80.1648	180.0
4	0.9000	99.1000	90.0000	67.0000	180.0

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	40.0	10.0	112.7	10	85.0	10.0	104.6
2	45.0	10.0	105.4	11	90.0	10.0	104.6
3	50.0	10.0	99.0	12	95.0	10.0	104.6
4	55.0	10.0	95.8	13	100.0	10.0	106.2
5	60.0	10.0	98.2	14	110.0	10.0	112.7
6	65.0	10.0	101.4	15	115.0	10.0	120.7
7	70.0	10.0	101.4	16	120.0	10.0	111.0
8	75.0	10.0	104.6	17	350.0	10.0	2124.3
9	80.0	10.0	106.2	18	357.0	14.0	1689.8

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1120	NEW	US	41-26-56 N	79-43-37 W	0.25	D	N	B	P	69.7	145.65	PA	OIL CITY		
1120	WMSW	US	18-28-15 N	66-50-24 W	0.25	D	D	B	P		144.84	PR	HATILLO	10.00	

NO. DE TOUR / TOWER NUMBER — RAPPORT CHAMPS / FIELD RATIO — PHASE (DEGRES) / PHASING (DEGREES) — ESPACEMENT (DEGRES) / SPACING (DEGREES) — ORIENTATION (DEGRES) / ORIENTATION (DEGREES) — HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1	1.0000	0.0000	0.0000	0.0000	90.2
2	1.0500	-174.2000	80.0000	170.6000	90.2

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	76.5	14.0	20.9	2	265.0	14.0	20.9

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1120	WMSW	US	18-28-15 N	66-50-24 W	1.00	N	D	B	P		313.82	PR	HATILLO	11.10	
1	1.0000	0.0000	0.0000	0.0000	90.2										
2	1.0500	-128.7000	60.0000	90.0000	90.2										

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	239.0	22.0	29.0	2	301.0	22.0	29.0

1120	KCLE	US	32-23- 5 N	97-23-46 W	0.25	D	N	B	O	135.3	168.18	TX	CLEBURNE		
1160	NEW	CA	53-25- 0 N	112- 2-50 W	10.00	D	N	B	P	90.0	946.59	AB	VEGREVILLE		
1160	NEW	CA	53-25- 0 N	112- 3- 0 W	2.50	N	D	B	P		500.60	AB	VEGREVILLE	15.81	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9600	245.9000	90.0000	360.0000	90.0										
3	1.0000	131.8000	180.0000	360.0000	90.0										
1160	NEW	CA	48-20- 0 N	89-35- 0 W	10.00	D	N	B	P	90.0	965.42	ON	THUNDER BAY		
1160	NEW	CA	48-20- 0 N	89-35- 0 W	4.00	N	D	B	P		595.46	ON	THUNDER BAY	20.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.0000	94.0000	90.0000	256.0000	90.0										
3	1.0000	184.2000	132.7100	213.5000	90.0										
4	1.0000	90.0000	90.0000	171.0000	90.0										
1160	NEW	CA	49-13- 1 N	68- 9-52 W	10.00	D	N	B	P	90.0	946.59	QU	BAIE COMEAU		
1160	NEW	CA	49-13- 1 N	68- 9-52 W	2.50	N	D	B	P		483.00	QU	BAIE COMEAU	15.81	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.5500	260.0000	90.0000	35.0000	90.0										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1160	WASG	US	31- 0-26 N	87-32-15 W	50.00	C	D	B	P		2084.10	AL	ATMORE	70.71	
1	1.0000		0.0000	0.0000	0.0000	208.0									
2	0.6000		60.0000	120.0000	30.0000	208.0									
1160	WASG	US	31- 0-26 N	87-32-15 W	50.00	D	D	B	P		2947.35	AL	ATMORE	73.60	
1	1.0000		0.0000	0.0000	0.0000	208.0									
2	0.6000		60.0000	120.0000	30.0000	208.0									
1160	WASG	US	31- 0-26 N	87-32-15 W	2.50	N	D	B	P		555.87	AL	ATMORE	15.81	
1	1.0000		0.0000	0.0000	0.0000	208.0									
2	0.9400		35.6000	150.0000	308.0000	101.9									
1160	NEW	US	30-44-17 N	88- 7-20 W	10.00	D	N	B	P	82.7	946.59	AL	MOBILE		
1160	NEW	US	30-44-17 N	88- 7-20 W	1.00	N	D	B	P		295.48	AL	MOBILE	10.00	
1	1.0000		0.0000	0.0000	0.0000	82.7									
2	0.7800		54.0000	130.0000	304.0000	82.7									
1160	NEW	US	30-43-11 N	88- 4-16 W	10.00	D	N	B	P	97.6	982.21	AL	PRICHARD		
1160	NEW	US	30-43-11 N	88- 4-16 W	1.00	N	D	B	P		314.79	AL	PRICHARD	12.87	
1	1.0000		0.0000	0.0000	0.0000	97.6									
2	0.9000		-135.0000	45.0000	125.0000	97.6									
1160	WABB	US	30-43-11 N	88- 4-16 W	10.00	D	N	B	P	97.6	982.21	AL	PRICHARD		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1160	WABB	US	30-43-11 N	88- 4-16 W	1.00	N	D	B	P		314.79	AL	PRICHARD	12.87	
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT: ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1	1.0000	0.0000	0.0000	0.0000	97.6										
2	0.9000	-135.0000	45.0000	125.0000	97.6										
1160	WINE	US	41-29-35 N	73-25-46 W	2.50	D	D	B	P		450.62	CT	BROOKFIELD	15.81	
1	1.0000	0.0000	0.0000	0.0000	106.0										
2	0.6300	-101.0000	80.0000	100.0000	106.0										
1160	WINE	US	41-29-35 N	73-25-46 W	1.00	N	D	B	P		321.71	CT	BROOKFIELD	10.00	
1	1.0000	0.0000	0.0000	0.0000	106.0										
2	0.6800	-115.0000	80.0000	100.0000	106.0										
1160	WLAD	US	41-22-27 N	73-26-47 W	10.00	D	D	B	P		991.68	CT	DANBURY	31.62	
1	1.0000	0.0000	0.0000	0.0000	110.0										
2	0.3500	-82.0000	143.0000	74.0000	59.0										
1160	WLAD	US	41-22-27 N	73-26-47 W	5.00	N	D	B	P		734.02	CT	DANBURY	22.36	
1	1.0000	0.0000	0.0000	0.0000	110.0										
2	0.6800	-120.0000	80.0000	60.0000	110.0										
1160	NEW	US	28-19- 0 N	81-24- 0 W	5.00	D	N	B	P	90.0	683.73	FL	KISSIMMEE		
1160	NEW	US	28-19- 0 N	81-24- 0 W	1.00	N	D	B	P		360.49	FL	KISSIMMEE	13.05	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.6810	139.7000	100.0000	0.0000	90.0										
3	2.6810	-79.7000	200.0000	0.0000	90.0										
4	1.0000	60.0000	300.0000	0.0000	90.0										

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1160	WJJD	US	42- 2-30 N	87-51-57 W	10.00	N	D	B	P		1017.06	IL	CHICAGO	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	93.5	
2	0.9500	-112.0000	90.0000	135.0000	93.5	
3	0.9000	152.9999	166.3000	112.5000	93.5	
4	0.9500	-95.0000	90.0000	90.0000	93.5	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	355.5	40.0	160.9				

1160	WJJD	US	42- 2-30 N	87-51-57 W	50.00	U	D	B	O		2389.88	IL	CHICAGO	70.71	

1	1.0000	0.0000	0.0000	0.0000	93.4
2	0.4900	-111.0000	90.0000	135.0000	93.4

1160	WKCM	US	37-54-20 N	86-45-30 W	2.50	D	N	C	P	110.3	503.83	KY	HAWESVILLE		

1160	WKCM	US	37-54-20 N	86-45-30 W	1.00	N	D	C	P		303.89	KY	HAWESVILLE	10.00	

1	1.0000	0.0000	0.0000	110.3
2	0.9000	114.0000	70.0000	275.0000	80.6

1160	NEW	US	37-15-27 N	83-12-25 W	1.00	D	N	B	P	82.8	300.95	KY	HAZARD		

1160	WMST	US	38- 1-38 N	83-59-15 W	1.00	D	D	B	P		314.32	KY	MOUNT STERLING	10.00	

1	1.0000	0.0000	0.0000	0.0000	90.0
2	0.6300	113.5000	90.0000	257.5000	90.0

1160	WMST	US	38- 1-38 N	83-59-15 W	1.00	N	D	B	P		318.42	KY	MOUNT STERLING	10.00	

1	0.5570	-97.5000	0.0000	0.0000	90.0
2	1.0000	0.0000	90.0000	257.5000	90.0
3	0.4520	97.5000	180.0000	257.5000	90.0

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1160	NEW	US	42-15- 5 N	72-40-39 W	10.00		D	D	B		923.92	P	MA EAST HAMPTON	31.62	
	1	1.0000	0.0000	0.0000	0.0000			58.8							
	2	0.8000	120.0000	60.0000	155.0000			58.8							
1160	NEW	US	42-15- 5 N	72-40-39 W	1.00		N	D	B		292.10	P	MA EAST HAMPTON	10.00	
	1	1.0000	0.0000	0.0000	0.0000			58.8							
	2	0.8000	120.0000	60.0000	240.0000			58.8							
1160	WQMR	US	44-44-43 N	69-41-36 W	10.00		D	N	B		1394.44	P	ME SKOWHEGAN		
										225.0					
1160	WQMR	US	44-44-43 N	69-41-36 W	1.00		N	N	B		305.78	P	ME SKOWHEGAN		
										225.0					
1160	USFE-1	US	42-48-38 N	83-43-44 W	1.00		U	D	B		310.56	P	MI FENTON	10.00	
	1	1.0000	0.0000	0.0000	0.0000			90.0							
	2	0.9500	95.5000	90.0000	274.0000			90.0							
1160	USFE-2	US	42-51-44 N	83-44-33 W	1.00		U	D	B		301.08	P	MI FENTON	10.00	
	1	1.0000	0.0000	0.0000	0.0000			48.8							
	2	0.9500	100.0000	83.5000	275.0000			48.8							
1160	WWHK	US	42-32-42 N	82-54- 4 W	10.00		D	D	B		966.94	P	MI MOUNT CLEMENS	47.78	
	1	1.0000	0.0000	0.0000	0.0000			90.0							
	2	0.8850	200.4799	65.0000	7.5000			90.0							
	3	0.1925	66.7500	130.0000	7.5000			90.0							

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1160	NEW	42-15- 5 N	72-40-39 W	10.00	D D B P	923.92 MA EAST HAMPTON 31.62
1	1.0000	0.0000	0.0000	0.0000	58.8	
2	0.8000	120.0000	60.0000	155.0000	58.8	
1160	NEW	42-15- 5 N	72-40-39 W	1.00	N D B P	292.10 MA EAST HAMPTON 10.00
1	1.0000	0.0000	0.0000	0.0000	58.8	
2	0.8000	120.0000	60.0000	240.0000	58.8	
1160	WQMR	44-44-43 N	69-41-36 W	10.00	D N B P 225.0	1394.44 ME SKOWHEGAN
1160	WQMR	44-44-43 N	69-41-36 W	1.00	N N B P 225.0	305.78 ME SKOWHEGAN
1160	USFE-1	42-48-38 N	83-43-44 W	1.00	U D B P	310.56 MI FENTON 10.00
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.9500	95.5000	90.0000	274.0000	90.0	
1160	USFE-2	42-51-44 N	83-44-33 W	1.00	U D B P	301.08 MI FENTON 10.00
1	1.0000	0.0000	0.0000	0.0000	48.8	
2	0.9500	100.0000	83.5000	275.0000	48.8	
1160	WWHK	42-32-42 N	82-54- 4 W	10.00	D D B P	966.94 MI MOUNT CLEMENS 47.78
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.8850	200.4799	65.0000	7.5000	90.0	
3	0.1925	66.7500	130.0000	7.5000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1160	WWHK	US	42-32-42 N	82-54- 4 W	1.00	N	D	B	P		304.66	MI	MOUNT CLEMENS	27.89	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.8870	188.0900	65.0000	7.5000	90.0										
3	1.0000	16.1800	130.0000	7.5000	90.0										
1160	NEW	US	35-44-22 N	78-41-27 W	5.00	D	D	B	P		757.84	NC	RALEIGH	48.20	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.9700	-157.4000	90.0000	45.0000	90.0										
3	3.4400	40.9000	180.0000	45.0000	90.0										
4	1.5500	-123.7000	270.0000	45.0000	90.0										
1160	NEW	US	35-44-22 N	78-41-27 W	1.00	N	D	B	P		326.37	NC	RALEIGH	10.72	
1	0.2300	131.4999	0.0000	0.0000	90.0										
2	0.8800	4.1000	90.0000	45.0000	90.0										
3	1.0000	-131.5000	180.0000	45.0000	90.0										
1160	WYRU	US	34-50-19 N	79-10-36 W	5.00	D	N	B	P	55.2	629.76	NC	RED SPRINGS		
1160	WYRU	US	34-50-19 N	79-10-36 W	0.25	N	N	B	P	55.2	140.82	NC	RED SPRINGS		
1160	WTYN	US	35-12-51 N	82-13-12 W	10.00	D	N	B	P	101.9	987.30	NC	TRYON		
1160	WTYN	US	35-12-51 N	82-13-12 W	0.50	N	D	B	P		304.49	NC	TRYON	10.00	
1	1.0000	0.0000	0.0000	0.0000	101.9										
2	0.6800	50.0000	130.0000	305.0000	101.9										

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1160	WBRW	US	40-33-32 N	74-35-55 W	25.00		D	D	B		1615.78	NJ	BRIDGEWATER TOWNSH	54.91	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	89.2	
2	0.8010	-139.1000	89.2000	50.0000	89.2	
3	0.7350	-34.7000	120.5000	97.5000	89.2	
4	0.9190	104.3999	89.2000	145.0000	89.2	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1160	WBRW	US	40-33-32 N	74-35-55 W	1.00	N	D	D	B		305.78	NJ	BRIDGEWATER TOWNSH	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	89.2	
2	0.4500	-122.1000	89.2000	50.0000	89.2	
3	0.4500	-62.1000	120.5000	97.5000	89.2	
4	1.0000	20.0000	89.2000	145.0000	89.2	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1160	WOBM	US	40- 8- 9 N	74-13-48 W	5.00		D	D	B		696.89	NJ	LAKEWOOD	23.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.0870	122.5940	107.7200	341.1000	80.0	
2	1.0000	0.0000	0.0000	0.0000	80.0	
3	0.4870	-126.3430	96.1350	169.7950	80.0	
4	0.3300	47.0310	203.2530	165.2310	80.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1160	WOBM	US	40- 8- 9 N	74-13-48 W	1.00	N	D	D	B		340.38	NJ	LAKEWOOD	14.43	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.7860	133.2790	107.7200	341.1000	80.0	
2	1.0000	0.0000	0.0000	0.0000	80.0	
3	1.0440	-161.0010	96.1350	169.7950	80.0	
4	0.7520	58.9000	203.2530	165.2310	80.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1160	NEW	US	41- 1-13 N	74-15-27 W	2.50		D	D	B		445.79	NJ	OAKLAND	15.81	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	98.0	
2	2.1170	-34.9000	165.0000	10.0000	98.0	
3	1.1550	-69.7900	330.0000	10.0000	98.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
1160	NEW	US	41- 1-13 N	74-15-27 W	1.00	N	D	B	P		315.17	NJ	OAKLAND	10.00	
1	1.0000		0.0000	0.0000	0.0000	98.0									
2	1.1360		101.2200	80.0000	270.0000	98.0									
1160	NEW	US	39-21-24 N	119-39-18 W	1.00	C	N	B	P	106.1	315.43	NV	VIRGINIA CITY		
1160	NEW	US	39-21-24 N	119-39-18 W	5.00	D	N	B	P	106.1	705.33	NV	VIRGINIA CITY		
1160	WCRR	US	41-26-24 N	74- 4-25 W	5.00	D	D	B	P		684.26	NY	CORNWALL	22.36	
1	1.0000		0.0000	0.0000	0.0000	89.0									
2	1.3700		75.0000	100.0000	230.0000	89.0									
1160	WCRR	US	41-26-24 N	74- 4-25 W	1.00	N	D	B	P		337.13	NY	CORNWALL	12.34	
1	1.0000		0.0000	0.0000	0.0000	89.0									
2	1.4920		145.5000	100.0000	270.0000	89.0									
3	1.0940		290.9998	200.0000	270.0000	89.0									
1160	WMVI	US	42-55-12 N	73-41-27 W	50.00	D	D	B	P		2187.48	NY	MECHANICVILLE	70.71	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.7700		90.0000	90.0000	265.0000	90.0									
1160	WMVI	US	42-55-12 N	73-41-27 W	1.00	N	D	B	P		319.97	NY	MECHANICVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.4500		149.0000	90.0000	340.0000	90.0									
1160	NEW	US	42-32-36 N	76-42-37 W	1.00	D	N	B	P	82.8	300.95	NY	TRUMANSBURG		

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL /	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1160	NEW	US	42-32-36 N	76-42-37 W	0.50	N	D	B	P		210.94	NY	TRUMANSBURG	10.00	
1	1.0000	0.0000	0.0000	0.0000	83.0										
2	0.4000	-137.0000	90.0000	160.0000	83.0										
1160	WBUX	US	40-19-34 N	75- 9-40 W	1.00	D	D	B	P		287.99	PA	DOYLESTOWN	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.6500	-2.0000	205.0000	208.0000	90.0										
3	0.9000	98.5000	90.0000	53.0000	90.0										
4	0.5850	96.5000	129.1598	190.8733	90.0										
1160	WBUX	US	40-19-34 N	75- 9-40 W	1.00	N	D	B	P		309.93	PA	DOYLESTOWN	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.5000	-93.0000	90.0000	53.0000	90.0										
1160	WRID	US	40-32-33 N	79- 9-57 W	1.00	D	D	B	P		281.64	PA	HOMER CITY	10.00	
1	0.9090	-118.5000	0.0000	0.0000	90.0										
2	1.0000	0.0000	90.0000	240.0000	90.0										
3	0.3270	118.5000	180.0000	240.0000	90.0										
1160	WRID	US	40-32-33 N	79- 9-57 W	1.00	N	D	B	P		316.82	PA	HOMER CITY	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.8860	101.0000	90.0000	240.0000	90.0										
3	0.2030	-159.0000	180.0000	240.0000	90.0										
1160	WYNS	US	40-49- 3 N	75-41-31 W	5.00	D	D	B	P		644.09	PA	LEHIGHTON	22.36	
1	1.0000	0.0000	0.0000	0.0000	85.0										
2	2.1310	5.0000	170.0000	255.0000	85.0										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1160	WYNS	US	40-49- 3 N	75-41-31 W	1.00	N	D	B	P		284.07	PA	LEHIGHTON	10.00	
1	1.0000		0.0000	0.0000	0.0000		85.0								
2	1.5580		5.0000	170.0000	255.0000		85.0								
1160	NEW	US	40-19-34 N	75- 9-40 W	1.00	D	D	B	P		287.99	PA	WARRINGTON	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.6500		-2.0000	205.0000	208.0000		90.0								
3	0.9000		98.5000	90.0000	53.0000		90.0								
4	0.5850		96.5000	129.1600	190.8730		90.0								
1160	NEW	US	40-19-34 N	75- 9-40 W	1.00	N	D	B	P		309.93	PA	WARRINGTON	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.5000		-93.0000	90.0000	53.0000		90.0								
1160	WBQN	US	18-26-22 N	66-33- 7 W	1.00	D	D	B	0		305.13	PR	MANTI	10.79	
1	0.5700		147.7000	60.0000	229.0000		84.9								
2	1.0000		0.0000	0.0000	0.0000		84.9								
3	0.4100		92.0000	107.0000	321.0000		84.9								

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	286.5	40.0	14.5				

1160	WBQN	US	18-26-22 N	66-33- 7 W	1.00	N	D	B	0		306.90	PR	MANTI	11.37	
1	0.5700		155.7000	60.0000	229.0000		84.9								
2	1.0000		0.0000	0.0000	0.0000		84.9								
3	0.4000		92.9000	107.0000	321.0000		84.9								

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL /	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	NEW	CA	47-34- 0 N	52-43- 0 W	10.00		D	N	B	P	90.0	949.49	NF	ST JOHN'S		
1180	NEW	CA	47-34- 0 N	52-43- 0 W	10.00		N	D	B	P		975.01	NF	ST. JOHN'S	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	0.9500	269.0000	90.0000	86.3000	90.0

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL /	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	NEW	CA	48-29- 0 N	64-17-49 W	10.00		D	N	B	P	90.0	946.59	QU	PERCE		
1180	NEW	CA	48-29- 0 N	64-18- 0 W	1.00		N	D	B	P		308.50	QU	PERCE	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	90.0
2	1.0000	257.7000	90.0000	50.5000	90.0

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL /	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	KBWA	US	35-15-38 N	112-10-55 W	10.00		D	N	B	P	84.2	905.88	AZ	WILLIAMS		
1180	KBWA	US	35-15-38 N	112-10-55 W	0.25		N	N	B	P	84.2	143.23	AZ	WILLIAMS		

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	86.4
2	1.8000	339.9998	124.9000	44.8000	86.4
3	1.0000	0.0000	247.2400	50.0000	86.4

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL /	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	KWSO	US	35-34-15 N	119-19-29 W	10.00		D	N	B	P	86.4	956.77	CA	WASCO		
1180	KWSO	US	35-34-15 N	119-19-29 W	1.00		N	D	B	P		285.69	CA	WASCO	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	86.4
2	1.8000	339.9998	124.9000	44.8000	86.4
3	1.0000	0.0000	247.2400	50.0000	86.4

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL /	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	NEW	US	24-42- 0 N	81- 5- 0 W	50.00		U	D	B	O		3540.56	FL	MARATHON	88.96	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	0.9250	90.0000	0.0000	0.0000	108.0
2	1.0000	0.0000	150.0000	183.0000	108.0
3	0.9250	-90.0000	300.0000	183.0000	108.0

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1160	WAMB	US	36- 9-49 N	86-42-56 W	50.00		D	N	B	P		3095.30	TN	DONELSON		
											T A = 161.2 B = 61.9 C = 0.0 D = 0.0					
1160	WAMB	US	36- 9-49 N	86-42-56 W	1.00		N	D	B	P		355.67	TN	DONELSON	12.21*	
1	1.0000		0.0000	0.0000	0.0000						T A = 161.2 B = 61.9 C = 0.0 D = 0.0					
2	0.8700		93.4000	90.0000	290.8000		80.6									
1160	NEW	US	28-48-49 N	97- 3-50 W	0.50		D	D	B	P		205.03	TX	VICTORIA	10.00	
1	1.0000		-120.0000	0.0000	0.0000		63.7									
2	1.0000		0.0000	45.0000	195.0000		63.7									
1160	NEW	US	28-48-49 N	97- 3-50 W	2.50		N	D	B	P		458.02	TX	VICTORIA	19.55	
1	1.0000		0.0000	0.0000	0.0000		63.7									
2	1.0000		-137.9000	45.0000	135.0000		63.7									
1160	KSL	US	40-46-46 N	112- 5-56 W	50.00		U	N	A	D	193.2	2822.19	UT	SALT LAKE CITY		
1160	NEW	US	47- 0-41 N	122-49-53 W	5.00		D	D	B	P		681.09	WA	LACEY	23.86	
1	1.0000		0.0000	0.0000	0.0000		76.4									
2	0.8700		-128.0000	60.0000	240.0000		76.4									
1180	831219	CA	49-49- 0 N	100-50- 0 W	10.00		D	N	B	P	90.0	965.62	MB	VIRDEN		
1180	831219	CA	49-49- 0 N	100-50- 0 W	1.00		N	D	B	P		315.43	MB	VIRDEN	10.18	78
1	1.0000		0.0000	0.0000	0.0000		90.0									
2	1.8400		233.0000	90.0000	357.5000		90.0									
3	1.0000		106.0000	180.0000	357.5000		90.0									

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1160	WAMB	US	36- 9-49 N	86-42-56 W	50.00	D N B P 3095.30 TN DONELSON
						T A = 161.2 B = 61.9 C = 0.0 D = 0.0
1160	WAMB	US	36- 9-49 N	86-42-56 W	1.00	N D B P 355.67 TN DONELSON 12.21*
1	1.0000	0.0000	0.0000	0.0000		T A = 161.2 B = 61.9 C = 0.0 D = 0.0
2	0.8700	93.4000	90.0000	290.8000	80.6	
1160	NEW	US	28-48-49 N	97- 3-50 W	0.50	D D B P 205.03 TX VICTORIA 10.00
1	1.0000	-120.0000	0.0000	0.0000	63.7	
2	1.0000	0.0000	45.0000	195.0000	63.7	
1160	NEW	US	28-48-49 N	97- 3-50 W	2.50	N D B P 458.02 TX VICTORIA 19.55
1	1.0000	0.0000	0.0000	0.0000	63.7	
2	1.0000	-137.9000	45.0000	135.0000	63.7	
1160	KSL	US	40-46-46 N	112- 5-56 W	50.00	U N A D 193.2 2822.19 UT SALT LAKE CITY
1160	NEW	US	47- 0-41 N	122-49-53 W	5.00	D D B P 681.09 WA LACEY 23.86
1	1.0000	0.0000	0.0000	0.0000	76.4	
2	0.8700	-128.0000	60.0000	240.0000	76.4	
1180	831219	CA	49-49- 0 N	100-50- 0 W	10.00	D N B P 90.0 965.62 MB VIRDEN
1180	831219	CA	49-49- 0 N	100-50- 0 W	1.00	N D B P 315.43 MB VIRDEN 10.18 78
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.8400	233.0000	90.0000	357.5000	90.0	
3	1.0000	106.0000	180.0000	357.5000	90.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1180	NEW	US	41-17- 5 N	95-44- 4 W	2.50	D	D	B	P		514.19	IA	COUNCIL BLUFFS	18.85	
1	1.0000		0.0000	0.0000	0.0000	86.4									
2	3.4700		153.7000	90.0000	55.0000	86.4									
3	3.7000		295.2999	180.0000	55.0000	86.4									
1180	NEW	US	41-17- 5 N	95-44- 4 W	1.00	N	D	B	P		334.58	IA	COUNCIL BLUFFS	11.22	
1	1.0000		0.0000	0.0000	0.0000	86.4									
2	2.1600		124.3999	90.0000	55.0000	86.4									
3	1.7300		-108.2000	180.0000	55.0000	86.4									
4	0.5200		21.1000	270.0000	55.0000	86.4									
1180	WLDS	US	39-44- 6 N	90-11-50 W	1.00	D	N	B	O	155.5	352.45	IL	JACKSONVILLE		
1180	NEW	US	37-57-11 N	87-25-10 W	0.50	D	N	B	P	77.7	210.53	IN	NEWBURGH		
1180	WKKE	US	32-17-43 N	90- 6-54 W	10.00	D	N	B	P	76.0	966.95	MS	PEARL		
1180	WKKE	US	32-17-43 N	90- 6-54 W	0.50	N	D	B	P		214.41	MS	PEARL	10.00	
1	1.0000		0.0000	0.0000	0.0000					T A = 76.0 B = 14.0 C = 0.0 D = 0.0					
2	1.5900		67.9000	120.0000	37.5000					T A = 76.0 B = 14.0 C = 0.0 D = 0.0					
3	0.6400		135.7000	240.0000	37.5000					T A = 76.0 B = 14.0 C = 0.0 D = 0.0					
1180	KOFI	US	48-11-52 N	114-15- 3 W	50.00	D	N	B	P	194.3	2844.95	MT	KALISPELL		
1180	KOFI-C	US	48-11-52 N	114-15- 3 W	50.00	N	D	B	P		2430.85	MT	KALISPELL	70.71	94
1	1.0000		0.0000	0.0000	0.0000	120.8									
2	0.9650		32.0000	150.0000	90.0000	194.2									

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	KOFI-L	US	48-11-52 N	114-15- 3 W	10.00		N	D	B	O		1095.96	MT KALISPELL	31.62	95

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	120.9	
2	1.1510	30.0000	150.0000	90.0000	194.2	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	10.0	40.0	1562.5	12	157.0	64.0	1262.1
2	30.0	40.0	1083.1	13	170.0	40.0	1561.7
3	50.0	40.0	579.4	14	190.0	40.0	1776.6
4	65.0	20.0	305.8	15	210.0	40.0	1634.5
5	75.0	20.0	194.7	16	230.0	40.0	1307.1
6	85.0	10.0	130.4	17	250.0	40.0	1004.4
7	90.0	10.0	130.4	18	270.0	40.0	892.6
8	97.0	14.0	130.4	19	290.0	40.0	1008.7
9	105.0	16.0	167.4	20	310.0	40.0	1307.1
10	114.0	18.0	257.5	21	330.0	40.0	1642.6
11	125.0	22.0	466.7	22	350.0	40.0	1762.2

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	NEW	US	41-12-20 N	95-54-20 W	5.00		D	D	B	P		722.92	NE BELLEVUE	24.71	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	84.2
2	0.9000	138.0000	90.0000	78.0000	84.2
3	0.2000	-117.0000	180.0000	78.0000	84.2
4	0.4000	80.0000	150.0000	190.0000	84.2
5	0.3600	-141.0000	143.1000	154.3000	84.2
6	0.0800	-37.0000	186.2000	126.3000	84.2

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	NEW	US	41-12-20 N	95-54-20 W	1.00		N	D	B	P		323.96	NE	BELLEVUE	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	84.2	
2	1.5300	107.9999	90.0000	78.0000	84.2	
3	0.6000	-144.0000	180.0000	78.0000	84.2	
4	0.4300	-125.0000	150.0000	190.0000	84.2	
5	0.6600	-17.0000	143.1000	154.3000	84.2	
6	0.2600	91.0000	186.2000	126.3000	84.2	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	NEW	US	40-48-42 N	96-31-34 W	10.00	D	D	B	P		959.89	NE	LINCOLN	35.48	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.5970	-28.2000	190.0000	231.5000	90.0	
3	0.7310	-120.9000	90.0000	12.0000	90.0	
4	0.4360	-149.2000	133.4600	256.9000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	NEW	US	40-51-15 N	96-33-54 W	1.00	D	N	B	P	90.0	305.78	NE	LINCOLN		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	NEW	US	40-51-15 N	96-33-54 W	1.00	D	N	B	P	89.8	305.78	NE	LINCOLN		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	USLI-1	US	40-48-42 N	96-31-34 W	1.00		N	D	B	P		328.79	NE	LINCOLN	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.5000	105.5000	95.0000	51.5000	90.0	
3	2.5000	210.9999	190.0000	51.5000	90.0	
4	1.0000	-44.0000	285.0000	51.5000	90.0	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	USLI-2	US	40-51-15 N	96-33-54 W	1.00		N	D	B	P		328.63	NE	LINCOLN	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.5000	105.5000	95.0000	51.5000	90.0	
3	2.5000	-149.0000	190.0000	51.5000	90.0	
4	1.0000	-44.0000	285.0000	51.5000	90.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	USLI-3	US	40-51-15 N	96-33-54 W	1.00	N	D	B	P		328.79	NE	LINCOLN	10.00	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	2.5000	105.5000	95.0000	51.5000	90.0									
	3	2.5000	210.9999	190.0000	51.5000	90.0									
	4	1.0000	-44.0000	285.0000	51.5000	90.0									
1180	WHAM	US	43- 4-55 N	77-43-30 W	50.00	U	N	A	D	177.1	2662.87	NY	ROCHESTER		
1180	NEW	US	42-18- 0 N	122-49- 0 W	10.00	D	N	B	P	90.0	966.95	OR	MEDFORD		
1180	NEW	US	42-18- 0 N	122-49- 0 W	1.00	N	D	B	P		309.48	OR	MEDFORD	10.00	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.4000	90.0000	90.0000	42.0000	90.0									
1180	NEW	US	44-25- 0 N	103-26- 0 W	0.50	N	D	B	P		255.89	SD	STURGIS	10.00	79
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	2.6810	139.0000	100.0000	184.0000	90.0									
	3	2.6810	-79.7000	200.0000	184.0000	90.0									
	4	1.0000	60.0000	300.0000	184.0000	90.0									
1180	NEW	US	29-46-17 N	95-15-13 W	10.00	D	D	B	P		989.18	TX	GALENA PARK	31.62	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.7000	106.2999	90.0000	160.0000	90.0									
1180	NEW	US	29-46-17 N	95-15-13 W	1.00	N	D	B	P		293.46	TX	GALENA PARK	10.00	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.8500	38.7000	145.0000	42.0000	90.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
1180	KCOH	US	29-45-21 N	95-16-41 W	50.00	D	D	B	P		2128.58	TX	HOUSTON	70.71	
1	1.0000		0.0000	0.0000	0.0000	86.4									
2	0.9300		-67.9000	104.8000	48.7000	86.4									
3	1.3000		49.7000	142.9000	79.2000	86.4									
4	1.1500		81.0000	103.2000	115.7000	86.4									
1180	KCOH	US	29-45-21 N	95-16-41 W	2.50	N	D	B	P		511.35	TX	HOUSTON	17.85	
1	1.0000		0.0000	0.0000	0.0000	86.4									
2	1.3000		83.9000	104.8000	48.7000	86.4									
3	0.9500		-103.6000	142.9000	79.2000	86.4									
4	0.6700		154.1000	103.2000	115.7000	86.4									
1180	NEW	US	29-50-57 N	95- 8-32 W	10.00	D	D	B	P		994.25	TX	HOUSTON	31.62	
1	1.0000		0.0000	0.0000	0.0000	95.0									
2	0.4000		-105.0000	100.0000	301.0000	95.0									
1180	NEW	US	29-53- 1 N	95-14-37 W	50.00	D	D	B	P		2107.11	TX	HOUSTON	70.71	
1	1.0000		0.0000	0.0000	0.0000	103.6									
2	0.7000		299.9998	120.0000	297.0000	103.6									
3	0.7000		314.9999	167.6000	265.7600	103.6									
4	1.0000		15.0000	90.0000	222.0000	103.6									
1180	USHO-1	US	29-53- 1 N	95-14-37 W	5.00	N	D	B	P		749.63	TX	HOUSTON	22.36	
1	1.0000		0.0000	0.0000	0.0000	103.6									
2	0.7000		203.9998	120.0000	300.0000	103.6									
3	0.9000		262.9998	90.0000	222.0000	103.6									
4	0.6300		106.9999	164.2900	267.6000	103.6									

FREQ KHZ / CALL SIGN	INDICATIF D'APPEL /	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1180	USH0-2	US	29-50-57 N	95- 8-32 W	5.00	N	D	B	P		741.10	TX	HOUSTON	22.88	
1	1.0000		0.0000	0.0000	0.0000		95.0								
2	0.7200		-161.0000	100.0000	301.0000		95.0								
3	0.6600		-71.0000	127.2000	351.5000		95.0								
4	0.9200		90.0000	100.0000	42.0000		95.0								
1180	USH0-3	US	29-53- 1 N	95-14-37 W	5.00	N	D	B	P		749.62	TX	HOUSTON	22.36	
1	1.0000		0.0000	0.0000	0.0000		103.6								
2	0.8000		207.0000	120.0000	297.0000		103.6								
3	0.7200		110.0000	167.6000	265.7600		103.6								
4	0.9000		262.9998	90.0000	222.0000		103.6								
1180	NEW	US	30- 8-21 N	95-17-24 W	10.00	D	N	B	P	90.0	966.95	TX	HUMBLE		
1180	NEW	US	30- 8-21 N	95-17-24 W	1.00	N	D	B	P		321.87	TX	HUMBLE	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	1.0000		95.0000	90.0000	29.0000		90.0								
3	0.9000		40.0000	310.5010	70.2648		90.0								
4	0.9000		-55.0000	250.0000	84.0000		90.0								
1200	NEW	CA	53-25- 0 N	113-25- 0 W	50.00	D	N	B	P	90.0	2116.30	AB	EDMONTON		
1200	NEW	CA	53-25- 0 N	113-25- 0 W	50.00	N	D	B	P		2226.19	AB	EDMONTON	70.71	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	1.6699		249.0000	90.0000	357.0000		90.0								
3	0.7200		136.8000	180.0000	357.0000		90.0								

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	95.0	
2	0.7200	-161.0000	100.0000	301.0000	95.0	
3	0.6600	-71.0000	127.2000	351.5000	95.0	
4	0.9200	90.0000	100.0000	42.0000	95.0	
1	1.0000	0.0000	0.0000	0.0000	103.6	
2	0.8000	207.0000	120.0000	297.0000	103.6	
3	0.7200	110.0000	167.6000	265.7600	103.6	
4	0.9000	262.9998	90.0000	222.0000	103.6	
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.0000	95.0000	90.0000	29.0000	90.0	
3	0.9000	40.0000	310.5010	70.2648	90.0	
4	0.9000	-55.0000	250.0000	84.0000	90.0	
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.6699	249.0000	90.0000	357.0000	90.0	
3	0.7200	136.8000	180.0000	357.0000	90.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1200	NEW	CA	48-26- 0 N	123-14-55 W	50.00	U	D	B	P		2138.85	BC	VICTORIA	70.71	90
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
	1	1.0000	0.0000	0.0000	0.0000	88.5									
	2	1.0000	-115.0000	68.9000	315.0000	88.5									
1200	NEW	CA	44-32- 0 N	63-40- 0 W	10.00	D	N	B	P	90.0	965.42	NS	HALIFAX		
1200	NEW	CA	44-32- 0 N	63-40- 0 W	10.00	N	D	B	P		965.61	NS	HALIFAX	31.62	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.8990	90.0000	90.0000	250.0000	90.0									
1200	830303	CA	45-16-57 N	75-44-45 W	50.00	D	D	B	P		2040.65	ON	OTTAWA	70.71	86
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.4000	-83.0000	99.8000	345.0000	90.0									
	3	0.3000	-42.0000	150.0000	20.0000	90.0									
1200	830519	CA	45-16-57 N	75-44-45 W	50.00	N	D	B	P		2200.46	ON	OTTAWA	70.71	87
	1	0.5600	0.0000	0.0000	0.0000	90.0									
	2	1.0000	-114.5000	99.8000	345.0000	90.0									
	3	0.4800	147.6000	199.6000	345.0000	90.0									
	4	0.4800	-84.6000	89.0000	60.0000	90.0									
	5	1.0000	165.6000	150.0000	20.0000	90.0									
	6	0.5800	61.1000	238.7000	6.1000	90.0									
1200	NEW	CA	46-26-58 N	84-15-52 W	10.00	D	N	B	P	90.0	946.59	ON	SAULT STE MARIE		
1200	NEW	CA	46-27- 0 N	84-16- 0 W	10.00	N	D	B	P		941.47	ON	SAULT STE MARIE	31.62	81,82
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.9299	-92.0000	90.0000	55.0000	90.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1200	NEW	CA	42-44- 8 N	80-39-19 W	10.00	N	D	B	P		965.61	ON	TILLSONBURG	31.62	85
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.9563		237.0000	90.0000	350.0000	90.0									
3	1.0000		113.9440	180.0000	350.0000	90.0									
4	1.0000		0.0000	190.0000	80.0000	90.0									
5	1.9563		237.0000	210.2380	54.6500	90.0									
6	1.0000		113.9440	261.7251	36.5480	90.0									
1200	NEW	CA	45-18- 0 N	73-45- 0 W	50.00	D	N	B	P	90.0	2100.71	QU	MONTREAL		88
1200	NEW	CA	45-18- 0 N	73-45- 0 W	50.00	N	D	B	P		2100.45	QU	MONTREAL	70.71	89
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.9500		91.3000	90.0000	238.0000	90.0									
3	0.9020		181.3000	127.8300	193.2500	90.0									
4	0.9500		90.0000	90.0000	148.5000	90.0									
1200	NEW	CA	45-20- 0 N	73-35- 0 W	5.00	U	D	B	P		658.70	QU	REPENTIGNY	22.36	80
1	1.0000		0.0000	0.0000	0.0000	80.0									
2	0.8300		-173.0000	90.0000	10.0000	80.0									
3	0.7900		-62.0000	80.0000	83.0000	80.0									
1200	NEW	US	41-45-34 N	124- 9-49 W	1.00	N	D	B	P		337.96	CA	CRESCENT	12.06	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.7321		145.0000	100.0000	60.0000	90.0									
3	1.0000		290.0000	200.0000	60.0000	90.0									
1200	NEW	US	41-45-34 N	124- 9-49 W	1.00	D	N	B	P	90.0	305.78	CA	CRESCENT CITY		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1200	KNEZ	US	34-39-45 N	120-23-56 W	10.00	D	D	B	P		986.11	CA	LOMPOC	31.62	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.5600		106.9999	80.0000	94.0000		90.0								
1200	KNEZ	US	34-39-45 N	120-23-56 W	5.00	N	D	B	P		696.23	CA	LOMPOC	22.36	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.9600		102.0000	80.0000	94.0000		90.0								
1200	NEW	US	33-44-38 N	116-21-35 W	5.00	D	D	B	P		632.84	CA	RANCHO MIRAGE	22.36	
1	1.0000		0.0000	0.0000	0.0000		85.6								
2	0.5400		134.0000	60.0000	95.0000		85.6								
1200	USRA-1	US	33-44-38 N	116-21-35 W	1.00	N	D	B	P		318.55	CA	RANCHO MIRAGE	12.22	
1	1.0000		0.0000	0.0000	0.0000		85.6								
2	1.7900		121.7000	60.0000	95.0000		85.6								
3	0.8000		243.3000	120.0000	95.0000		85.6								
1200	WRTT	US	41-52- 7 N	72-29- 4 W	1.00	D	D	B	P		314.47	CT	VERNON	10.00	
1	1.0000		0.0000	0.0000	0.0000		86.5								
2	0.8300		119.0000	86.5000	20.0000		86.5								
1200	WRTT	US	41-52- 7 N	72-29- 4 W	1.00	N	D	B	P		315.43	CT	VERNON	10.00	
1	1.0000		0.0000	0.0000	0.0000		86.5								
2	0.8500		-124.0000	87.2000	110.0000		86.5								

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1200	KDEC	US	43-15- 6 N	91-50-24 W	1.00		D	D	B	P		290.90	IA DECORAH	10.00	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.7000	29.5000	160.0000	120.0000	90.0									
	3	0.3500	-93.0000	90.0000	190.0000	90.0									
	4	0.2450	-63.5000	208.6870	143.9070	90.0									
1200	KDEC	US	43-15- 6 N	91-50-24 W	0.50		N	D	B	P		235.90	IA DECORAH	10.26*	
	1	0.4480	-118.0000	0.0000	0.0000	90.0									
	2	1.0000	0.0000	90.0000	190.0000	90.0									
	3	0.7930	120.5000	180.0000	190.0000	90.0									
	4	0.2260	-117.0000	270.0000	190.0000	90.0									
1200	NEW	US	43-17-36 N	91-45-20 W	1.00		D	D	B	P		308.19	IA DECORAH	16.69	
	1	1.0000	0.0000	0.0000	0.0000	86.9									
	2	0.7000	-164.6000	45.0000	22.0000	86.9									
1200	NEW	US	43-17-36 N	91-45-20 W	0.25		N	D	B	P		141.62	IA DECORAH	10.00	
	1	1.0000	0.0000	0.0000	0.0000	86.9									
	2	1.0000	-142.0000	45.0000	22.0000	86.9									
1200	NEW	US	43-33-57 N	116-20-13 W	10.00		D	N	B	P	90.0	966.95	ID BOISE		
1200	NEW	US	43-33-57 N	116-20-13 W	1.00		N	D	B	P		337.96	ID BOISE	12.06	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	1.7321	145.0000	100.0000	200.0000	90.0									
	3	1.0000	290.0000	200.0000	200.0000	90.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1200	WMRO	US	41-42-44 N	88-12-35 W	10.00		D	D	B			P	1011.78 IL AURORA	31.98	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	0.4800	144.9999	90.0000	184.0000	90.0	
3	0.0600	-70.0000	180.0000	184.0000	90.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1200	WMRO	US	41-42-44 N	88-12-35 W	1.00		N	D	B			P	328.29 IL AURORA	12.23	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.3800	-133.3000	0.0000	184.0000	90.0	
2	1.0000	0.0000	90.0000	184.0000	90.0	
3	1.0000	133.9000	180.0000	184.0000	90.0	
4	0.3800	-92.7000	270.0000	184.0000	90.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1200	NEW	US	41-41- 7 N	87-34-42 W	10.00		D	D	B			P	995.38 IL CHICAGO	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	87.8	
2	0.2300	120.2000	90.0000	180.0000	87.8	
3	1.8300	96.4000	102.0000	115.2000	87.8	
4	1.0800	-169.2000	199.1000	118.3000	87.8	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1200	NEW	US	41-41- 7 N	87-34-42 W	2.50		N	D	B			P	492.94 IL CHICAGO	15.81	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	87.8	
2	0.9400	-16.6000	195.0000	244.0000	87.8	
3	2.7600	94.5000	248.0000	225.0000	87.8	
4	2.8300	-157.9000	318.1000	213.4000	87.8	
5	0.8100	-49.9000	385.1000	207.0000	87.8	
6	2.7200	103.9000	90.0000	180.0000	87.8	
7	2.9600	-156.5000	180.0000	180.0000	87.8	
8	1.0000	-55.3000	266.9000	180.7000	87.8	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1200	NEW	US	41-29-52 N	87-52- 9 W	2.50	C	D	B	P		467.68	IL	FRANKFORT	39.37	
1	1.0000		0.0000	0.0000	0.0000	85.6									
2	1.4280		159.6000	66.0000	38.0000	85.6									
3	0.7710		-40.7000	132.0000	38.0000	85.6									
4	0.1440		118.3000	198.0000	38.0000	85.6									
1200	NEW	US	41-29-52 N	87-52- 9 W	5.00	D	D	B	P		661.33	IL	FRANKFORT	55.67	
1	1.0000		0.0000	0.0000	0.0000	85.6									
2	1.4280		159.6000	66.0000	38.0000	85.6									
3	0.7710		-40.7000	132.0000	38.0000	85.6									
4	0.1440		118.3000	198.0000	38.0000	85.6									
1200	NEW	US	41-29-52 N	87-52- 9 W	1.00	N	D	B	P		320.52	IL	FRANKFORT	11.84	
1	1.0000		0.0000	0.0000	0.0000	85.6									
2	1.9860		-122.7000	66.0000	38.0000	85.6									
3	1.0000		114.6000	132.0000	38.0000	85.6									
1200	NEW	US	41-45-53 N	87-47-23 W	5.00	D	D	B	P		682.20	IL	MAYWOOD & CHICAGO	22.36	
1	1.0000		0.0000	0.0000	0.0000	88.0									
2	0.5300		-76.0000	120.0000	322.0000	88.0									
1200	NEW	US	41-45-53 N	87-47-23 W	2.50	N	D	B	P		503.08	IL	MAYWOOD & CHICAGO	15.81	
1	1.0000		0.0000	0.0000	0.0000	88.0									
2	2.2000		100.0000	90.0000	217.0000	88.0									
3	1.2000		-160.0000	180.0000	217.0000	88.0									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1200	NEW	US	41-45-41 N	87-47-36 W	5.00	D	D	B	P		668.09	IL	MELROSE PARK	22.36	
1	1.0000		0.0000	0.0000	0.0000	74.6									
2	0.5300		-76.0000	120.0000	322.0000	74.6									
1200	NEW	US	41-45-41 N	87-47-36 W	2.50	N	D	B	P		492.96	IL	MELROSE PARK	15.81	
1	1.0000		0.0000	0.0000	0.0000	74.6									
2	2.2000		100.0000	90.0000	217.0000	74.6									
3	1.2000		-160.0000	180.0000	217.0000	74.6									
1200	WLCB	US	37-32-38 N	85-44-52 W	1.00	D	N	B	P	79.0	297.73	KY	HODGENVILLE		
1200	WLCB	US	37-32-38 N	85-44-52 W	0.25	N	D	B	P		142.35	KY	HODGENVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000	79.0									
2	1.9400		88.0000	110.0000	235.0000	79.0									
3	1.0000		175.9998	220.0000	235.0000	79.0									
1200	NEW	US	37-48-28 N	85-56-36 W	5.00	D	N	B	P	83.4	672.94	KY	RADCLIFF		
1200	USRA-2	US	37-48-28 N	85-56-36 W	0.25	N	D	B	P		159.49	KY	RADCLIFF	10.00	
1	0.5000		0.0000	0.0000	0.0000	83.4									
2	1.0000		249.9999	90.0000	54.0000	83.4									
3	0.5000		140.0000	180.0000	54.0000	83.4									
1200	WKOX	US	42-17-17 N	71-25-53 W	10.00	D	N	B	P		1257.03	MA	FRAMINGHAM		
										T A = 193.2 B = 20.8 C = 0.0 D = 0.0					

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1200	WKOX	US	42-17-17 N	71-25-53 W	1.00	N	D	B	P		426.64	MA	FRAMINGHAM	14.15*	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000		T A = 193.2 B = 20.8 C = 0.0 D = 0.0								
	2	0.8000	115.0000	79.0000	215.0000		T A = 193.2 B = 20.8 C = 0.0 D = 0.0								
1200	WMLI	US	44-46-23 N	68-49-45 W	10.00	U	D	B	P		955.00	ME	BREWER	31.62	
	1	1.0000	0.0000	0.0000	0.0000	70.0									
	2	1.0010	101.8599	89.7300	223.3000	70.0									
1200	WCHB	US	42-15-22 N	83-21-48 W	50.00	D	D	B	P		2213.65	MI	INKSTER	87.04	
	1	1.0000	0.0000	0.0000	0.0000	62.7									
	2	1.8800	133.0000	87.8400	281.3000	62.7									
	3	1.2500	-88.5000	175.6800	281.3000	62.7									
	4	0.3100	56.0000	263.5200	281.3000	62.7									
1200	WCHB	US	42-15-22 N	83-21-48 W	1.00	N	D	B	P		293.67	MI	INKSTER	10.00	
	1	1.0000	0.0000	0.0000	0.0000	62.7									
	2	0.7000	-29.0000	216.6660	136.0000	62.7									
	3	1.9950	-111.0000	75.0000	46.0000	62.7									
	4	1.4000	-140.0000	229.2796	116.9065	62.7									
	5	1.0000	138.0000	150.0000	46.0000	62.7									
	6	0.7000	109.0000	263.5226	101.3048	62.7									
1200	KXLO	US	47- 4-13 N	109-24-26 W	1.00	U	N	B	P	92.3	308.99	MT	LEWISTON		
1200	WSML	US	36- 3-15 N	79-23-10 W	10.00	D	N	B	P	79.0	944.05	NC	GRAHAM		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1200	WSML	US	36- 6-54 N	79-27-52 W	1.00	N	D	B	P		281.64	NC	GRAHAM	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.8660		-120.8900	90.0000	110.0000	90.0									
3	0.9998		118.2300	180.0000	110.0000	90.0									
1200	KFNW	US	46-48- 6 N	96-52-57 W	10.00	D	N	B	P	90.0	1017.84	ND	WEST FARGO		
1200	KFNW	US	46-48- 6 N	96-52-57 W	1.00	N	D	B	P		281.64	ND	WEST FARGO	10.00	
1	1.0000		0.0000	0.0000	0.0000	171.2									
2	1.0000		96.5000	90.0000	183.5000	92.2									
1200	WGNY	US	41-30-30 N	74- 2-58 W	10.00	D	D	B	P		911.47	NY	NEWBURGH	31.62	
1	0.3370		108.8499	0.0000	0.0000	90.0									
2	0.5410		37.2100	110.0000	330.0000	90.0									
3	0.7170		68.8600	220.0000	330.0000	90.0									
4	1.0000		0.0000	330.0000	330.0000					T A = 46.0 B = 150.0 C = 138.0 D = 62.7					
1200	WGNY	US	41-30-30 N	74- 2-58 W	1.00	N	D	B	P		345.72	NY	NEWBURGH	11.71	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.7370		-154.8400	110.0000	150.0000	90.0									
3	1.4150		68.8800	220.0000	150.0000	90.0									
4	0.4880		-73.7500	330.0000	150.0000	90.0									
1200	WEZG	US	43- 9- 6 N	76- 7-58 W	1.00	D	N	B	P	94.4	308.99	NY	NORTH SYRACUSE		
1200	WEZG	US	43- 9- 6 N	76- 7-58 W	1.00	N	D	B	P		310.76	NY	NORTH SYRACUSE	10.00	
1	1.0000		0.0000	0.0000	0.0000	94.4									
2	0.7800		85.0000	90.0000	240.0000	94.4									

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1200	WBZY	US	40-56-22 N	80-23-38 W	10.00		D	N	B	P	86.5	956.77	PA	NEW CASTLE		
1200	WBZY	US	40-56-22 N	80-23-38 W	2.50		N	D	B	P		500.17	PA	NEW CASTLE	15.81	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	86.5
2	1.5900	96.7000	90.0000	255.0000	86.5
3	0.6400	193.4000	180.0000	255.0000	86.5

DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1200	NEW	US	18- 0-46 N	66-30-30 W	0.25		U	N	B	O	79.0	149.67	PR	FORT ALLEN		
1200	WGDL	US	18-17-23 N	66-52-25 W	0.25		D	N	B	P	87.8	152.08	PR	LARES		
1200	NEW	US	17-55-15 N	66-12-25 W	0.25		U	N	B	O	79.0	149.67	PR	ROOSEVELT ROADS		
1200	NEW	US	36-11-28 N	86-19-44 W	5.00		D	D	B	P		736.00	TN	LEBANON	29.11	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	83.4
2	1.6000	145.9999	90.0000	239.0000	83.4
3	0.7400	-68.0000	180.0000	239.0000	83.4

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1200	NEW	US	36-11-28 N	86-19-44 W	0.50		N	D	B	P		232.21	TN	LEBANON	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	83.4
2	2.8600	115.0000	90.0000	239.0000	83.4
3	2.8600	-130.0000	180.0000	239.0000	83.4
4	1.0000	-15.0000	270.0000	239.0000	83.4

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1200	WQDQ	US	36-11- 5 N	86-20-19 W	5.00		D	D	B	P		736.00	TN	LEBANON	29.11	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)
1	1.0000	0.0000	0.0000	0.0000	83.4
2	1.6000	145.9999	90.0000	239.0000	83.4
3	0.7400	-68.0000	180.0000	239.0000	83.4

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1200	WQDQ	US	36-11- 5 N	86-20-19 W	0.50		N	D	B			P	232.21 TN LEBANON	10.00	
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1	1.0000	0.0000	0.0000	0.0000	83.4										
2	2.8600	115.0000	90.0000	239.0000	83.4										
3	2.8600	-130.0000	180.0000	239.0000	83.4										
4	1.0000	-15.0000	270.0000	239.0000	83.4										
1200	NEW	US	36-33-55 N	82-41-34 W	10.00		D	D	B			P	891.59 TN MOUNT CARMEL	31.62	
1	1.0000	0.0000	0.0000	0.0000	83.5										
2	0.9500	101.0000	100.8000	13.5000	83.5										
1200	NEW	US	36-33-55 N	82-41-34 W	0.25		N	D	B			P	152.89 TN MOUNT CARMEL	10.00	
1	1.0000	0.0000	0.0000	0.0000	83.5										
2	0.9500	116.0999	80.0000	244.0000	83.5										
3	0.9000	-79.2000	123.5000	283.5000	83.5										
4	0.9500	164.7000	80.0000	323.0000	83.5										
1200	WOAI	US	29-30- 5 N	98- 7- 9 W	50.00		U	N	A			P	2970.12 TX SAN ANTONIO		
										SO A = 115.0 B = 44.3 C = 233.7 D = 0.0					
1200	WOAI	US	29-16- 3 N	98-16-28 W	50.00		U	N	A			O	2970.12 TX SAN ANTONIO		
										SO A = 115.0 B = 36.7 C = 233.7 D = 0.0					
1200	WAGE	US	39- 6-36 N	77-35- 3 W	5.00		D	N	B			P	88.0 676.54 VA LEESBURG		
1200	WAGE	US	39- 6-36 N	77-35- 3 W	1.00		N	D	B			P	310.46 VA LEESBURG	10.00	
1	1.0000	0.0000	0.0000	0.0000	88.0										
2	0.8700	-102.0000	80.0000	66.0000	88.0										

FREQ KHZ / INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ / CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
1200	NEW	US	37-16- 3 N	80- 7-47 W	10.00	D	D	B	P		1169.01	VA SALEM	31.62	
1	1.0000	0.0000	0.0000	0.0000	175.7									
2	0.8000	60.0000	90.0000	250.0000	175.7									
1200	NEW	US	37-16- 3 N	80- 7-47 W	1.00	N	D	B	P		369.04	VA SALEM	11.27	
1	1.0000	0.0000	0.0000	0.0000	175.7									
2	0.8600	32.5000	170.0000	20.0000	175.7									
3	1.2900	125.9000	131.6460	348.4200	175.7									
4	0.4800	219.2999	148.1940	311.4940	175.7									
5	0.5600	186.7999	180.0000	250.0000	175.7									
6	1.5000	93.4000	90.0000	250.0000	175.7									
1200	NEW	US	47-34-31 N	122-20-56 W	1.00	D	N	B	P	65.8	283.24	WA SEATTLE		
1200	NEW	US	47-34-31 N	122-20-56 W	0.25	N	D	B	P		143.31	WA SEATTLE	10.00	
1	1.0000	0.0000	0.0000	0.0000	65.8									
2	0.4500	-100.0000	90.0000	335.0000	65.8									
1200	NEW	US	45-28-18 N	89-43-42 W	1.00	D	N	B	P	90.0	305.78	WI TOMAHAWK		
1200	NEW	US	45-28-18 N	89-43-42 W	1.00	N	N	B	P	112.0	1.61	WI TOMAHAWK		
1200	WAWA	US	43- 2-19 N	88- 4-21 W	5.00	D	D	B	P		630.86	WI WEST ALLIS	22.36	
1	1.0000	0.0000	0.0000	0.0000	90.0									
2	0.9000	222.9998	90.0000	62.0000	90.0									

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1200	WAWA	US	43- 2-19 N	88- 4-21 W	2.50	N	D	B	P		445.79	WI	WEST ALLIS	15.81	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.0000	262.9998	90.0000	34.0400	90.0										
3	1.0000	165.9998	180.0000	34.0400	90.0										
1210	CACLNA	CA	51-38- 0 N	120- 2- 0 W	1.00	N	N	B	P	90.0	299.34	BC	CLEARWATER		
1210	NEW	CA	51-38- 5 N	120- 2- 3 W	10.00	D	N	B	P	90.0	2993.36	BC	CLEARWATER		
1210	NEW	CA	55-40- 6 N	97-47-52 W	10.00	D	N	B	P	90.0	946.59	MB	THOMPSON		
1210	NEW	CA	55-40- 0 N	97-48- 0 W	10.00	N	D	B	P		1022.40	MB	THOMPSON	31.62	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.5000	242.7000	90.0000	341.0000	90.0										
3	0.6299	120.0000	180.0000	341.0000	90.0										
1210	NEW	CA	47-34- 0 N	52-38- 0 W	10.00	N	D	B	P		975.01	NF	ST JOHN'S	31.62	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.9399	268.5000	90.0000	86.5000	90.0										
1210	NEW	CA	47-34- 0 N	52-37-54 W	10.00	D	N	B	P	90.0	946.59	NF	ST. JOHN'S		
1210	NEW	CA	50-25-53 N	104-30- 5 W	10.00	D	N	B	P	90.0	946.59	SA	REGINA		
1210	NEW	CA	50-26- 0 N	104-30- 0 W	10.00	N	D	B	P		965.61	SA	REGINA	31.62	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	0.7000	109.0000	90.0000	213.0000	90.0										
3	0.7000	17.0000	140.8670	251.5000	90.0										
4	1.0000	268.0000	90.0000	290.0000	90.0										

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1210	NEW	US	32-58-30 N	111-31-18 W	10.00	D	N	B	P	90.0	966.95	AZ	COOLIDGE		
1210	NEW	US	32-58-30 N	111-31-18 W	1.00	N	D	B	P		336.35	AZ	COOLIDGE	12.84	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.6340		143.4700	100.0000	0.0000	90.0									
3	1.0300		302.0000	200.0000	0.0000	90.0									
1210	NEW	US	32- 2- 5 N	110-56-51 W	10.00	D	N	B	P	89.9	966.95	AZ	SAHUARITA		
1210	NEW	US	31-55-58 N	110-54-26 W	10.00	D	N	B	P	88.6	961.86	AZ	SAHUARITA		
1210	NEW	US	31-57-15 N	110-56-12 W	10.00	D	N	B	P	88.6	966.95	AZ	SAHUARITA		
1210	USSA-1	US	31-57-15 N	110-56-12 W	0.25	N	N	B	P	88.6	152.89	AZ	SAHUARITA		
1210	USSA-5	US	32- 2- 5 N	110-56-51 W	1.00	N	D	B	P		326.65	AZ	SAHUARITA	10.09	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.6220		-153.0000	100.0000	173.0000	90.0									
1210	USSA-6	US	31-55-58 N	110-54-26 W	0.50	N	D	B	P		209.41	AZ	SAHUARITA	10.00	
1	1.0000		0.0000	0.0000	0.0000	88.5									
2	1.0000		30.0000	120.0000	90.0000	88.5									
1210	KDAC	US	39-26-34 N	123-46-48 W	1.00	D	N	B	P	177.1	318.65	CA	FORT BRAGG		
1210	KDAC	US	39-26-34 N	123-46-48 W	0.50	N	N	B	P	177.1	266.29	CA	FORT BRAGG		
1210	KLIP	US	36-39-43 N	119-41- 2 W	10.00	D	N	B	P	160.8	1134.89	CA	FOWLER		
1210	KLIP	US	36-39-43 N	119-41- 2 W	1.00	N	N	B	P	160.8	358.88	CA	FOWLER		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1210	NEW	US	33-46-57 N	116-58-45 W	1.00		D	N	B	P	84.1	300.95	CA	SAN JACINTO		
1210	USSA-2	US	33-46-57 N	116-58-45 W	0.25		N	N	B	P	84.1	150.47	CA	SAN JACINTO		
1210	NEW	US	33-14-30 N	117-18-53 W	10.00		D	D	B	P		1034.81	CA	SAN MARCOS	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	86.4	
2	0.6500	60.0000	170.0000	36.0000	86.4	
3	0.6500	-100.0000	170.0000	216.0000	86.4	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1210	USCA-3	US	33- 8-27 N	117-10-12 W	1.00		N	N	B	P	86.4	302.56	CA	SAN MARCOS		
1210	WCMQ	US	25-50- 2 N	80-23-38 W	25.00		D	D	B	P		1598.96	FL	MIAMI SPRINGS	50.26	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.5510	-122.1000	0.0000	0.0000	124.0	
2	1.0000	0.0000	90.0000	350.0000	124.0	
3	0.5460	126.4000	180.0000	350.0000	124.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1210	WCMQ	US	25-52-25 N	80-21-17 W	25.00		D	D	B	P		1461.65	FL	MIAMI SPRINGS	50.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	-109.3000	0.0000	0.0000	124.0	
2	1.9800	5.5000	90.0000	350.0000	124.0	
3	1.0000	109.2000	180.0000	350.0000	124.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1210	WCMQ-A	US	25-52-25 N	80-21-17 W	2.50		N	D	B	P		526.34	FL	MIAMI SPRINGS	15.81	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	-90.7000	0.0000	0.0000	124.0	
2	2.0000	1.3000	90.0000	350.0000	124.0	
3	1.0000	89.7000	180.0000	350.0000	124.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1210	WCMQ-C	US	25-50- 2 N	80-23-38 W	2.50	N	D	B	P		526.01	FL	MIAMI SPRINGS	15.81	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	124.0	
2	2.5000	91.8000	90.0000	350.0000	124.0	
3	1.5000	181.3699	180.0000	350.0000	124.0	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1210	WDGR	US	34-31-45 N	84- 0-23 W	10.00	D	N	B	P	84.1	951.68	GA	DAHLONEGA		
1210	KZOO-A	US	21-17-59 N	157-51-33 W	5.00	U	N	B	P	141.7	759.31	HI	HONOLULU		
1210	KZOO-L	US	21-17-59 N	157-51-33 W	1.00	U	N	B	O	141.7	339.57	HI	HONOLULU		
1210	KBAR	US	42-32- 5 N	113-48-54 W	5.00	D	N	B	P	66.4	647.75	ID	BURLEY		
1210	KBAR	US	42-32- 5 N	113-48-54 W	0.50	N	N	B	P	66.4	204.84	ID	BURLEY		
1210	NEW	US	43-36-49 N	116-22- 7 W	5.00	D	N	B	P	86.4	676.54	ID	MERIDIAN		
1210	NEW	US	43-36-49 N	116-22- 7 W	0.50	N	N	B	P	86.4	213.94	ID	MERIDIAN		
1210	WILY	US	38-34-44 N	89- 6-46 W	1.00	D	N	B	O	97.4	310.60	IL	CENTRALIA		
1210	WKNX	US	43-20-30 N	83-53-52 W	10.00	D	D	B	O		1242.41	MI	SAGINAW	46.58	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.5000	0.0000	0.0000	0.0000	177.2	
2	1.0000	158.0000	83.6000	182.8000	177.2	
3	0.5000	285.9999	180.0000	188.0000	177.2	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1210	WAVN	US	44-59-29 N	92-48-13 W	5.00	C	N	B	P	90.0	683.73	MN	STILLWATER		
1210	WAVN	US	44-59-29 N	92-48-13 W	50.00	D	N	B	P	90.0	2162.16	MN	STILLWATER		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
1210	830407	US	44-59-29 N	92-48-13 W	1.00	N	D	B	P			297.73 MN STILLWATER(821222)	10.00	91
1	1.0000		0.0000	0.0000	0.0000		86.4							
2	2.5000		120.0000	90.0000	128.0000		86.4							
3	2.5000		240.0000	180.0000	128.0000		86.4							
4	1.0000		358.0000	270.0000	128.0000		86.4							
1210	WAVN	US	44-59-29 N	92-48-13 W	1.00	N	D	B	P			297.73 MN STILLWATER(821222)	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0							
2	2.5000		120.0000	90.0000	128.0000		90.0							
3	2.5000		240.0000	180.0000	128.0000		90.0							
4	1.0000		358.0000	270.0000	128.0000		90.0							
1210	WADE	US	34-57- 1 N	80- 3-23 W	1.00	D	N	B	D	132.9		333.13 NC WADESBORO		
1210	WAVI	US	39-43-36 N	84-12-23 W	0.25	D	N	B	D	177.6		177.03 OH DAYTON		
1210	KGYN	US	36-40-34 N	101-22-58 W	10.00	D	N	B	D	90.0		966.95 OK GUYMON		
1210	KGYN	US	36-40-34 N	101-22-58 W	10.00	N	D	B	D			1034.81 OK GUYMON	31.62	
1	0.5040		-69.0000	0.0000	0.0000		90.0							
2	1.0000		0.0000	120.0000	75.0000		90.0							
3	0.5040		69.0000	240.0000	75.0000		90.0							

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	40.0	10.0	48.3	4	90.0	30.0	43.5
2	45.0	10.0	54.6	5	105.0	30.0	64.4
3	75.0	30.0	38.6	6	138.0	10.0	402.3

1210	WCAU	US	39-58-46 N	74-59-13 W	50.00	U	N	A	D	186.0		2742.53 PA PHILADELPHIA		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES À CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1210	WHOY	US	17-58-38 N	66-18-14 W	5.00	D	D	B	O		700.06	PR	SALINAS	25.16	
1	1.6000	135.9999	0.0000	0.0000	88.6										
2	1.0000	0.0000	60.0000	62.0000	90.3										
1210	WHOY	US	17-58-38 N	66-18-14 W	1.00	N	D	B	O		316.40	PR	SALINAS	12.94	
1	1.1000	144.0000	0.0000	0.0000	88.6										
2	1.0000	0.0000	60.0000	62.0000	90.3										
1210	KOKK	US	44-21-44 N	98- 9- 9 W	10.00	D	D	B	P		986.51	SD	HURON	31.62	
1	1.0000	0.0000	0.0000	0.0000	88.6										
2	0.9150	107.9999	80.0000	5.0000	88.6										
1210	KOKK	US	44-21-44 N	98- 9- 9 W	1.00	N	D	B	P		322.34	SD	HURON(820305)	10.00	
1	1.0000	-112.0000	0.0000	0.0000	88.6										
2	1.9760	4.6000	90.0000	125.0000	88.6										
3	1.0000	112.0000	180.0000	125.0000	88.6										
1210	NEW	US	28-59-51 N	95-54-42 W	1.00	D	N	B	P	90.0	305.78	TX	BAY CITY		
1210	NEW	US	28-59-51 N	95-54-42 W	1.00	N	D	B	P		319.45	TX	BAY CITY	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	2.6900	104.0000	100.0000	20.0000	90.0										
3	1.8770	208.0000	200.0000	20.0000	90.0										

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1210	NEW	US	26-17-13 N	98- 2-36 W	50.00		D	D	B			P	TX DONNA	70.71	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.9940	81.8300	103.7300	48.7500	90.0									
	3	0.9480	55.4600	144.4500	8.6300	90.0									
	4	0.9440	141.4600	229.0600	25.6900	90.0									
1210	NEW	US	26-17-13 N	98- 2-36 W	5.00		N	D	B			P	TX DONNA	22.36	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.9440	81.8300	103.7300	48.7500	90.0									
	3	0.9480	55.4600	144.4500	8.6300	90.0									
	4	0.9440	141.4600	229.0600	25.6900	90.0									
1210	NEW	US	30-52-37 N	102-53-30 W	10.00		D	N	B		90.0	P	TX FORT STOCKTON		
1210	NEW	US	30-52-37 N	102-53-30 W	1.00		N	D	B			P	TX FORT STOCKTON	10.00	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	2.6900	104.0000	100.0000	40.0000	90.0									
	3	1.8770	208.0000	200.0000	40.0000	90.0									
1210	NEW	US	26-15-11 N	97-44-49 W	50.00		D	D	B			P	TX HARLINGEN	70.71	
	1	1.0000	0.0000	0.0000	0.0000	88.6									
	2	1.0000	83.0000	100.0000	40.0000	88.6									
	3	1.0000	42.1000	140.0000	0.0000	88.6									
	4	1.0000	125.0999	225.9000	16.5000	88.6									
1210	NEW	US	26-15-11 N	97-44-49 W	1.00		N	D	B			P	TX HARLINGEN	10.00	
	1	1.0000	0.0000	0.0000	0.0000	88.6									
	2	1.3000	82.6000	100.0000	40.0000	88.6									

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGREES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1210	NEW	US	26-15- 6 N	97-45-10 W	50.00	D	D	B	P		2105.59	TX	SAN BENITO	70.71	
1	1.0000		0.0000	0.0000	0.0000	88.6									
2	1.0000		40.0000	140.0000	4.0000	88.6									
3	1.0000		130.0000	228.4588	9.3151	88.6									
4	1.0000		90.0000	90.0000	39.0000	88.6									
1210	USSA-7	US	26-15- 6 N	97-45-10 W	1.00	N	D	B	P		308.69	TX	SAN BENITO	10.00	
1	1.0000		0.0000	0.0000	0.0000	88.6									
2	1.3700		90.0000	90.0000	39.0000	88.6									
1210	NEW	US	26-12-12 N	98- 4- 8 W	10.00	D	D	B	P		973.32	TX	SAN JUAN	31.62	
1	1.0000		0.0000	0.0000	0.0000	84.1									
2	0.8500		97.0000	90.0000	35.0000	84.1									
1210	USSA-4	US	26-12-12 N	98- 4- 8 W	1.00	N	D	B	P		307.79	TX	SAN JUAN	10.00	
1	1.0000		0.0000	0.0000	0.0000	84.1									
2	0.8500		97.0000	90.0000	35.0000	84.1									
1210	KCLG	US	37- 8-38 N	113-30- 3 W	10.00	D	N	B	P	97.4	982.21	UT	WASHINGTON		
1210	KCLG	US	37- 8-38 N	113-30- 3 W	0.25	N	N	B	P	97.4	155.30	UT	WASHINGTON		
1210	KASY	US	47-18-20 N	122-14-51 W	10.00	D	N	B	P	84.1	951.68	WA	AUBURN		
1210	KASY	US	47-18-20 N	122-14-51 W	1.00	N	N	B	P	84.1	300.95	WA	AUBURN		
1210	KREW	US	46-19-49 N	120- 2-10 W	10.00	D	N	B	P	150.6	1101.81	WA	SUNNYSIDE		
1210	KREW	US	46-19-49 N	120- 2-10 W	1.00	N	N	B	P	150.6	348.42	WA	SUNNYSIDE		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1210	NEW	US	42-43-41 N	110-57- 5 W	5.00	D	N	B	80.2	665.74	WY	AFTON		
1210	NEW	US	42-43-22 N	110-57-39 W	5.00	D	N	B	86.4	676.54	WY	AFTON		
1210	USAF-1	US	42-43-41 N	110-57- 5 W	0.25	N	N	B	80.2	148.86	WY	AFTON		
1210	USAF-2	US	42-43-22 N	110-57-39 W	0.25	N	N	B	86.4	151.28	WY	AFTON		
1210	KOJO	US	41-15-15 N	105-32-20 W	25.00	D	D	B		1573.71	WY	LARAMIE	56.81	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	84.1	
2	0.7500	140.0000	70.0000	111.5000	84.1	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1210	KOJO	US	41-15-15 N	105-32-20 W	1.00	N	D	B		286.72	WY	LARAMIE	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	84.1	
2	0.9700	121.0000	70.0000	111.5000	84.1	

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA									
1540	831130	CA	43-36-55 N	79-22-50 W	15.00		N	D	B	P		.1174.85	ON	TORONTO	26.67*	
1	0.3551	-146.2500	0.0000	0.0000	81.7											
2	1.0000	0.0000	125.0000	202.0000	81.7											
3	1.0000	145.5000	250.0000	202.0000	81.7											
4	0.3551	-68.2500	375.0000	202.0000	81.7											
1540	840109	CA	43-36-55 N	79-22-50 W	15.00		N	D	B	P		1168.03	ON	TORONTO	26.67*	99
1	0.3540	-146.4000	0.0000	0.0000	81.7											
2	1.0000	0.0000	123.0000	202.0000	81.7											
3	1.0000	145.7000	246.0000	202.0000	81.7											
4	0.3540	-67.9000	369.0000	202.0000	81.7											
1580	NEW	CA	53-26-54 N	113-16-25 W	50.00		D	N	B	P	214.0	3032.03	AB	EDMONTON		
1580	NEW	CA	53-26-50 N	113-16-30 W	50.00		D	N		P	90.0	2092.17	AB	EDMONTON		
1580	NEW	CA	53-26-50 N	113-16-30 W	50.00		N	D		P		2051.91	AB	EDMONTON	70.71	
1	1.0000	0.0000	0.0000	0.0000	90.0											
2	1.4099	-64.0000	135.0000	283.0000	90.0											
3	0.5100	-150.0000	270.0000	283.0000	90.0											
1580	NEW	CA	53-26-54 N	113-16-25 W	50.00		N	D	B	P		2561.59	AB	EDMONTON	70.71	
1	1.0000	0.0000	0.0000	0.0000	214.0											
2	0.9500	80.0000	100.0000	96.0000	98.3											

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)		DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)							
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)		TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
1580	830517	CA	49-50- 0 N	97-10- 0 W	5.00	N	D	B	P		657.40	MB	WINNIPEG	23.49	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		230.0000	90.0000	322.0000	90.0									
3	1.0000		230.0000	162.1100	55.3800	90.0									
4	1.0000		0.0000	190.0000	83.6000	90.0									
1580	NEW	CA	49-50- 0 N	97-10- 0 W	10.00	D	D	B	P		965.61	MB	WINNIPEG	31.62	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.5000		237.4998	90.0000	45.0000	90.0									
1580	CBJ	CA	48-28-56 N	71- 9-33 W	50.00	U	D	A	P		2341.27	QU	CHICOUTIMI	71.82	
1	0.5620		228.0000	380.0000	202.0000	98.0									
2	1.0000		0.0000	0.0000	0.0000	188.0									
3	0.7949		294.0000	190.0000	202.0000	98.0									
1580	WEYY	US	33-26-55 N	86- 3-54 W	2.50	D	N	B	O	117.4	511.46	AL	TALLADEGA		
1580	WEYY	US	33-26-55 N	86- 3-54 W	0.25	N	N	B	P	117.4	161.74	AL	TALLADEGA		
1580	KPCA	US	35-31-33 N	90-24-52 W	0.25	D	N	B	O	86.8	152.08	AR	MARKED TREE		
1580	KFDF	US	35-25-58 N	94-19-47 W	1.00	D	N	B	O	127.2	331.52	AR	VAN BUREN		
1580	KFDF	US	35-25-58 N	94-19-47 W	0.25	N	N	B	P	128.0	164.15	AR	VAN BUREN		
1580	KNIX	US	33-27-22 N	111-50- 1 W	10.00	C	N	B	O	138.7	1073.82	AZ	TEMPE		
1580	KNIX	US	33-27-22 N	111-50- 1 W	50.00	D	N	B	O	138.7	2401.13	AZ	TEMPE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1580	KNIX	US	33-27-22 N	111-50- 1 W	10.00	N	D	B	O		930.68	AZ	TEMPE	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.8700	31.0000	0.0000	0.0000	80.9	
2	1.0000	0.0000	171.9000	166.0000	138.7	
3	0.7900	-39.0000	343.8000	166.0000	80.9	
4	0.5500	-158.0000	396.0744	175.3928	80.9	
5	0.7000	-119.0000	228.2101	182.4543	80.9	
6	0.6100	-88.0000	79.9000	220.0000	80.9	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1580	KLOQ	US	37-17-31 N	120-26- 3 W	1.00	D	N	B	O	86.8	302.56	CA	MERCED		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1580	KLOQ	US	37-17-31 N	120-26- 3 W	0.25	N	N	B	P	86.8	151.28	CA	MERCED		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
1580	KDAY	US	34- 5- 8 N	118-15-24 W	50.00	D	D	B	O		2735.88	CA	SANTA MONICA	95.56	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	115.6	
2	0.9000	166.1040	80.0000	20.0000	115.6	
3	0.7000	244.3000	128.6000	163.5000	115.6	
4	0.6300	50.4000	79.9863	126.9927	115.6	

AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	30.0	30.0	1175.6	7	95.0	20.0	740.3
2	45.0	20.0	778.1	8	115.0	10.0	1443.3
3	55.0	18.0	915.7	9	281.0	28.0	498.9
4	64.0	18.0	1190.9	10	295.0	22.0	321.9
5	73.0	18.0	1271.4	11	306.0	22.0	394.3
6	84.0	22.0	1102.4	12	317.0	22.0	717.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1580	KDAY	US	34- 5- 8 N	118-15-24 W	50.00	N	D	B	O		2333.55	CA	SANTA MONICA	82.56	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	115.6	
2	0.7000	110.7000	80.0000	20.0000	115.6	
3	0.7230	221.4000	160.0000	20.0000	115.6	
4	0.9600	100.0000	80.0000	127.0000	115.6	
5	1.6320	210.7000	95.1716	73.5000	115.6	
6	0.6940	321.4000	156.5736	49.2497	115.6	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	6.0	16.0	135.2	13	175.0	50.0	1850.7
2	15.0	18.0	148.1	14	200.0	40.0	3651.4
3	25.0	20.0	172.2	15	220.0	40.0	5071.0
4	35.0	20.0	214.0	16	240.0	30.0	5610.1
5	45.0	20.0	249.4	17	255.0	30.0	5315.6
6	55.0	18.0	259.1	18	275.0	40.0	4018.1
7	64.0	18.0	262.3	19	295.0	40.0	2333.5
8	73.0	18.0	267.2	20	315.0	40.0	844.9
9	84.0	22.0	273.6	21	335.0	15.0	254.3
10	95.0	20.0	272.0	22	342.5	15.0	140.0
11	105.0	20.0	209.2	23	350.0	15.0	125.5
12	150.0	35.0	708.1	24	358.0	16.0	127.1

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1580	KPIK	US	38-53- 1 N	104-50-42 W	5.00	D	N	B	O	157.3	795.29	CO	COLORADO SPRINGS		
1580	KPIK	US	38-53- 1 N	104-50-42 W	5.00	N	D	B	P		742.39	CO	COLORADO SPRINGS	22.36	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	156.1	
2	0.9000	11.5000	172.0000	50.0000	115.7	

FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1580	WENO	US	30-40-14 N	84-50- 8 W	5.00	D	N	B	O	107.0	708.92	FL	CHATTAHOOCHEE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1580	WSRF	US	26- 4-54 N	80-13-34 W	10.00		D	D	B	0			981.70 FL FORT LAUDERDALE	31.62	

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	-123.0000	0.0000	0.0000	107.0	
2	1.9560	0.0000	90.0000	215.0000	107.0	
3	1.0000	123.0000	180.0000	215.0000	107.0	

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	3.0	26.0	1851.9	12	164.0	28.0	119.1
2	20.0	30.0	2096.5	13	180.0	32.0	119.1
3	35.0	30.0	2169.5	14	197.5	35.0	154.5
4	50.0	30.0	2170.0	15	215.0	35.0	180.2
5	65.0	27.0	2105.9	16	233.0	18.0	151.3
6	78.5	27.0	1991.7	17	242.0	18.0	130.4
7	92.0	27.0	1736.1	18	258.5	33.0	117.5
8	107.0	30.0	1284.2	19	275.0	33.0	119.1
9	122.0	28.0	996.2	20	337.0	26.0	1312.4
10	136.0	10.0	257.5	21	350.0	26.0	1600.4
11	150.0	28.0	122.3				

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WSRF	US	26- 4-54 N	80-13-34 W	5.00	N	D	B	0			FORT LAUDERDALE	38.58	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.3240	-51.2000	0.0000	0.0000	107.0	
2	0.1060	-30.1000	90.0000	35.0000	107.0	
3	1.3860	161.2999	100.0000	92.0000	107.0	
4	2.3980	9.6000	200.0000	92.0000	107.0	
5	2.0900	-143.3000	300.0000	92.0000	107.0	
6	1.0000	51.2000	400.0000	92.0000	107.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	15.0	10.0	161.0	13	180.0	32.0	104.6
2	20.0	10.0	162.5	14	197.5	35.0	196.2
3	25.0	10.0	199.6	15	233.0	18.0	134.7
4	30.0	10.0	283.2	16	242.0	18.0	180.0
5	35.0	10.0	415.4	17	258.5	10.0	338.0
6	45.0	20.0	749.5	18	275.0	33.0	419.2
7	55.0	20.0	1113.1	19	293.5	10.0	257.5
8	65.0	20.0	1408.2	20	325.0	12.0	141.1
9	78.5	27.0	1705.9	21	331.0	12.0	146.5
10	92.0	27.0	1802.5	22	337.0	12.0	138.4
11	147.0	34.0	397.7	23	344.0	12.0	141.6
12	164.0	32.0	91.7	24	350.0	12.0	138.1

1580	WHTZ	US	28-48-57 N	81-38-52 W	5.00	D	N	B	0	95.4	629.76	FL	MOUNT DORA	

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1580	WCCF		US	26-53-37 N	82- 3- 1 W	1.00	D	D	B	O			305.78	FL PUNTA GORDA	10.00
1	1.0000			0.0000	0.0000	0.0000		90.0							
2	0.7050			111.0000	90.0000	155.0000		90.0							

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	81.5	10.0	222.1	7	167.5	25.0	123.9
2	100.0	30.0	149.7	8	180.0	25.0	112.7
3	115.0	28.0	99.8	9	192.5	21.0	99.8
4	129.0	26.0	109.4	10	203.0	21.0	128.7
5	142.0	26.0	123.9	11	214.0	22.0	173.8
6	155.0	25.0	128.7				

1580	WCCF		US	26-53-37 N	82- 3- 1 W	0.25	N	N	B	P	90.0		152.89	FL PUNTA GORDA	

1580	WCLS		US	32-27-55 N	85- 1-22 W	1.00	D	N	B	O	109.9		320.26	GA COLUMBUS	

1580	WCLS		US	32-27-55 N	85- 1-22 W	1.00	N	D	B	O			295.80	GA COLUMBUS	10.00
1	1.1500			45.0000	0.0000	0.0000		110.0							
2	1.0000			0.0000	225.0000	16.0000		110.0							

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	6.0	20.0	44.6	13	143.0	10.0	48.3
2	16.0	20.0	39.9	14	170.0	52.0	302.2
3	26.0	20.0	44.6	15	196.0	52.0	383.9
4	36.0	12.0	80.5	16	222.0	40.0	302.2
5	42.0	10.0	120.7	17	249.0	14.0	44.3
6	47.0	10.0	148.1	18	275.0	34.0	391.6
7	69.0	34.0	382.9	19	296.0	28.0	541.0
8	86.0	18.0	521.2	20	310.0	12.0	474.9
9	95.0	16.0	541.8	21	316.0	12.0	431.3
10	103.0	16.0	519.5	22	335.0	18.0	235.8
11	116.0	26.0	403.5	23	346.0	20.0	137.8
12	138.0	10.0	84.0				

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA								
1580	WKIG	US	31-55-58 N	81-55-24 W	1.00	D	N	B	O	115.7	323.48	GA	GLENNVILLE		
1580	WKUN	US	33-48-37 N	83-42- 1 W	1.00	D	N	B	O	115.7	321.87	GA	MONROE		
1580	WKUN	US	33-48-37 N	83-42- 1 W	0.25	N	D	B	P		151.49	GA	MONROE	10.00	
1	1.0000	0.0000	0.0000	0.0000	150.0										
2	1.0000	41.0000	240.0000	199.0000	150.0										
1580	KCHA	US	43- 3- 5 N	92-40- 0 W	0.50	D	N	B	O	222.0	224.18	IA	CHARLES CITY		
1580	KWNT	US	41-34-15 N	90-34-53 W	0.50	D	N	B	O	101.2	221.91	IA	DAVENPORT		
1580	KWNT	US	41-34-15 N	90-34-53 W	1.00	N	D	B	P		281.64	IA	DAVENPORT	10.00	
1	1.0000	0.0000	0.0000	0.0000	90.0										
2	1.9230	255.7000	100.0000	205.0000	90.0										
3	1.0260	151.3000	200.0000	205.0000	90.0										
1580	WFVR	US	41-46-12 N	88-16- 3 W	0.25	D	D	B	O		146.45	IL	AURORA	10.00	
1	1.0000	110.0000	0.0000	0.0000	81.0										
2	1.6000	0.0000	130.0000	266.0000	179.0										
3	1.0000	-110.0000	260.0000	266.0000	81.0										

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	7.0	10.0	24.1	11	120.0	22.0	22.5
2	12.0	22.0	22.5	12	125.0	10.0	22.5
3	25.0	24.0	33.8	13	132.5	25.0	27.4
4	37.0	24.0	30.6	14	145.0	20.0	33.8
5	50.0	24.0	23.7	15	155.0	20.0	27.4
6	62.0	24.0	32.2	16	160.0	10.0	22.5
7	74.0	24.0	43.5	17	165.0	20.0	25.7
8	86.0	22.0	48.3	18	332.0	10.0	189.9
9	97.0	22.0	42.6	19	337.0	10.0	168.1
10	109.0	22.0	29.0	20	342.0	10.0	148.1

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1580	WFVR	US	41-46-12 N	88-16- 3 W	0.25	N	N	B	P	179.0	177.03	IL	AURORA		
1580	WDQN	US	38- 2-19 N	89-14-32 W	0.25	D	N	B	O	107.0	158.52	IL	DUQUOIN		
1580	WDQN	US	38- 2-19 N	89-14-32 W	0.25	N	N	B	P	107.0	158.52	IL	DUQUOIN		
1580	WBBA	US	39-34-53 N	90-47-52 W	0.25	D	N	B	O	151.5	140.82	IL	PITTSFIELD		
1580	WCCR	US	40- 7-32 N	88-17-29 W	0.25	D	N	B	O	85.0	151.28	IL	URBANA		
1580	WCCR	US	40- 7-32 N	88-17-29 W	0.25	N	N	B	P	85.0	151.28	IL	URBANA		
1580	WCNB	US	39-38-18 N	85- 8-54 W	0.25	D	N	B	O	121.4	160.13	IN	CONNERSVILLE		
1580	WCNB	US	39-38-18 N	85- 8-54 W	0.25	N	D	B	P		141.62	IN	CONNERSVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000	100.0									
2	2.1630		33.1200	180.0000	15.0000	100.0									
3	1.2220		99.2000	360.0000	15.0000	100.0									
4	1.4420		212.0500	540.0000	15.0000	100.0									
5	0.8000		253.0000	720.0000	15.0000	100.0									
1580	WAMJ	US	41-41-26 N	86-11-52 W	1.00	D	N	B	O	115.7	281.64	IN	SOUTH BEND		
1580	WAMJ	US	41-42- 0 N	86- 9- 0 W	0.50	N	D	B	P		212.92	IN	SOUTH BEND	10.00	
1	0.5090		-69.0000	0.0000	0.0000	90.0									
2	1.0000		0.0000	130.0000	18.0000	90.0									
3	0.5090		69.0000	260.0000	18.0000	90.0									
1580	WAMW	US	38-39- 4 N	87- 9-55 W	0.25	D	N	B	O	158.4	178.64	IN	WASHINGTON		
1580	WAMW	US	38-39- 4 N	87- 9-55 W	0.25	N	N	B	P	160.0	178.64	IN	WASHINGTON		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WAXU	US	38-10- 5 N	84-35-37 W	10.00	D	D	B	O		914.11	KY	GEORGETOWN	42.85	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.9000	34.0000	0.0000	0.0000	87.0	
2	1.4600	180.0000	80.0000	337.0000	87.0	
3	1.0000	-34.0000	160.0000	-23.0000	87.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	23.0	133.6	7	234.0	10.0	273.6
2	14.0	28.0	206.0	8	244.0	20.0	136.8
3	29.0	28.0	362.1	9	308.0	24.0	157.3
4	43.0	10.0	410.4	10	320.0	24.0	133.6
5	69.0	52.0	123.9	11	337.0	23.0	160.9
6	224.0	20.0	595.5	12	348.5	23.0	144.8

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WAXU	US	38-10- 5 N	84-35-37 W	0.25	N	N	B	P	87.0	152.08	KY	GEORGETOWN		
1580	WMTL	US	37-30-40 N	86-17-15 W	0.25	D	N	B	O	115.7	161.74	KY	LEITCHFIELD		
1580	WMTL	US	37-30-40 N	86-17-15 W	0.25	N	N	B	P	115.7	161.74	KY	LEITCHFIELD		
1580	WPKY	US	37- 7-14 N	87-51-31 W	0.25	D	N	B	O	107.0	158.52	KY	PRINCETON		
1580	KLUV	US	32-58-47 N	93- 8-38 W	1.00	D	N	B	O	90.1	305.78	LA	HAYNESVILLE		
1580	KLOU	US	30-15-28 N	93-11-55 W	1.00	D	N	B	O	109.9	318.65	LA	LAKE CHARLES		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1580 KLOU US 30-15-28 N 93-11-55 W 1.00 N D B O 303.52 LA LAKE CHARLES 10.00

1	1.0000	0.0000	0.0000	0.0000	110.0
2	0.6500	-70.0000	271.0000	10.0000	110.0

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	26.2	13.0	112.7	10	256.0	10.0	160.9
2	32.7	13.0	112.7	11	295.0	40.0	483.0
3	39.2	13.0	117.5	12	315.0	12.3	354.1
4	85.0	65.6	475.6	13	321.2	12.3	288.1
5	124.0	54.0	157.7	14	327.5	12.3	228.5
6	124.0	10.0	160.9	15	333.7	12.3	177.0
7	151.0	54.0	376.4	16	340.0	12.6	138.4
8	190.0	78.0	472.1	17	347.3	12.6	112.7
9	256.0	78.0	154.5	18	353.6	12.6	112.7

1580 WPGC US 38-52- 7 N 76-53-49 W 25.00 C D B P 1415.10 MD MORNINGSIDE 50.00

1	1.0000	0.0000	0.0000	0.0000	90.0
2	0.1000	5.0000	150.0000	10.0000	90.0
3	0.7000	64.5000	140.0000	45.0000	90.0

1580 WPGC US 38-52- 7 N 76-53-49 W 50.00 D D B P 2037.43 MD MORNINGSIDE 70.71

1	1.0000	0.0000	0.0000	0.0000	90.0
2	2.6180	30.0000	150.0000	10.0000	90.0
3	3.7980	90.0000	276.6000	26.8800	90.0
4	1.4510	60.0000	140.0000	45.0000	90.0

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1580	WPGC	US	38-51-48 N	76-54-38 W	10.00		D	D	B			O	946.29 MD MORNINGSIDE	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	95.5	
2	0.7800	52.0000	135.0000	20.0000	95.5	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	2.0	18.0	201.2	12	200.0	30.0	1164.2
2	11.0	18.0	204.4	13	225.0	50.0	1244.5
3	20.0	18.0	217.3	14	250.0	43.0	1441.0
4	40.0	40.0	209.2	15	271.5	23.0	1586.4
5	60.0	12.0	362.1	16	283.0	20.0	1575.0
6	95.0	10.0	1038.0	17	293.0	20.0	1495.7
7	115.0	40.0	1466.1	18	306.5	17.0	1183.2
8	135.0	35.0	1601.8	19	315.0	10.0	885.1
9	152.5	35.0	1504.4	20	320.0	10.0	745.1
10	170.0	30.0	1317.2	21	341.0	42.0	342.8
11	185.0	30.0	1204.1				

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
1580	WPGC	US	38-52- 7 N	76-53-47 W	5.00		N	D	B			P	629.90 MD MORNINGSIDE	22.36	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	120.0	
2	2.9600	48.6000	155.0000	10.0000	120.0	
3	3.0800	99.7000	310.0000	10.0000	120.0	
4	1.1600	152.5000	465.0000	10.0000	120.0	
5	1.7200	97.0000	120.0000	272.0000	120.0	
6	5.0800	145.6000	182.3000	329.3000	120.0	
7	5.2900	196.7000	316.5000	347.9000	120.0	
8	1.9900	249.5000	463.8000	355.2000	120.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WKZY	US	43- 1- 0 N	84-32- 0 W	0.25	N	D	B	P				165.76 MI SAINT JOHNS	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.3470	-114.0000	0.0000	0.0000	90.0	
2	1.0000	0.0000	90.0000	18.5000	90.0	
3	1.0000	114.0000	180.0000	18.5000	90.0	
4	0.3470	-132.5000	270.0000	18.5000	90.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WQTK	US	42-58-14 N	84-32-59 W	1.00	D	D	B	O				283.24 MI SAINT JOHNS	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	-46.0000	0.0000	0.0000	87.0	
2	1.8300	0.0000	170.0000	76.0000	87.0	
3	1.0000	46.0000	340.0000	76.0000	87.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	29.0	20.0	32.2	8	114.0	23.0	28.2
2	39.0	20.0	38.6	9	125.5	23.0	25.7
3	51.0	24.0	33.8	10	160.0	46.0	437.7
4	64.0	24.0	35.4	11	205.0	44.0	458.7
5	76.0	22.0	41.8	12	330.0	40.0	595.5
6	87.0	22.0	39.4	13	350.0	40.0	479.6
7	98.0	22.0	26.6				

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	KDOM	US	43-51-41 N	95- 5-50 W	0.25	D	D	B	O				141.62 MN WINDOM	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.9000	102.0000	0.0000	0.0000	75.0	
2	1.0000	0.0000	80.0000	350.0000	75.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	145.0	24.0	19.3	3	208.0	24.0	33.0
2	195.0	24.0	19.3	4	260.0	80.0	154.5

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES / HRS	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	KDOM	US	43-51-41 N	95- 5-50 W	1.00	D	D	B	P		309.88	MN	WINDOM	10.26	
	NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA							
	1	1.0000	0.0000	0.0000	0.0000	75.2									
	2	0.8300	-134.1000	80.0000	350.0000	75.2									
1580	KDOM	US	43-51-41 N	95- 5-50 W	1.00	N	D	B	P		312.70	MN	WINDOM	10.40	
	1	1.0000	0.0000	0.0000	0.0000	90.0									
	2	0.9500	-122.0000	60.0000	240.0000	90.0									
1580	KTGR	US	38-58- 1 N	92-18-39 W	0.25	D	N	B	O	86.8	152.08	MO	COLUMBIA		
1580	KTGR	US	38-58- 1 N	92-18-39 W	0.25	D	N	B	P	167.7	152.08	MO	COLUMBIA		
1580	KTGR	US	38-58- 1 N	92-18-39 W	0.25	N	N	B	P	90.0	152.89	MO	COLUMBIA		
1580	KESM	US	37-51-51 N	94- 0-54 W	0.50	D	N	B	P	171.2	261.73	MO	EL DORADO SPRINGS		
1580	KESM	US	37-51-51 N	94- 0-54 W	0.50	D	N	B	O	92.5	199.15	MO	EL DORADO SPRINGS		
1580	KESM	US	37-51-51 N	94- 0-54 W	1.00	N	N	B	P	99.6	312.21	MO	ELDORADO SPRINGS		
1580	KNIM	US	40-19-41 N	94-52-31 W	0.25	D	N	B	O	115.7	161.74	MO	MARYVILLE		
1580	KNIM	US	40-19-41 N	94-52-31 W	0.25	N	N	B	P	115.7	161.74	MO	MARYVILLE		
1580	WAMY	US	33-58-33 N	88-29-29 W	5.00	D	N	B	O	173.5	708.92	MS	AMORY		
1580	WAMY	US	33-58-33 N	88-29-29 W	0.25	N	N	B	P	173.5	158.52	MS	AMORY		
1580	WSLL	US	31- 6- 7 N	91- 2-27 W	0.25	D	N	B	O	173.5	140.82	MS	CENTREVILLE		
1580	WORV	US	31-20-33 N	89-17-53 W	1.00	D	N	B	O	219.8	292.90	MS	HATTIESBURG		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WESY	US	33-22-46 N	90-55-47 W	1.00		D	N	B	O	89.6	305.78	MS	LELAND		
1580	WESY	US	33-23-31 N	90-50-25 W	1.00		N	D	B	P		281.64	MS	LELAND	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	104.1	
2	1.6200	56.0000	190.0000	46.5000	104.1	
3	1.4300	101.5000	380.0000	46.5000	104.1	

1580	WPMP	US	30-23- 1 N	88-32- 7 W	5.00		D	D	B	O		722.60	MS	PASCAGOULA-MOSS PO	22.36	

1	1.0000	0.0000	0.0000	0.0000	116.0
2	0.6000	-17.0000	183.0000	325.0000	208.0

1580	WPMP	US	30-23- 0 N	88-32- 6 W	0.25		N	N	B	P	116.0	160.93	MS	PASCAGOULA-MOSS PT		
1580	NEW	US	47- 5-55 N	104-47-15 W	10.00		D	N	B	P	90.0	966.95	MT	GLENDIVE		
1580	NEW	US	47- 5-55 N	104-47-15 W	10.00		N	D	B	P		360.49	MT	GLENDIVE	31.62	92

1	1.0000	0.0000	0.0000	0.0000	90.0
2	2.6810	139.7000	100.0000	200.0000	90.0
3	2.6810	-79.7000	200.0000	200.0000	90.0
4	1.0000	60.0000	300.0000	200.0000	90.0

1580	WZKY	US	35-21-38 N	80-10-39 W	0.25		D	N	B	O	86.8	152.08	NC	ALBEMARLE		
1580	WZKY	US	35-21-38 N	80-10-39 W	0.25		N	N	B	P	90.0	152.89	NC	ALBEMARLE		
1580	WJIK	US	34-43-27 N	77-19-27 W	5.00		C	N	B	P	89.6	683.73	NC	CAMP LEJEUNE		
1580	WJIK	US	34-43-27 N	77-19-27 W	10.00		D	N	B	P	89.6	966.95	NC	CAMP LEJEUNE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1580	WTYP	US	39-39-33 N	74-50-31 W	2.50	N	D	B	P		450.78	NJ	HAMMONTON	15.81	
1	0.4980		-118.0000	0.0000	0.0000		106.0								
2	0.9870		-1.3000	80.0000	310.0000		106.0								
3	0.5110		115.4000	160.0000	310.0000		106.0								
4	0.5040		-116.7000	185.0000	40.0000		106.0								
5	1.0000		0.0000	201.5600	16.6100		106.0								
6	0.5180		116.7000	244.5900	359.1400		106.0								
1580	WCRV	US	40-46-35 N	74-58-42 W	1.00	D	N	B	O	81.0	281.64	NJ	WASHINGTON		
1580	WCRV	US	40-46-35 N	74-58-42 W	0.50	N	D	B	P		236.48	NJ	WASHINGTON	10.00	
1	1.0000		0.0000	0.0000	0.0000		108.0								
2	1.9110		119.2500	90.0000	3.0000		108.0								
3	1.0000		238.5000	180.0000	3.0000		108.0								
1580	KZIA	US	35- 5-38 N	106-40-48 W	10.00	D	N	B	O	173.5	1180.69	NM	ALBUQUERQUE		
1580	WLIM	US	40-47-45 N	72-59-32 W	5.00	C	D	B	O		651.78	NY	PATCHOGUE	24.67	
1	1.0000		0.0000	0.0000	0.0000		107.0								
2	0.7760		137.6000	60.0000	350.0000		107.0								

AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	215.0	90.0	965.6	3	350.0	10.0	289.7
2	260.0	90.0	547.2				

1580	WLIM	US	40-47-45 N	72-59-32 W	1.00	C	N	B	P	107.0	317.04	NY	PATCHOGUE		
1580	WLIM	US	40-47-45 N	72-59-32 W	10.00	D	N	B	O	107.0	1002.57	NY	PATCHOGUE		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WJIK	US	34-44- 2 N	77-29-29 W	10.00	N	D	B	P		952.73	NC	CAMP LEJEUNE	31.62	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	2.8300	63.7000	135.0000	350.0000	90.0	
3	2.7100	127.3000	270.0000	350.0000	90.0	
4	0.8740	191.0000	405.0000	350.0000	90.0	
5	0.9250	100.0000	90.0000	224.0000	90.0	
6	2.6200	163.7000	109.7000	308.4000	90.0	
7	2.5100	227.3000	229.0000	331.5000	90.0	
8	0.8090	291.0000	359.6000	338.3000	90.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WUIV	US	35-43- 7 N	81-28- 6 W	0.25	N	N	B	P	69.4	145.65	NC	ICARD		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WUIV	US	35-43- 7 N	81-28- 6 W	5.00	D	D	B	P		643.74	NC	ICARD TOWNSHIP	30.40	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	69.4	
2	1.6000	148.7000	80.0000	125.0000	69.4	
3	0.8100	-62.7000	160.0000	125.0000	69.4	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	40.0	20.0	104.6	3	165.0	40.0	136.8
2	85.0	30.0	104.6	4	210.0	20.0	104.6

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WUIV	US	35-43- 7 N	81-28- 6 W	5.00	D	D	B	O		643.74	NC	ICARD TOWNSHIP	30.40	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.8100	-62.7000	0.0000	0.0000	69.4	
2	1.6000	148.7000	80.0000	305.0000	69.4	
3	1.0000	0.0000	160.0000	-55.0000	69.4	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	KAMI	US	40-50-18 N	99-56-20 W	1.00	D	N	B	O	115.7	323.48	NE	COZAD		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WTYO	US	39-37-33 N	74-47-44 W	1.00	D	N	B	O	86.8	304.17	NJ	HAMMONTON		

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WVKO	US	40- 2-55 N	83- 3-42 W	1.00		D	D	B	O			350.03 OH COLUMBUS	15.15	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	0.9200	0.0000	0.0000	0.0000	125.0	
2	1.0000	150.0000	60.0000	310.0000	125.0	

AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)	AUG # / AUG #	AZIMUT AZIMUTH (DEG)	ARC SPAN (DEG)	RAYONNEMENT RADATION (MV/M)
1	0.0	20.0	78.9	5	250.0	20.0	56.3
2	10.0	20.0	53.3	6	260.0	18.0	82.1
3	20.0	20.0	85.3	7	269.0	18.0	128.7
4	240.0	20.0	88.5				

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	WVKO	US	40- 2-55 N	83- 3-42 W	1.00		N	D	B	P			288.56 OH COLUMBUS	10.00	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	0.0000	0.0000	0.0000	90.0	
2	1.7400	48.6000	154.0000	15.0000	90.0	
3	0.8100	97.3000	308.0000	15.0000	90.0	

FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	KLTR	US	36-48-35 N	97-15-50 W	1.00		D	N	B	O	107.0		317.04 OK BLACKWELL		
1580	KLTR	US	36-48-35 N	97-15-50 W	0.25		N	N	B	P	90.0		152.89 OK BLACKWELL		
1580	WCLY	US	40- 0-53 N	76-28-13 W	0.50		D	N	B	O			213.94 PA COLUMBIA		
											T A = 55.5 B = 0.0 C = 0.0 D = 0.0					
1580	WHEX	US	40- 0-53 N	76-28-13 W	0.50		D	N	B	P	55.5		199.15 PA COLUMBIA		
1580	WEND	US	40-29-33 N	78-42-54 W	0.25		C	N	B	O			156.11 PA EBENSBURG		
											T A = 86.7 B = 0.0 C = 0.0 D = 0.0					
1580	WEND	US	40-29-33 N	78-42-54 W	1.00		D	N	B	O			312.21 PA EBENSBURG		
											T A = 86.7 B = 0.0 C = 0.0 D = 0.0					

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1580	WANB	US	39-52-11 N	80- 8- 2 W	1.00	D	N	B	O	168.3	317.04	PA	WAYNESBURG		
1580	WANB	US	39-52-11 N	80- 8- 2 W	1.00	N	N	B	P	100.0	317.04	PA	WAYNESBURG		
1580	WGFE	US	18-20-32 N	66-25- 8 W	2.50	N	D	B	P		522.71	PR	MOROVIS	19.14	*
1	1.0000		0.0000	0.0000	0.0000					T A = 65.0 B = 25.0 C = 0.0 D = 0.0					
2	1.0000		-141.0000	78.0000	51.5000					T A = 65.0 B = 25.0 C = 0.0 D = 0.0					
1580	WGFE	US	18-20-32 N	66-25- 8 W	1.00	U	D	B	O		320.85	PR	MOROVIS	11.17	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.8090		-141.0000	78.0000	51.5000	90.0									
1580	WORG	US	33-28-43 N	80-52-46 W	1.00	D	N	B	O	161.9	360.49	SC	ORANGEBURG		
1580	WORG	US	33-28-43 N	80-52-46 W	1.00	N	N	B	P	162.0	358.88	SC	ORANGEBURG		
1580	WBBR	US	34-56-55 N	82-26-38 W	5.00	D	N	B	O	144.6	766.50	SC	TRAVELERS REST		
1580	WBBR	US	34-56-10 N	82-29-20 W	1.00	N	D	B	P		284.21	SC	TRAVELERS REST	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	1.0000		11.0000	180.0000	15.0000	90.0									
3	1.0000		91.5000	90.0000	285.0000	90.0									
4	1.0000		102.5000	201.2000	348.4000	90.0									
1580	WBBR	US	34-56-55 N	82-26-38 W	1.00	R	N	B	O	144.6	342.79	SC	TRAVELERS REST		
1580	WHHM	US	35-26-11 N	88-38-14 W	0.25	D	N	B	O	83.8	151.28	TN	HENDERSON		
1580	WSKT	US	35-54-42 N	83-53-33 W	1.00	C	N	B	O	161.9	360.49	TN	KNOXVILLE		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1580	WSKT	US	35-54-42 N	83-53-33 W	5.00	D	N	B	O	161.9	806.09	TN	KNOXVILLE		
1580	WSKT	US	35-54-42 N	83-53-33 W	1.00	N	N	B	P	162.0	358.88	TN	KNOXVILLE		
1580	WLIJ	US	35-27-21 N	86-27- 9 W	1.00	D	N	B	O	108.7	318.65	TN	SHELBYVILLE		
1580	WLIJ	US	35-27-21 N	86-27- 9 W	0.25	N	N	B	P	108.7	159.33	TN	SHELBYVILLE		
1580	KKAL	US	32-59-55 N	102-49-17 W	0.25	D	N	B	O	81.0	149.67	TX	DENVER CITY		
1580	KGAF	US	33-37-42 N	97- 6-25 W	0.25	D	N	B	O	231.3	160.93	TX	GAINESVILLE		
1580	KIRT	US	26-17-36 N	98-19-50 W	1.00	D	N	B	O	86.8	304.17	TX	MISSION		
1580	KIRT	US	26-11-27 N	98-18- 7 W	1.00	D	N	B	P	89.6	305.78	TX	MISSION		
1580	KIRT	US	26-11-27 N	98-18- 7 W	1.00	N	D	B	P		302.23	TX	MISSION	10.00	
1	1.0000		0.0000	0.0000	0.0000	90.0									
2	0.6000		75.0000	225.0000	335.0000	90.0									
1580	KTLU	US	31-49-12 N	95-10-19 W	0.50	D	N	B	O	107.0	224.18	TX	RUSK		
1580	KTLU	US	31-49-12 N	95-10-19 W	0.25	N	N	B	P	107.0	158.52	TX	RUSK		
1580	KWED	US	29-34-48 N	97-59- 5 W	1.00	D	N	B	O	108.7	320.26	TX	SEGUIN		
1580	KWED	US	29-34-48 N	97-59- 5 W	0.50	N	D	B	P		215.65	TX	SEQUIN	10.00	
1	0.3000		0.0000	0.0000	0.0000	90.0									
2	1.0000		65.3000	140.0000	45.0000	90.0									
1580	KBYP	US	35-14- 8 N	100-14-56 W	0.25	D	N	B	O	115.7	160.13	TX	SHAMROCK		

FREQ KHZ / FREQ KHZ	INDICATIF D'APPEL / CALL SIGN	PY / CT	LATITUDE	LONGITUDE	PUIS. (KW) / POWER (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG) / ELECT. HT(DEG)	RMS (MV/M)	ET PR / ST PR	VILLE / CITY	FACTEUR Q (MV/M) / Q-FACTOR (MV/M)	NOTES
1580	KRZI	US	31-31- 4 N	97- 5-16 W	1.00	.	D	D	B	0	283.24	TX	WACO	10.23	

NO. DE TOUR / TOWER NUMBER	RAPPORT CHAMPS / FIELD RATIO	PHASE (DEGRES) / PHASING (DEGREES)	ESPACEMENT (DEGRES) / SPACING (DEGREES)	ORIENTATION (DEGRES) / ORIENTATION (DEGREES)	HAUT. ELECT. (DEGRES) / ELECT. HT. (DEGREES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S) / TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA
1	1.0000	4.0000	0.0000	0.0000	92.5	
2	1.0000	120.0000	70.0000	94.0000	92.5	
3	1.0000	0.0000	194.0000	199.0000	92.5	
4	1.0000	116.0000	188.4316	177.9717	92.5	

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	4.0	20.0	58.7	13	124.0	20.0	54.7
2	14.0	20.0	70.0	14	134.0	20.0	74.5
3	24.0	20.0	58.7	15	144.0	20.0	87.4
4	34.0	20.0	37.8	16	154.0	20.0	87.7
5	44.0	20.0	19.3	17	164.0	20.0	70.8
6	54.0	20.0	21.7	18	174.0	20.0	41.8
7	64.0	20.0	21.7	19	184.0	20.0	40.2
8	74.0	20.0	20.1	20	194.0	20.0	48.3
9	84.0	20.0	41.8	21	204.0	20.0	57.9
10	94.0	20.0	57.9	22	214.0	20.0	40.2
11	104.0	20.0	49.1	23	214.0	10.0	46.7
12	114.0	20.0	29.8	24	354.0	13.0	22.5

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES

NO. DE TOUR	RAPPORT CHAMPS	PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)	DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)
TOWER NUMBER	FIELD RATIO	PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)	TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA

1580	KRZI	US	31-31- 4 N	97- 5-16 W	0.50	N	D	B	O		224.42	TX	WACO	10.00	
1	1.0000		0.0000	0.0000	0.0000		92.5								
2	1.0000		124.0000	70.0000	94.0000		92.5								
3	1.0000		-64.0000	194.0000	19.0000		92.5								
4	1.0000		60.0000	222.6332	36.6803		92.5								

AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)	AUG # / AUG #	AZIMUT / AZIMUTH (DEG)	ARC / SPAN (DEG)	RAYONNEMENT / RADATION (MV/M)
1	0.0	14.0	162.5	13	144.0	20.0	19.3
2	7.0	14.0	135.7	14	144.0	10.0	24.9
3	14.0	14.0	108.3	15	155.0	22.0	33.8
4	22.0	16.0	81.9	16	281.0	10.0	418.4
5	38.0	16.0	50.8	17	286.0	10.0	466.7
6	46.0	16.0	44.7	18	317.0	13.0	482.8
7	54.0	16.0	25.7	19	323.5	13.0	437.7
8	64.0	20.0	35.4	20	330.0	13.0	386.2
9	74.0	10.0	53.1	21	337.5	15.0	326.7
10	114.0	20.0	45.1	22	345.0	15.0	257.5
11	124.0	20.0	25.1	23	352.5	15.0	207.6
12	134.0	20.0	24.1				

1580	WILA	US	36-34- 3 N	79-22-50 W	1.00	D	N	B	O	79.2	299.34	VA	DANVILLE		
1580	WILA	US	36-34- 3 N	79-22-50 W	1.00	N	D	B	P		315.43	VA	DANVILLE	10.00	
1	1.0000		0.0000	0.0000	0.0000		90.0								
2	0.9000		-155.4000	135.0000	128.5000		90.0								
3	0.5000		0.0000	180.0000	184.0000		90.0								
4	0.4500		-155.4000	279.5000	160.5000		90.0								
1580	WPUV	US	37- 2-34 N	80-45-43 W	1.00	C	N	B	O	109.9	320.26	VA	PULASKI		
1580	WPUV	US	37- 2-34 N	80-45-43 W	5.00	D	N	B	O	109.9	716.12	VA	PULASKI		

FREQ KHZ	INDICATIF D'APPEL	PY	LATITUDE	LONGITUDE	PUIS. (KW)	HRES	DIR	CL	S	HAUTEUR ELECT.(DEG)	RMS (MV/M)	ET PR	VILLE	FACTEUR Q (MV/M)	NOTES
FREQ KHZ	CALL SIGN	CT	LATITUDE	LONGITUDE	POWER (KW)	HRS	DIR	CL	S	ELECT. HT(DEG)	RMS (MV/M)	ST PR	CITY	Q-FACTOR (MV/M)	NOTES
NO. DE TOUR	RAPPORT CHAMPS		PHASE (DEGRES)	ESPACEMENT (DEGRES)	ORIENTATION (DEGRES)	HAUT. ELECT. (DEGRES)				DONNEES POUR ANTENNES A CHARGE TERMINALE(T) OU SECTIONALISEES(S)					
TOWER NUMBER	FIELD RATIO		PHASING (DEGREES)	SPACING (DEGREES)	ORIENTATION (DEGREES)	ELECT. HT. (DEGREES)				TOP-LOADED(T) OR SECTIONALIZED(S) ANTENNA DATA					
1580	WPUV	US	37- 2-34 N	80-45-43 W	1.00	N	N	B	P	110.0	325.09	VA	PULASKI		
1580	WTTN	US	43-11-43 N	88-45-17 W	1.00	D	N	B	O	173.5	305.78	WI	WATERTOWN		
1580	WTTN	US	43-11-43 N	88-45-17 W	0.25	N	N	B	P	173.5	152.89	WI	WATERTOWN		

NOTES AU PLAN, 1b PARTIE VII
NOTES TO 1b PART VII, THE PLAN

1 -- Pour protéger Windsor, ON.
1 -- To protect Windsor, ON.

2 -- Pour protéger Windsor, ON.
2 -- To protect Windsor, ON.

3 -- Pour protéger Windsor, ON.
3 -- To protect Windsor, ON.

4 -- Pour protéger Windsor, ON.
4 -- To protect Windsor, ON.

5 -- Pour protéger Windsor, ON.
5 -- To protect Windsor, ON.

6 -- Pour protéger Windsor, ON.
6 -- To protect Windsor, ON.

7 -- Régler le diagramme d'exploitation de jour de manière à réduire le chevauchement avec Toronto, ON.
7 -- Adjust day pattern to reduce overlap with Toronto, ON.

8 -- Régler pour protéger un Eu de 10 mV/m (normes de l'ARRAN) à Fort Frances.
8 -- Adjust to protect an EU of 10 mV/m (NARBA standards) at Fort Frances.

9 -- A supprimer, nouvelle fréquence cherchée.
9 -- To be deleted-seeking new frequency.

10-- A supprimer, nouvelle fréquence cherchée.
10-- To be deleted-seeking new frequency.

11-- Régler l'exploitation de jour de manière à protéger Fort Frances.
11-- Adjust day to protect Fort Frances.

12-- Sujet à modification en ce qui a trait à la protection à accorder à Tomahawk.
12-- Subject to modification re protection to Tomahawk.

13-- Réduire la contribution à Vancouver à 23 mV/m (normes de l'ARRAN).
13-- Reduce contribution to Vancouver to 23 mV/m (NARBA standards).

14-- Réduire à 50 p. 100 ou moins de l'Eu de Fredericton.
14-- Reduce to less than or equal to 50% of the Fredericton Eu.

15-- A supprimer, nouvelle fréquence cherchée.
15-- To be deleted-seeking new frequency.

16-- A supprimer, nouvelle fréquence cherchée.
16-- To be deleted-seeking new frequency.

17-- Protéger à l'Eu causée par WNBC, New York, NY.
17-- To be protected at Eu caused by WNBC, New York, NY.

18-- Si la diffusion en provenance de Williston dépasse celle de 820804, la RMS peut être augmentée en proportion de l'augmentation de Eu à Kenora.
18-- (If contribution from Williston exceeds that from 820804, RMS may be increased proportionately with increase in EU at Kenora.)

19-- Pour protéger Kenora.
19-- To protect Kenora.

20-- La contribution à Kenora ne doit pas excéder celle de 820804 de Williston.
20-- Contribution to Kenora not to exceed that of 820804, Williston.

21-- La contribution à Kenora ne doit pas excéder celle de 820804 de Williston.
21-- (Contribution to Kenora not to exceed that of 820804, Williston.)

22-- La contribution à Kenora ne doit pas excéder celle de 820804 de Williston.
22-- (Contribution to Kenora not to exceed that of 820804, Williston.)

23-- (Supprimé)
23-- (Deleted)

24-- (Supprimé)
24-- (Deleted)

25-- Pour protéger CBU.
25-- To protect CBU.

26-- Pour protéger CBU.
26-- To protect CBU.

27-- Pour protéger CBU.
27-- To protect CBU.

28-- Pour protéger CBKF-1.
28-- To protect CBKF-1.

29-- Le chevauchement de l'onde de sol avec Newport ne doit pas excéder celui de Calgary, et il est sujet à vérification par mesure.
29-- Groundwave overlap with Newport not to exceed that of Calgary and subject to verification by measurements.

30-- La contribution à Anchorage ne doit pas excéder 1,25 mV/m (normes de l'ARRAN) et à Newport, 5 mV/m.
30-- Contribution to Anchorage not to exceed 1,25 mV/m. Contribution to Newport not to exceed 5mV/m (NARBA standards).

31-- La contribution à Anchorage ne doit pas excéder 1,25 mV/m (normes de l'ARRAN) et à Newport, 5 mV/m.
31-- Contribution to Anchorage not to exceed 1,25 mV/m. Contribution to Newport not to exceed 5 mV/m.

32-- Pour protéger Calgary.
32-- To protect Calgary.

33-- Pour protéger CBNM, Marystown.
33-- To protect CBMN Marystown.

34-- Pour protéger CBX, Edmonton.
34-- To protect CBX Edmonton.

35-- Pour protéger CBX, Edmonton.
35-- To protect CBX Edmonton.

36-- Pour protéger CBNM, Marystown.
36-- To protect CBNM Marystown.

37-- Pour protéger CBX, Edmonton.
37-- To protect CBX Edmonton.

38-- Pour protéger Bonavista Bay et pour ne pas excéder la diffusion d'Ottawa vers Rimouski. (S'appliquer à Canton, Champlain et Gouverneur)
38-- To protect Bonavista Bay and not to exceed Ottawa to Rimouski. (This applies to all - Canton, Champlain and Gouverneur)

39-- Pour information seulement, afin d'établir la diffusion permissible vers Rimouski.
39-- Included for reference only. To establish permissible contribution to Rimouski.

40-- Limité aux heures d'exploitation de jour à WBAP, Fort Worth, TX.
40-- This operation is limited to the daytime hours at WBAP, Fort Worth, TX.

40a- Pour réduire par un tiers la diffusion vers la zone de service de Halifax.
40a- To reduce radiation one-third in the direction of the Halifax service area.

41-- Pour protéger 830303 Hamilton dans la péninsule du Niagara et ailleurs, si possible. (Cette note est sujette à révision en raison de la faible marge de réglage de Horseheads et de la nécessite de consulter le requérant de Hamilton.)
41-- To protect 830303, Hamilton, ON in Niagara peninsula and to the extent possible elsewhere. (This note is subject to revision in view of the small margin of adjustment by Horseheads and the need for subsequent consultation with the Hamilton applicant.)

42-- Limité aux heures d'exploitation de jour à WBAP, Fort Worth, TX.
42-- This operation is limited to the daytime hours at WBAP, Fort Worth, TX.

43-- Pour protéger les assignations canadiennes contenues dans les présentes.
43-- To protect Canadian assignments listed herein.

44-- Pour protéger les assignations canadiennes contenues dans les présentes.
44-- To protect Canadian assignments listed herein.

45-- Eu doit être composé de la contribution des exploitations de nuit de WAIT et WOSU, et ne doit pas excéder 20 mV/m (normes de l'ARRAN.)
45-- Eu to be comprised of contributions from WAIT, Chicago, IL and WOSU, Colombus, OH night operations and not to exceed 20 mV/m (NARBA standards.)

46-- Eu doit être composé de la contribution des exploitations de nuit de WAIT et WOSU, et ne doit pas excéder 20 mV/m (normes de L'ARRAN.)
46-- Eu to be comprised of contributions from WAIT, Chicago, IL and WOSU, Columbus, OH night operations and not to exceed 20 mV/m (NARBA standards.)

47-- En prenant 830303 Hamilton pour référence, les Eu des autres assignations contenues dans les présentes ne doivent pas être influencées.
47-- Using 830303, Hamilton, ON as a reference, contributions to the Eu of other assignments listed herein, shall not be increased.

48-- (Supprimé)
48-- (Deleted)

49-- Note supprimée
49-- Note deleted

50-- Paramètres acceptés: 1 kW, RSS de 319 mV/m à 1 km.
50-- Accepted with a power of 1 kW and RMS 319 mV/m a 1 km.

51-- La contribution à Sault-Ste-Marie ne doit pas excéder celle de WHCU-L, Ithaca, NY.
51-- Contribution to Sault Ste Marie not to exceed that of WHCU-L, Ithaca, NY.

52-- La contribution à Sault-Ste-Marie ne doit pas excéder celle de WHCU-L, Ithaca, NY.
52-- Contribution to Sault Ste Marie not to exceed that of WHCU-L, Ithaca, NY.

53-- La contribution à Sault-Ste-Marie ne doit pas excéder celle de WHCU-L, Ithaca, NY.
53-- Contribution to Sault Ste Marie not to exceed that of WHCU-L, Ithaca, NY.

54-- La contribution à Sault-Ste-Marie ne doit pas excéder celle de WHCU-L, Ithaca, NY.
54-- Contribution to Sault Ste Marie not to exceed that of WHCU-L, Ithaca, NY.

54a- Installer un système d'antenne directionnelle si Whitefish réduit à 10 kW.
54a- To install a directional antenna system if Whitefish reduces to 10 kW.

55-- Pour protéger De Pere, WI.
55-- To protect De Pere, WI.

56-- Supprimer si Mercer Island est autorisée.
56-- To be deleted if Mercer Island is granted.

57-- Ne doit pas influer sur l'Eu de Trail ni augmenter la contribution à Swift Current.
57-- Not to enter Eu of Trail and not to increase contribution to Swift Current.

58-- Pour protéger Toronto.
58-- To protect Toronto.

59-- Pour protéger Toronto.
59-- To protect Toronto.

60-- Pour protéger Toronto.
60-- To protect Toronto.

61-- Pour protéger Thunder Bay jusqu'à un Eu de 10 mV/m (normes de l'ARRAN.)
61-- To protect Thunder Bay to an Eu of 10 mV/m (NARBA standards.)

62-- Pour protéger Toronto.
62-- To protect Toronto.

63-- Pour protéger Toronto.
63-- To protect Toronto.

64-- Pour protéger Toronto.
64-- To protect Toronto.

65-- Pour protéger Gander.
65-- To protect Gander.

66-- Pour protéger Thunder Bay jusqu'à un Eu de 10 mV/m (normes de l'ARRAN.)
66-- To protect Thunder Bay to an Eu of 10 mV/m (NARBA standards.)

67-- Pour protéger Toronto.
67-- To protect Toronto.

68-- Pour protéger Toronto.
68-- To protect Toronto.

69-- Pour protéger Toronto.
69-- To protect Toronto.

70-- Pour protéger Toronto.
70-- To protect Toronto.

71-- Pour protéger Toronto.
71-- To protect Toronto.

72-- Pour protéger Thunder Bay jusqu'à un Eu de 10 mV/m (normes de l'ARRAN.)
72-- To protect Thunder Bay to Eu of 10 mV/m (NARBA standards.)

73-- Pour protéger Toronto.
73-- To protect Toronto.

74-- Pour protéger Toronto.
74-- To protect Toronto.

75-- Pour protéger Vancouver jusqu'à un Eu de 10 mV/m (normes de l'ARRAN.)
75-- To protect Vancouver to an Eu of 10 mV/m (NARBA standards.)

76-- Ne doit pas influer sur l'Eu de Hope.
76-- Not to enter Eu of Hope.

77-- Ne doit pas influer sur l'Eu de Sherbrooke.
77-- Not to enter Eu of Sherbrooke.

78-- Note supprimée
78-- Note deleted

79-- Pour protéger un Eu de 10 à Virden (normes de l'ARRAN.)
79-- To protect Virden Eu of 10 mV/m (NARBA standards.)

80-- La contribution à Brewer ne doit pas excéder 15 mV/m (normes de l'ARRAN.)
80-- Contribution to Brewer not to exceed 15 mV/m (NARBA standards.)

81-- Le diagramme actuel est inacceptable.
81-- Present pattern unacceptable.

82-- Sera supprimé si Tillsonburg demeure.
82-- To be deleted if Tillsonburg remains.

83-- Pour protéger North Syracuse.
83-- To protect North Syracuse.

84-- La contribution à Brewer ne doit pas excéder 15 mV/m (normes de l'ARRAN.)
84-- Contribution to Brewer not to exceed 15 mV/m (NARBA standards.)

85-- La supprimation convenue, mais le Canada aimerait retenir l'assignation de nuit seulement.
85--Agreed to delete but Canada would like to retain as night only.

86-- Pour protéger North Syracuse.
86-- To protect North Syracuse.

87-- A protéger jusqu'à un Eu de 20 (normes de l'ARRAN) pour fins de référence, afin de protéger les éléments mutuellement exclusifs du groupe Brockville, Ottawa, Montréal (Repentigny).
87-- To be protected to an Eu of 20 mV/m (NARBA standards) for reference purposes for protection of the mutually exclusive group: Brockville, Ottawa, Montreal (Repentigny).

88-- Pour protéger North Syracuse.
88-- To protect North Syracuse.

89-- La contribution à Brewer ne doit pas excéder 15 mV/m (normes del'ARRAN.)
89-- Contribution to Brewer not to exceed 15 mV/m (NARBA standards.)

90-- A supprimer si Seattle est autorisée.
90-- To be deleted if Seattle granted.

91-- Pour protéger Régina.
91-- To protect Regina.

92-- Pour protéger Winnipeg.
92-- To protect Winnipeg.

93-- Protéger à l'Eu causée par KMOX, St-Louis, MO.
93-- To be protected at Eu caused by KMOX, St-Louis, MO.

94-- Protéger à l'Eu causée par WHAM, Rochester, NY.
94-- To be protected at Eu caused by WHAM, Rochester, NY.

95-- Protéger à l'Eu causée par WHAM, Rochester, NY.
95-- To be protected at Eu caused by WHAM, Rochester, NY.

96-- Protéger à l'Eu causée par CHAK, Inuvik, NT. CBKF-2, Saskatoon SA et CJBC - Toronto, ON.
96-- To be protected at Eu caused by CHAK, Inuvik, NT. CBKF-2, Saskatoon SA and CJBC - Toronto, ON.

97-- Protéger à l'Eu causée par CHAK, Inuvik, NT. CBKF-2, Saskatoon, SA et CJBC - Toronto, ON.
97-- To be protected at Eu caused by CHAK, Inuvik, NT. CBKF-2, Saskatoon SA and CJBC - Toronto, ON.

98-- Protéger à l'Eu causée par WABC, New York, NY.
98-- To be protected at Eu caused by WABC, New York, NY.

99-- Pour protéger le service non-brouillé de KXEL, Waterloo, IA.
99-- To protect the interference-free service of KXEL, Waterloo, IA.

ANNEX 2

to the Agreement

TECHNICAL CRITERIA

To be used in the application of the Agreement

CHAPTER 1

Definitions and symbols

1. Definitions

In addition to the definitions given in the Radio Regulations, the following definitions and symbols apply to this Agreement.

1.1 Broadcasting channel (in AM)

A part of the frequency spectrum, equal to the necessary bandwidth of AM sound broadcasting stations, and characterized by the nominal value of the carrier frequency located at its centre.

1.2 Objectionable interference

Interference caused by a signal exceeding the maximum permissible field strength within the protected contour, in accordance with the values derived from this Annex.

1.3 Protected contour

Continuous line that delimits the area of primary or secondary service which is protected from objectionable interference.

1.4 Primary service area

Service area delimited by the contour within which the calculated level of the groundwave field strength is protected from objectionable interference in accordance with the provisions of Chapter 4.

1.5 Secondary service area

Service area delimited by the contour within which the calculated level of the field strength due to the skywave field strength 50% of the time is protected from objectionable interference in accordance with the provisions of Chapter 4.

1.6 Nominal usable field strength (E_{nom})

Agreed minimum value of the field strength required to provide satisfactory reception, under specified conditions, in the presence of atmospheric noise, man-made noise and interference from other transmitters. The value of nominal usable field strength has been employed as the reference for planning.

1.7 Usable field strength (E_u).

Minimum value of the field strength required to provide satisfactory reception under specified conditions in the presence of atmospheric noise, man-made noise, and interference in a real situation (or resulting from a frequency assignment plan).

1.8 Audio-frequency (AF) protection ratio

Agreed minimum value of the audio-frequency signal-to-interference ratio corresponding to a subjectively defined reception quality. This ratio may have different values according to the type of service desired.

1.9 Radio-frequency protection ratio

The desired radio-frequency signal-to-interference ratio which, in well-defined conditions, makes it possible to obtain the audio-frequency protection ratio at the output of a receiver. These specified conditions include various parameters such as the frequency separation between the desired carrier and the interfering carrier, the emission characteristics (type and percent modulation etc.), levels of input and output of the receiver and its characteristics (selectivity, sensitivity to intermodulation, etc.).

1.10 Class A station (see Note 1 to Section 4.6)

A station intended to provide coverage over extensive primary and secondary service areas, and which is protected against interference accordingly.

1.11 Class B station

A station intended to provide coverage over one or more population centres and the contiguous rural areas located in its primary service area, and which is protected against interference accordingly.

1.12 Class C station

A station intended to provide coverage over a city or town and the contiguous suburban areas located in its primary service area, and which is protected against interference accordingly.

1.13 Daytime operation

Operation between the times of local sunrise and local sunset.

1.14 Night-time operation

Operation between the times of local sunset and local sunrise.

1.15 Synchronized network

Two or more broadcasting stations whose carrier frequencies are identical and which broadcast the same programme simultaneously.

In a synchronized network the difference in carrier frequency between any two transmitters in the network shall not exceed 0.1 Hz. The modulation delay between any two transmitters in the network shall not exceed 100 μs, when measured at either transmitter site.

1.16 Station power

Unmodulated carrier power supplied to the antenna.

1.17 Groundwave

Electromagnetic wave which is propagated along the surface of the Earth or near it and which has not been reflected by the ionosphere.

1.18 Skywave

Electromagnetic wave which has been reflected by the ionosphere.

1.19 Skywave field strength, 10% of the time

The skywave field strength during the reference hour which is exceeded for 10% of the nights of the year. The reference hour is the period of one hour beginning one and a half hours after sunset and ending two and a half hours after sunset at the midpoint of the short great-circle path.

1.20 Skywave field strength, 50% of the time

The skywave field strength during the reference hour which is exceeded for 50% of the nights of the year. The reference hour is the period of one hour beginning one and a half hours after sunset and ending two and a half hours after sunset at the midpoint of the short great-circle path.

1.21 Characteristic field strength(E_c)

The field strength, at a reference distance of 1 km in a horizontal direction, of the groundwave signal propagated along perfectly conducting ground for 1 kW station power, taking into account losses in a real antenna.

Note: a) The gain (G) of the transmitting antenna relative to an ideal short vertical antenna is given in dB by the following equation:

$$G = 20 \log \frac{E_c}{300}$$

where E_c is in units of mV/m.

b) The effective monopole radiated power (e.m.r.p.) is given in dB(1 kW) by the following equation:

$$\text{e.m.r.p.} = 10 \log P_t + G$$

where P_t is the station power in kW

1.22 Symbols

Hz	: hertz
kHz	: kilohertz
W	: watt
kW	: kilowatt
mV/m	: millivolt/metre
μV/m	: microvolt/metre
dB	: decibel
dB (μV/m)	: decibels with respect to 1μV/m
dB (kW)	: decibels with respect to 1 kW
mS/m	: millisiemens/metre

CHAPTER 2

Groundwave propagation

2.1 Ground conductivity

2.1.1 The Atlas of Ground Conductivity forms Appendix 1 to this Annex. It contains the information communicated to the IFRB following a decision of the First Session (Buenos Aires, 1980), the modifications introduced during the Second Session (Rio de Janeiro, 1981) and the modifications submitted in accordance with 2.1.3 below.

2.1.2 The Atlas is recorded as follows:

2.1.2.1 Large-scale maps of ground conductivity in Canada and the United States.

2.1.2.2 A digitized version maintained in a computer data base by the IFRB.

2.1.2.3 The data used in the preparation of the Atlas was digitized from the values contained in the official ground conductivity maps of the two administrations. In the case of discrepancies or errors due to the digitizing process, the values of the official maps of each administration shall prevail. Whenever an administration detects such discrepancies or errors, it shall so inform the other administration and the IFRB as soon as possible.

2.1.3 When an administration notifies to the IFRB data intended to modify the Atlas, the IFRB so informs all administrations having assignments in Region 2. After 90 days from the date on which this information is communicated by the IFRB, the IFRB modifies the Atlas and communicates the modifications to all administrations.

2.1.4 No assignment in the Plan shall at any time be required to be modified as a result of the incorporation of these data.

2.1.5 A proposal to modify the Plan shall be evaluated on the basis of the values in the Atlas on the date the proposal was received by the other administration, except as specified in Article VI of the Agreement.

2.2 Field strength curves for groundwave propagation

The curves shown in Appendix 2 are to be used for determining groundwave propagation in the following frequency ranges:

Graph No.	kHz
1	540 - 560
2	570 - 590
3	600 - 620
4	630 - 650
5	660 - 680
6	690 - 710
7	720 - 760
8	770 - 810
9	820 - 860
10	870 - 910
11	920 - 960
12	970 - 1 030
13	1 040 - 1 100
14	1 110 - 1 170
15	1 180 - 1 240
16	1 250 - 1 330
17	1 340 - 1 420
18	1 430 - 1 510
19	1 520 - 1 610

2.3 Calculation of groundwave field strength

2.3.1 Homogeneous paths

The vertical component of the field strength for a homogeneous path is represented in these graphs as a function of distance, for various values of ground conductivity.

The distance in kilometres is shown on a logarithmic scale on the abscissa. The field strength is shown on a logarithmic scale on the ordinate in m/Vm. Graphs 1 to 19 are standardized for a characteristic field strength of 100 mV/m corresponding to an effective monopole radiated power (e.m.r.p.) of -9.5 dB relative to 1 kW. The straight line marked "100 mV/m at 1 km" is the field strength on the assumption that the antenna is erected on a surface of perfect conductivity.

For omnidirectional antenna systems having a different characteristic field strength, correction must be made according to the following equations:

$E = E_0 \times \frac{E_c \times \sqrt{P}}{100}$ if field strengths are expressed in mV/m, and

$E = E_0 + E_c - 100 + 10 \log P$ if field strengths are expressed in dB (μV/m).

For directional antenna systems, the correction must be made according to the following equations:

$E = E_0 \times \frac{E_R}{100}$ if field strengths are expressed in mV/m, and

$E = E_0 + E_R - 100$ if field strengths are expressed in dB (μV/m).

Where E : resulting field strength

E_0 : field strength read from graphs 1 to 19

E_R : actual radiated field strength at a particular azimuth at 1 km

E_c : characteristic field strength

P : station power in kW.

Graph 20 consists of a pair of scales to be used with the other graphs of Appendix 2. The pair contains one scale labelled in decibels and another in millivolts per metre. The pair can be cut out and trimmed as a unit to be used as sliding ordinate scales. The scales allow graphical conversion between decibels and millivolts per metre, and are used to make graphical determinations of field strengths. Other methods of making calculations on graphs 1 to 19 may be used, including the use of dividers to adjust for values of E_R that differ from 100 mV/m at 1 km. However, any method used will follow steps similar to those discussed below.

For both omnidirectional and directional antenna systems the value of E_R must be found. For omnidirectional systems E_R can be determined by using the following equations:

$E_R = E_c\sqrt{P}$ if field strengths are expressed in mV/m, and

$E_R = E_c + 10 \log P$ if field strengths are expressed in dB (μV/m).

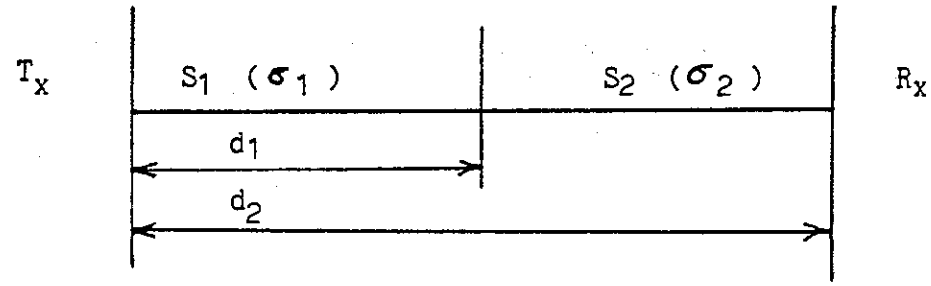
To determine the field strength at a given distance, the scale is placed at the given distance with the 100 m/Vm point of the scale resting on the appropriate conductivity curve. The value of E_R is then found on the scale; the point on the underlying graph (which lies underneath the E_R point of the scale) yields the field strength at the given distance.

To determine the distance at a given field strength, the E_R value is found on the sliding scale and that point is placed directly at the level of the given field strength on the appropriate graph. The scale is then moved horizontally until the 100 m/Vm point of the scale coincides with the applicable conductivity curve. The distance may then be read from the abscissa of the underlying graph.

2.3.2 Non-homogeneous paths

In this case, the equivalent distance or Kirke method is to be used. To apply this method, graphs 1 to 20 can also be used.

Consider a path whose sections S_1 and S_2 have endpoint lengths corresponding to d_1 and $d_2 - d_1$, and conductivities σ_1 and σ_2 respectively, as shown on the following figure:



The method is applied as follows:

a) Taking section S_1 first, we read the field strength corresponding to conductivity σ_1 at distance d_1 on the graph corresponding to the operational frequency.

b) As the field strength remains constant at the soil discontinuity, the value immediately after the point of discontinuity must be equal to that obtained in a) above. As the conductivity of the second section is σ_2, the curve corresponding to conductivity σ_2 gives the equivalent distance to that which would be obtained at the same field strength arrived at in a). This equivalent distance is d. Distance d is larger than d_1 when σ_2 is larger than σ_1. Otherwise d is less than d_1.

c) The field strength at the real distance d_2 is determined by taking note of the corresponding curve for conductivity σ_2 similar to that obtained at equivalent distance $d + (d_2 - d_1)$.

d) For successive sections with different conductivities, procedures b) and c) are repeated.

CHAPTER 3

Skywave propagation

3. The calculation of skywave field strength shall be conducted in accordance with the provisions which follow. (No account is taken in this Agreement of sea gain or of excess polarization coupling loss).

3.1 List of symbols

d : short great-circle path distance (km)
E_c : characteristic field strength, mV/m at 1 km for 1 kW
$f(\theta)$: radiation as a fraction of the value $\theta = 0$ (when $\theta = 0$, $f(\theta) = 1$)
f : frequency (kHz)
F : unadjusted annual median skywave field strength, in μV/m
F_c : field strength read from Figure 4 or Table III for a characteristic field strength of 100 mV/m
F(50): skywave field strength, 50% of the time, in μV/m
F(10): skywave field strength, 10% of the time, in μV/m
P : station power (kW)
θ : elevation angle from the horizontal (degrees)

3.2 General procedure

Radiation in the horizontal plane of an omnidirectional antenna fed with 1 kW (characteristic field strength, E_c) is known either from design data or, if the actual design data are not available, from Figure 1.

Elevation angle, θ, is given by

$$\theta = \arctan\left(0.00752 \cot\frac{d}{444.54}\right) - \frac{d}{444.54} \text{ degrees} \quad (1)$$

$$0 \leqslant \theta \leqslant 90^\circ$$

While Table I and Figure 2 are included for convenience, formula (1) above is controlling.

The radiation $f(\theta)$ expressed as a fraction of the value at $\theta = 0$ at a pertinent elevation angle θ can be determined from Figure 3 or Table II.

The product $E_c f(\theta) \sqrt{P}$ is determined for both omnidirectional and directional antennas with the field strength at 1 km determined at the appropriate elevation angle from Figure 2 and the pertinent azimuth.

The unadjusted skywave field strength F is given by:

$$F = F_c\left[\frac{E_c f(\theta)\sqrt{P}}{100}\right] \mu V/m \qquad (2)$$

where F_c is the direct reading from the field strength curve in Figure 4 or Table III.

Note : Values of F_c in Figure 4 and Table III are normalized to 100 mV/m at 1 km corresponding to an effective monopole radiated power (e.m.r.p.) of -9.5 dB(kW).

For distances greater than 4,250 km, it should be noted that F_c can be expressed by:

$$F_c = 10^x \quad \mu V/m \qquad (3)$$

$$\text{where} \quad x = \left\{\left[\frac{231}{3+d/1000}\right] - 35.5\right\} \Big/ 20$$

3.3 Skywave field strength, 50% of the time

This is given by:

$$F(50) = F \quad \mu V/m \qquad (4)$$

3.4 Skywave field strength, 10% of the time

The skywave field strength exceeded 10% of the time is given by:

$$F(10) = F(50) \times 2.5118 \quad \mu V/m \qquad (5)$$

3.5 Nocturnal variation of skywave field strength

Hourly median skywave field strengths vary during the night and at sunrise and sunset. Figures 5a and 5b show the skywave diurnal factors with respect to sunrise and sunset at the midpoint of the transmission path. These figures shall be applied in determining field strengths of signals of stations engaging in extended operations under Article VII of this Agreement, for the purpose of determining whether such extended operations protect co-channel stations in the other country. (ref. Appendix 7)

3.6 Sunrise and sunset time

To facilitate the determination of the local time of sunrise and sunset, Figure 6 gives the times for various geographical latitudes and for each month of the year. The time is the local meridian time at the point concerned and should be converted to the appropriate standard time.

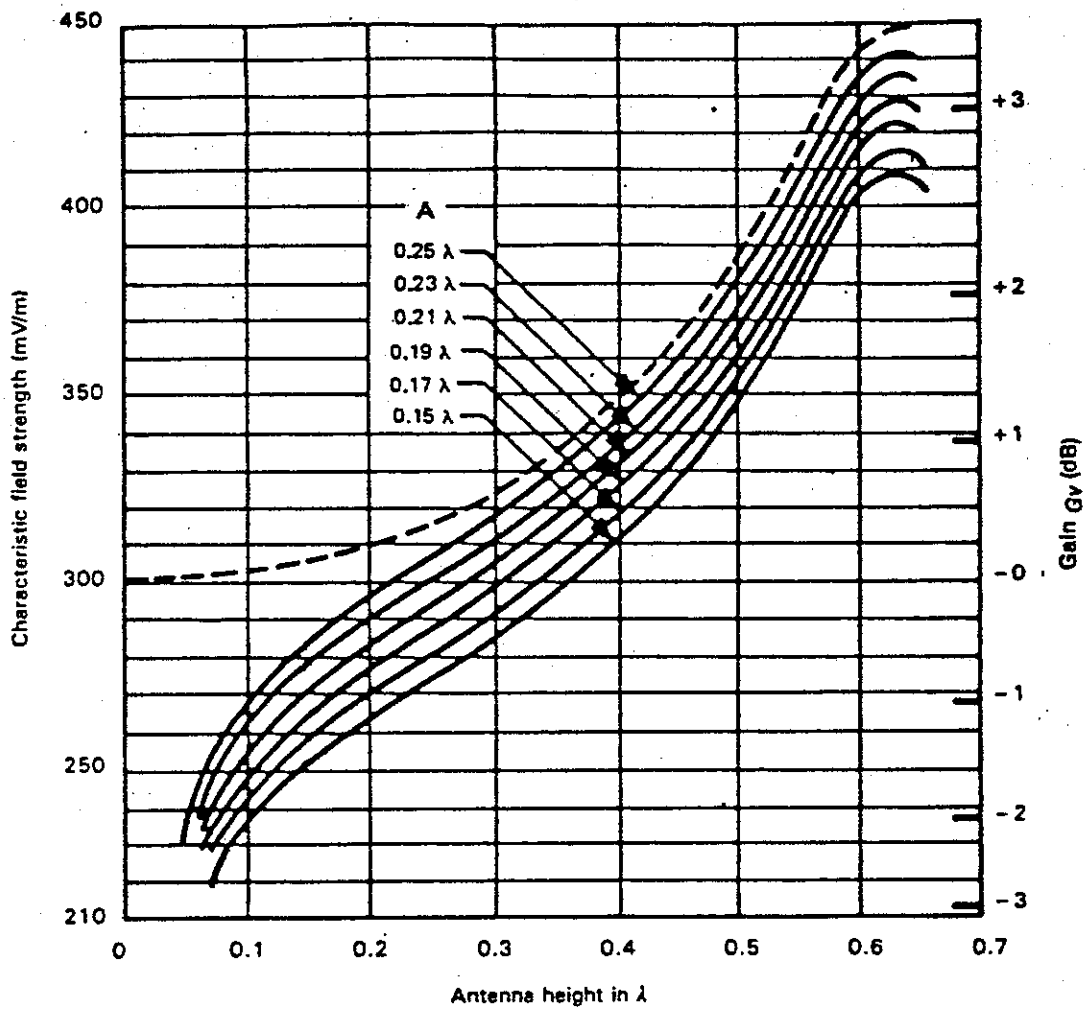


FIGURE 1 - Characteristic field strengths for simple vertical antennas, using 120-radial ground systems

A : radius of ground system

Full lines : real antenna correctly designed

Dashed line : ideal antenna on a perfectly conducting ground

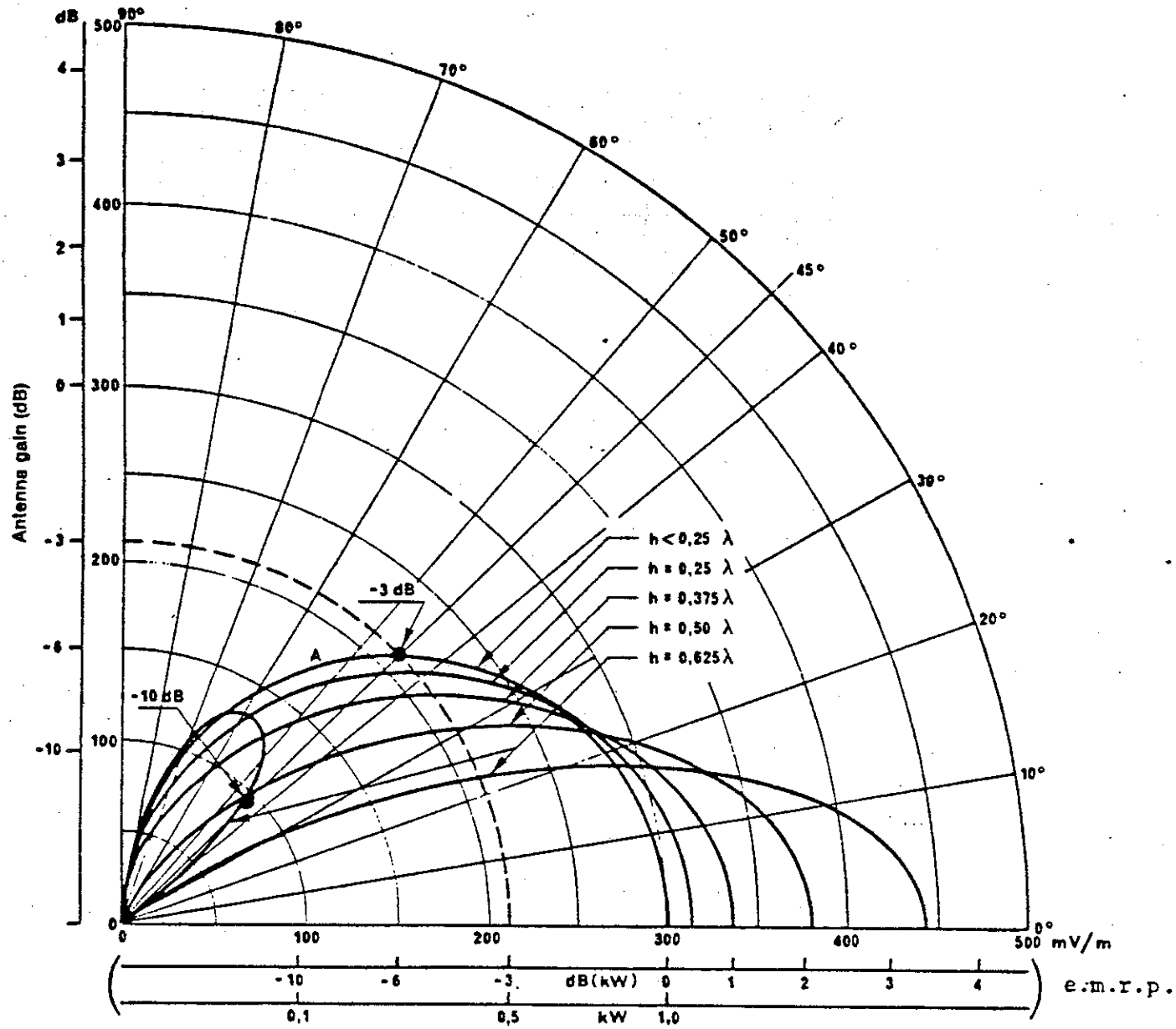
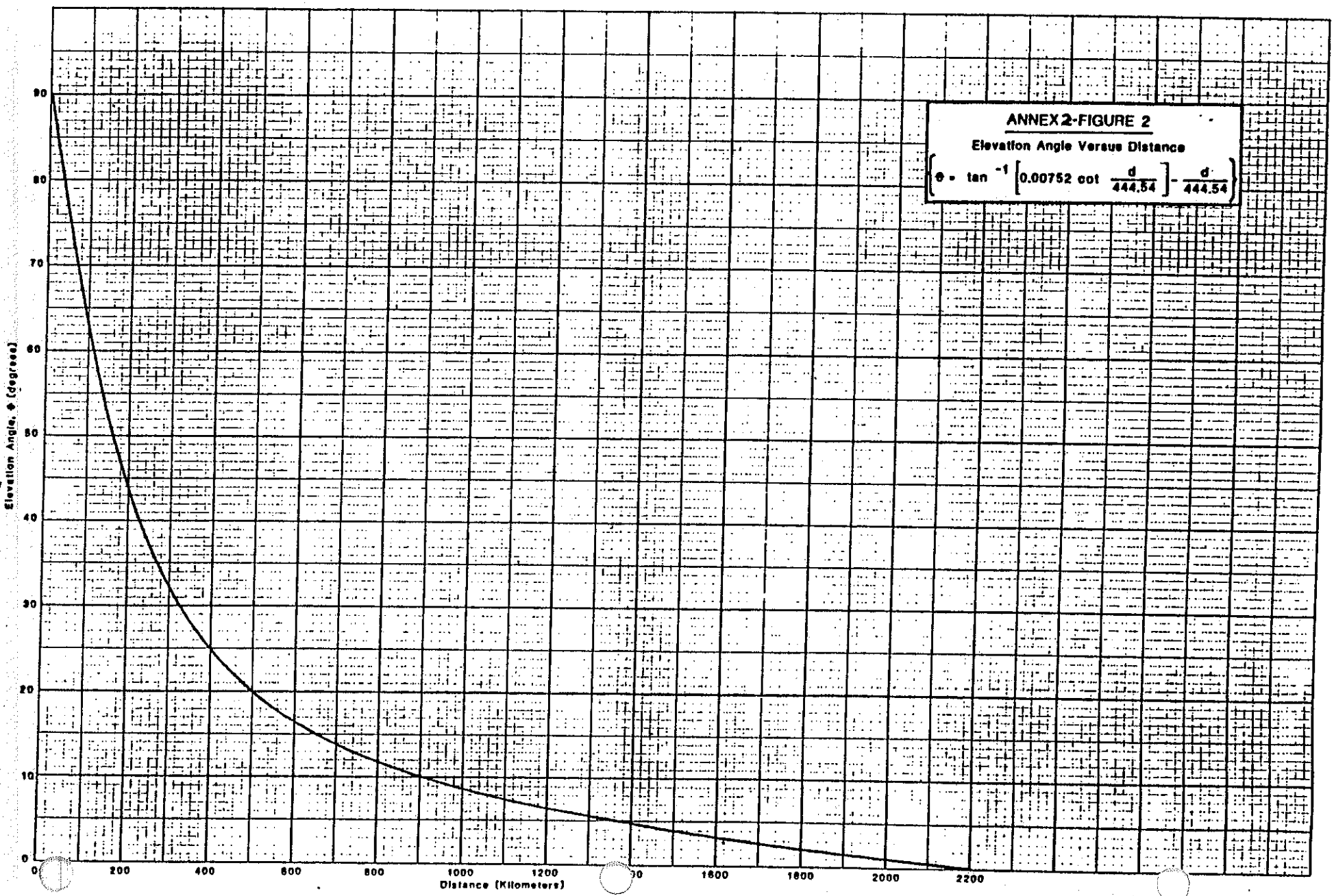


FIGURE 1a - Effective monopole radiated power (e.m.r.p.) and field strength at a distance of 1 km as a function of elevation angle, for different heights of vertical antennae assuming a transmitter power of 1 kW

TABLE I - Elevation angle vs distance

Distance (km)	Elevation angle (degrees)
50	75.3
100	62.2
150	51.6
200	43.3
250	36.9
300	31.9
350	27.9
400	24.7
450	22.0
500	19.8
550	18.0
600	16.3
650	14.9
700	13.7
750	12.6
800	11.7
850	10.8
900	10.0
950	9.3
1000	8.6
1050	8.0
1100	7.4
1150	6.9
1200	6.4
1250	5.9
1300	5.4
1350	5.0
1400	4.6
1450	4.3
1500	3.9
1550	3.5
1600	3.2
1650	2.9
1700	2.6
1750	2.3
1800	2.0
1850	1.7
1900	1.5
1950	1.2
2000	1.0
2050	0.7
2100	0.5
2150	0.2
2200	0.0
2250	0.0
2300	0.0
2350	0.0
2400	0.0


ANNEX 2-FIGURE 2
Elevation Angle Versus Distance
$\theta = \tan^{-1}\left[0.00752 \cot \frac{d}{444.54}\right] - \frac{d}{444.54}$
Elevation Angle, θ (degrees)
0
10
20
30
40
50
60
70
80
90
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
Distance (Kilometers)

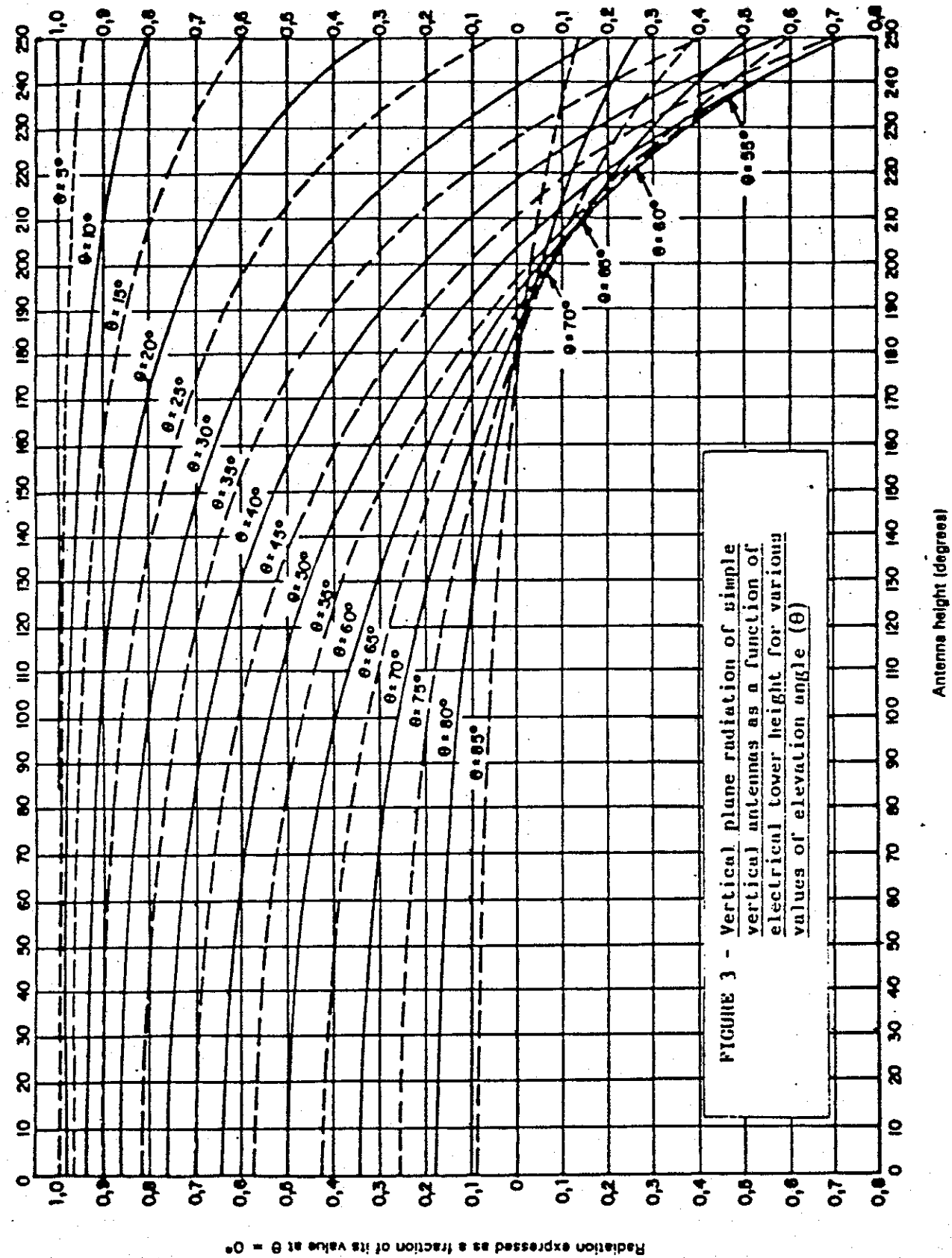


FIGURE 3 - Vertical plane radiation of simple vertical antennas as a function of electrical tower height for various values of elevation angle (θ)

TABLE II - f(θ) values for simple vertical antennas

Elevation angle (degrees)	f(θ)					
	0.11λ	0.13λ	0.15λ	0.17λ	0.19λ	0.21λ
0	1.000	1.000	1.000	1.000	1.000	1.000
1	1.000	1.000	1.000	1.000	1.000	1.000
2	0.999	0.999	0.999	0.999	0.999	0.999
3	0.999	0.998	0.998	0.998	0.998	0.998
4	0.997	0.997	0.997	0.997	0.997	0.997
5	0.996	0.996	0.996	0.995	0.995	0.995
6	0.994	0.994	0.994	0.993	0.993	0.993
7	0.992	0.992	0.991	0.991	0.991	0.990
8	0.989	0.989	0.989	0.988	0.988	0.987
9	0.987	0.986	0.986	0.985	0.985	0.984
10	0.984	0.983	0.983	0.982	0.981	0.980
11	0.980	0.980	0.979	0.978	0.977	0.976
12	0.976	0.976	0.975	0.974	0.973	0.971
13	0.972	0.972	0.971	0.969	0.968	0.967
14	0.968	0.967	0.966	0.965	0.963	0.961
15	0.963	0.962	0.961	0.959	0.958	0.956
16	0.958	0.957	0.956	0.954	0.952	0.950
17	0.953	0.952	0.950	0.948	0.945	0.943
18	0.947	0.946	0.944	0.942	0.940	0.937
19	0.941	0.940	0.938	0.935	0.933	0.930
20	0.935	0.933	0.931	0.929	0.926	0.923
22	0.922	0.920	0.917	0.914	0.911	0.907
24	0.907	0.905	0.902	0.898	0.894	0.890
26	0.892	0.889	0.885	0.882	0.877	0.872
28	0.875	0.872	0.868	0.864	0.858	0.852
30	0.857	0.854	0.849	0.844	0.839	0.832
32	0.838	0.834	0.830	0.824	0.818	0.811
34	0.819	0.814	0.809	0.803	0.796	0.789
36	0.798	0.793	0.788	0.781	0.774	0.766
38	0.776	0.771	0.765	0.758	0.751	0.742
40	0.753	0.748	0.742	0.735	0.726	0.717
42	0.730	0.724	0.718	0.710	0.702	0.692
44	0.705	0.700	0.693	0.685	0.676	0.666
46	0.680	0.674	0.667	0.659	0.650	0.639
48	0.654	0.648	0.641	0.633	0.623	0.612
50	0.628	0.621	0.614	0.606	0.596	0.585
52	0.600	0.594	0.587	0.578	0.568	0.557
54	0.572	0.565	0.559	0.550	0.540	0.529
56	0.544	0.537	0.530	0.521	0.512	0.501
58	0.515	0.508	0.501	0.493	0.483	0.472
60	0.485	0.479	0.472	0.463	0.454	0.443

TABLE II (continued) - f(θ) values for simple vertical antennas

Elevation angle (degrees)	f(θ)					
	0.23 λ	0.25 λ	0.27 λ	0.29 λ	0.311 λ	0.35 λ
0	1.000	1.000	1.000	1.000	1.000	1.000
1	1.000	1.000	1.000	1.000	1.000	1.000
2	0.999	0.999	0.999	0.999	0.999	0.999
3	0.998	0.998	0.998	0.998	0.998	0.997
4	0.997	0.996	0.996	0.996	0.996	0.995
5	0.995	0.994	0.994	0.994	0.993	0.992
6	0.992	0.992	0.991	0.991	0.990	0.989
7	0.990	0.989	0.988	0.988	0.987	0.985
8	0.987	0.986	0.985	0.984	0.983	0.980
9	0.983	9.932	0.981	0.980	0.978	0.975
10	0.979	0.978	0.977	0.975	0.973	0.969
11	0.975	0.973	0.972	0.970	0.968	0.963
12	0.970	0.968	0.966	0.964	0.962	0.955
13	0.965	0.963	0.961	0.958	0.955	0.949
14	0.959	0.957	0.955	0.952	0.948	0.941
15	0.953	0.951	0.948	0.945	0.941	0.932
16	0.947	0.944	0.941	0.937	0.933	0.924
17	0.941	0.937	0.934	0.930	0.925	0.914
18	0.934	0.930	0.926	0.921	0.916	0.904
19	0.926	0.922	0.918	0.913	0.907	0.894
20	0.919	0.914	0.909	0.904	0.898	0.883
22	0.902	0.897	0.891	0.885	0.877	0.851
24	0.885	0.879	0.872	0.865	0.856	0.837
26	0.866	0.859	0.852	0.843	0.833	0.811
28	0.846	0.833	0.830	0.820	0.809	0.785
30	0.825	0.816	0.807	0.797	0.784	0.768
32	0.803	0.794	0.784	0.772	0.759	0.729
34	0.780	0.770	0.759	0.747	0.732	0.701
36	0.756	0.746	0.734	0.721	0.705	0.671
38	0.732	0.720	0.708	0.694	0.677	0.642
40	0.706	0.695	0.681	0.667	0.649	0.612
42	0.681	0.668	0.654	0.639	0.621	0.582
44	0.654	0.641	0.627	0.611	0.593	0.552
46	0.628	0.614	0.600	0.583	0.564	0.523
48	0.600	0.587	0.572	0.555	0.536	0.494
50	0.573	0.559	0.544	0.527	0.507	0.465
52	0.545	0.531	0.516	0.498	0.479	0.436
54	0.517	0.503	0.487	0.470	0.451	0.408
56	0.488	0.474	0.459	0.442	0.423	0.381
58	0.460	0.446	0.431	0.414	0.395	0.354
60	0.431	0.418	0.403	0.387	0.368	0.328

TABLE II (continued) - f(θ) values for simple vertical antennas

Elevation angle (degrees)	f(θ)					
	0.40λ	0.45λ	0.50λ	0.528λ	0.55λ	0.625λ
0	1.000	1.000	1.000	1.000	1.000	1.000
1	1.000	1.000	0.999	0.999	0.999	0.999
2	0.998	0.998	0.998	0.997	0.997	0.996
3	0.997	0.996	0.996	0.994	0.993	0.989
4	0.994	0.992	0.990	0.989	0.988	0.981
5	0.981	0.988	0.986	0.983	0.981	0.970
6	0.986	0.983	0.979	0.976	0.972	0.957
7	0.932	0.977	0.971	0.967	0.962	0.941
8	0.976	0.970	0.982	0.957	0.951	0.924
9	0.970	0.963	0.953	0.945	0.938	0.904
10	0.963	0.954	0.942	0.933	0.924	0.882
11	0.955	0.945	0.930	0.919	0.909	0.859
12	0.947	0.934	0.917	0.905	0.893	0.834
13	0.936	0.923	0.903	0.889	0.876	0.807
14	0.929	0.912	0.889	0.872	0.857	0.778
15	0.918	0.899	0.873	0.855	0.837	0.748
16	0.908	0.886	0.867	0.836	0.816	0.717
17	0.897	0.873	0.840	0.817	0.795	0.684
18	0.885	0.859	0.823	0.797	0.772	0.651
19	0.873	0.844	0.804	0.776	0.749	0.617
20	0.860	0.828	0.785	0.755	0.726	0.582
22	0.833	0.796	0.746	0.710	0.667	0.510
24	0.805	0.763	0.705	0.666	0.625	0.436
26	0.776	0.728	0.663	0.618	0.574	0.363
28	0.745	0.692	0.621	0.570	0.522	0.290
30	0.714	0.655	0.577	0.522	0.470	0.219
32	0.682	0.619	0.534	0.475	0.419	0.151
34	0.649	0.582	0.492	0.428	0.369	0.085
36	0.617	0.545	0.450	0.383	0.321	0.025
38	0.584	0.509	0.409	0.340	0.276	-0.031
40	0.552	0.473	0.370	0.298	0.231	-0.083
42	0.519	0.438	0.332	0.258	0.190	-0.129
44	0.488	0.405	0.296	0.221	0.162	-0.170
46	0.457	0.372	0.262	0.187	0.117	-0.205
48	0.427	0.341	0.230	0.135	0.085	-0.235
50	0.397	0.311	0.201	0.126	0.056	-0.259
52	0.369	0.283	0.174	0.099	0.031	-0.278
54	0.341	0.257	0.149	0.076	0.009	-0.291
56	0.316	0.232	0.126	0.055	-0.010	-0.300
58	0.289	0.208	0.106	0.037	-0.026	-0.304
60	0.265	0.186	0.087	0.021	-0.039	-0.304
62				0.008	-0.049	-0.300
64				-0.003	-0.056	-0.292
66				-0.011	-0.062	-0.281
68				-0.017	-0.064	-0.267
70				-0.022	-0.065	-0.250
72				-0.025	-0.064	-0.231
74				-0.025	-0.061	-0.210
76				-0.026	-0.056	-0.138
78				-0.024	-0.051	-0.163
80				-0.022	-0.044	-0.138

Note : When the negative sign (-) appears in the Table, it signifies only the existence of a secondary lobe having the opposite phase from the main lobe in the vertical radiation pattern. In order to perform the calculation, ignore the negative (-) and use only the absolute value of f(θ) from the Table.

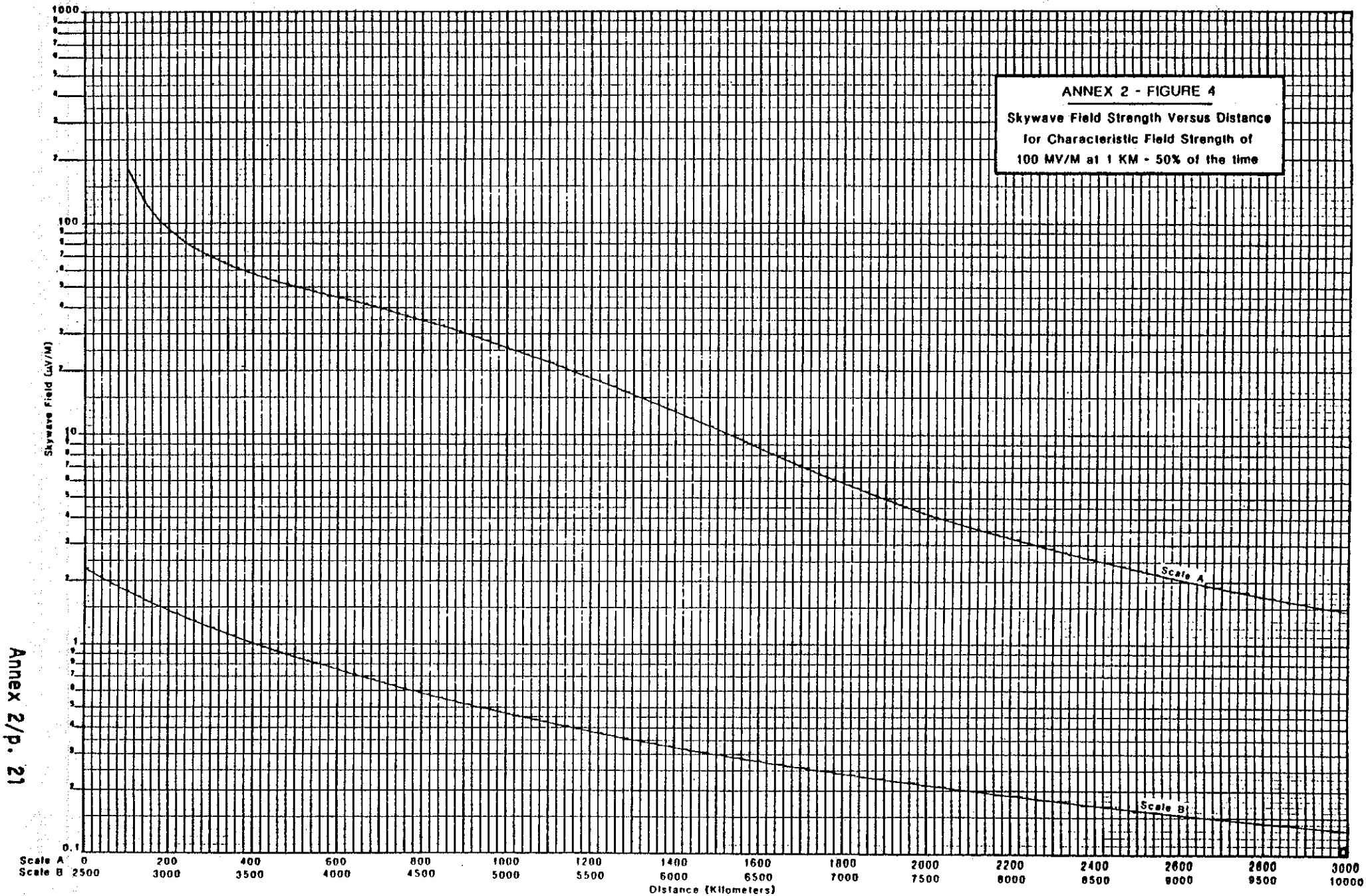
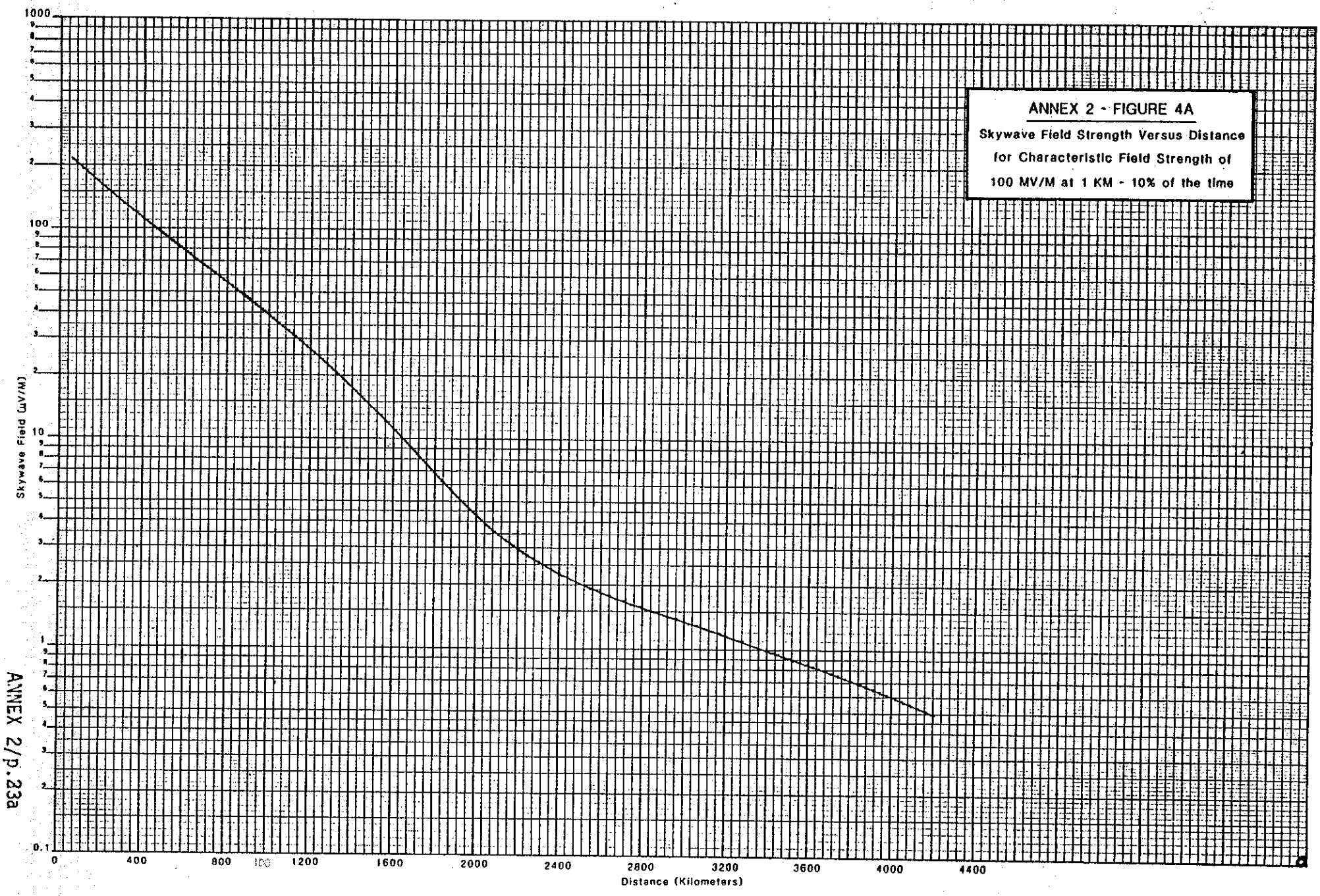

ANNEX 2 - FIGURE 4
Skywave Field Strength Versus Distance
for Characteristic Field Strength of
100 MV/M at 1 KM - 50% of the time
Skywave Field (uV/M)
1000
100
10
1
0.1
Scale A
Scale B
Scale A 0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000
Scale B 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000
Distance (Kilometers)

TABLE III - Skywave field strength vs distance for a characteristic field strength of 100 mV/m

d(km)	$F_{c\ 50\%}$ (μV/m)
100	179.11
150	117.18
200	92.06
250	77.54
300	68.82
350	62.06
400	57.08
450	52.86
500	49.45
550	46.78
600	44.36
650	41.95
700	39.54
750	36.81
800	34.40
850	32.30
900	29.39
950	27.63
1000	25.54
1050	23.56
1100	21.84
1150	19.91
1200	18.30
1250	16.78
1300	15.32
1350	13.97
1400	12.71
1450	11.55
1500	10.50
1550	9.53
1600	8.57
1650	7.72
1700	6.98
1750	6.34
1800	5.80
1850	5.32
1900	4.89
1950	4.49
2000	4.14
2100	3.61
2200	3.18
2300	2.79
2400	2.45
2500	2.26
2600	2.03
2700	1.85
2800	1.69
2900	1.55

TABLE III (continued)

d(km)	F_c (μV/m) 50%
3000	1.43
3100	1.33
3200	1.13
3300	1.15
3400	1.07
3500	1.00
3600	0.94
3700	0.88
3800	0.83
3900	0.79
4000	0.75
4100	0.71
4200	0.67
4300	0.64
4400	0.61
4500	0.58
4600	0.55
4700	0.53
4800	0.51
4900	0.48
5000	0.46
5100	0.45
5200	0.43
5300	0.41
5400	0.40
5500	0.38
5600	0.37
5700	0.36
5800	0.34
5900	0.33
6000	0.32
6200	0.30
6400	0.28
6600	0.27
6800	0.25
7000	0.24
7200	0.23
7400	0.22
7600	0.21
7800	0.20
8000	0.19
8200	0.18
8400	0.17
8600	0.17
8800	0.16
9000	0.15
9200	0.15
9400	0.14
9600	0.14
9800	0.13
10000	0.13


ANNEX 2 - FIGURE 4A
Skywave Field Strength Versus Distance
for Characteristic Field Strength of
100 MV/M at 1 KM - 10% of the time
Skywave Field (uV/M)
1000
100
10
1
0.1
0
400
800
1200
1600
2000
2400
2800
3200
3600
4000
4400
Distance (Kilometers)

ANNEX 2/p.23a

TABLE III-A - Skywave field strength vs distance for a characteristic field strength of 100 mV/m

d(km)	F_c (uV/m) 10%
50	211.266
100	198.115
150	179.210
200	162.249
250	145.831
300	132.032
350	119.611
400	109.185
450	99.537
500	90.548
550	83.555
600	76.962
650	70.105
700	64.934
750	59.953
800	55.296
850	50.930
900	46.529
950	42.776
1000	39.178
1050	35.779
1100	32.665
1150	29.706
1200	26.846
1250	24.081
1300	21.601
1350	19.347
1400	17.279
1450	15.478
1500	13.740
1550	12.228
1600	10.938
1650	9.682
1700	8.626
1750	7.660
1800	6.758
1850	6.048
1900	5.327
1950	4.782
2000	4.310
2050	3.909
2100	3.555
2150	3.269

TABLE III-A (continued)

d(km)	F_c (uV/m) 10%
2200	3.023
2250	2.797
2300	2.626
2350	2.472
2400	2.331
2450	2.189
2500	2.087
2550	1.983
2600	1.890
2650	1.804
2700	1.721
2750	1.643
2800	1.566
2850	1.508
2900	1.444
2950	1.392
3000	1.343
3050	1.295
3100	1.247
3150	1.198
3200	1.152
3250	1.107
3300	1.068
3350	1.029
3400	0.991
3450	0.952
3500	0.914
3550	0.885
3600	0.843
3650	0.809
3700	0.778
3750	0.752
3800	0.719
3850	0.687
3900	0.657
3950	0.628
4000	0.598
4050	0.570
4100	0.543
4150	0.517
4200	0.500

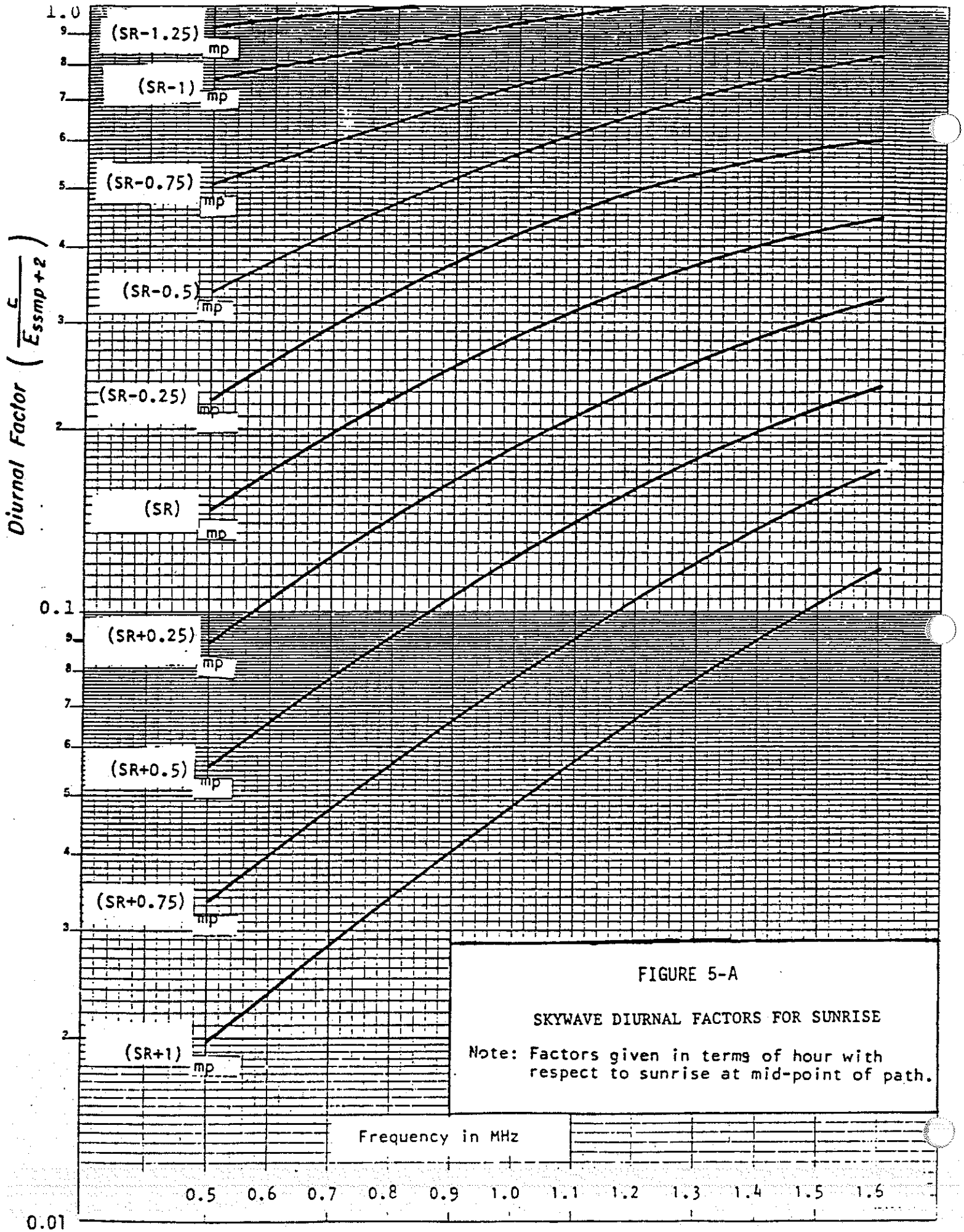


FIGURE 5-A

SKYWAVE DIURNAL FACTORS FOR SUNRISE

Note: Factors given in terms of hour with respect to sunrise at mid-point of path.

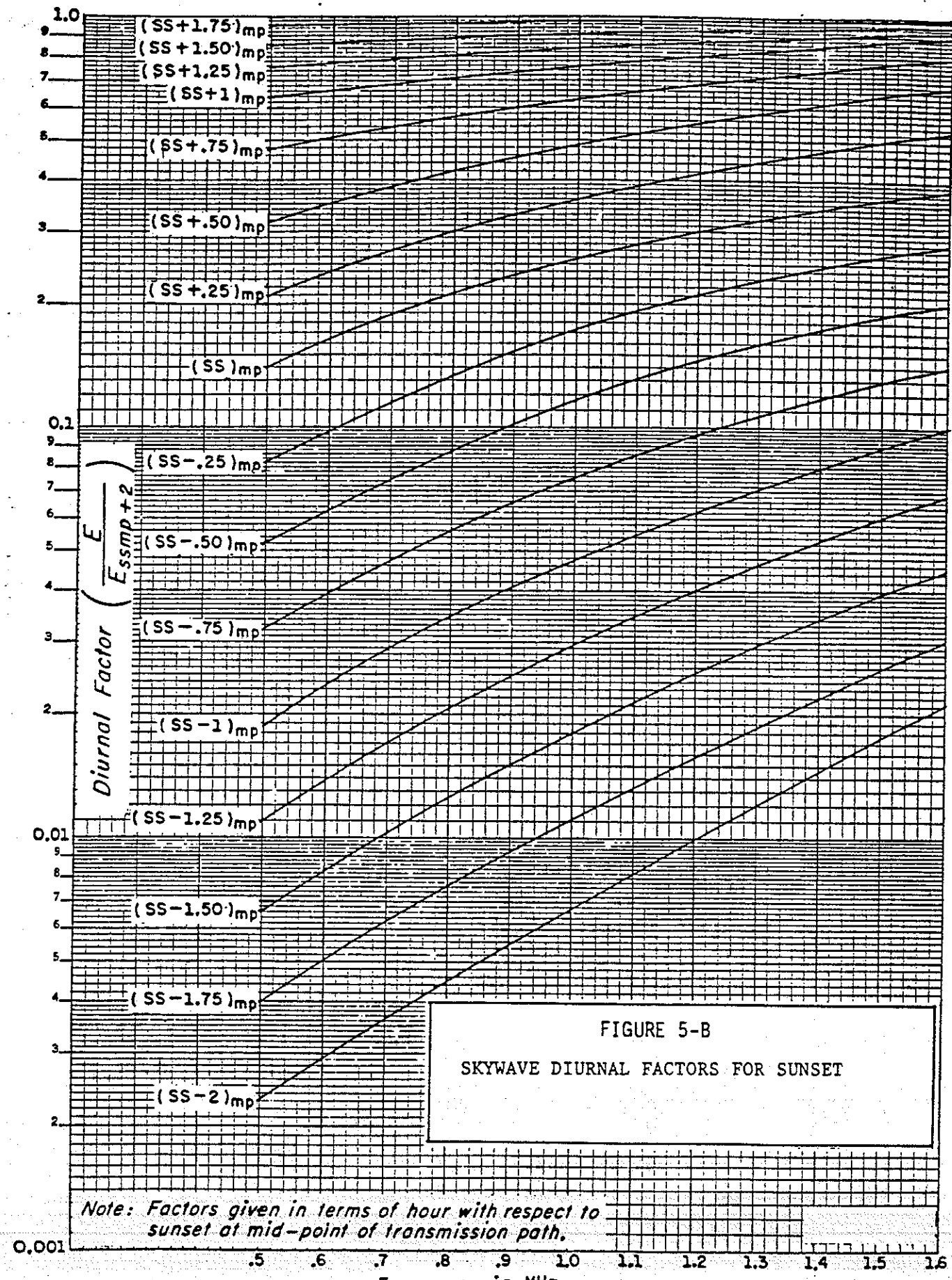


FIGURE 5-B

SKYWAVE DIURNAL FACTORS FOR SUNSET

Formula for diurnal curves of Figures 5A and 5B

$F_{diurnal} = a + bX + cX^2 + dX^3$ (where X is in MHz)

When a point in time relative to sunset or sunrise does not fall directly upon one of the curves, calculations are made using the values on the curves that are adjacent to the time in question. These values are then converted to Log values for linear interpolation at the required time. The antiLog is then taken to obtain the desired value.

TABLE 5-A

Presunrise Constants				
T_{mp}	a	b	c	d
-2	1.3084	.0083	-.0155	.0144
-1.75	1.3165	-.4919	.6011	-.1884
-1.5	1.0079	.0296	.1488	-.0452
-1.25	.7773	.3751	-.1911	.0736
-1	.6230	.1547	.2654	-.1006
-.75	.3718	.1178	.3632	-.1172
-.5	.2151	.0737	.4167	-.1413
-.25	.2027	-.2560	.7269	-.2577
SR	.1504	-.2325	.5374	-.1729
+.25	.1057	-.2092	.4148	-.1239
+.5	.0642	-.1295	.2583	-.0699
+.75	.0446	-.1002	.1754	-.0405
+1	.0148	-.0135	.0462	.0010

TABLE 5-B

Post Sunset Constants				
T_{mp}	a	b	c	d
1.75	.9495	-.0187	.0720	-.0290
1.5	.7196	.3583	-.2280	.0611
1.25	.6756	.1518	.0279	-.0163
1.0	.5486	.1401	.0952	-.0288
.75	.3003	.4050	-.0961	.0256
.5	.1186	.4281	-.0799	.0197
.25	.0382	.3706	-.0673	.0171
SS	.0002	.3024	-.0540	.0086
-.25	.0278	.0458	.1473	-.0486
-.5	.0203	.0132	.1166	-.0340
-.75	.0152	-.0002	.0786	-.0185
-1.0	-.0043	.0452	-.0040	.0103
-1.25	.0010	.0135	.0103	.0047
-1.5	.0018	.0052	.0069	.0042
-1.75	-.0012	.0122	-.0076	.0076
-2.0	-.0024	.0141	-.0141	.0091

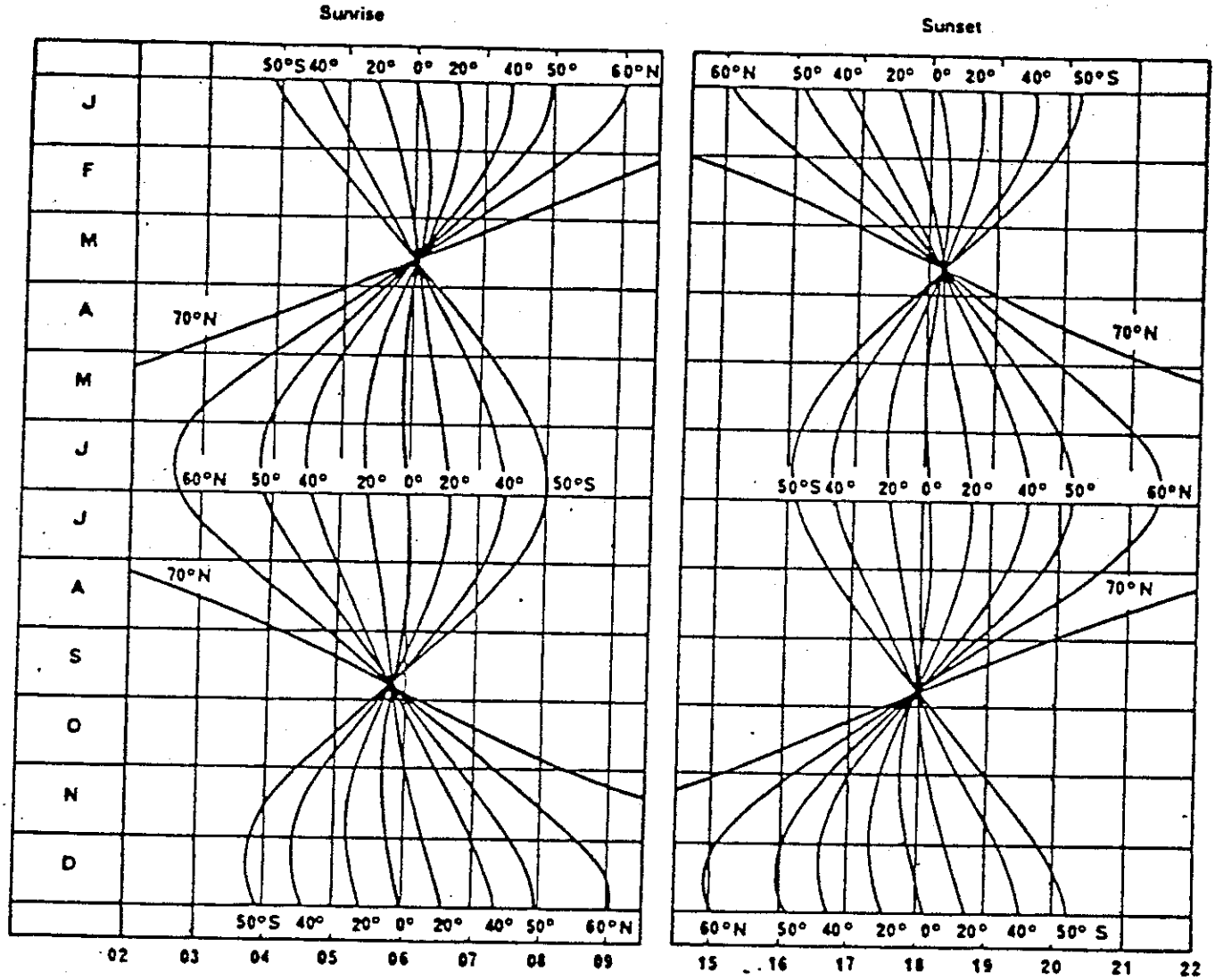


FIGURE 6 - Times of sunrise and sunset for various months and geographical latitudes

CHAPTER 4

Broadcasting Standards

4.1 The Plan is based on a channel spacing of 10 kHz and carrier frequencies which are integral multiples of 10 kHz, beginning at 540 kHz.

4.2 Class of emission

The Plan is based upon double-sideband amplitude modulation with full carrier A3E.

Classes of emission other than A3E, for instance to accomodate stereophonic systems, could also be used on condition that the energy level outside the necessary bandwidth does not exceed that normally expected in A3E emission and that the emission is receivable by conventional receivers employing envelope detectors without increasing appreciably the level of distortion.

4.3 Bandwidth of emission

The Plan assumes a necessary bandwidth of 10 kHz, for which only a 5 kHz audio bandwidth can be obtained. While this might be an appropriate value for some administrations, others have successfully employed wider bandwidth systems having occupied bandwidths of the order of 20 kHz without adverse effects.

4.4 Station Power

4.4.1 Class A

- The maximum station power shall be 50 kW.

4.4.2 Class B

- The maximum station power shall be 50 kW.

4.4.3 Class C

- The maximum station power shall be 1 kW.

provided that the protection criteria given in section 4.9 are met.

4.5 Skywave interference calculations

The values of interfering skywave signals shall be calculated on the basis of 10% of the time, in the manner prescribed in section 3.4.

4.6 TABLE IV - Nominal usable field strength

4.6.1	Class A station(1) Groundwave Daytime : co-channel 100μV/m adjacent) channel) 500μV/m Night-time : 500μV/m Skywave 500μV/m, 50% of the time
4.6.2	Class B station(2) Groundwave Daytime : 500μV/m Night-time : 2500μV/m
4.6.3	Class C station(2) Groundwave Daytime : 500μV/m Night-time : 4000μV/m

Note 1 : The night-time contour, groundwave or skywave, whichever is the more distant, is to be protected in the case of Class A stations.

Note 2 : The protected contour during night-time operation for Class B and C stations shall be the higher of the groundwave contour in 4.6.2 and 4.6.3 respectively, or the groundwave contour corresponding to the usable field strength of the station as defined in 4.7.

4.7 Use of the root sum square (RSS) method to determine the usable field strength resulting from the weighted interfering signals

4.7.1 General

The overall usable field strength E_u due to two or more individual interference contributions is calculated on an RSS basis, using the expression:

$$E_u = \sqrt{(a_1E_1)^2 + (a_2E_2)^2 + \ldots(a_iE_i)^2 \ldots} \qquad (1)$$

where:

E_i is the field strength of the ith interfering transmitter (in μV/m);

a_i is the radio-frequency protection ratio associated with the ith interfering transmitter, expressed as a numerical ratio of field strengths.

4.7.2 50% exclusion principle

4.7.2.1 The 50% exclusion principle allows a significant reduction in the number of calculations.

4.7.2.2 According to this principle, the values of the individual usable field strength contributions are arranged in descending order of magnitude. If the second value is less than 50% of the first value, the second value and all subsequent values are neglected. Otherwise an RSS value is calculated for the first and second values. The calculated RSS value is then compared with the third value in the same manner by which the first value was compared to the second and a new RSS value is calculated if required. The process is continued until the next value to be compared is less than 50% of the last calculated RSS value. At that point the last calculated RSS value is considered to be the usable field strength E_u.

4.7.2.3 Except as provided in section 4.7.2.4, if the contribution of a new station is greater than the smallest value previously considered in calculating the RSS value of assignments in the Plan, the contribution of the new station adversely affects assignments in conformity with this Agreement even if it is less than 50% of the RSS value. However, the new contribution does not adversely affect assignments in conformity with this Agreement if the RSS value determined by inserting the contribution of the new station in the list of contributors is smaller than the nominal usable field strength E_{nom}.

4.7.2.4 The contribution of a station engaging in extended operation under Article VII of the Agreement shall not be taken into account in the calculation of the E_u.

4.7.3 Other Region 2 Stations

In the above determination of usable field strengths, contributions from stations in other Region 2 countries, which were accepted by Canada or the U.S.A., as included in List A of the Rio de Janeiro Plan, shall be included.

4.8 (Reserved)

4.9 Channel protection ratios

4.9.1 Co-channel protection Ratio

The co-channel protection ratio is 26 dB.

4.9.2 adjacent channel protection ratio

- protection ratio for the first adjacent channel : 0 dB
- protection ratio for the second adjacent channel : -29.5 dB

4.9.3 Synchronized networks

In addition to the standards specified in the Agreement, the following additional standards apply to synchronized networks.

For the purpose of determining interference caused by synchronized networks, the following procedure shall be applied. If any two transmitters are less than 400 km apart, the network shall be treated as a single entity, the value of the composite signal being determined by the quadratic addition of the interfering signals from all the individual transmitters in the network. If the distances between all the transmitters are equal to or greater than 400 km, the network shall be treated as a set of individual transmitters.

For the purpose of determining skywave interference received by any one member of a network, the value of the interference caused by the other elements of the network shall be determined by the quadratic addition of the interfering signals from all of those elements. In any case, where groundwave interference is a factor it shall be taken into account.

The co-channel protection ratio between stations belonging to a synchronized network is 8 dB.

4.10 Application of protection criteria

4.10.1 Value of protected contours

Within the national boundary of a country, the protected contour shall be determined by using the appropriate value of nominal usable field strength, or as otherwise determined in Note 2 to paragraph 4.6 for class B and C stations.

4.10.2 Co-channel protection*

4.10.2.1 Daytime protection of all classes of stations

During the daytime the groundwave contour of class A, B and C stations shall be protected against groundwave interference. The protected contour is the groundwave contour corresponding to the value of the nominal usable field strength. The maximum permissible interfering field strength at the protected contour is the value of the nominal usable field strength divided by the protection ratio. The effect of each interfering signal shall be evaluated separately, and the presence of interference from other stations in excess of this permissible level shall not reduce the necessity to limit interference which would result from proposed modifications or assignments. Where the protected contour would extend beyond the boundary of the country in which the station is located, the maximum permissible interfering field strength at the boundary is the calculated field strength of the protected station along the boundary divided by the protection ratio.

4.10.2.2 Night-time protection of class A stations

The groundwave contour or the skywave contour 50% of the time, whichever is farther from the site of the protected class A station, shall be protected against skywave and possible groundwave interference during the night-time. The protected contour is the groundwave contour or skywave contour 50% of the time, whichever is farther from the station site, corresponding to the value of the nominal usable field strength. The maximum permissible interfering field strength at the protected contour is the value of the nominal usable field strength divided by the protection ratio. The effect of each interfering signal shall be evaluated separately, and the presence of interference from other stations in excess of the level permitted shall not reduce the necessity to limit interference which would result from proposed modifications or assignments. Where the protected contour would extend beyond the boundary of the country in which the station is located, the maximum permissible interfering field strength at the boundary is the calculated field strength of the protected station along the boundary divided by the protection ratio, using the value of the groundwave signal wherever the boundary crosses the primary service area and the value of the skywave signal outside the primary service area. In the case where the protected skywave contour would extend beyond the boundary, the groundwave contour shall also be protected up to the boundary. In applying 4.10.2.2, the nighttime contour of Class A stations not appearing in PARTS VI or VI-A of Annex 1 will be protected from interference calculated using Figure 4-A of Annex 2. In this case the maximum permissible interfering field strength at the protected contour shall be determined in accordance with 4.7.

* See the matrix in section 6 of Appendix 4 to Annex 2.

4.10.2.3 Night-time protection of class B and C stations

During the night-time, the groundwave contour of class B and C stations will be protected against skywave and possible groundwave interference. The protected contour is the groundwave contour corresponding to the value of the greater of the nominal usable field strength or the usable field strength resulting from the Plan as determined at the site of the protected station in accordance with 4.7. The maximum permissible interfering field strength calculated at the site of the protected station in accordance with 4.7 shall not be exceeded at the protected contour where the protected contour is located within the boundary of the country in which the station is located. Where the protected contour would extend beyond the boundary of the country in which the station is located, the protected contour shall follow that part of the boundary and have a value as calculated at the border. Where the maximum permissible interfering field strength is already exceeded at the protected contour by an existing station, any proposal for a change to that existing station shall not cause an increase in the interfering field strength at that portion of the protected contour.

4.10.2.4 Modification of assignments

If a station of one administration causes interference to a station of the other administration and such interference is permitted in accordance with the terms of this Agreement, then in the event of a modification being proposed to the assignment corresponding to the former station, it will not be necessary to protect the assignment corresponding to the latter station beyond the level provided before the proposed modification.

4.10.3 Adjacent channel protection*

During the daytime and night-time, the groundwave contour of class A, B and C station shall be protected against groundwave interference. The protected contour is the groundwave contour corresponding to the value of the nominal usable field strength determined as follows:

- for daytime protection of class A stations, the value specified in 4.6.1 for adjacent channel daytime groundwave;
- for night-time protection of class A stations, the value specified in 4.6.1 for night-time groundwave;
- for daytime and night-time protection of class B stations, the value specified in 4.6.2 for daytime groundwave;
- for daytime and night-time protection of class C stations, the value specified in 4.6.3 for daytime groundwave.

* See the matrix in section 6 of Appendix 4 to Annex 2.

The maximum permissible interfering field strength at the protected contour is the value of the nominal usable field strength divided by the protection ratio. The effect of each interfering signal shall be evaluated separately, and the presence of interference from other stations in excess of this permissible level shall not reduce the necessity to limit interference which would result from the proposed modifications or assignments.

Where the protected contour would extend beyond the boundary of the country in which the station is located, the maximum permissible interfering field strength at the boundary is the calculated field strength of the protected assignment along the boundary divided by the protection ratio.

If a station of one administration causes interference to a station of the other administration and such interference is permitted in accordance with the terms of this Agreement, then in the event of a modification being proposed to the assignment corresponding to the former station, it will not be necessary to protect the assignment corresponding to the latter station beyond the level provided before the proposed modification.

4.10.4 Protection outside national boundaries

4.10.4.1 No station has the right to be protected beyond the boundary of the country in which the station is established.

4.10.4.2 No broadcasting station shall be assigned a nominal frequency with a separation of 10, 20 or 30 kHz from that of a station in the other country if the 25 000 μV/m contours overlap.

4.10.4.3 In addition to the conditions described in 4.10.4.2, when the protected contour would extend beyond the boundary of the country in which the station is located, its assignment shall be protected in accordance with 4.10.2 and 4.10.3.

4.10.4.4 For protection purposes, the boundary of a country shall be deemed to encompass only its land area, including islands.

CHAPTER 5

Radiation Characteristics of Transmitting Antennas

5. In carrying out the calculations indicated in Chapters 2 and 3, the following shall be taken into account:

5.1 Omnidirectional antennas

Figure 1 of Chapter 3 shows the characteristic field of a simple vertical antenna as a function of its length and of the radius of the ground system. The characteristic field of an antenna with a loss-less ground system is also shown for comparison.

It is clear that the characteristic field strength increases as the loss in the ground system is reduced to zero and as the antenna height is increased up to 0.625 wavelengths.

The increased characteristic field strength for antenna lengths up to 0.625 wavelengths is obtained at the expense of radiation at high angles as shown graphically in Figure 1a and numerically in Table II of chapter 3.

5.2 Considerations of the radiation patterns of directional antennas

The procedures for calculating theoretical, expanded and augmented (modified expanded) directional antenna patterns are given in Appendix 3.

5.3 Top-loaded and sectionalized antennas

5.3.1 Calculation procedures are given in Appendices 3 & 5.

5.3.2 Many stations employ top-loaded or sectionalized towers, either because of space limitations or to vary the radiation characteristics from those of a simple vertical antenna. This is done to achieve desired coverage or to reduce interference.

5.3.3 An adminsitration using top-loaded or sectionalized antennas shall supply information concerning the tower structure of the antennas. Normally, one of the equations in Appendices 3 & 5 shall be employed to determine the vertical radiation characteristics of the antennas. Other equations may also be proposed by an administration and shall be used in determining the vertical radiation characteristics of the antennas of that administration, subject to the agreement of the other administration.

APPENDIX 1

(to Annex 2)

ATLAS OF GROUND CONDUCTIVITY*

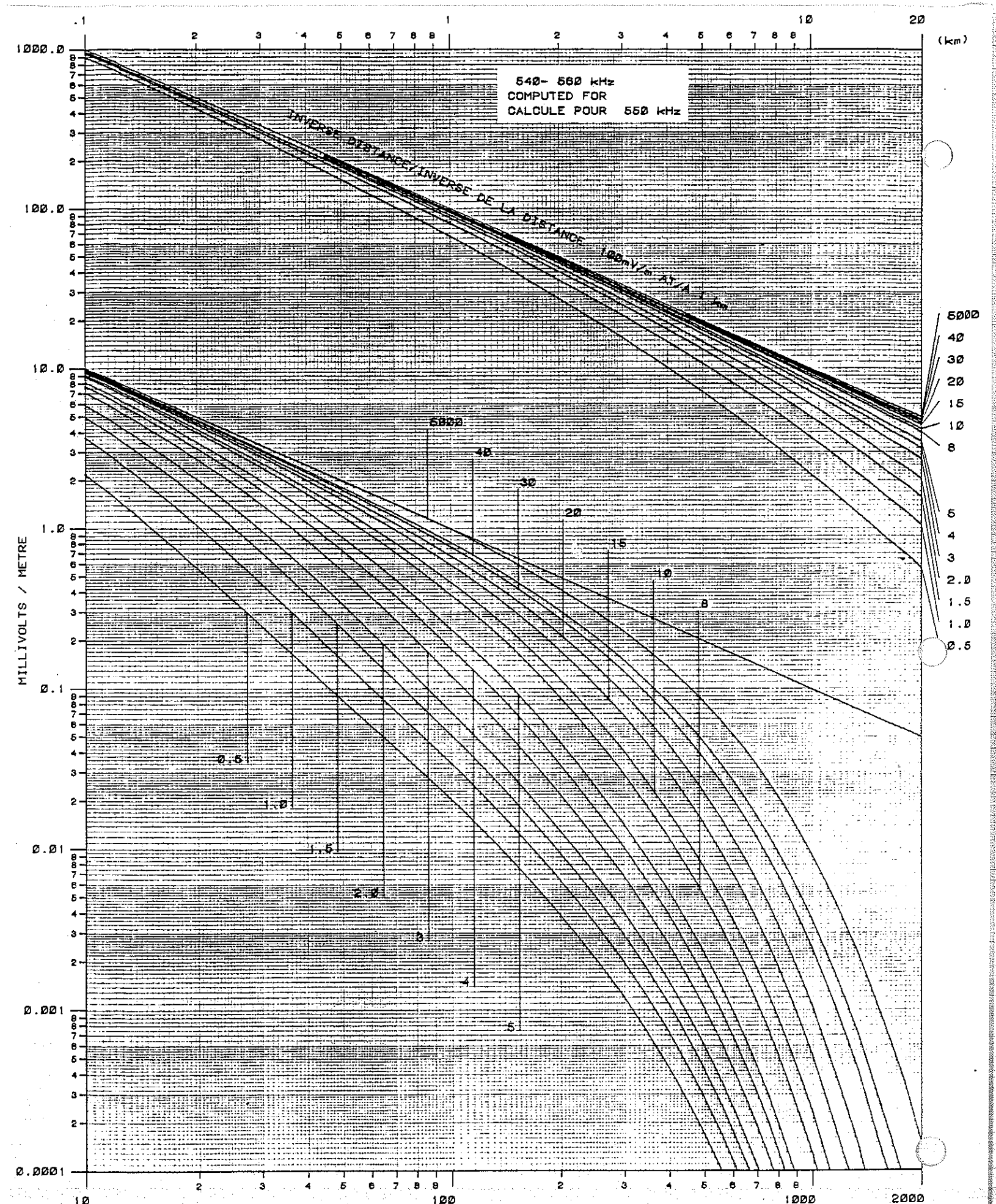
* See set of nine maps in the attached envelope

APPENDIX 2

(to Annex 2)

Field-strength curves for groundwave propagation

The curves are labelled with the ground conductivities in millisiemens/metre. All curves, except the 5000 mS/m (sea water) curve, are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.



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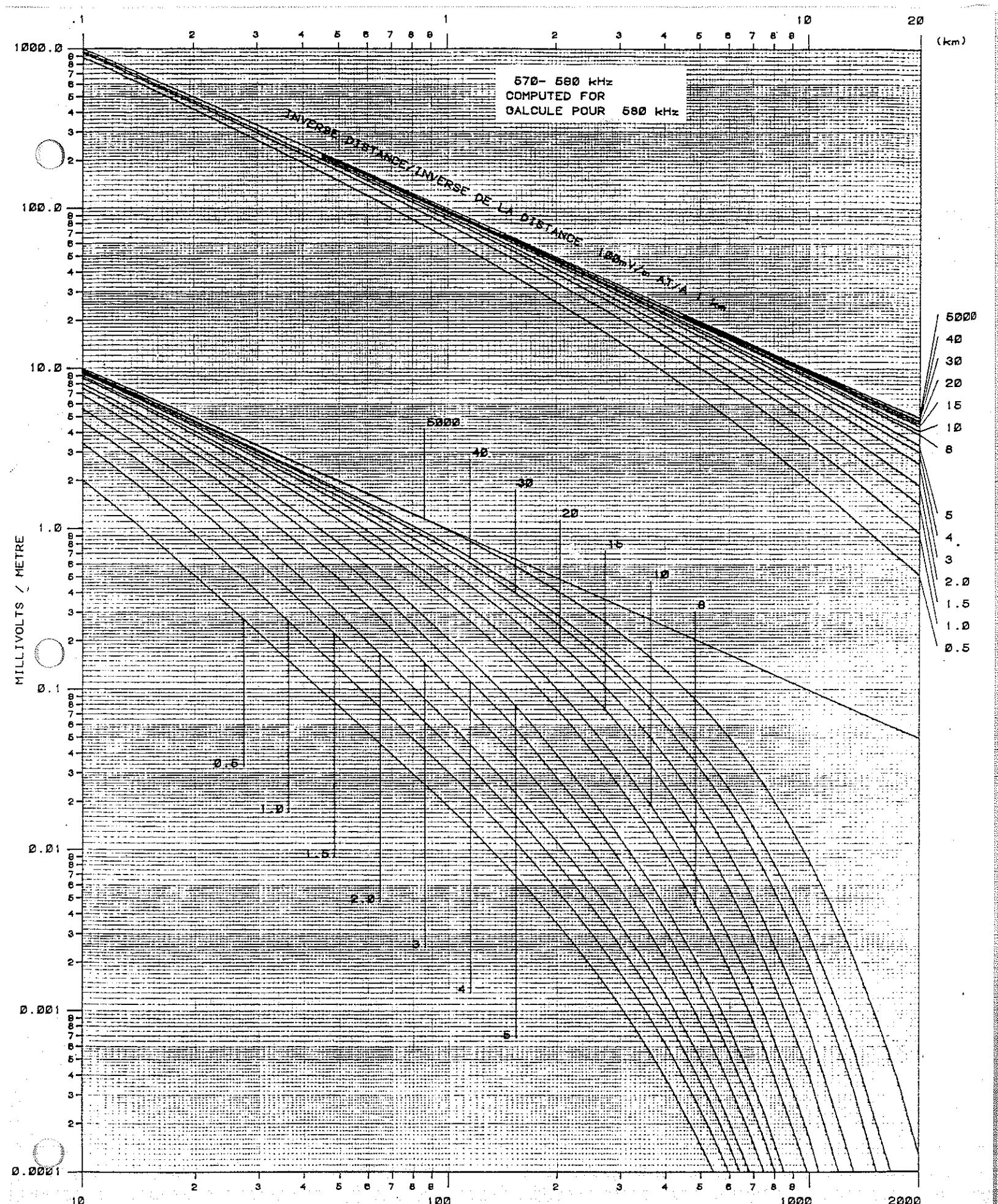
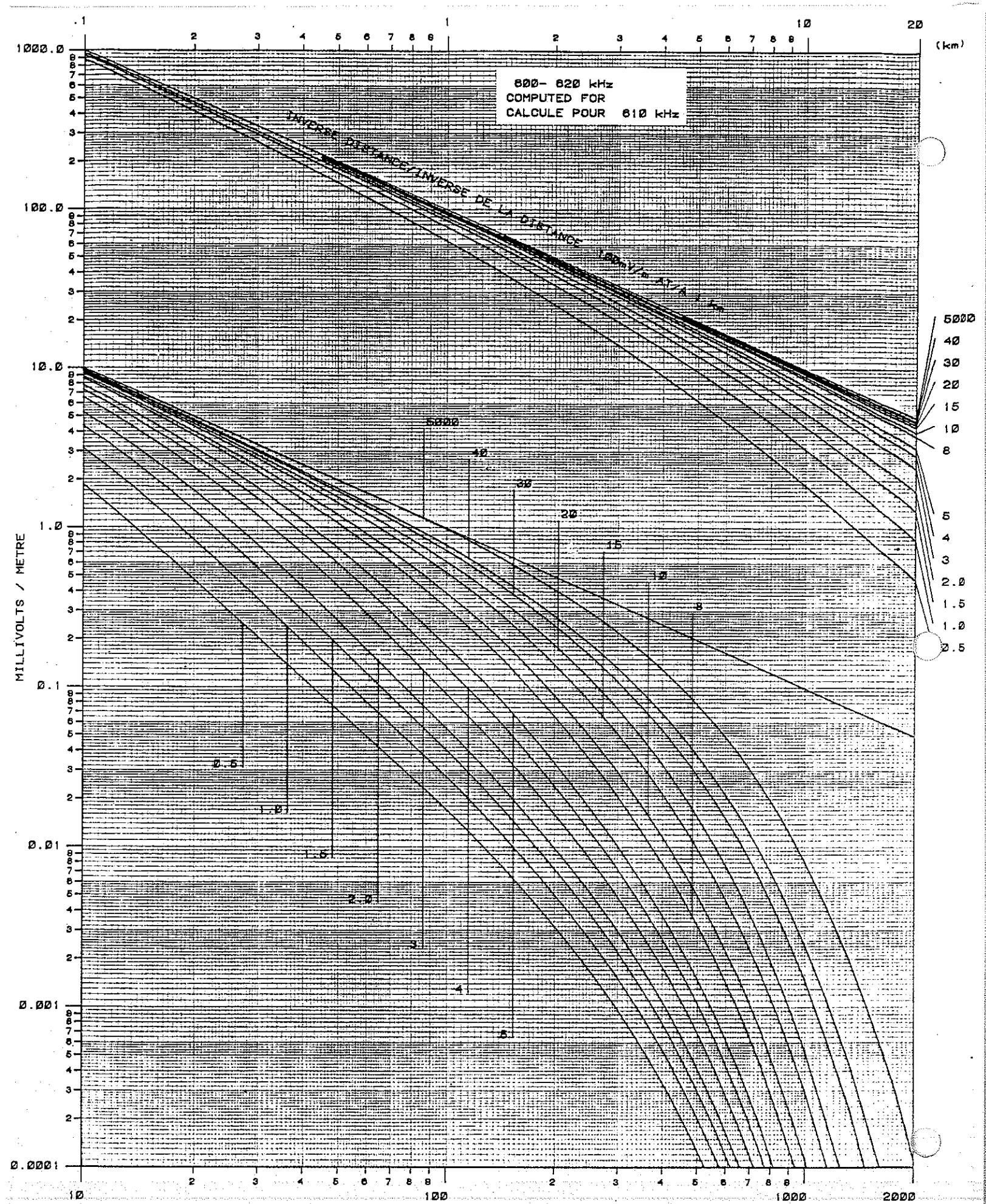
GRAPH 1 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 1 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



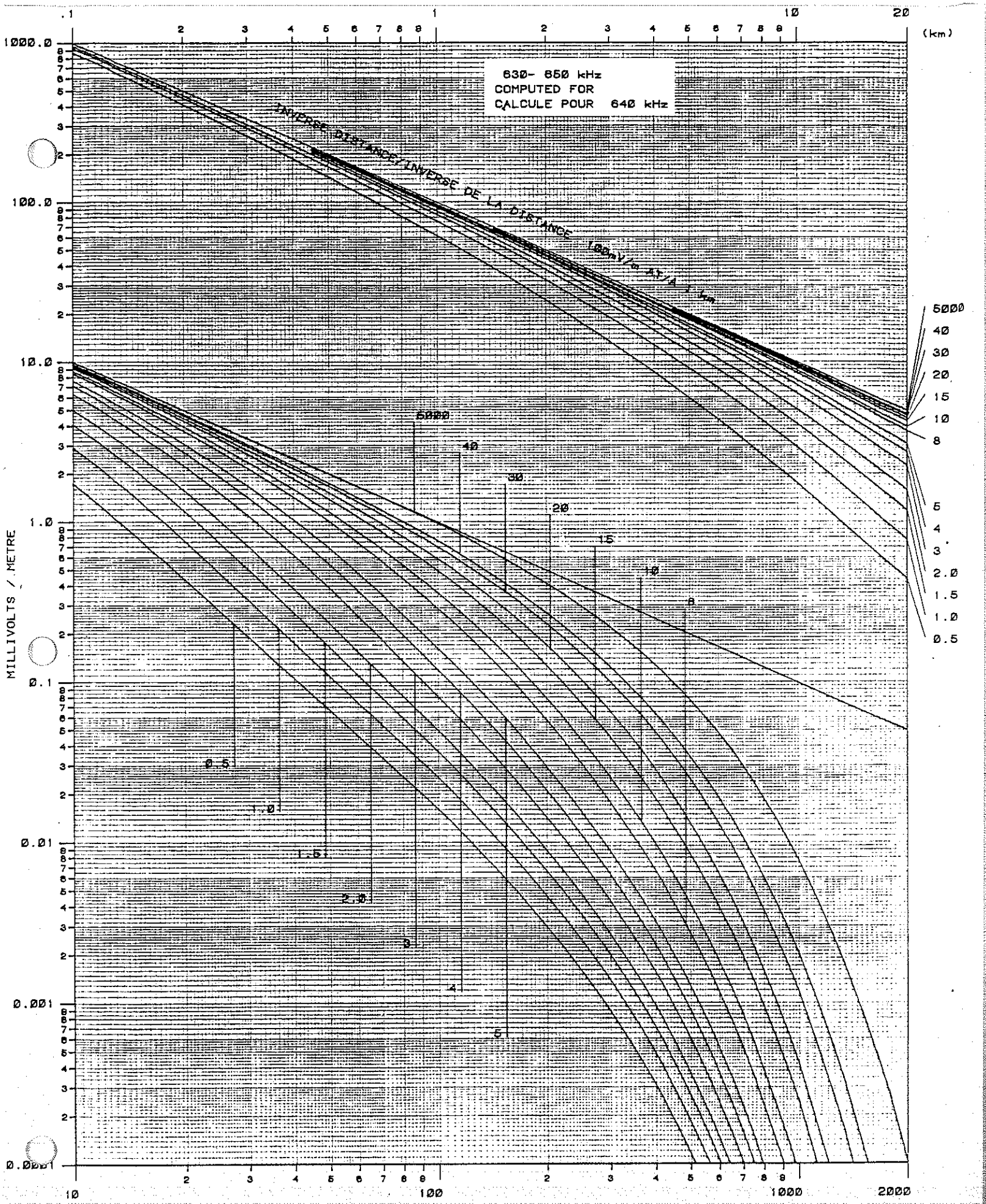
GRAPH 2 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 2 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



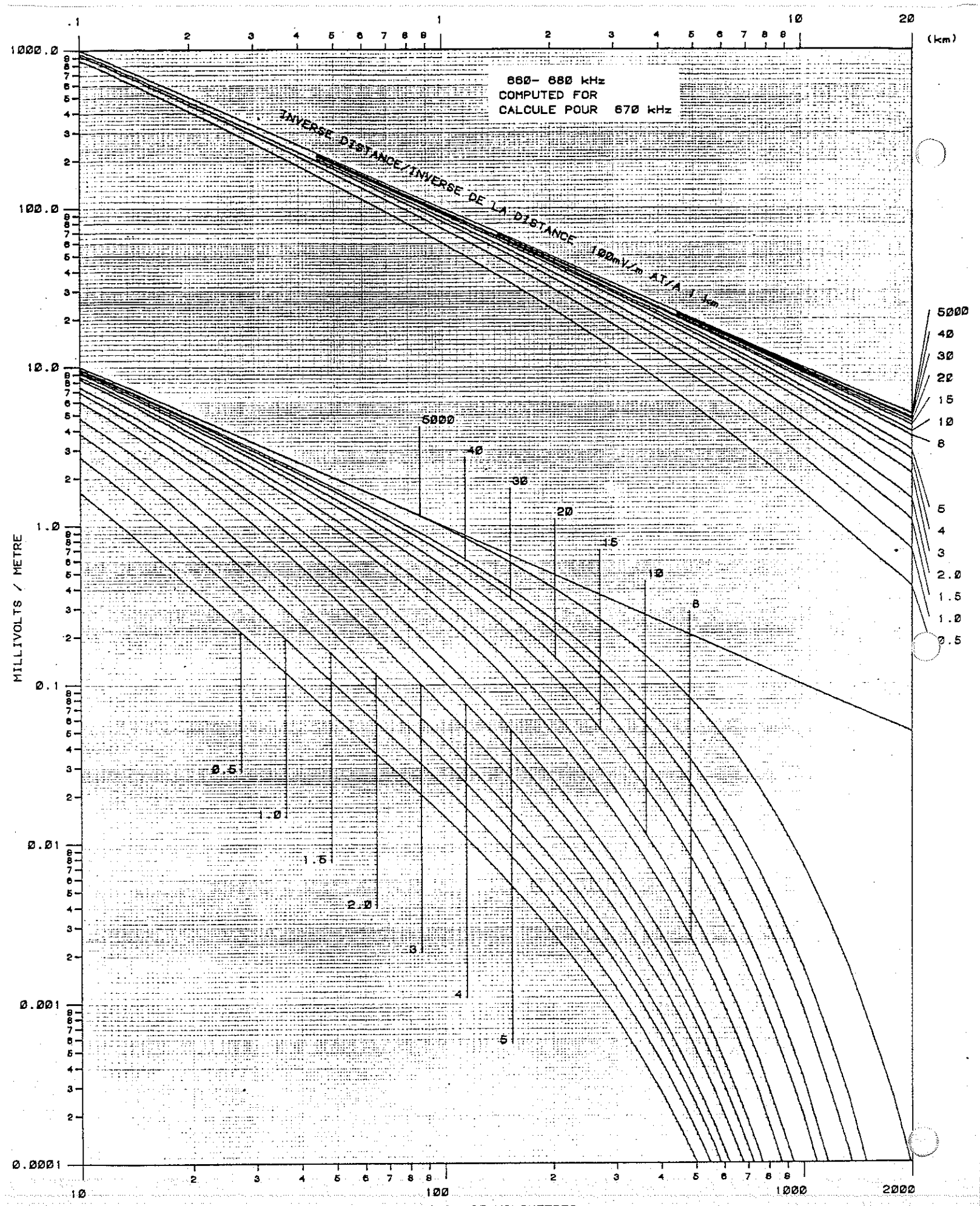
GRAPH 3 – GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 3 – CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



GRAPH 4 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 4 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



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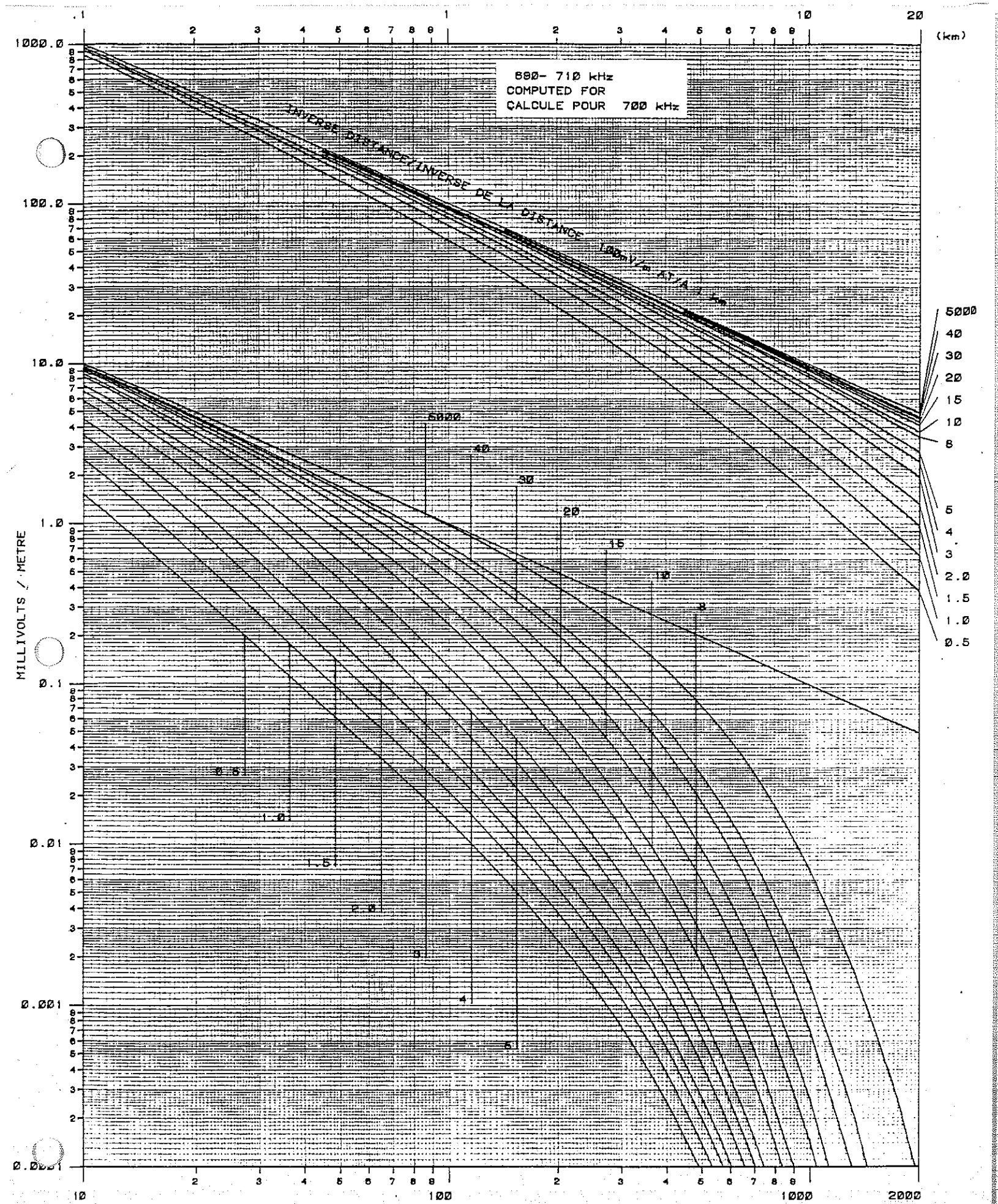
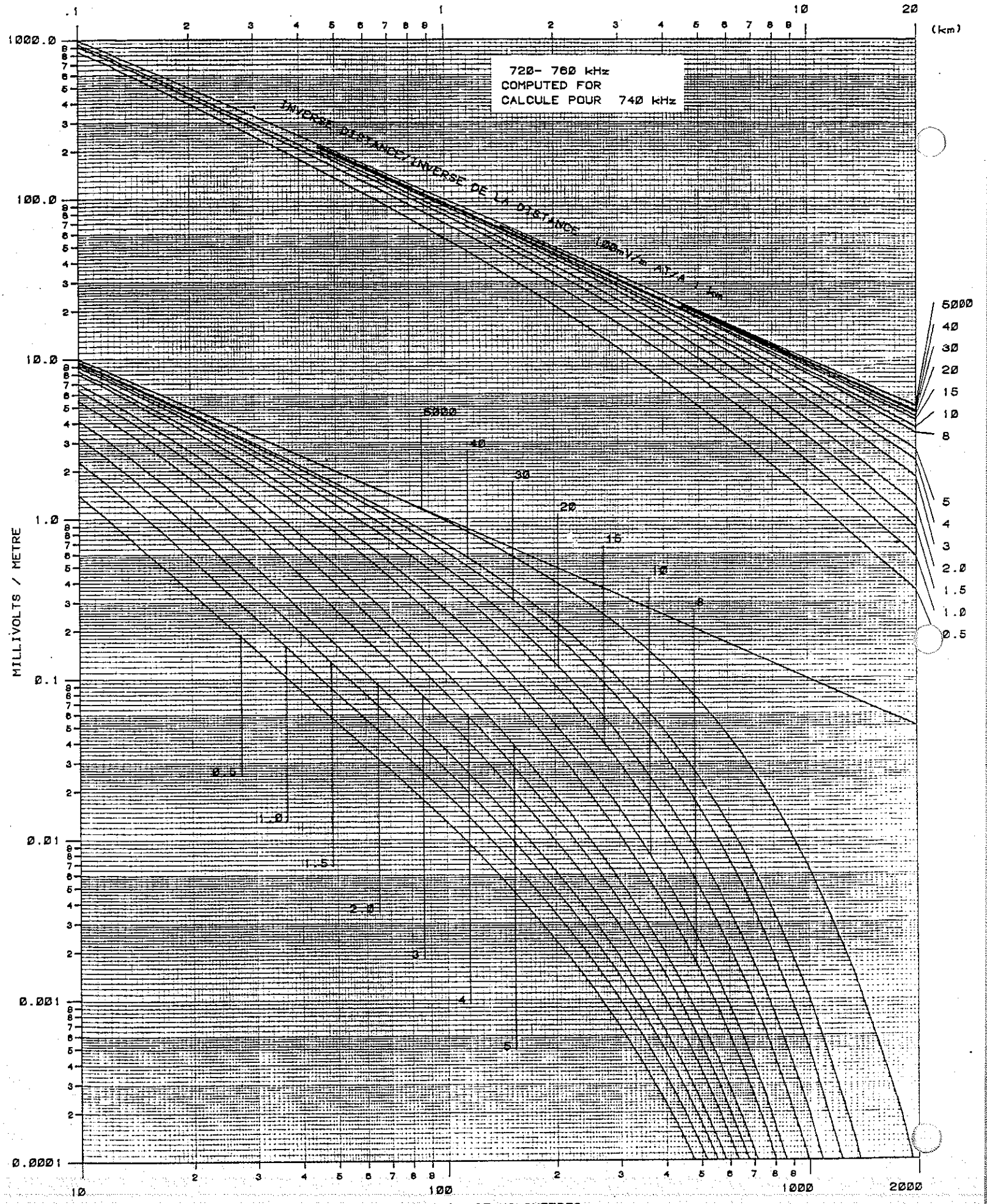
GRAPH 5 – GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 5 – CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



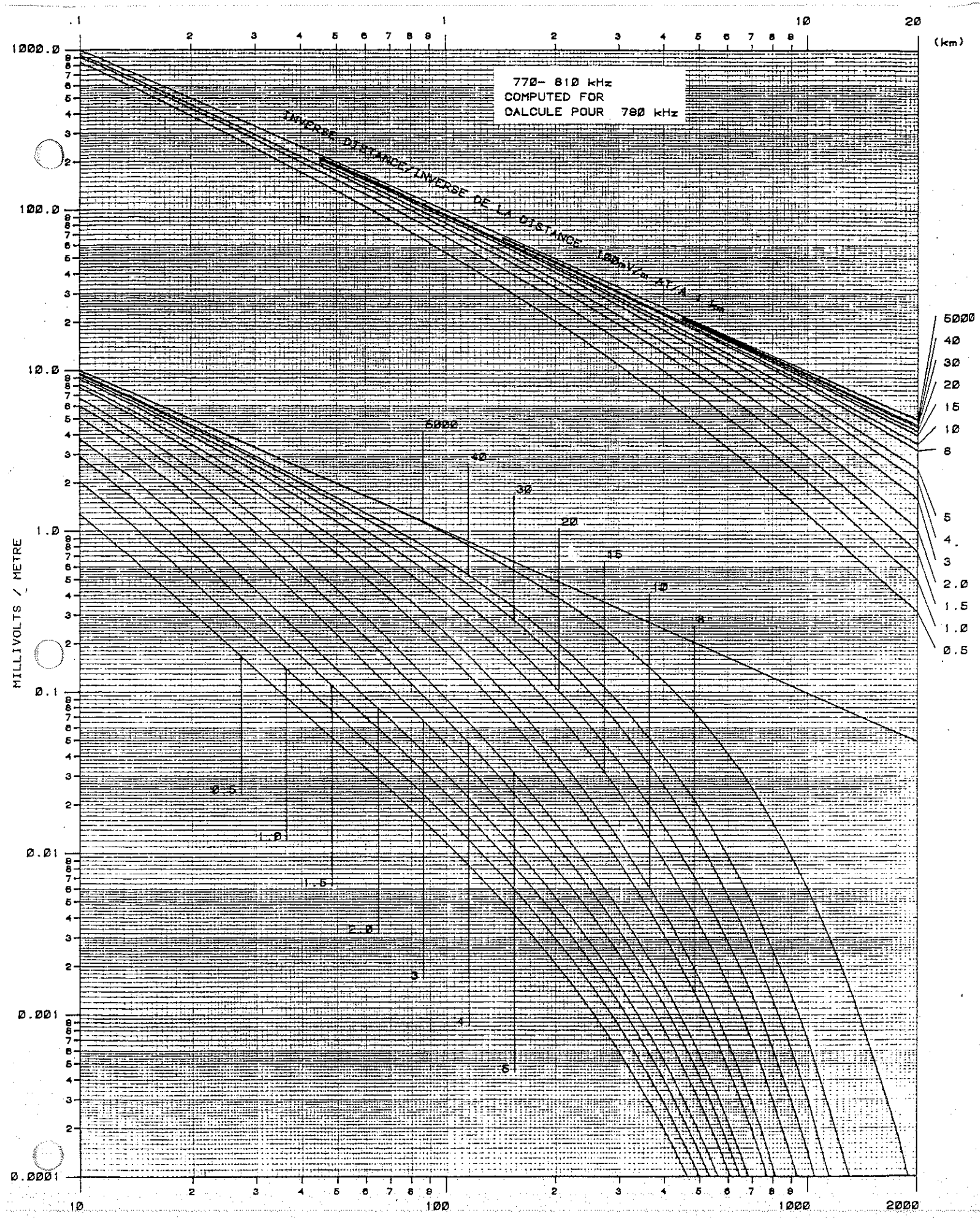
GRAPH 6 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 6 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



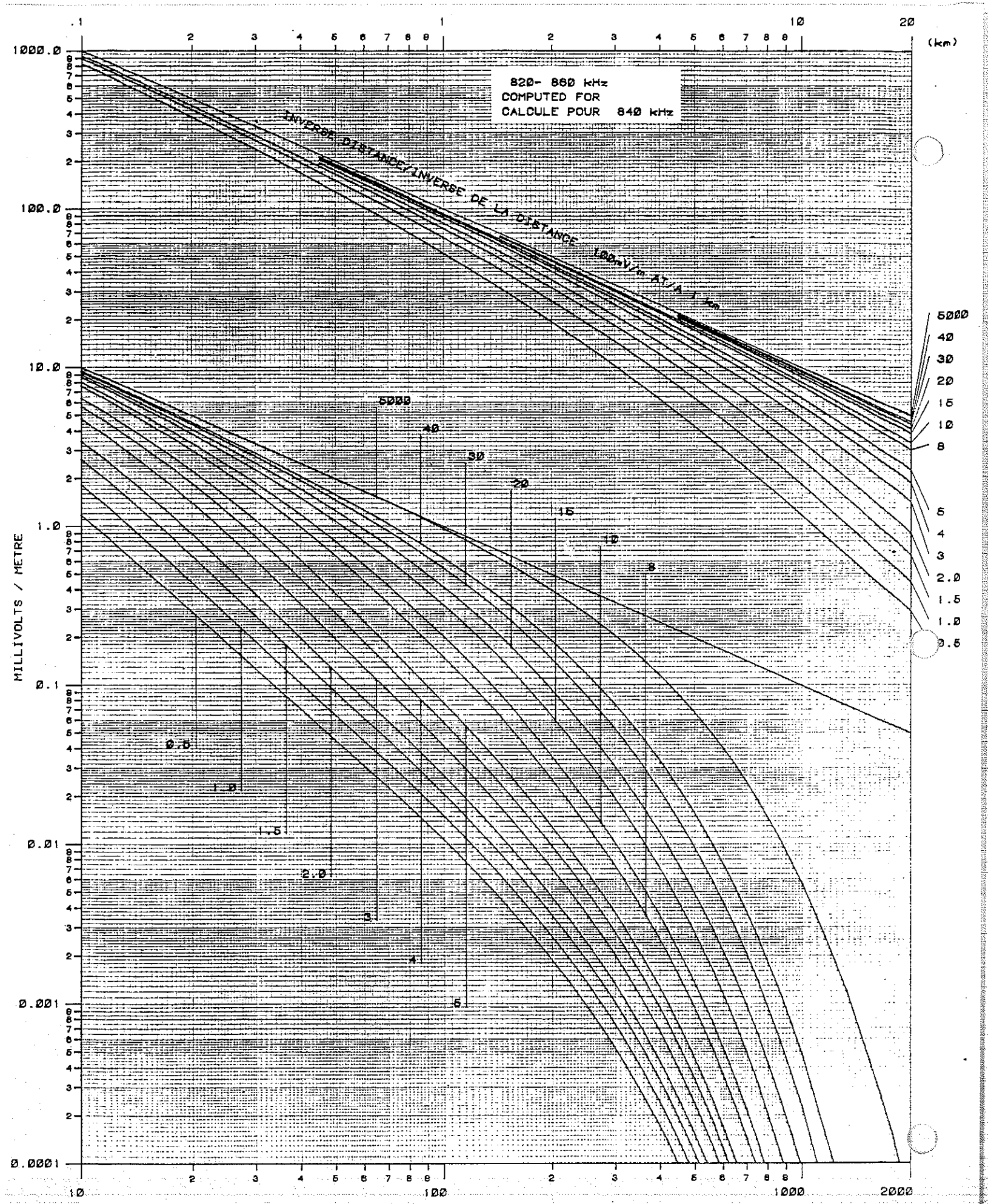
GRAPH 7 – GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 7 – CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



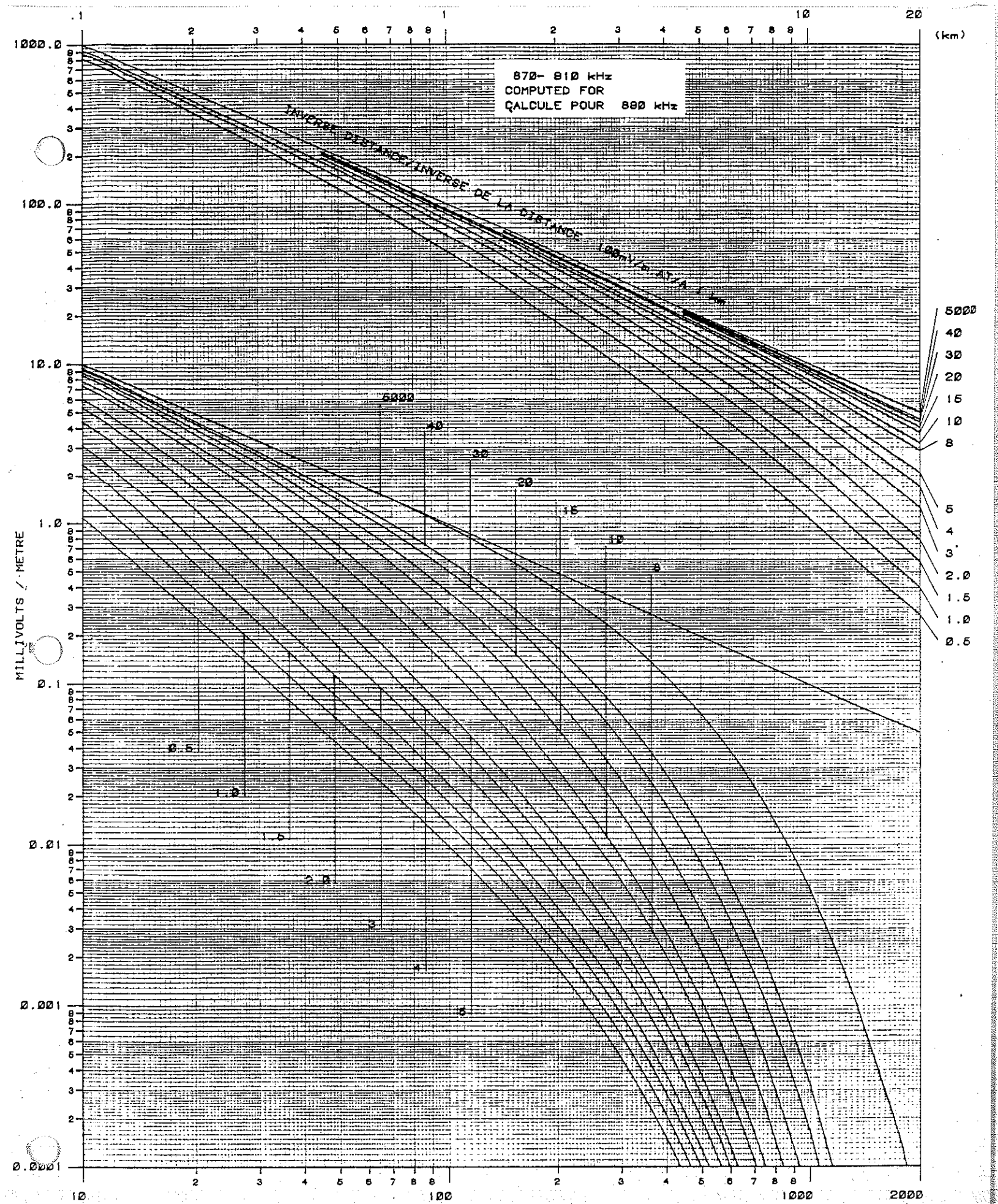
GRAPH 8 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 8 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



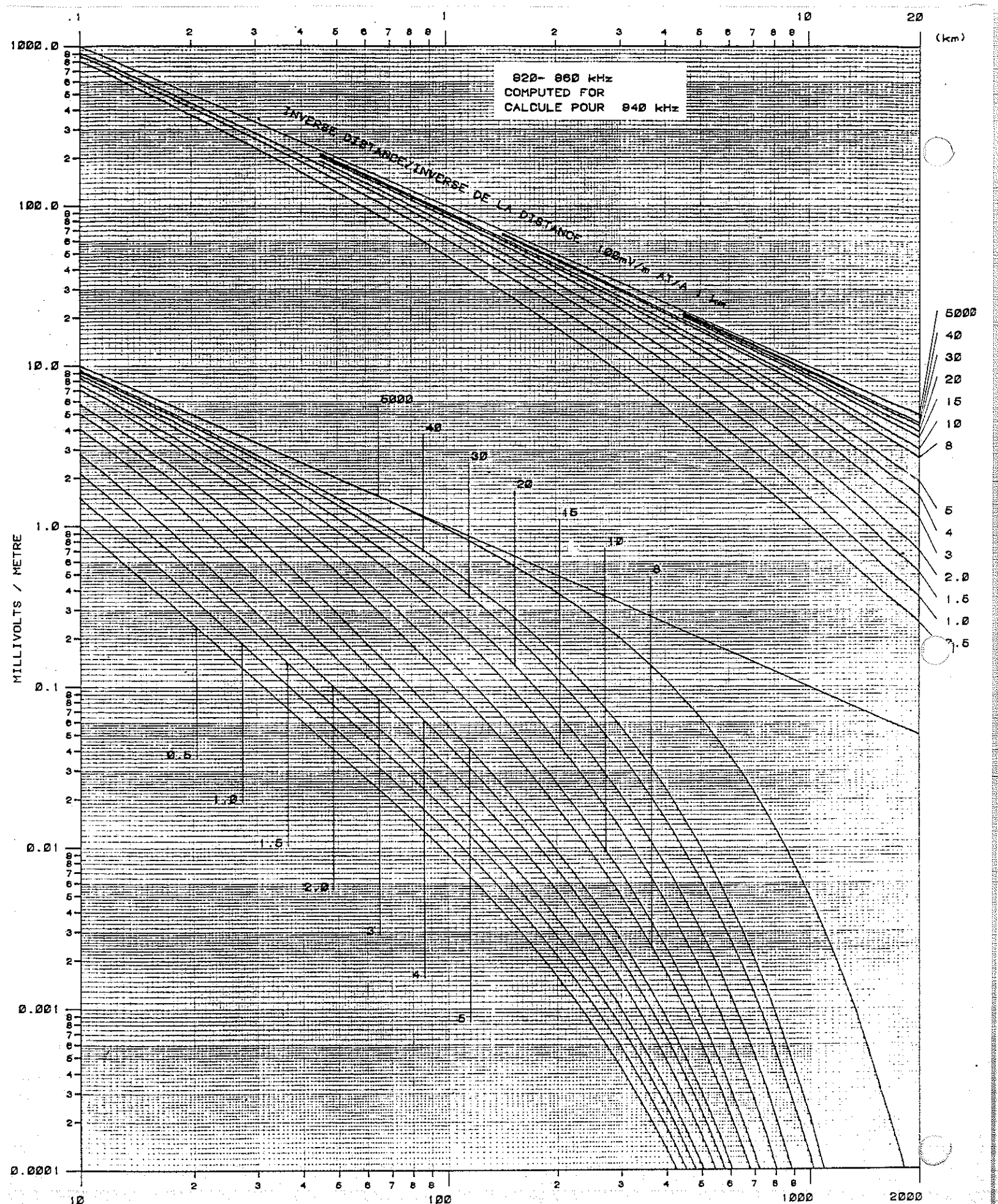
GRAPH 9 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 9 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



GRAPH 10 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 10 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



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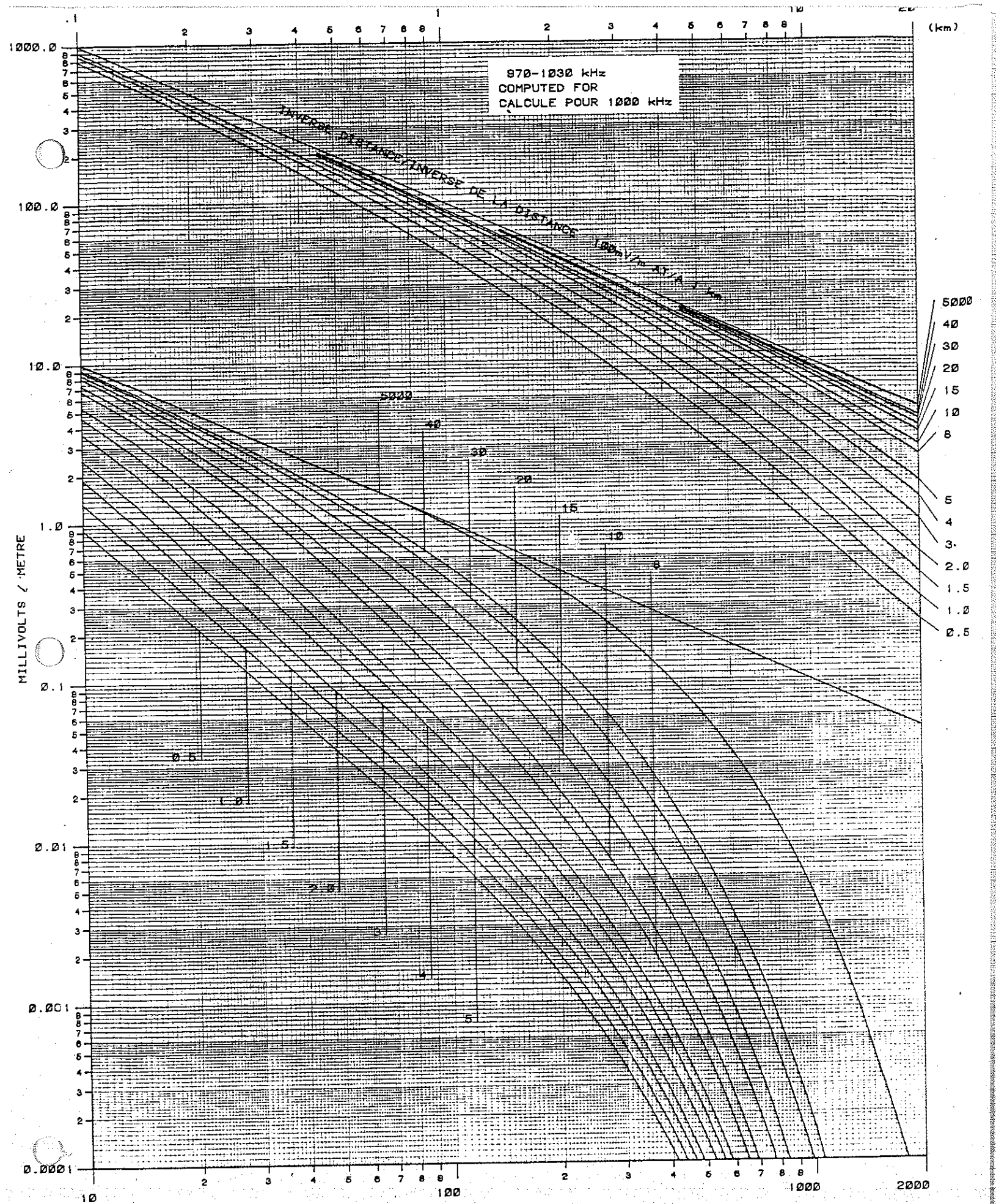
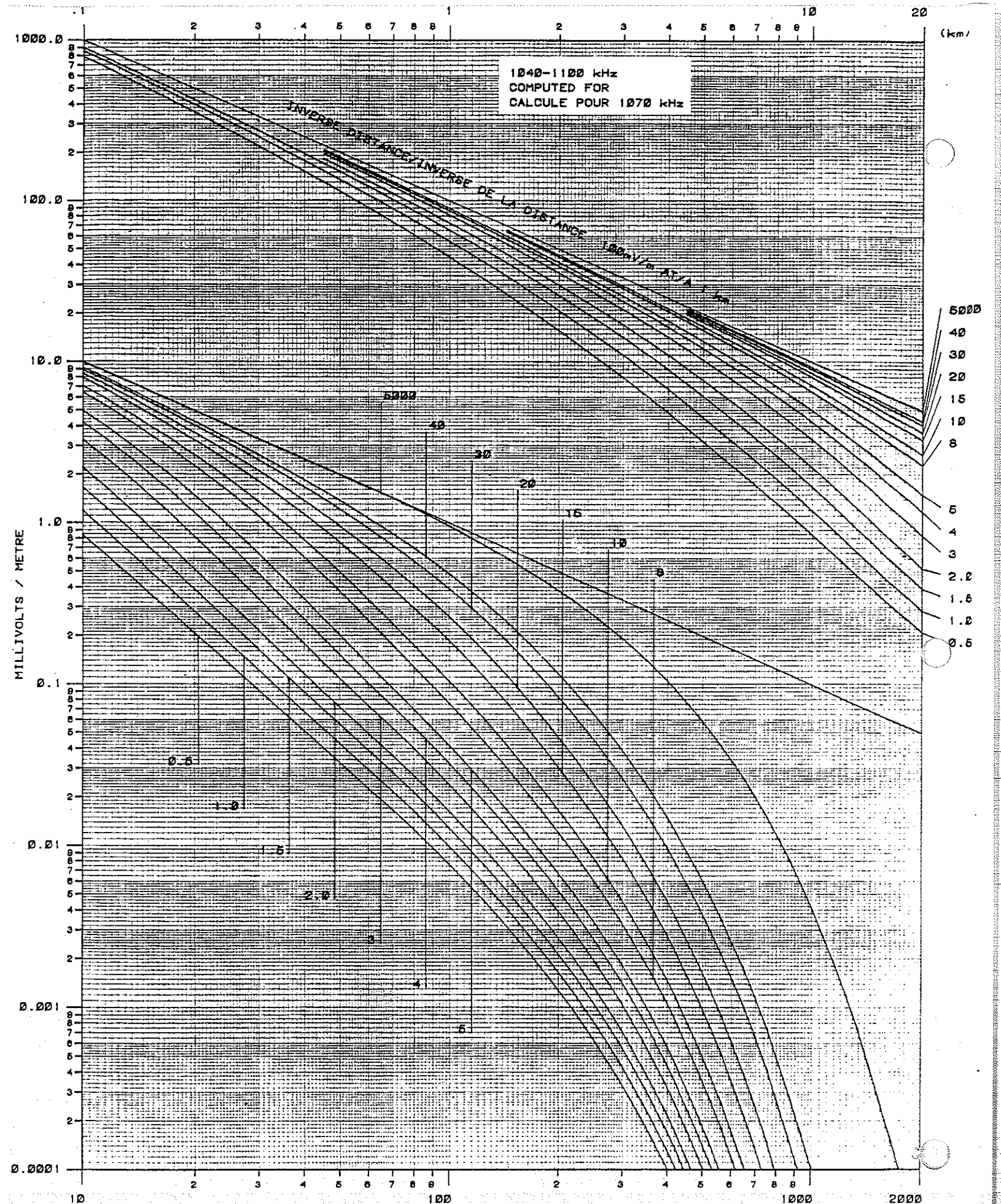
GRAPH 11 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 11 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



GRAPH 12 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 12 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



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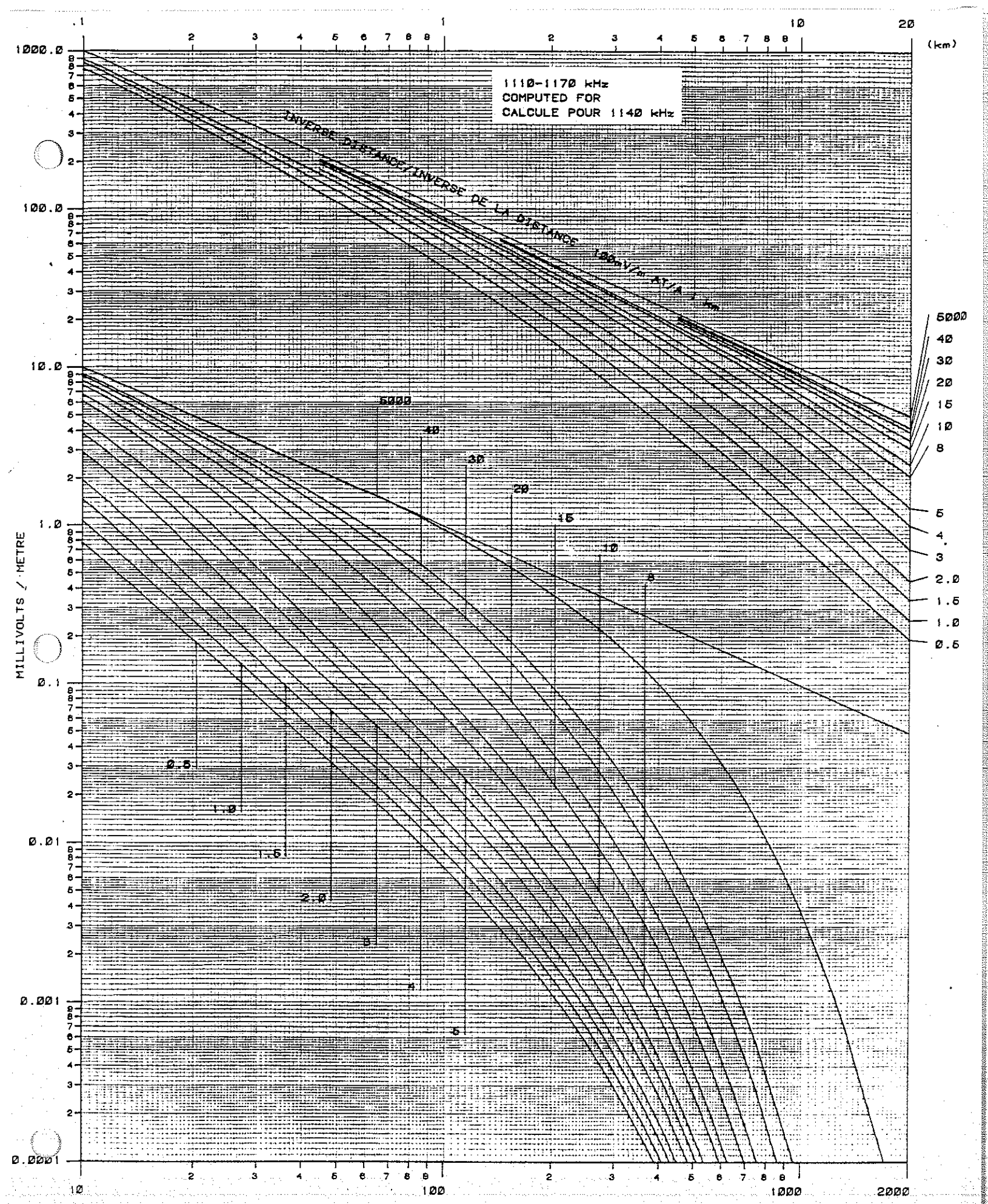
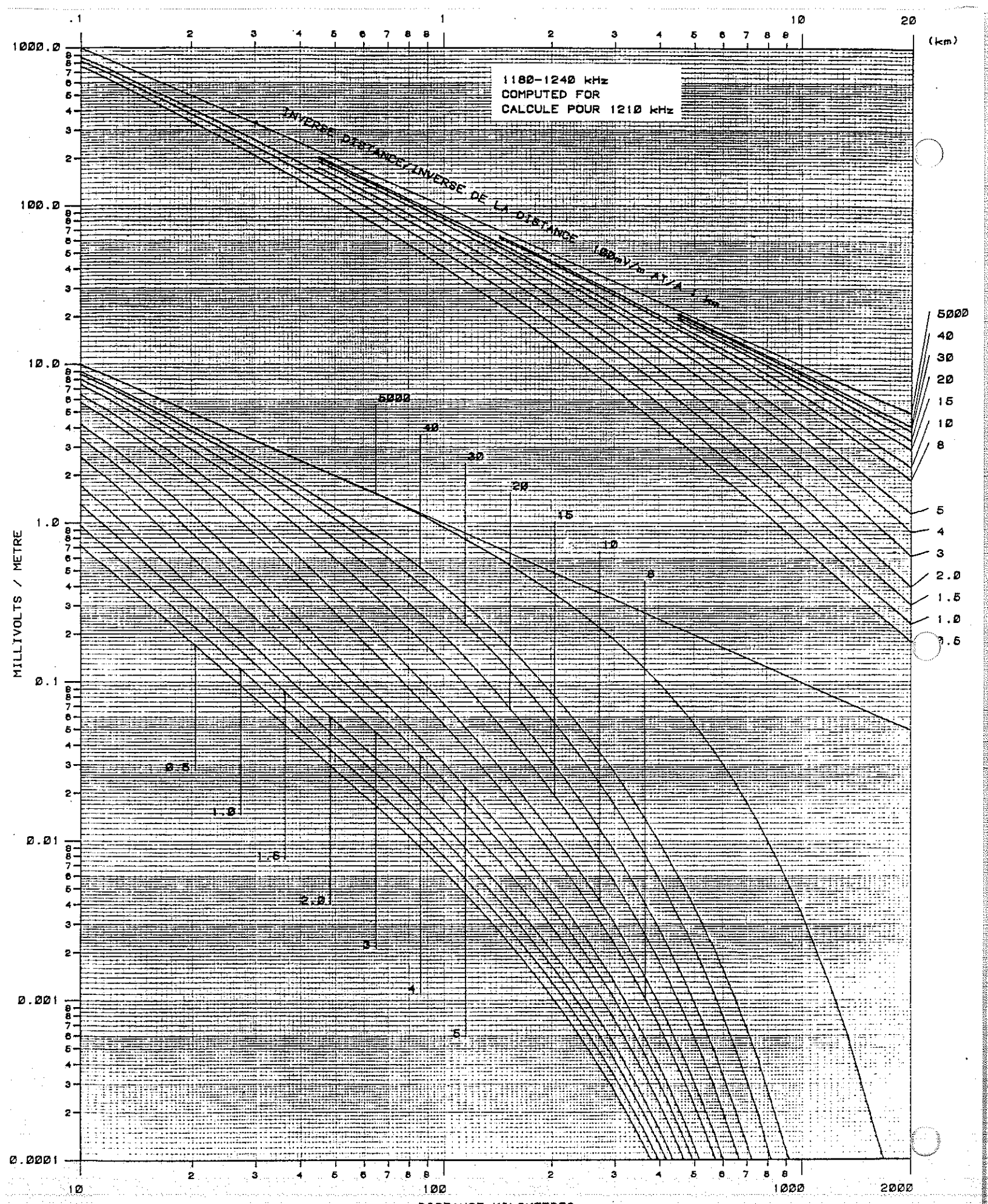
GRAPH 13 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 13 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



GRAPH 14 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 14 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



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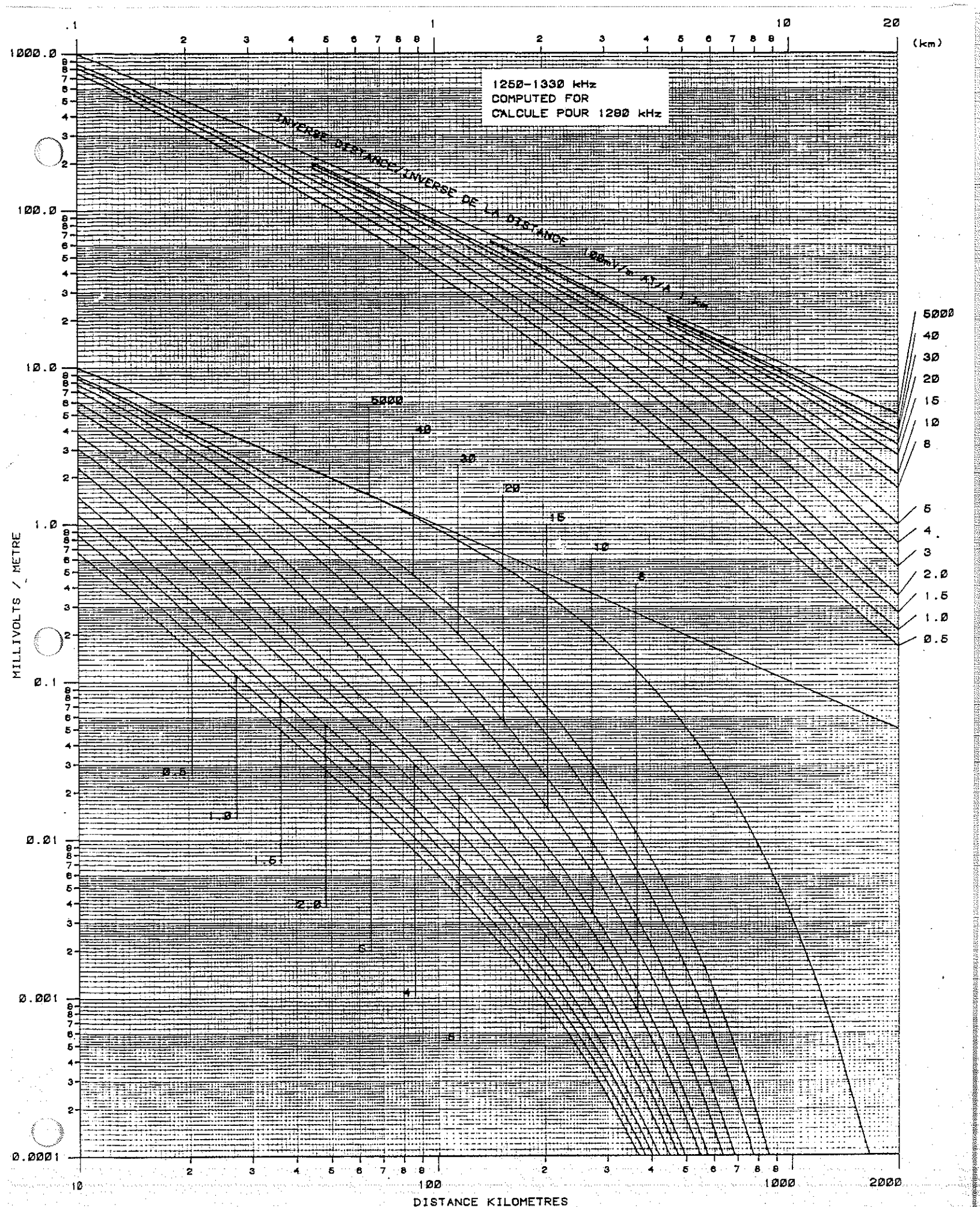
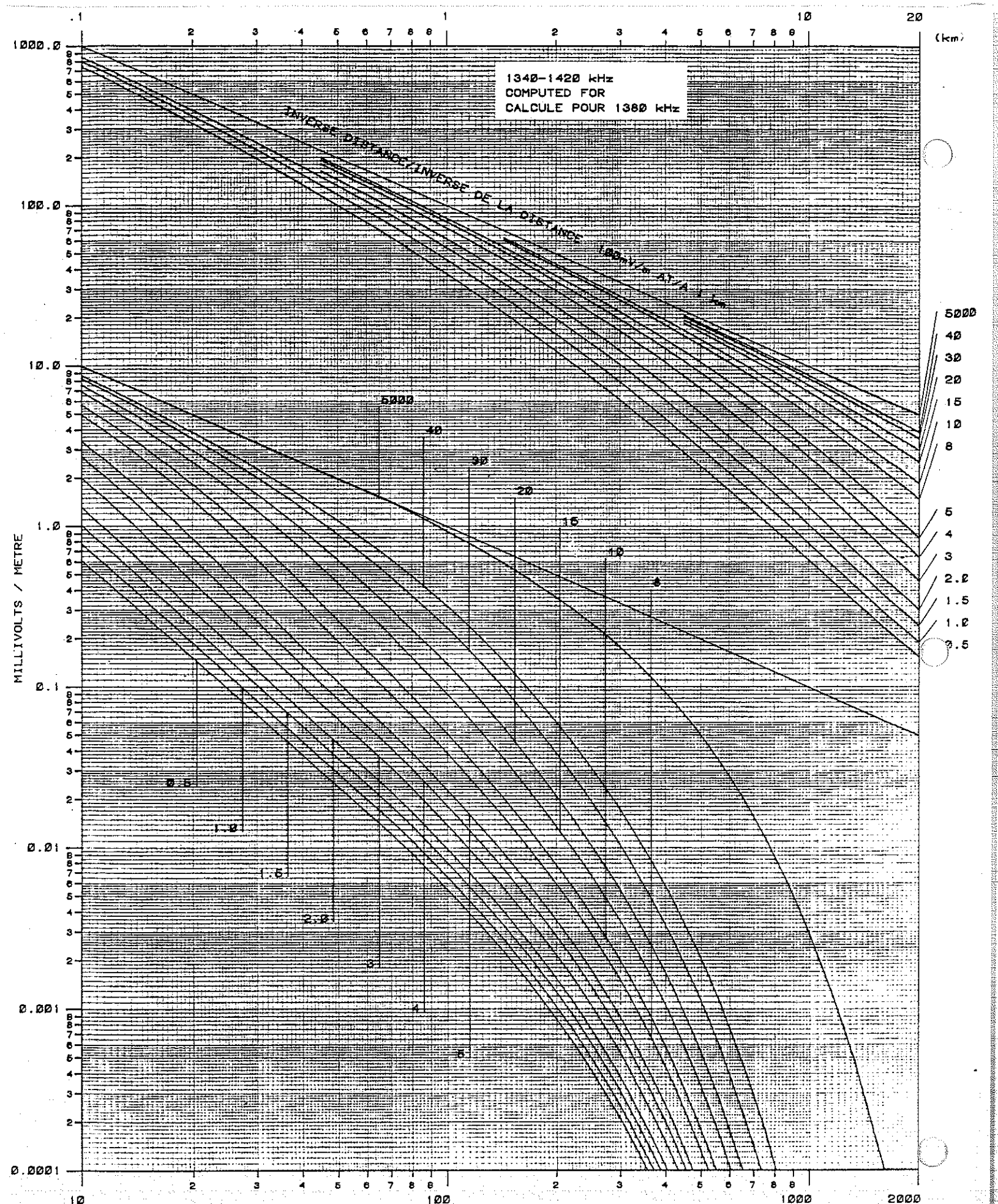
GRAPH 15 – GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 15 – CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



GRAPH 16 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 16 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



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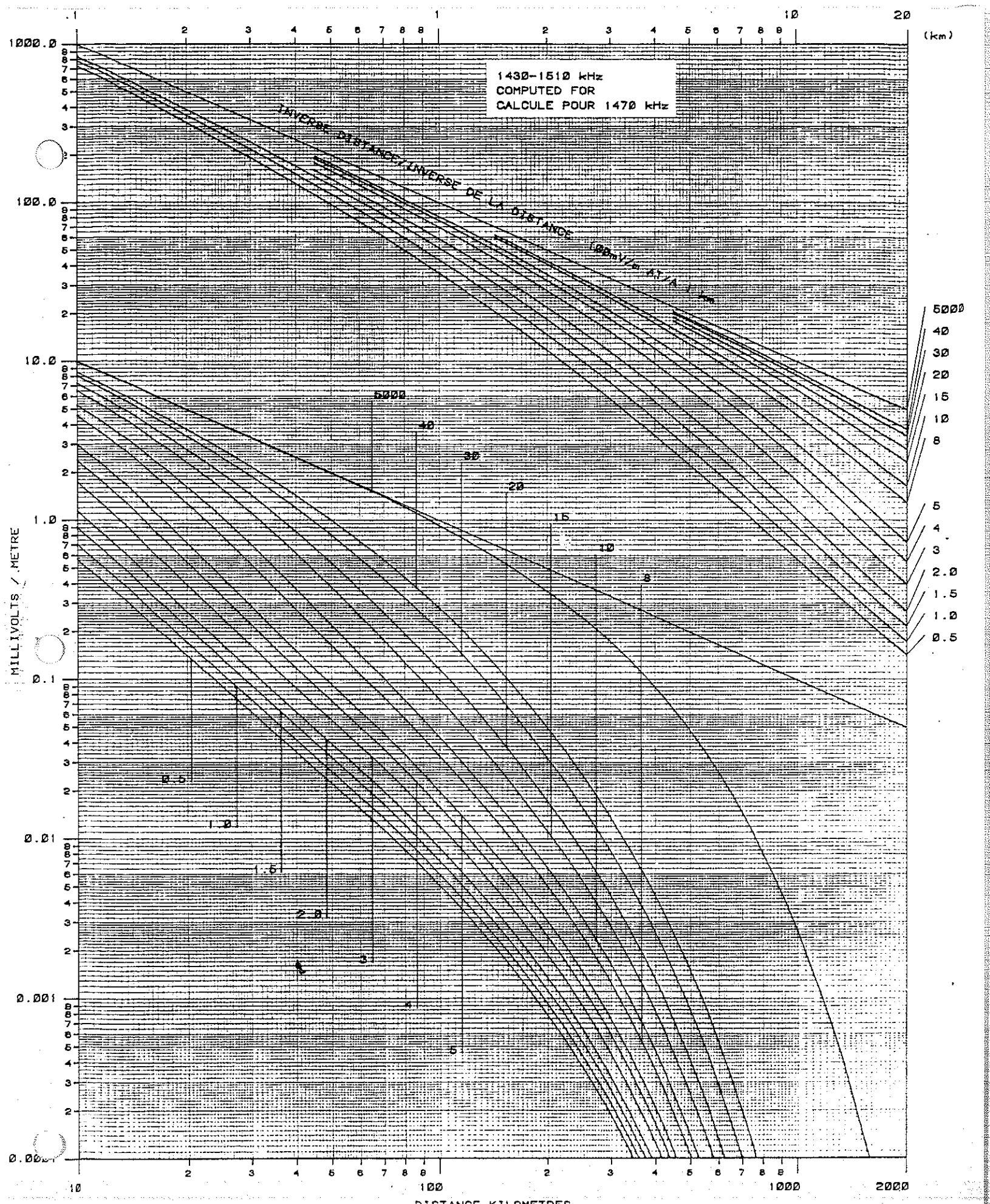
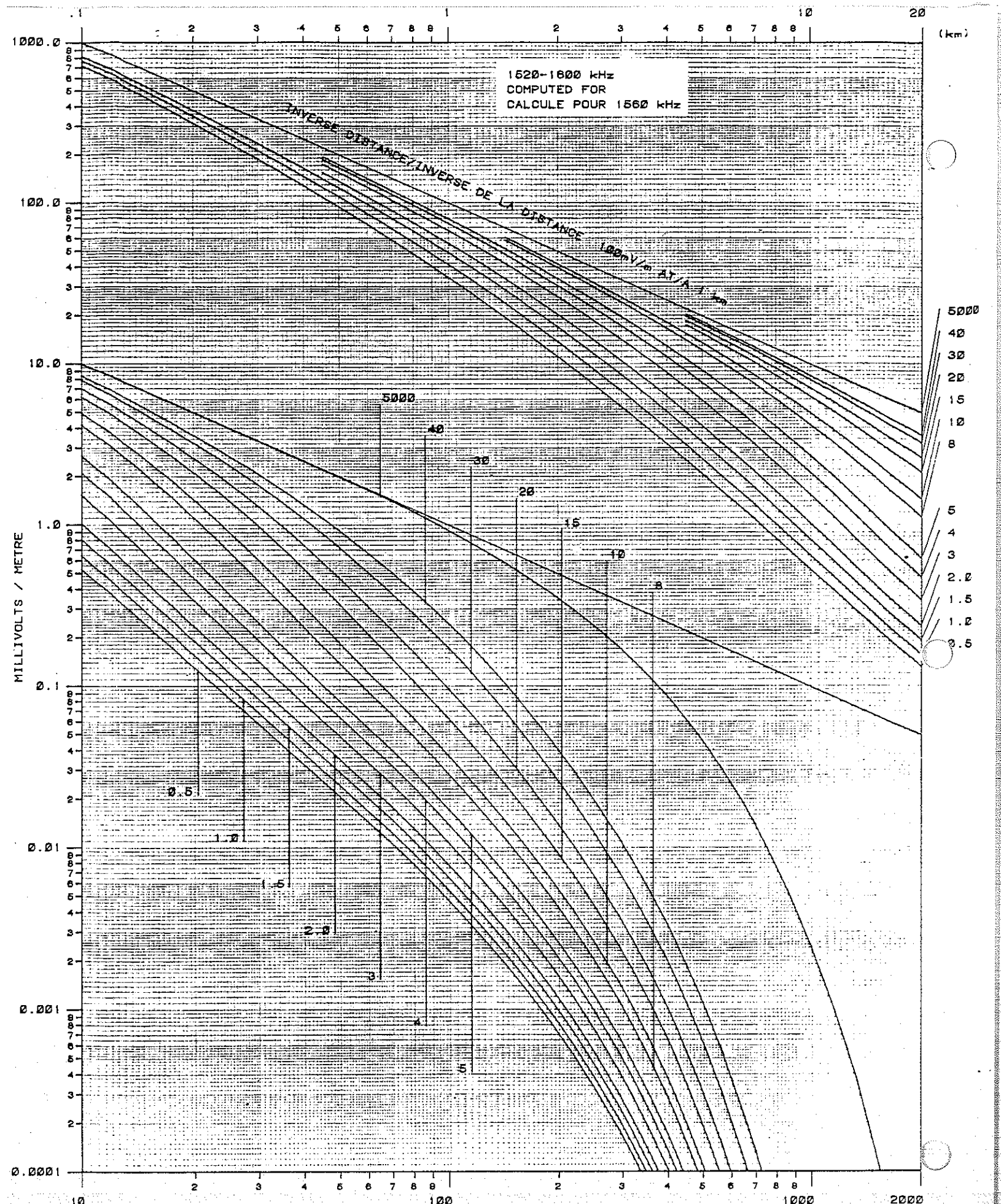
GRAPH 17 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 17 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



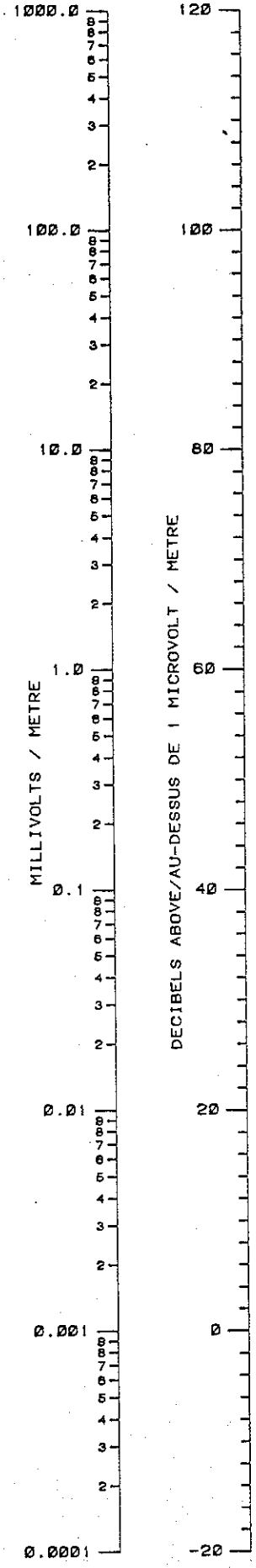
GRAPH 18 - GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 18 - CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



GRAPH 18 – GROUNDWAVE FIELD STRENGTH VERSUS DISTANCE

GRAPHIQUE 18 – CHAMP DE L'ONDE DE SOL EN FONCTION DE LA DISTANCE



GRAPH 20 - SCALE FOR USE WITH GROUND WAVE FIELD STRENGTH GRAPHS 1-18

GRAPHIQUE 20 - ECHELLE A UTILISER POUR LES GRAPHIQUES DU CHAMP DE L'ONDE DE SOL 1-18

APPENDIX 3

(to Annex 2)

Calculation of Directional Antenna Patterns

This Appendix contains the method for calculating radiation for directional antenna systems in order to determine the presence or absence of objectionable interference between stations in the two countries.

1. Definitions

The terms Theoretical Pattern, Expanded Pattern and Modified Pattern refer to directional antenna radiation patterns as defined in Attachment A to this Appendix.

2. Use of expanded patterns or modified patterns

The expanded pattern or the modified pattern shall be used for all stations with directional antenna systems for calculating values of field intensities, limits, contours and permissible values of radiation for the determination of the presence or absence of objectionable interference.

3. Coordination procedure for cases of reduced design tolerance

Assignments involving radiation patterns with reduced design tolerance as defined in Attachment A shall be coordinated between the administrations in advance of formal notification. In the coordination of such proposed assignments, the information required in Attachment B shall be submitted in addition to the information required for notification purposes in paragraph 5. Protection from objectionable interference from subsequent assignments (or proposals to modify the Plan) shall begin on the date this information is transmitted. The criteria for determining acceptable values of reduced tolerance of such proposals are defined in Attachment C which may be amended by exchange of letters directly between the administrations as prediction techniques improve. Attachment C also defines the time frame within which the coordination will be effected dependent upon the complexity of the system. If an objection to a proposal is filed within the time frame specified, the proposal shall not be notified until suitably revised and recoordinated, although protection from subsequent assignments shall be retained for up to 120 days pending revision.

4. Adjustment and maintenance of radiation patterns

The administrations shall ensure that the radiation emitted from directional stations does not exceed notified values of radiation (Expanded or Modified Patterns) in any direction toward the other country. At the time of initial adjustment, and as often as necessary thereafter, sufficient field strength measurements shall be made on each directional station to establish that it has been properly adjusted. In addition, each station shall follow a routine monitoring program whereby periodic measurements of pertinent array parameters (including field strength measurements if

required by Attachment B) are made to demonstrate that the array is maintained within authorized values.

5. Notification of technical information

The description of the directional antenna notified using the appropriate part of Annex 1 shall include all technical data necessary to calculate the Theoretical Pattern, Expanded Pattern, or Modified Pattern. It shall also include (5) values of radiation and azimuth and vertical angle to permit verification of the pattern, as well as values of the theoretical RMS radiation and "Q".

Notification of an operation with a reduced "Q" shall be clearly identified and shall include additional information in accordance with Attachment B, or shall clearly identify, by reference, any additional information previously submitted.

Attachment A

FORMULAE FOR CALCULATION OF RADIATION FROM DIRECTIONAL ANTENNA SYSTEMS

1. Theoretical Pattern

$$E(\phi,\theta)_{th} = K\sum_{i=1}^{n} F_i \, f(\theta)_i \Big| S_i \cos\theta \cos(\phi_i - \phi) + \psi_i$$

$$E_{rss} = K \sqrt{\sum_{i=1}^{n} F_i^2}$$

where

$E(\phi,\theta)_{th}$ ... is the theoretical inverse distance field radiation (mV/m) produced by the array at the horizontal angle ϕ measured from a reference aximuth and at the vertical angle θ measured from the horizontal.

E_{rss} ..... is the theoretical root - sum - square of field intensities.

n ..... is the number of towers in the array.

K ..... is a pattern sizing constant related to the notified theoretical RMS radiation of the array.

F_i ..... is the ratio of the field produced by tower i, with respect to the field produced by a reference tower in the array.

S_i ..... is the spacing in electrical degrees of tower i from a reference point.

ϕ_i ..... is the horizontal angle measured from the reference direction clockwise to a line passing through the reference point and tower i.

ψ_i ..... is the electrical phase angle in degrees of the current in tower i with respect to the phasing of current in a reference tower.

G_i ..... is the height in electrical degrees of tower i.

$f(\theta)_i$ ..... is the vertical radiation characteristic for tower i where sinusoidal current distribution is assumed.

a) For a typical uniform cross-section vertical radiator,

$$f(\theta)_i = \frac{\cos (G_i \sin \theta) - \cos G_i}{(1 - \cos G_i) \cos \theta}$$

b) for a top-loaded vertical radiator,

$$f(\theta)_i = \{\cos B \cos (A \sin \theta) - \sin \theta \sin B \sin (A \sin \theta) - \cos (A + B)\} + \{\cos \theta [\cos B - \cos (A + B)]\}$$

where:

A is the physical height of the radiator, in electrical degrees.

B is the difference, in electrical degrees, between the apparent electrical height G, (based on current distribution) and the actual physical height of the radiator.

G is the apparent electrical height: A + B.

See Figure 1.

c) for a sectionalized vertical radiator, (tower structure code 2)

$$\begin{aligned} f(\theta) = {} & \sin \Delta \ (\cos B \cos (A \sin \theta) - \cos G) \\ & + \sin B \ (\cos D \cos (C \sin \theta) \\ & - \sin \theta \sin D \sin (C \sin \theta) \\ & - \cos \Delta \cos (A \sin \theta) \\ & + \{\cos \theta [(\sin \Delta \ (\cos B - \cos G) \\ & + \sin B \ (\cos D - \cos \Delta)]\} \end{aligned}$$

where:

A is the physical height in electrical degrees, of the lower section of the radiator,

B is the difference between the apparent electrical height (based on current distribution) in electrical degrees of the lower section of the radiator and the physical height of the lower section of the radiator.

C is the physical height of the entire radiator, in electrical degrees,

D is the difference between the apparent electrical height of the radiator (based on current distribution of the upper section) and the physical height of the entire radiator. D will be zero if the sectionalized tower is not top-loaded.

$G = A + B$

$H = C + D$

$\Delta = H - A$

See Figure 2

d) Alternative formulas for use in computing $f(\theta)$ for top-loaded and sectionalized towers may be employed provided they are accompanied by a complete derivation and sample calculations, or are included in Appendix 5.

2. Expanded Radiation Pattern

$$E(\phi,\theta)_{exp} = 1.05 \sqrt{E(\phi,\theta)^2_{th} + Q^2}$$

Q is normally $0.025\ g(\theta)\ E_{rss}$ or $10.0 g(\theta)\sqrt{P_{kW}}$

whichever is greater, where P_{kW} is the station power. A lower value of Q may be notified if the criteria for reduced design tolerance in Attachment B are met. One kW will be used for stations operating with less than one kW.

If antenna height (G) is less than 180 degrees, $g(\theta) = f(\theta)$ where $f(\theta)$ is calculated using the shortest tower in the array. If antenna height (G) is equal to or greater than 180 degrees,

$$g(\theta) = \sqrt{\frac{f(\theta)^2 + 0.0625}{1.030776}}$$

where $f(\theta)$ is calculated using the shortest tower in the array.

Note: The vertical radiation formula for high towers and the shortest tower method for unequal towers apply only in the calculation of Q.

3. Modified Radiation Pattern

The Modified Pattern is a pattern developed by augmentation of the Expanded Pattern by increasing the Theoretical Pattern RMS radiation and/or by sector expansion by use of:

$$E(\phi,\theta)_{Mod} = \sqrt{E(\phi,\theta)_{Exp}^2 + A \left[g(\theta) \cos \frac{(180\ dA)}{S} \right]^2}$$

where

$E(\phi,\theta)_{Exp}$..... is the Expanded Pattern radiation at a particular azimuth and elevation, before augmentation.

$E(\phi,\theta)_{Mod}$..... is the radiation in the direction specified in $E(\phi,\theta)_{Exp}$, after augmentation.

$A = E(\phi,\theta)^2_{Mod} - E(\phi,\theta)^2_{Exp}$ where $E(\phi,\theta)_{Mod}$ and $E(\phi,\theta)_{Exp}$ are fields in the horizontal plane at the main azimuth of augmentation (θ = zero degrees).

S .... is the angular range or span over which augmentation is applied, with the span centered over the main azimuth of augmentation. Overlap of spans of augmentation is permitted.

dA ... is the absolute value of the horizontal angle between the azimuth at which the augmented pattern value is computed, and the main azimuth or center of span of augmentation. dA cannot exceed $\frac{S}{2}$.

Negative augmentation will be permitted only for the purpose of pattern conversion and shall not reduce augmented radiation below theoretical radiation.

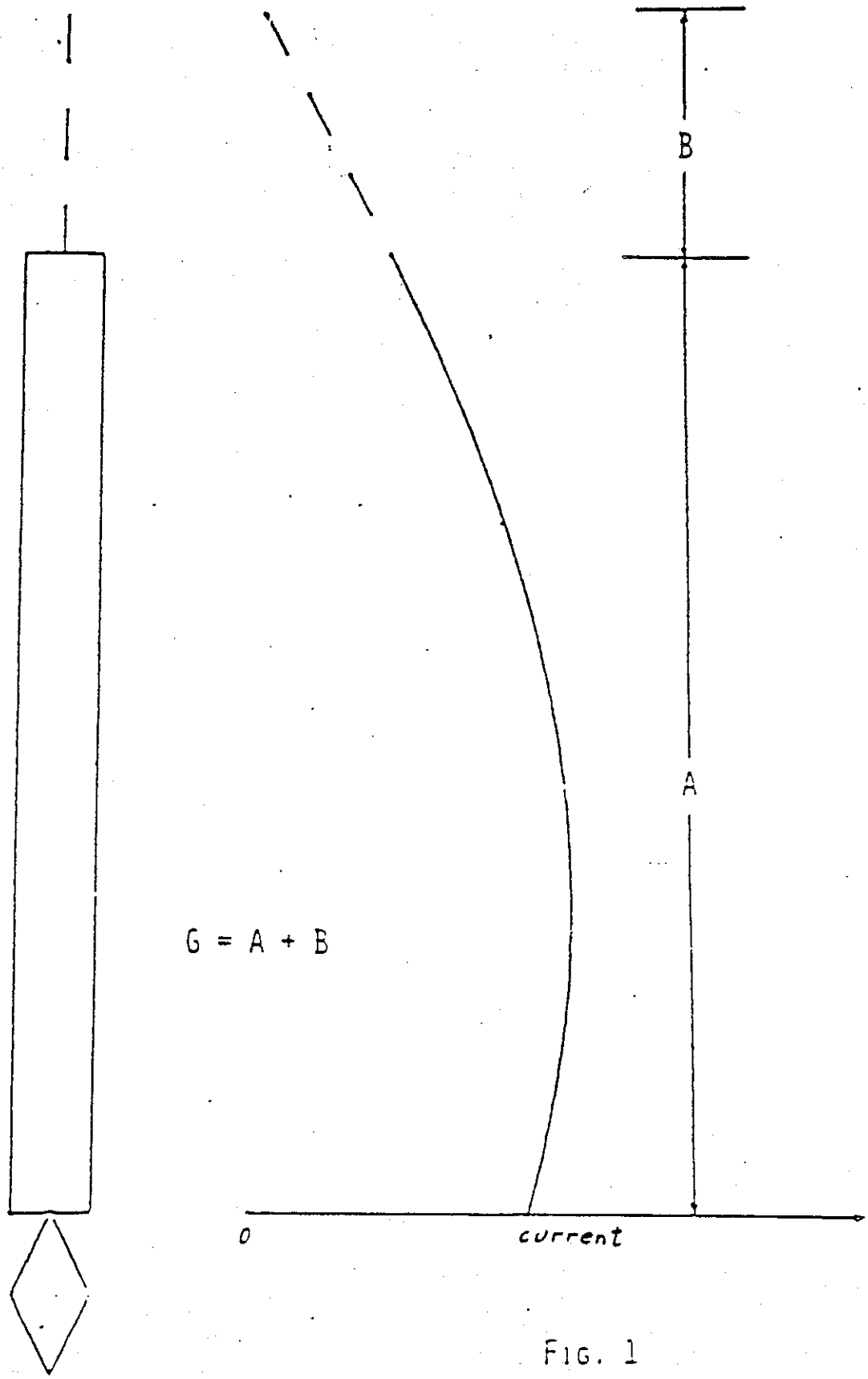


FIG. 1

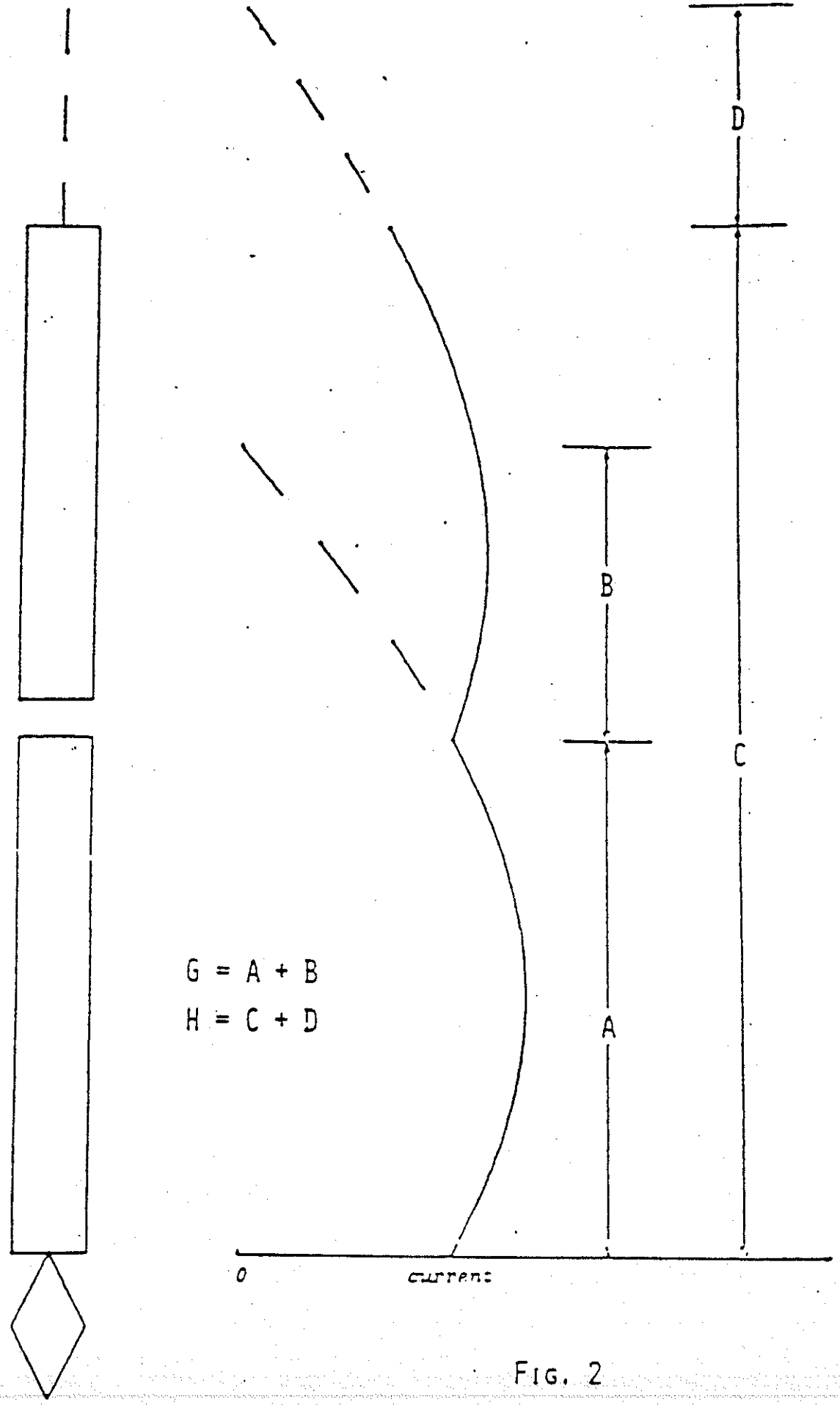


FIG. 2

Attachment B

Criteria for Reduced Design Tolerance

1. The normally notified parameters of the array, the reduced tolerance Q and the accuracy of the current and phase monitoring systems in detecting change shall be submitted, except as provided for in Attachment C.

2. Proposed radiation fields requiring consideration of a reduced tolerance (Q) below that provided for in Attachment A shall be approved only when the notifying administration has given assurance that the following precautions would be taken:

2.1 Site

The proposed antenna site must be suitable in all respects for establishment of the antenna system so that scattering or residual re-radiation from structures on or near the site would be of sufficiently low magnitude so as not to preclude the adjustments of the measured radiation pattern to within the proposed pattern.

Topographical maps of sufficient scale to reveal detailed terrain features within the immediate vicinity of the proposed transmitter site shall be submitted. Aerial photographs, taken in clear weather at appropriate altitudes and angles or photographs taken in eight different directions from an elevated position on the ground, enabling clear identification of all structures in the vicinity of the proposed site shall be submitted.

In addition, a description must be included of the physical terrain, of all metal structures, towers, transmitting facilities, power lines, railroad tracks, etc. within 2 km of the site. On highly directional arrays, distances beyond 2 km shall be considered. The details of all proposed detuning procedures shall be provided.

2.2 Array

An analysis to demonstrate that the electrical and physical design of the array would ensure the necessary stability to maintain the notified pattern is required. Such designs would require specialized equipment and components. Moreover, the design should avoid electrical parameters known to present instability problems such as operating resistances between -5 and +5 ohms, antennas other than base fed, tower spacings less than 70 degrees, and ratios of E_{rss}/E_{RMS} greater than 2.

The description of the ground system, including special features such as counter-poises if employed, would also be supplied.

A description should be included of any special methods employed to counteract or minimize the effects of climatic changes on the performance of the array.

2.3 Monitoring Systems and Adjustment of the Array

A description of the proposed current and phase monitoring system, including the electrical components and physical design details with a specific evaluation of the ultimate accuracy of the system in detecting changes in current amplitudes or phase relationships, specifically, that the phase/current sampling lines for the antenna monitor have identical physical and electrical characteristics, a low temperature/phase coefficient and have equal lengths subject to the same environmental conditions is required.

In particular, the manufacturer, model number, resolution, and accuracy of the antenna monitor shall be specified. Sample current devices used to feed the antenna monitor shall be installed at or near the current maximum of each tower of the array. A statement should be included specifying the tolerance limits within which the operation parameters (amplitude and phase) will be maintained.

An analysis to determine what levels of system deviation would cause radiation to exceed notified values in any direction toward the other country must be submitted.

The monitoring system must be capable of detecting system deviations equal to or less than half of those which would result in radiation which would exceed the proposed or notified values.

The proposed procedure for monitoring the radiation pattern in the field shall be described and the location of the monitoring points shall be specified. Monitoring points shall be located mainly at azimuths of minimum radiation (nulls) and shall have to adequately monitor the actual radiation pattern of the proposed station toward the other country. Based on the proof of performance, maximum limits of measured field strengths at these monitoring points should be established to assure maintenance of the actual radiation pattern within notified radiation limits toward the other country. The frequency of measurements at these monitoring points shall be at least weekly during the first month of station operation and at least monthly thereafter.

When monitoring point field strength or operating parameter values in excess of the tolerance limits described above are observed, the station concerned shall immediately reduce power or readjust the array to restore radiation to within authorized limits. Except for emergency operation, testing, maintenance or other temporary operation, full power operation shall not resume until the array has been properly readjusted.

2.4 Proofs of Performance

A complete proof of performance shall be conducted on all new installations and on existing installations changing radiation patterns including measurements taken in the nondirectional mode (to establish conductivity) as well as in the directional mode. Measurement point

locations for both the nondirectional and directional modes shall be identical and located along a sufficient number of radials corresponding to pattern nulls and maximums (three or more radials per major lobe) to accurately establish the radiation pattern. Where practicable, measurements along each radial should be taken at intervals of approximately two-tenth km up to three km from the antenna excluding points obviously within the induction field of the antenna system, at intervals of approximately 1 km from three to ten km and at intervals of approximately 3 km from ten to 30 km from the antenna. The results should be carefully analyzed utilizing the ground wave field strength curves from Annex 2 for the appropriate frequency.

Attachment C

Guidelines for the Co-ordination of Proposed AM Broadcasting Stations Involving Reduced Design Tolerance

1. Time Frame to Effect Co-ordination

Except for systems rated as "slightly below standard tolerance", the time frame to respond may vary from 60 to 150 days depending on the complexity of the proposed system. A method to rate systems by degree of complexity shall be developed. In the meantime, the administration submitting the proposal will estimate the time required to reply. This estimated time period may be extended by mutual consent at the request of the other administration if further information is required or if the extent of study required has been underestimated.

2. Submission of Information

Except for systems rated as "slightly below standard tolerance", the information referred to in attachment B paragraph 1 shall be transmitted.

3. Determination of Acceptable Values of Reduced Tolerance

In cases involving values of radiation less than those provided by the expanded pattern, expected values of radiation above theoretical radiation values shall be calculated using the two computer routines currently used in both administrations which calculate "stability radiation patterns" for a given variance of phase angles and field ratios. The values of variation used in the routines shall be at least twice the expected resolution of the antenna monitoring system. For systems rated "slightly below standard tolerance", the values of variation will be one degree in phase and one per cent in field ratios. Grounds exist for objection whenever using either routine, the resultant value of radiation in the pertinent directions exceeds that notified.

4. Systems Slightly Below Standard Tolerance

A system is considered slightly below standard tolerance if the reduced quadrature component Q in the horizontal plane is less than $10\sqrt{P_{kW}}$, but greater than $0.025\ E_{rss}$, as these terms are defined in Attachment A, and there would be no interference calculated with a one degree variation in phase and a one per cent variation in field ratios. These systems would be expected to be sited at locations relatively free from sources of re-radiation, to have adequate precautions taken to minimize effects of temperature variation, and to undertake satisfactory monitoring. However, the approval of the system and the assurance of maintenance within tolerance shall be the responsibility of the notifying Administration only and the submission of the information referred to in attachment B will not be required. The data specified in Part II of Annex 1, plus the reduced Q, shall be referred at least 30 days in advance of notification. If the administration receiving the proposal does not concur with the "slightly below standard tolerance" rating, it shall advise the notifying administration by telex or telephone, providing the reason for its opinion and requesting a different rating. If the notifying administration is unable to show that the "slightly below standard tolerance" rating is appropriate, it shall: provide information as in Attachment B, or provide a revision to make the rating appropriate or withdraw the proposal.

APPENDIX 4

(to Annex 2)

Additional Technical Information

This Appendix contains additional technical material and examples of methods of calculation which may be of assistance.

1. Examples of field strength calculations for homogeneous paths (see paragraph 2.3.1 of Annex 2)

a) Determination of the electrical field strength at a given distance from a station

Consider a station with a power of 5 kW at 1 240 kHz. The antenna has a characteristic field strength for 1 kW of 306 mV/m.

The field strength at a distance of 40 km is to be determined for a conductivity of 4 mS/m throughout the path.

From graph 15 (1 180 - 1 240 kHz) we obtain a field strength of 45.5 dB (μV/m) which corresponds to 188 μV/m from the curve corresponding to 4 mS/m.

Therefore

$$E = E_o \times \frac{E_c \sqrt{P}}{100} = \frac{188 \times 306 \sqrt{5}}{100} = 1286\,\mu V/m \text{ or } 62.2 \text{ dB } (\mu V/m)$$

b) Determination of the distance at which a given field strength is obtained

On the basis of the data from the preceding example, at what distance can a field strength of 500 μV/m or 54 dB (μV/m) be obtained?

Since the antenna involved has a characteristic field strength for 1 kW of 306 m/Vm and the station power is 5 kW, i.e. conditions different from those of graphs 1 to 19 (100 mV/m at 1 km), the field strength value must be determined before referring to the corresponding graph.

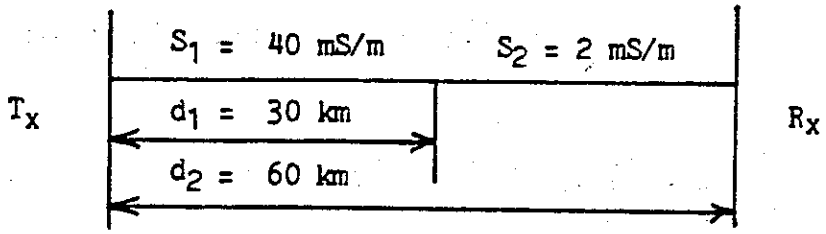
The calculated value is

$$E_o = \frac{100E}{E_c\sqrt{P}} = \frac{100 \times 500}{306 \times \sqrt{5}} = 73.1\,\mu V/m \text{ or } 37.3 \text{ dB } (\mu V/m)$$

Taking the corresponding curve at 4 mS/m in graph 15, we arrive at 37.3 dB (μV/m) at 62 km.

2. Example of a field strength calculation for non-homogeneous paths (see section 2.3.2 of the technical data)

Consider the following path:



a) For a 25 kW station at 1 000 kHz and an antenna with a characteristic field strength of 100 mV/m, what field strength is obtained at 60 km?

In graph 12 we obtain on the 40 mS/m curve a field strength of 69 dB (μV/m) or 2.8 mV/m at the point of discontinuity (30 km).

We obtain the same field strength at 9.5 km (d=9.5 km) on the 2 mS/m curve.

The equivalent distance for d_2 = 60 km, is $d + (d_2 - d_1)$ = 9.5 + (60-30) = 39.5 km.

From the 2 mS/m curve, we obtain a field of 43 dB (μV/m) for 1 kW or 141 μV/m at 39.5 km.

Lastly, we calculate the field strength:

$$E = E_0 \times \frac{E_c \sqrt{P}}{100} = 141 \times \frac{100 \times \sqrt{25}}{100} = 705\,\mu V/m$$

b) Taking the preceding example, at what distance will the 500 μV/m contour be?

First we determine the field strength:

$$E_0 = \frac{100E}{E_c \sqrt{P}} = \frac{100E}{100\sqrt{25}} \times 500 = 100\,\mu V/m$$

Following the 40 mS/m curve of graph 12, we note that at 30 km the field strength is 69 dB (μV/m) or 2.8 mV/m. This value is higher than the one we seek (0.1 mV/m) and therefore we shall have a distance greater than 30 km.

The equivalent distance for a 2 mS/m conductivity is 9.5 km.

following the 2 mS/m curve, we find the 100 μV/m or 40 dB (μV/m) contour at 46 km giving us the equivalent distance. The true distance is 46 + (30 - 9.5) km = 66.5 km.

3. Path parameters

If a_T and b_T respectively are the latitude and longitude of the transmitting terminal, and a_R and b_R are those of the receiving terminal, the parameters of the short great-circle path may be calculated. The North and East coordinates are considered positive and the South and West coordinates negative.

3.1 Great-circle path distance

$$d = 111.18 \times d^o \quad \text{km}$$

where

$$d^o = \arccos \left[\sin a_T \sin a_R + \cos a_T \cos a_R \cos (b_R - b_T) \right]$$

3.2 Azimuth of the path from either terminal

For the transmitting terminal, for example,

$$\alpha_T = \arccos \frac{\sin a_R - \cos d^o \sin a_T}{\sin d^o \cos a_T}$$

determined such that $0^o \leqslant \alpha < 180^o$. The geographical bearing in degrees East of North to the receiving terminal is α_T if $\sin (b_R - b_T) \geqslant 0$ or is $(360^o - \alpha_T)$ if $\sin (b_R - b_T) < 0$. The same equation, with the latitudes reversed, is used for the receiving terminal.

3.3 Coordinates of a point on a given great-circle path at a distance, d, from a transmitter:

$$a = \arcsin \left[\sin a_T \cos d^o + \cos a_T \sin d^o \cos \alpha_T \right]$$

$$b = b_T + k$$

where

$$d^o = \frac{d}{111.18} \quad \text{km}$$

$$k = \arccos \left(\frac{\cos d^o - \sin a_T \sin a}{\cos a_T \cos a} \right), \text{ if } \sin (b_R - b_T) \geqslant 0$$

$$k = - \arccos \left(\frac{\cos d^o - \sin a_T \sin a}{\cos a_T \cos a} \right), \text{ if } \sin (b_R - b_T) < 0$$

Note that the transmitting location was used in these equations for a and b, but alternatively the receiving location may be used.

4. Example illustrating the application of the 50% exclusion principle (see section 4.7.2)

Interfering signal (1)	Interfering signal field strength (μV/m)	Protection ratio (dB)	Individual interference contribution (μVm)	Calculated RSS (μV/m)	Remarks
A	140	26	2800		
C	130	26	2600	3821	$\sqrt{A^2 + C^2}$
B	125	26	2500	4555	Individual contribution greater than 50% of $\sqrt{A^2 + C^2}$ therefore $\sqrt{A^2 + C^2 + B^2}$
D	65	26	1300		Individual contribution less than 50% of $\sqrt{A^2 + C^2 + B^2}$ therefore disregard
E	52	26	1040		idem

(1) In descending order of individual interference contribution

5. Receiver image frequency considerations

For planning purposes, an Administration, in seeking the frequency most appropriate for use by a new station, may consider an additional groundwave protection consideration, i.e. the receiver image frequency constraint, to minimize the risk of interference due to the characteristics of receivers when the service areas of several stations overlap.

However, in areas where there are few available channels, administrations may decide to disregard this constraint.

If an administration wishes to ensure this protection, it must ensure that the field strength of a station with a frequency 900 to 920 kHz higher than the frequency of the station to be protected does not exceed by more than 29.5 dB the field strength corresponding to the protected contour of the station. The protection level thus required is the same as for the second adjacent channel.

Section number	4.10.2.1	4.10.2.2	4.10.2.3	4.10.3	4.10.3	4.10.3
Channel relationship	co-channel	co-channel	co-channel	adjacent channel	adjacent channel	adjacent channel
Time	daytime	night-time	night-time	daytime	night-time	day and night
Class of protected station	A, B, C,	10% criterion	B, C,	A	A	B,C,
Protected from	groundwave	skywave	skywave	groundwave	groundwave	groundwave
Protected contour	groundwave E_{nom}	E_{nom}*	groundwave contour corresponding to the greater of E_{nom} or E_u	groundwave E_{nom}	Groundwave E_{nom}	groundwave contour corresponding to value of daytime E_{nom}
Value to be protected	E_{nom}	E_{nom}	greater of E_{nom} or E_u	Adjacent channel daytime groundwave E_{nom}	night-time groundwave E_{nom}	daytime groundwave E_{nom}
How E_u is calculated	Not applicable	Not applicable	4.7	Not applicable	Not applicable	Not Applicable
Where E_u is calculated	Not applicable	Not applicable	Station site	Not applicable	Not applicable	Not applicable
How protection is applied	$\frac{E_{nom}}{\text{Protection ratio}}$ applied separately	$\frac{E_{nom}}{\text{Protection ratio}}$ applied separately	using 4.7 the maximum permissible field strength at the station site is not to be exceeded at the protected contour	$\frac{E_{nom}}{\text{Protection ratio}}$ applied separately	$\frac{E_{nom}}{\text{Protection ratio}}$ applied separately	$\frac{E_{nom}}{\text{Protection ratio}}$ applied separately

* groundwave or 50% skywave contour, whichever is farther from the site.

criteria as indicated in sections 4.10.2 and 4.10.3

APPENDIX 5

(to Annex 2)

METHOD USED FOR CALCULATING

SECTIONALIZED ANTENNA RADIATION CHARACTERISTICS

(The columns referred to below are those of Part II of Annex 1 to the Agreement)

1. Sectionalized tower, when the value entered in column 12 is 3.

$$f(\theta) = \frac{2\cos(90\sin\theta)\cos\left[(A+90)\sin\theta\right] + \cos(A\sin\theta) - \cos A}{\cos\theta\,(3 - \cos A)}$$

Where:

A = electrical height of bottom section

θ = elevation angle

2. Sectionalized tower, when the value entered in column 12 is 4.

$$f(\theta) = \frac{\cos(A\sin\theta)\left[\cos(A\sin\theta) - \cos A\right]}{\cos\theta\left[1 - \cos A\right]}$$

Where:

A = electrical height of bottom section

θ = elevation angle

3. Sectionalized tower, when the value entered in column 12 is 5.

$$f(\theta) = \frac{\dfrac{\cos(A\sin\theta) - \cos A}{\cos\theta} + \dfrac{CD\cos\theta\left\{\cos(A\sin\theta) + \cos\left[(A+B)\sin\theta\right]\right\}}{C^2 - \sin^2\theta}}{1 + \dfrac{2D}{C} - \cos A}$$

Where:

A = electrical height of bottom section

B = electrical height of top section

C = current distribution factor

D = ratio of maximum current in top section to maximum current in bottom section

θ = elevation angle.

4. Sectionalized tower, when the value entered in column 12 is 6.

$$f(\theta) = \frac{\cos(A \sin\theta) - \cos(A-B)\cos(B \sin\theta) + \sin\theta \sin(A-B) \sin(B \sin\theta)}{\cos\theta \left[1 - \cos(A-B)\right]}$$

Where:

A = total electrical height of tower

B = electrical height of lower section

θ = elevation angle.

5. Sectionalized tower, when the value entered in column 12 is 7.

$$f(\theta) = \frac{C\cos(A \sin\theta) - \cos A + \cos(B \sin\theta) - \cos(B-A)\cos(A \sin\theta) + \sin(B-A) \sin\theta \sin(A \sin\theta)}{C\left[1 - \cos A\right] + \cos\theta \left[1 - \cos(B-A)\right]}$$

Where:

A = electrical height of lower section

B = total electrical height of antenna

C = ratio of the loop currents in the two sections

θ = elevation angle.

6. Sectionalized tower, when the value entered in column 12 is 8.

If $\theta = 0$, $f(\theta) = 1$

If $\theta > 0$: $f(\theta) = \dfrac{\sqrt{\text{real component}^2 + \text{imaginary component}^2}}{C}$

The real component is equal to:

$$\left[\frac{2.28\cos 0}{1.14^2 - \sin^2\theta}\right]\left\{-\cos\left[1.14\ (B-A)\right] + 2\cos(1.14B)\cos(A\sin\theta) - \cos\left[(A+B)\sin\theta\right]\right\}$$

The imaginary component is equal to:

$$D\cos\theta\left\{\frac{\sin\left[(A+B)\sin\theta\right]}{\sin\theta} + \frac{1.14}{1.14^2 - \sin^2\theta}\left[\sin\left[1.14(B-A)\right] - 2\sin(1.14B)\cos(A\sin\theta) + \frac{\sin\theta\sin\left[(A+B)\sin\theta\right]}{1.14}\right]\right\}$$

Where:

A = electrical height of lower section of tower

B = electrical height of upper section of tower

C = scaling factor so that $f(\theta)$ is 1 in horizontal plane

D = absolute ratio of the real component of current to the imaginary component of current at the point of maximum amplitude

θ = elevation angle.

Note: 1.14 is the ratio of velocity of light to propagation velocity along radiator.

7. Sectionalized tower, when the value entered in column 12 is 9.

$$f(\theta) = \frac{\cos(A\sin\theta)\left[\cos(B\sin\theta) + 2\cos(A\sin\theta)\right]}{3\cos\theta}$$

Where:

A = electrical height of centre of bottom dipole

B = electrical height of centre of top dipole

θ = elevation angle.

APPENDIX 6

(to Annex 2)

Groundwave Field Strength Measurements

1. This Appendix describes the groundwave field strength measurement method to be used in the application of Article VI of the Agreement.

2. The protected contour of an assignment shall be as defined in conformity with Annex 2 unless specifically agreed otherwise.

3. General Measurement Criteria

3.1 Measurements must be made during daytime hours only. Care must be taken to avoid measurement of skywave signals during early morning and late afternoon hours.

3.2 Measurement data along a radial will be considered to be representative of conductivity through an arc not to exceed ±10 degrees from the azimuth of the radial. Conditions of irregular terrain or other factors indicating a probable difference in conductivity over the arc may require radials every few degrees, unless a showing is made that the radials measured would reasonably be expected to have higher conductivity than other nearby terrain (e.g., a mountainside would be expected to have a lower conductivity than would an adjacent valley).

3.3 All measurement points must be on-radial to the extent possible. Any off radial measurements shall be accompanied by a showing that they are valid for the intended purpose. Off-radial directional measurements will not be considered in a radial analysis unless the directional antenna pattern shows nearly constant radiation.

4. Measurements to determine the presence of interference

4.1 Interference shall be deemed to exist if the measured field strength of the interfering signal at or within the predicted location of the protected contour of an assignment does not meet the protection requirements of Annex 2 or any other protection requirements specifically agreed upon for this assignment.

4.2 Field strengths shall be measured in accordance with good engineering practice along pertinent radials originating from the station believed to be the cause of the interference.

4.3 There shall be a sufficient number of measurements to make an adequate showing of interference. This shall include at least 10 measurements not less than 1 km apart along each radial, within the protected contour.

5. Measurements to justify an assignment based on conductivity values differing from the official map

5.1 Field strengths shall be measured in accordance with good engineering practice. In particular:

5.1.1 There shall be at least one radial in each sector in which it is intended to establish that no interference will be caused.

5.1.2 At least 30 points shall be measured out to a distance of 30 km. At least 15 of these measurement points shall be located within 3 km of the transmitter site, in order that both inverse field and soil conductivity may be determined by best-fit curve analysis. Within each of these ranges, the points measured shall be spaced as nearly equally as possible. Beyond 30 km measurements shall be taken at intervals not exceeding 20% of the distance between the interfering station and the protected contour. In any event, sufficient measurements shall be taken to support the finding required under 4.1 above.

6. Presentation of Measurement Data

The following data shall be presented in support of measurements:

6.1 A tabulation of field strength values, with distance from the transmitter and time each measurement was taken. Also, a general statement as to climate and terrain conditions (damp, dry, hot, cold, marshy, rocky, ets.);

6.2 Maps showing measurement locations in sufficient detail to show elevations, natural and man-made obstructions or formations, and terrain condition;

6.3 The calculation of permissible radiation shall be based on the values of ground conductivity determined from the plotted points for each radial, plus, beyond the boundary, or the end of each radial, the values of conductivity found on the pertinent conductivity maps.

6.4 Description of the instrument used to take the measurements and certifications as to field-strength meter calibration and of operator compliance with manufacturer's instructions for making measurements, along with operator qualifications and experience in making measurements; and

6.5 Description of the transmitter, antenna system, and relevant operating parameters in use by the station when the measurements were taken.

APPENDIX 7

(to Annex 2)

METHOD FOR EXTENDED HOURS OF OPERATION

CALCULATIONS USING DIURNAL FACTORS

1. This Appendix contains the method to be used when applying diurnal factors during periods of extended hours of operation under Article VII of the Agreement. Procedures for calculating nighttime interference on a site-to-site or site-to-contour basis are based on propagation conditions occuring two hours after sunset as a standard reference.

To calculate interference during extended hours of operation periods, the nighttime interference can be calculated and then modified taking into account the diurnal factor. Diurnal factors are calculated from the formulas contained in Tables 5A and 5B of Annex 2, and are represented graphically in Figures 5A and 5B of Annex 2. They are expressed as a ratio of the skywave field strength at any time during the pre-sunrise or post-sunset period to the skywave field strength occuring during the reference hour of two hours past sunset at path mid point.

The following illustration describes the application of the diurnal curves when calculating required protection to the 0.5 mV/m 50% contour of a Class A station from a daytime-only station operating during the post-sunset period. A similar procedure may be used for the pre-sunrise period.

2. Post-Sunset Operations Providing Nighttime Protection

Evaluate the nighttime interference that would be produced by the daytime operation of the station requesting post-sunset authority to points along the protected 0.5 mV/m 50% contour of Class A nighttime co-channel stations. The permissible interfering 10% signal from post-sunset operations is less than 0.025 mV/m at any point along the protected contour of a Class A station. Identify all points on the 0.5 mV/m 50% contour toward which the permissible interfering signal is exceeded. From these calculations the maximum which is permissible can be determined. In many cases full nighttime protection will be quite restrictive and it may be advantageous to apply the diurnal curves.

3. Determine the Diurnal Factor

In order to apply the diurnal curves, it is necessary to determine the time of sunset at the path mid-point. Subtract the sunset time at the path mid-point from the local sunset time (assumed in this illustration to be 6:00 pm). With this time difference, enter the diurnal factor curves, Figure 5B of Annex 2, with the appropriate frequency, interpolate linearly between the diurnal curves and read the diurnal factor.

Example: A hypothetical station is located in Denver, CO, proposing post-sunset operation on 1130 kHz, and a path being analyzed has

a mid-point located at N 39° 36' 36", W 97° 02' 15". The sunset time at the path mid-point is calculated to be 4:04. p.m. MST. Assuming that the station in Denver is permitted post-sunset operation until 6:00 p.m. MST, it would be operating 1.93 hours (6:00 p.m. - 4:04. p.m.) beyond sunset at the path mid-point.

Entering Figure 5B with SS + 1.93 on 1130 kHz results in a diurnal factor of approximately 0.99. It should be noted that a diurnal factor greater than 1.0 is never used.

4. Apply the Diurnal Factor for Modified Power

Divide the permissible interfering 10% skywave signal toward the Class A station on the path selected by the diurnal factor. This produces the worst case interfering signal adjusted by the diurnal factor along this path from the daytime operation to the protected contour of the Class A station during the post-sunset operating period. With the proposed interfering signal increased by the diurnal factor, the proposed post-sunset power may be increased by direct ratio (using the square root of the power). This increased power would be permitted for this particular path.

Example: From the previous example, the diurnal factor was determined to be 0.99. For the hypothetical case of the station in Denver, suppose that the permissible antenna radiation for the selected path that provides full nighttime protection is 75 mV/m.

Applying the diurnal factor for this path, the permissible radiation becomes 75 ÷ 0.99 = 75.76 mV/m. If it is necessary to reduce the daytime power to 260 watts to provide full nighttime protection, application of the diurnal factor would permit a modified power of 265.28 watts ($260 \times 75.76^2 \div 75^2$ or 260 watts ÷ $.99^2$).

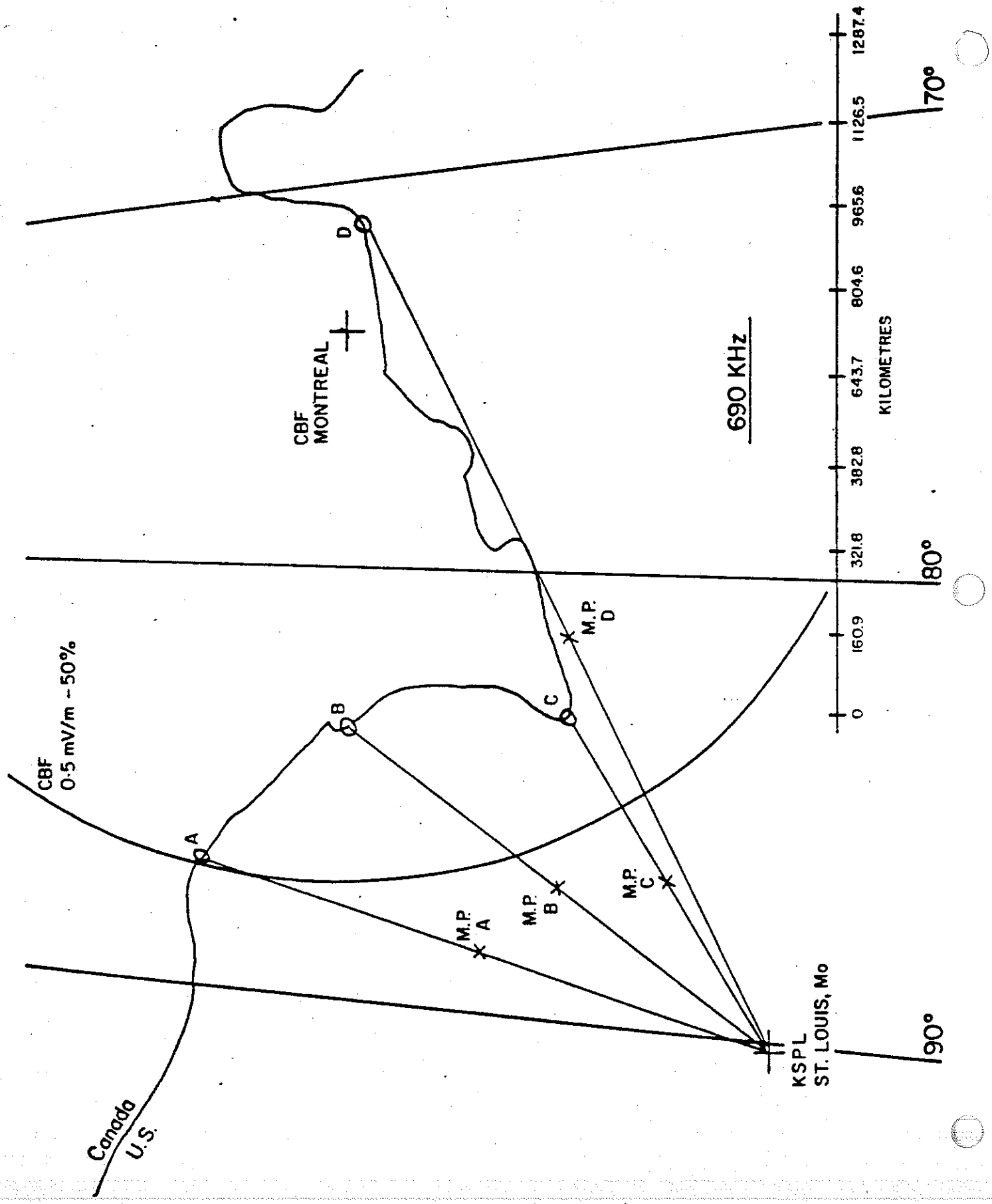
5. Determine the Post-Sunset Operating Power

After analyzing the pertinent paths, the operating power that would be permitted for post-sunset operation is that which is determined for the most restrictive path.

6. Additional Example

The example which follows is more detailed than the above example and illustrates the proposed diurnal calculation method using a Canadian Class A station and a U.S. Class B station as shown on Figure 7A.

FIGURE 7-A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90°
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C
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A
M.P.
D
M.P.
C
M.P.
B
M.P.
A
CBF
0·5 mV/m -50%
KSPL
ST. LOUIS, Mo
Canada
U.S.

Assume Points A, B, C and D are points on the border. A, B and C are within the 0.5 mV/m -50% contour. Point D is within the 0.5 mV/m groundwave contour. Determine the mid-point latitude and longitude from the proposal to each point.

Mid-Points	Mid-Point Latitude	Mid-Point Longitude
M.P. A	N 42.9°	W 88.7°
M.P. B	N 41.9°	W 87.2°
M.P. C	N 40.4°	W 86.8°
M.P. D	N 42.0°	W 80.9°

Calculate the earliest time of sunset during the year at each mid-point. Note that St. Louis is in the Central Standard Time Zone.

Entering Figure 7B with Latitude N 42.9° of Mid-Point A, sunset time is approx. 4:25 p.m. CST along standard meridian 90° W. Next, a correction is made for the longitude correction from the standard meridian for Mid-Point A. This correction is + 4 minutes of time per degree West, or -4 minutes of time per degree East of the standard meridian.

Long. of M.P.A. - Std. Meridian = 88.7° - 90° = -1.3°

Time Correction = -1.3° x 4 = -5.2 minutes

The sunset at M.P.A. = 4:25 - 0:05.2 = 4:19.8 p.m. CST

At Latitude of M.P.B., sunset along standard meridian is approx. 4:27 p.m. CST.

Long. of M.P.B. - Std. Meridian = 87.2° - 90° = -2.8°

Time Correction = 2.8° x 4 = -11.2 minutes

The sunset at M.P.B. = 4:27 - 0:11.2 = 4:15.8 p.m. CST

At Latitude of M.P.C., sunset along standard meridian is approx. 4:33 p.m. CST.

Long. of M.P.C. - Std. Meridian = 86.8° - 90° = -3.2°

Time Correction = -3.2° x 4 = -12.8 minutes

The sunset at M.P.C. equals 4:33 - 0:12.8 = 4:20.2 p.m. Central Std. time.

At Latitude of M.P.D., sunset along standard meridian is approx. 4:29 p.m. CST.

Long. of M.P.D. - Std. Meridian = 80.90 - 90° = -9.1°

Time Correction = -9.1° x 4 = -36.4 minutes

The sunset at M.P.D. = 4:29 - 0:36.4 = 3:52.6 p.m. CST.

Mid-Point	SS at M.P.	time = Local Sunset (6:00pm assumed)-SS at M.P.	Diurnal Factor (Figure 5-B)
A	4:19.8	1:40.2	.93
B	4:15.8	1:44.2	.96
C	4:20.2	1:39.8	.93
D	3:52.6	2:07.4	1.00

At Point	Assumed Protected Contour	Assumed permissible radiation to provide full Nighttime Protection
A	0.5 mV/m -50%	25 mV/m
B	1.0 mV/m -50%	35 mV/m
C	0.8 mV/m -50%	30 mV/m
D	0.6 mV/m groundwave	80 mV/m

The permissible radiation to provide full nighttime protection is adjusted in each case by the diurnal factor, to produce the permissible radiation toward each point during the post sunset operating period, i.e.

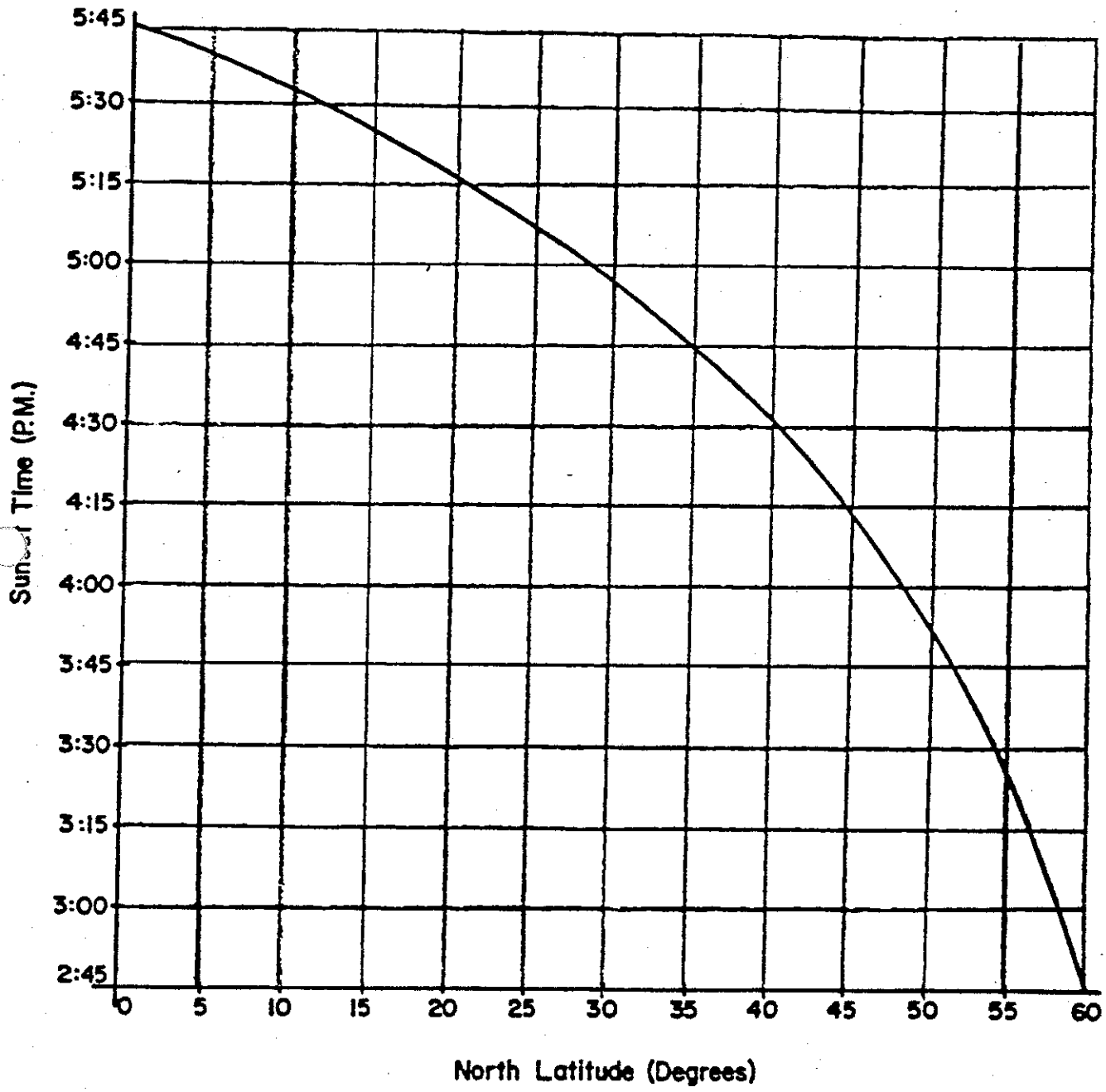
To Point	Diurnal Factor	Permissible Full-Night Radiation	Permissible Post Sunset Radiation
A	.93	25 mV/m	25÷.93 = 26.88 mV/m
B	.96	35 mV/m	35÷.96 = 36.46 mV/m
C	.93	30 mV/m	30÷.93 = 32.26 mV/m
D	1.00	80 mV/m	80÷1.00 = 80 mV/m

Thus, for post sunset operation, the station would have to adjust its power so that protection would be provided in all directions toward points A through D, so that actual radiation would not exceed the permissible Post Sunset radiation.

Although this example shows protection to a Class A station, the same procedure would apply to Class B stations as follows:

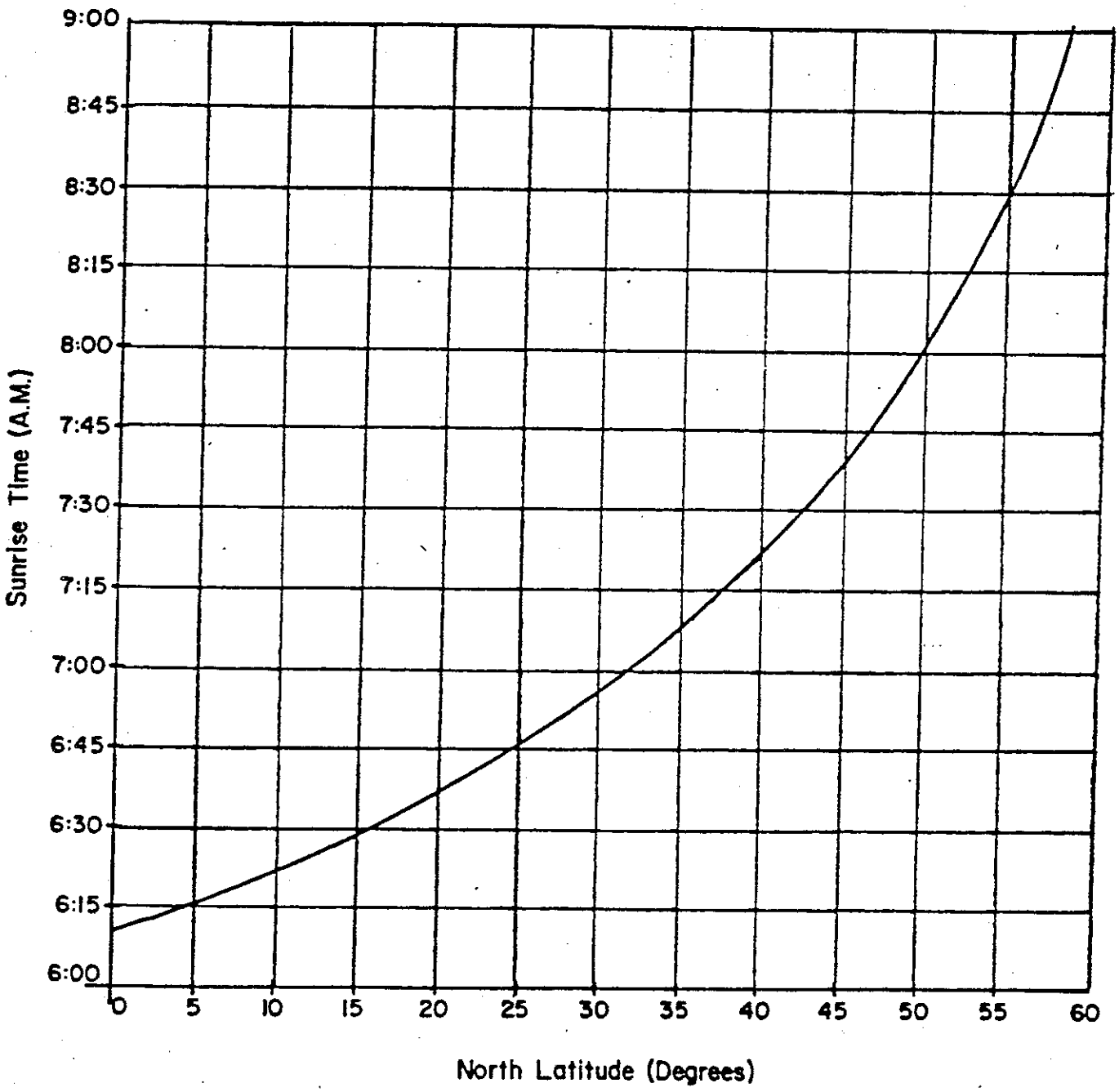
Assume that each point A, B, C and D is a separate Class B station. Calculate the existing R.S.S. for each station and determine the values of permissible radiation for full nighttime protection toward each station, and apply the diurnal factors to produce the permissible Post Sunset Radiation toward each station. Then adjust the power of the station operating during the post sunset period so that the permissible post sunset radiation values are not exceeded.

Figure 7B



Earliest Sunset Time
along a
Standard Meridian

Figure 7C



Latest Sunrise Time
along a
Standard Meridian

APPENDIX 8

(to Annex 2)

Criteria for Critical Hours of Operation

1. This Appendix specifies the criteria required in the application of Article VIII of the Agreement.

2. Critical hours of operation are defined as follows:

2.1 Beginning at local sunrise at the transmitting antenna site of the Class B or C station, and ending one and one-half hours after the time of sunrise at the geographic midpoint between the transmitting antenna site of the Class B or C station and that of the Class A station.

2.2 Beginning one and one-half hours before the time of sunset at the geographic midpoint between the transmitting antenna site of the Class B or C station and that of the Class A station, and ending at local sunset at the transmitting antenna site of the Class B or C station.

2.3 These periods are established for each month on the basis of sunrise and sunset times for the fifteenth day of the month adjusted to the nearest quarter-hour.

3. The Class A stations shall be protected to their calculated 100 uV/m daytime contour. Where the protected contour would extend beyond the boundary of the country in which the Class A station is located, the protected contour shall follow that part of the boundary.

4. During the critical hours of operation defined in section 2, the maximum permissible radiated field strength of the Class B or C station toward each point on the protected contour of the Class A station, over the vertical arc specified in section 4.2, shall be determined by the distance from the transmitting antenna site of the Class B or C station to the protected point in question in accordance with the following equation which is graphically illustrated in Fig. 8:

4.1 $F = 0.9 D - 290$

where:

F = Maximum permissible radiated field strength of the Class B or C station in mV/m at one kilometre toward the point on the protected contour of the Class A station.

D = Distance in kilometres from the transmitting antenna site of the Class B or C station to the same point as above.

4.2 The vertical arc for the maximum permissible radiated field strength shall be the arc from the horizontal plane to the elevation angle specified in the Curve of Figure 2 of Annex 2.

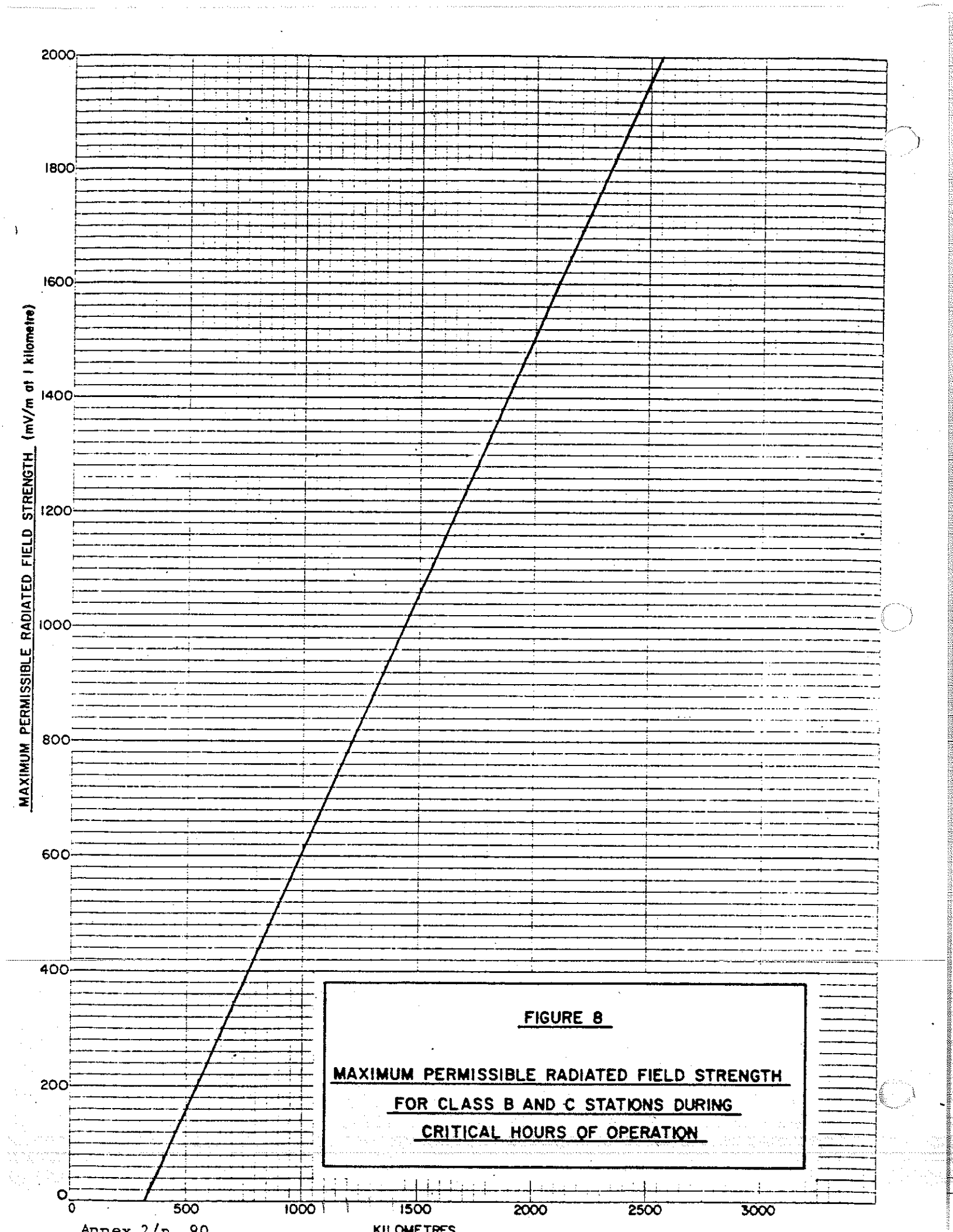
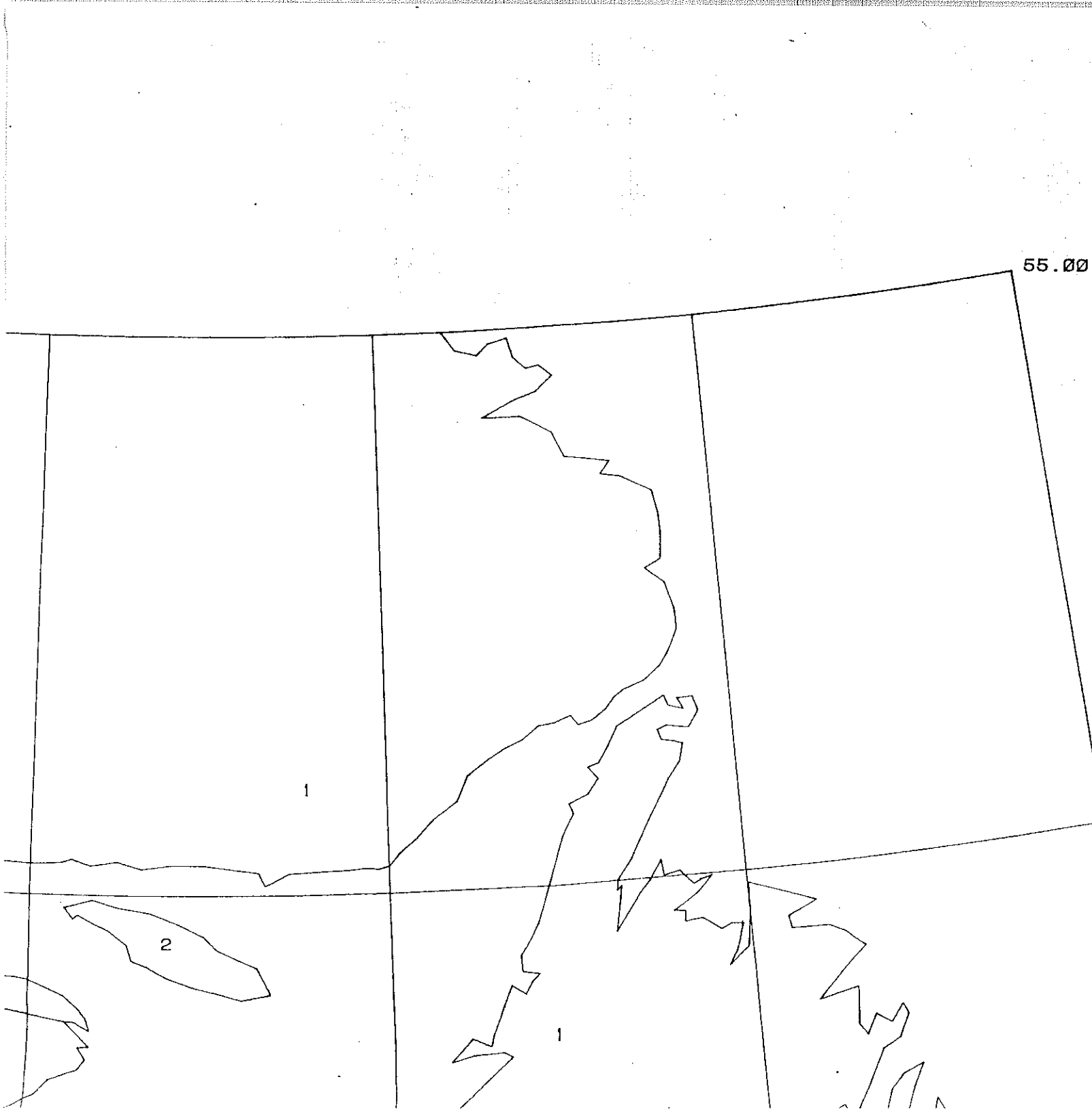


FIGURE 8

MAXIMUM PERMISSIBLE RADIATED FIELD STRENGTH FOR CLASS B AND C STATIONS DURING CRITICAL HOURS OF OPERATION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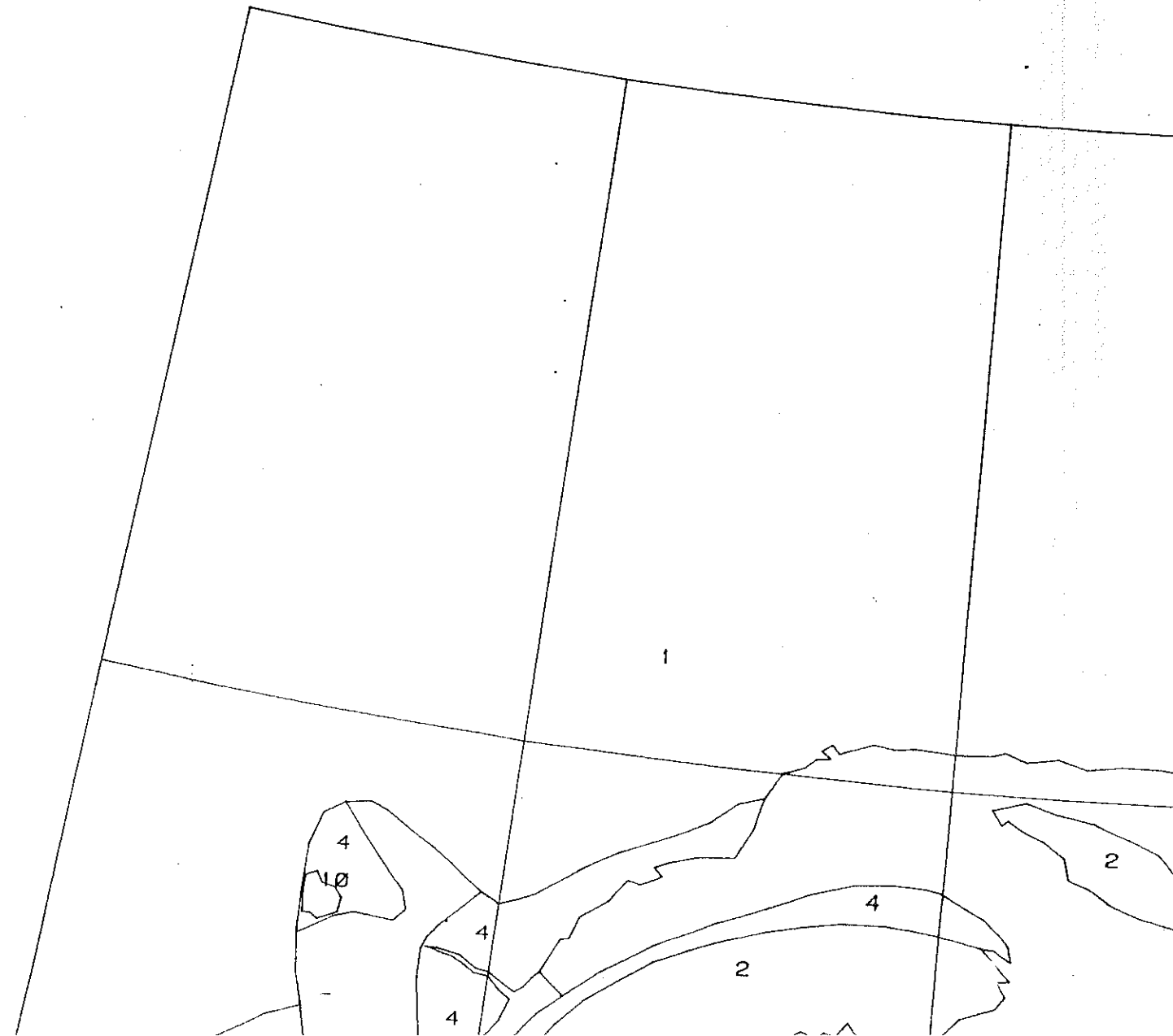

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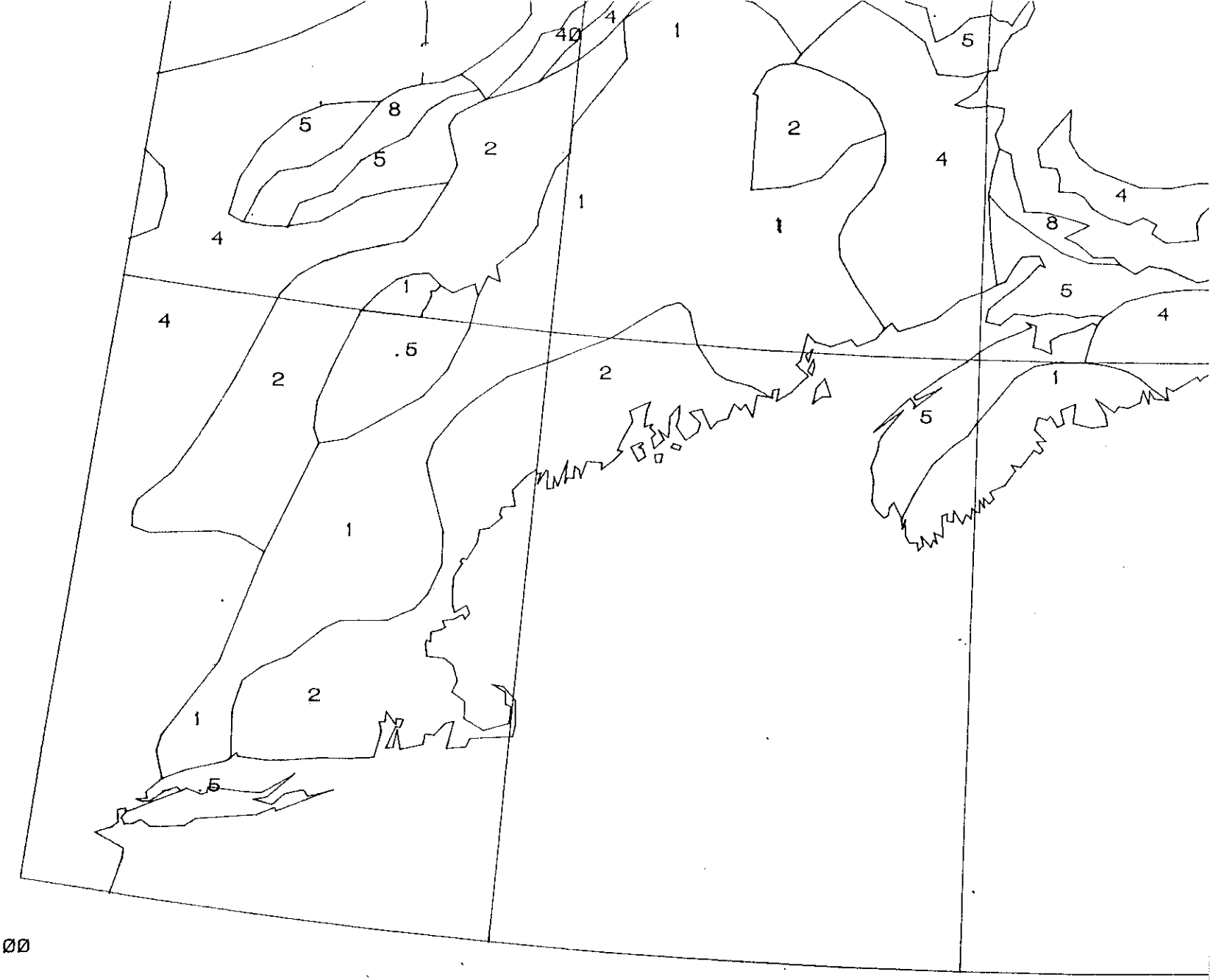

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PROJECTION CONIQUE CONFORME DE LAMBERT
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LAMBERT CONICAL CONFORMAL PROJECTION
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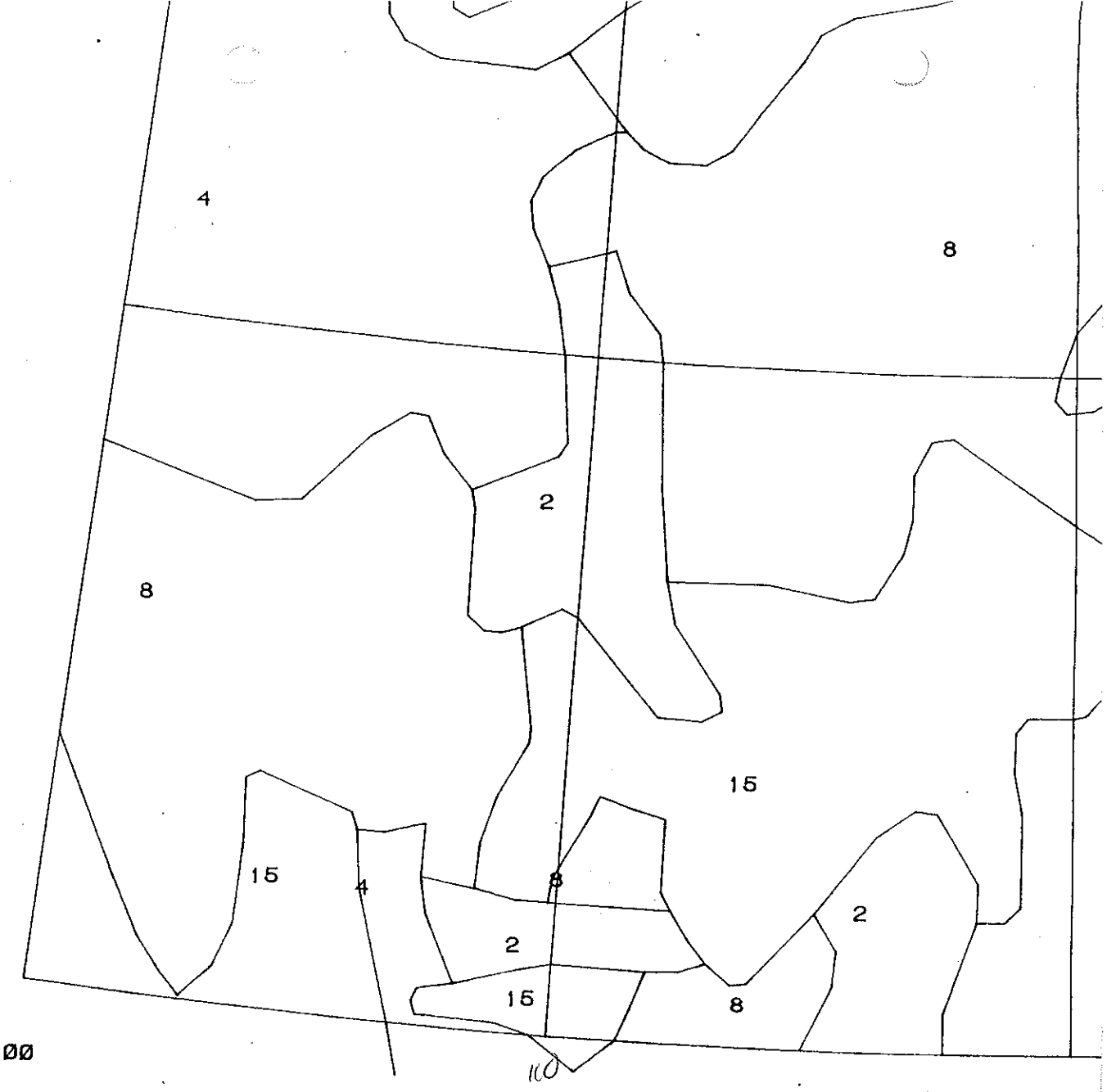

PROJECTION CONIQUE CONFORME DE LAMBERT
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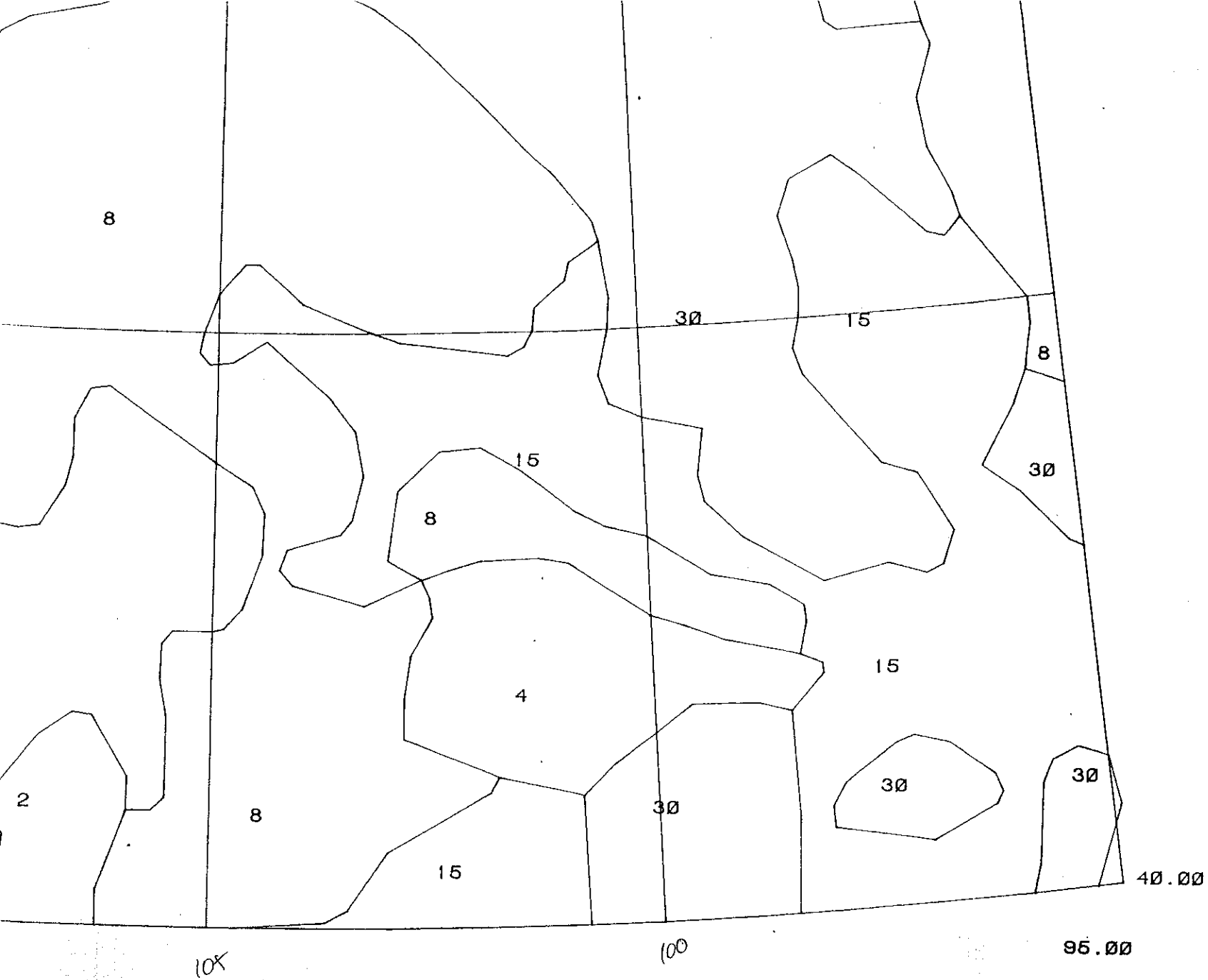

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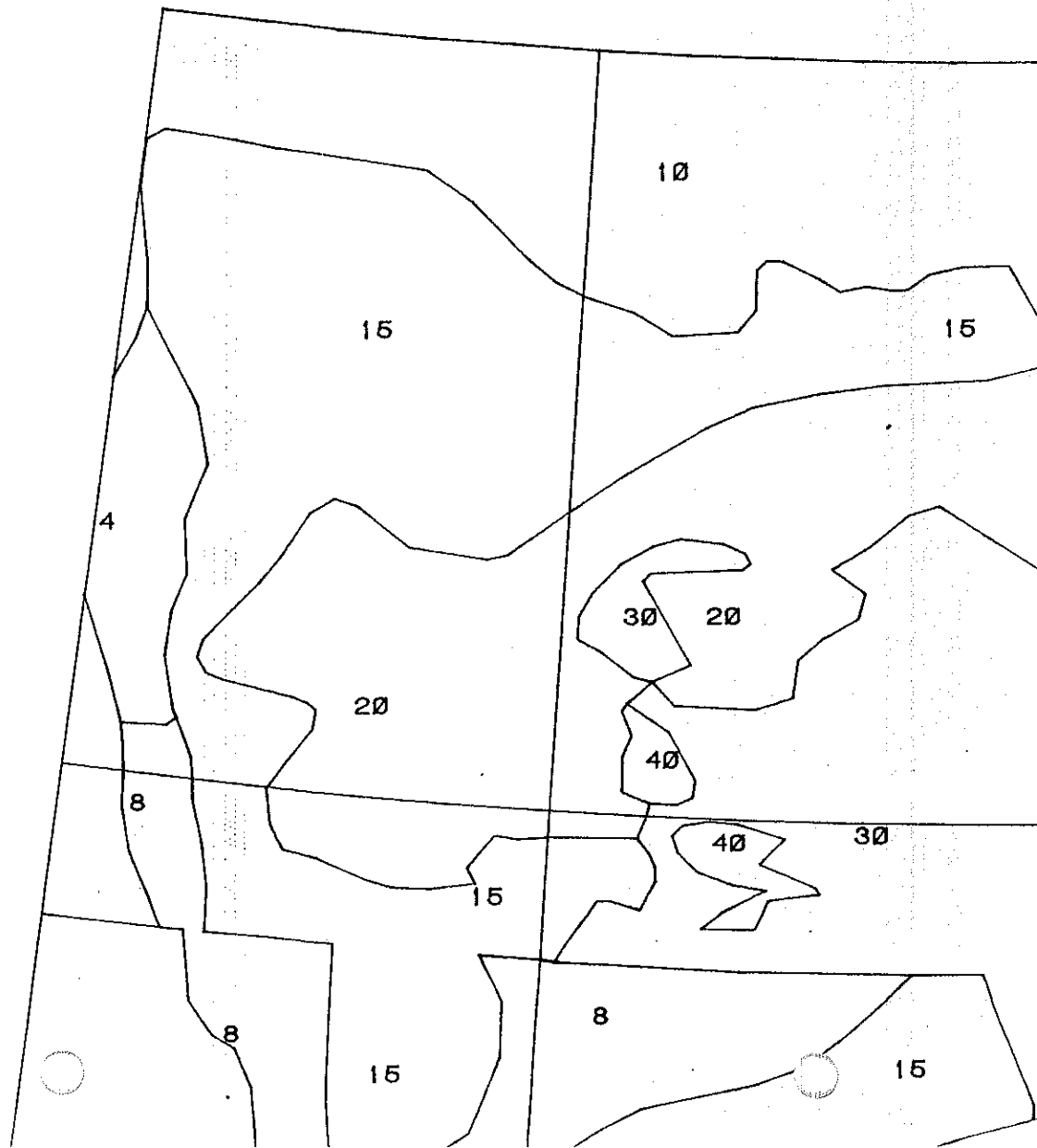

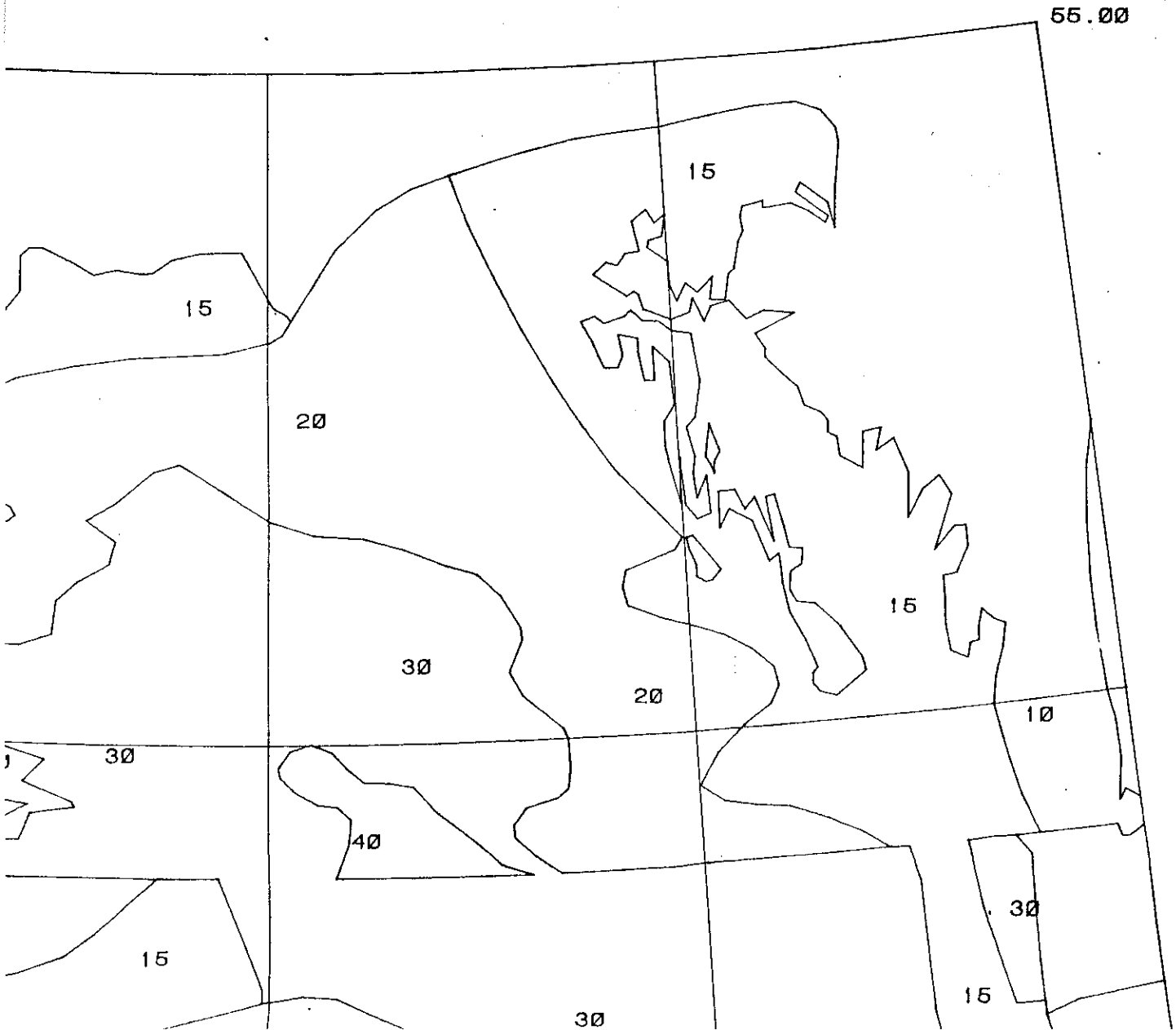
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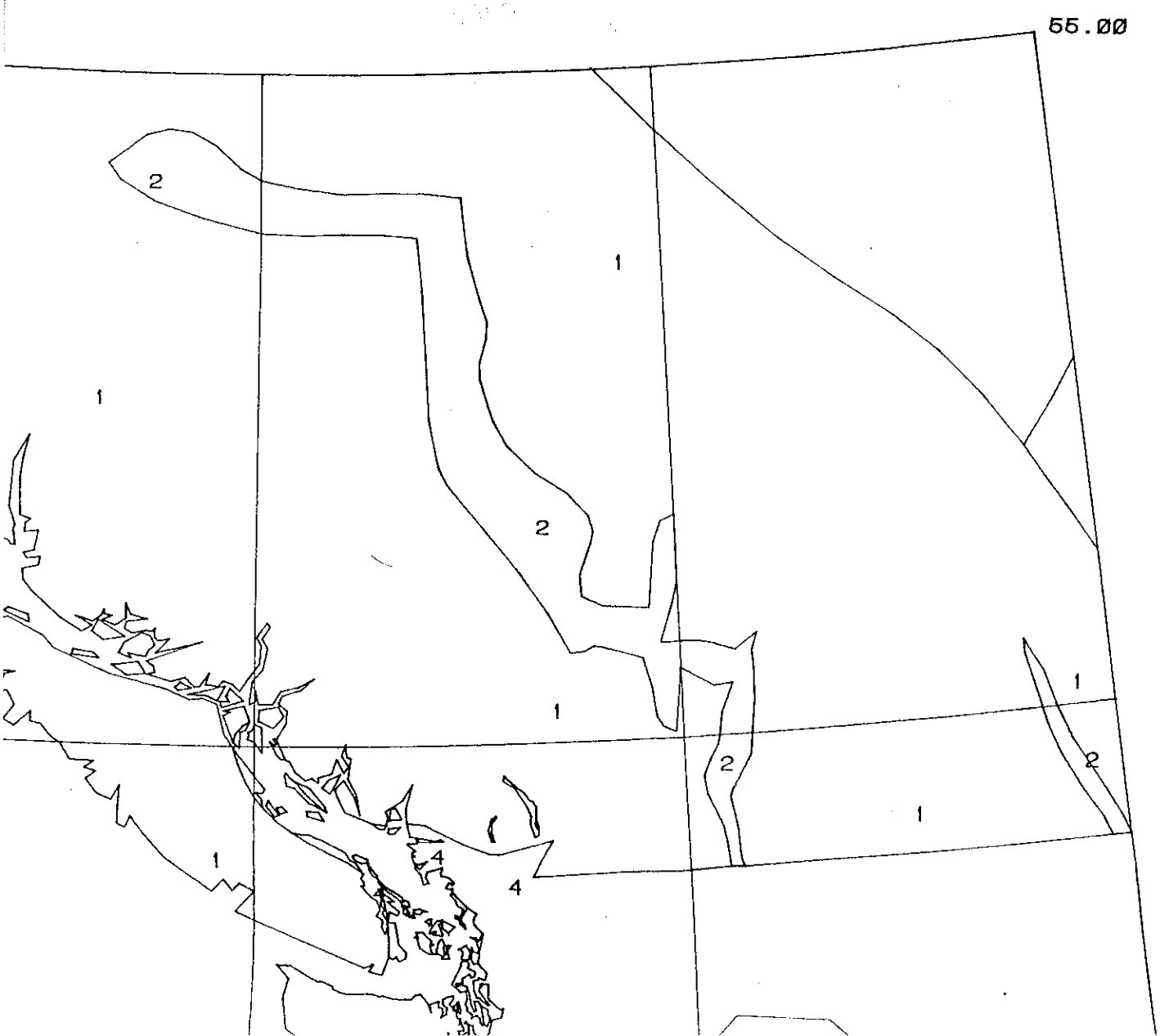
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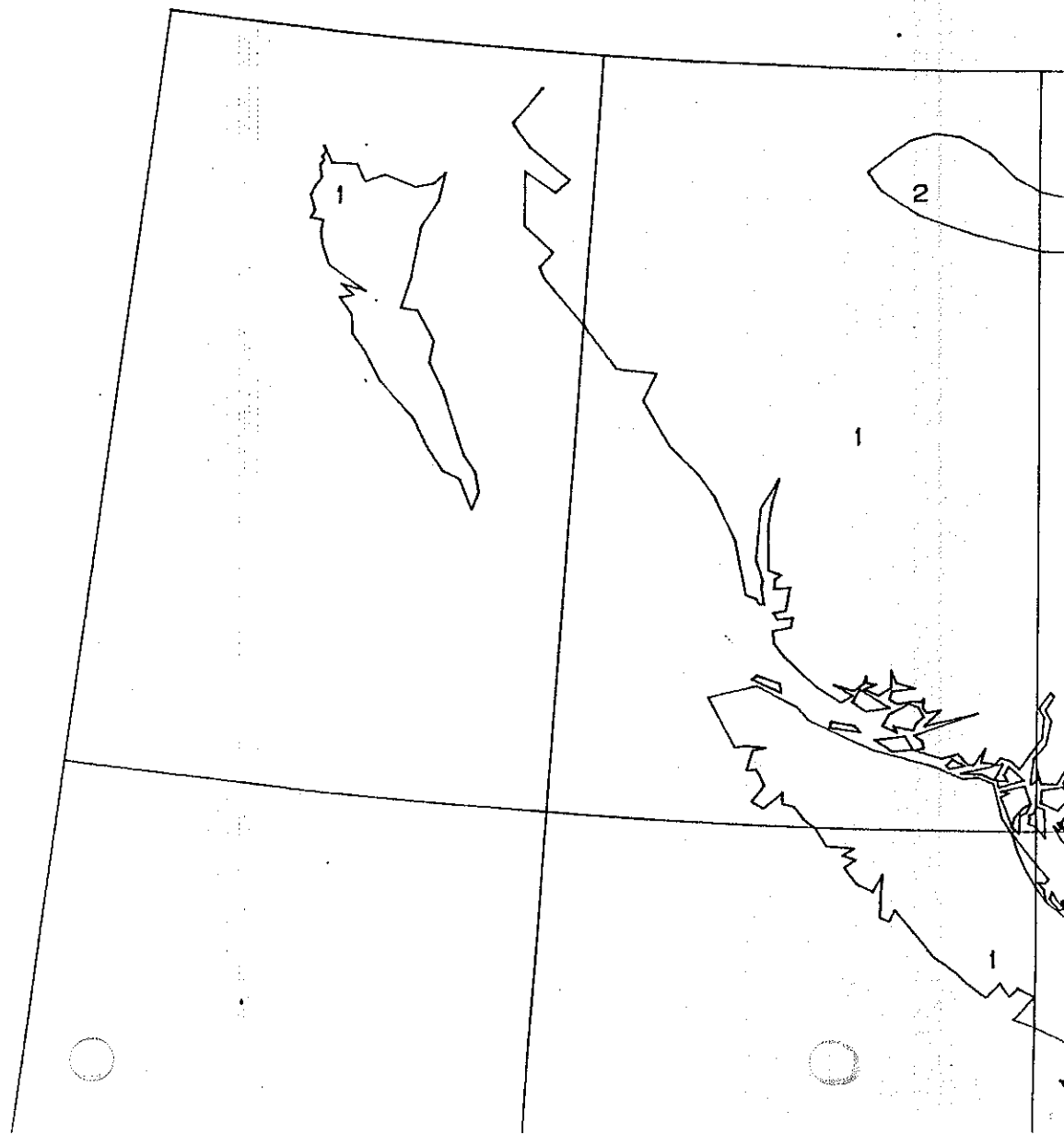

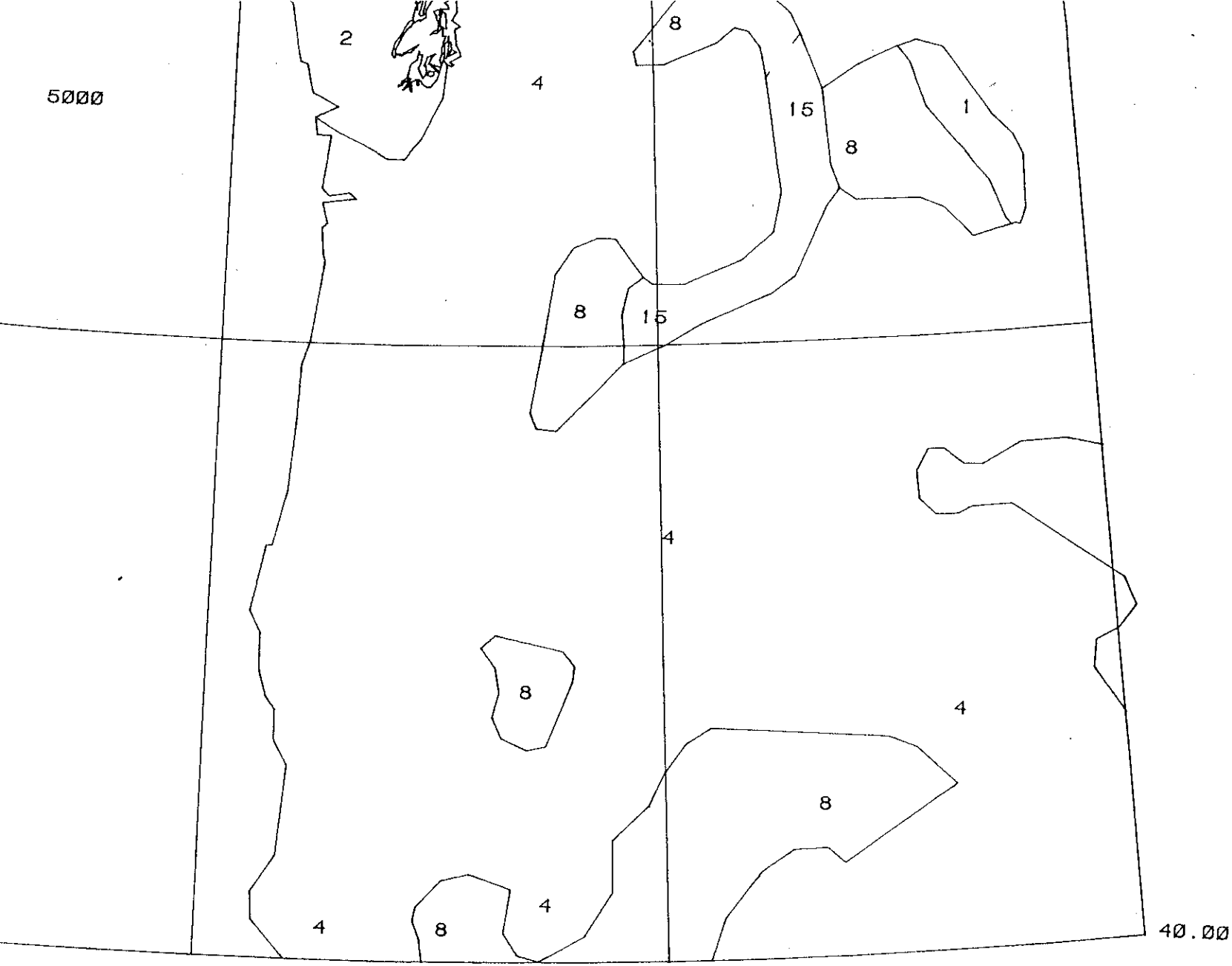

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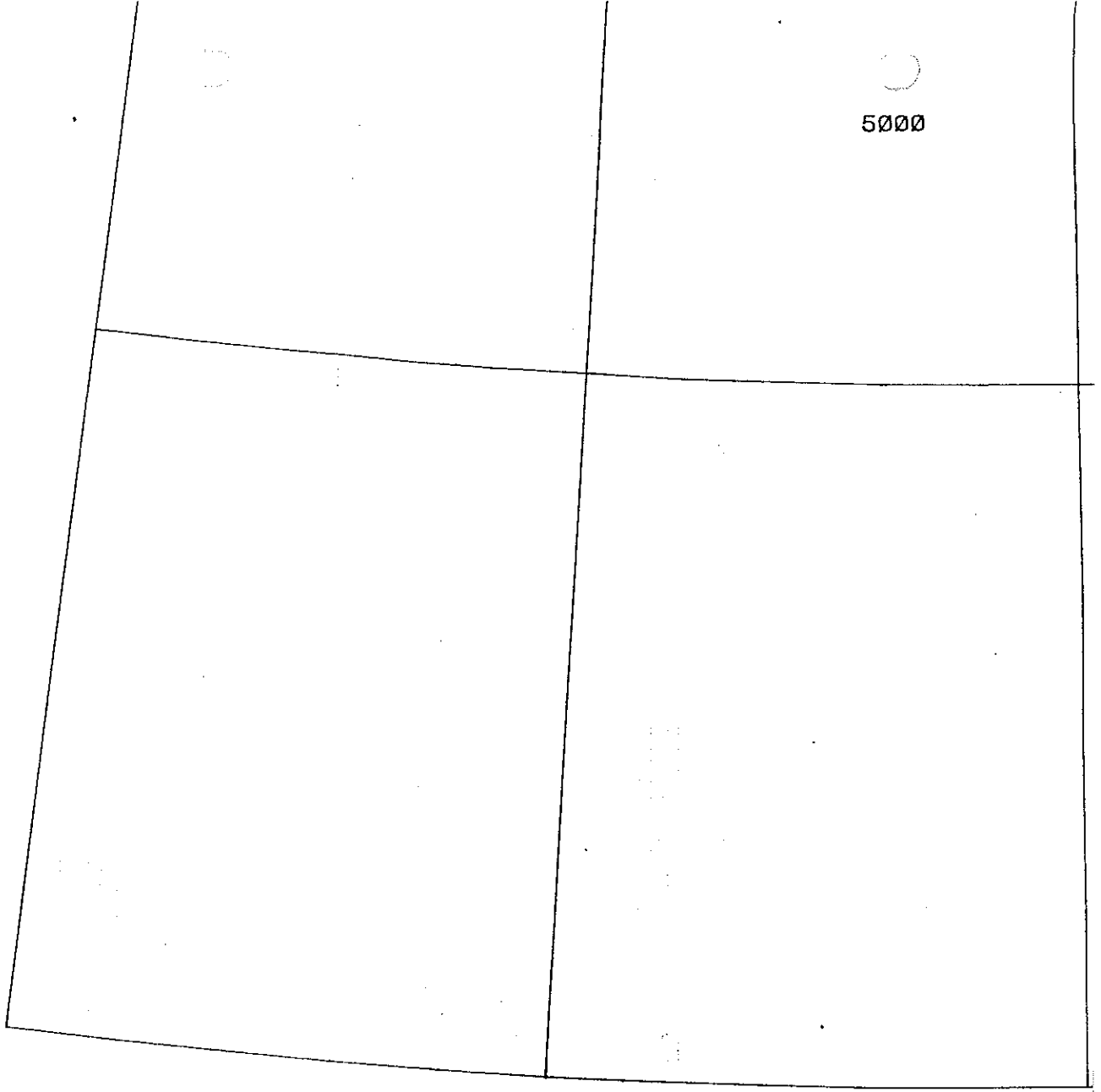

PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

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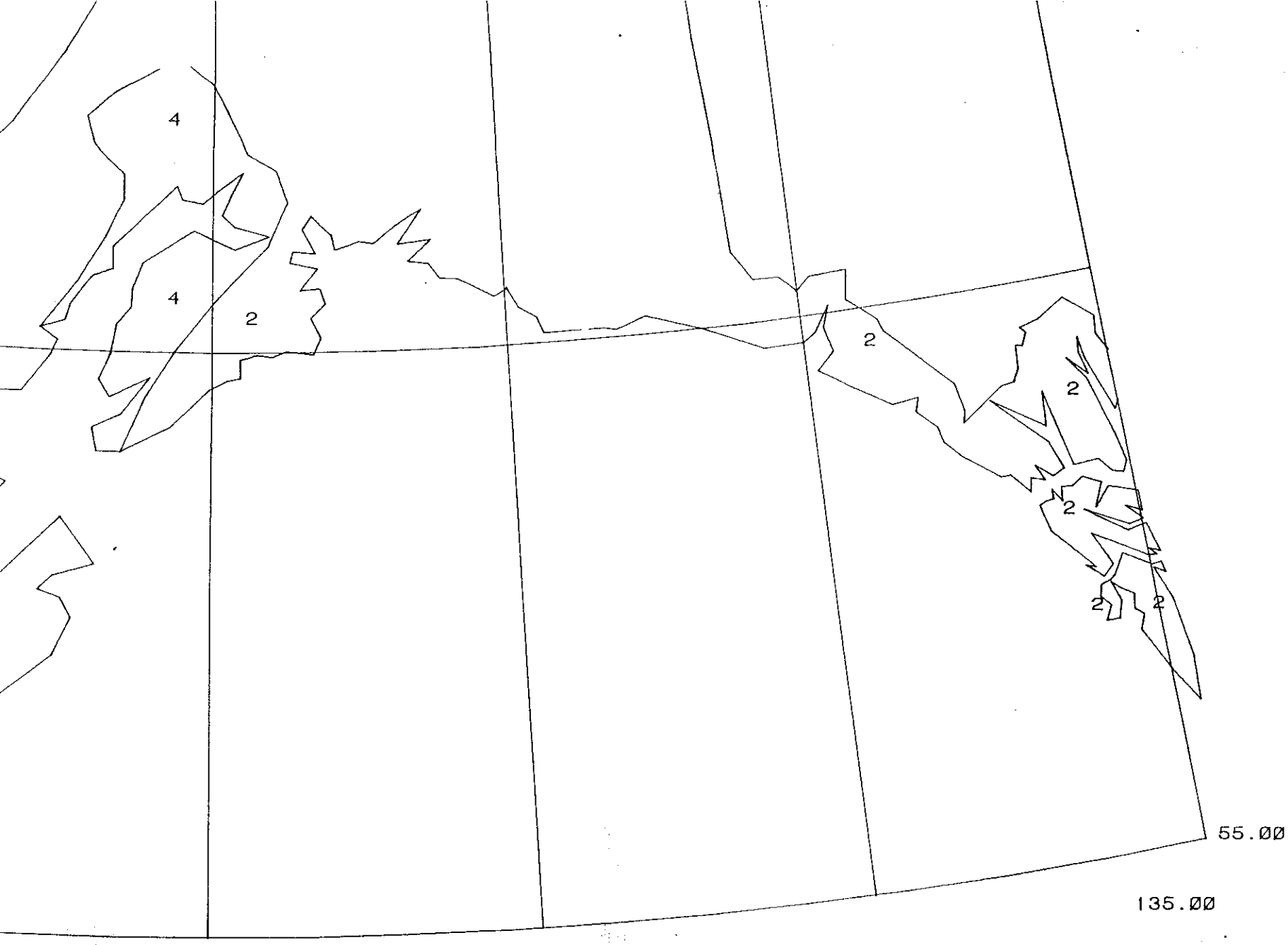

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PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

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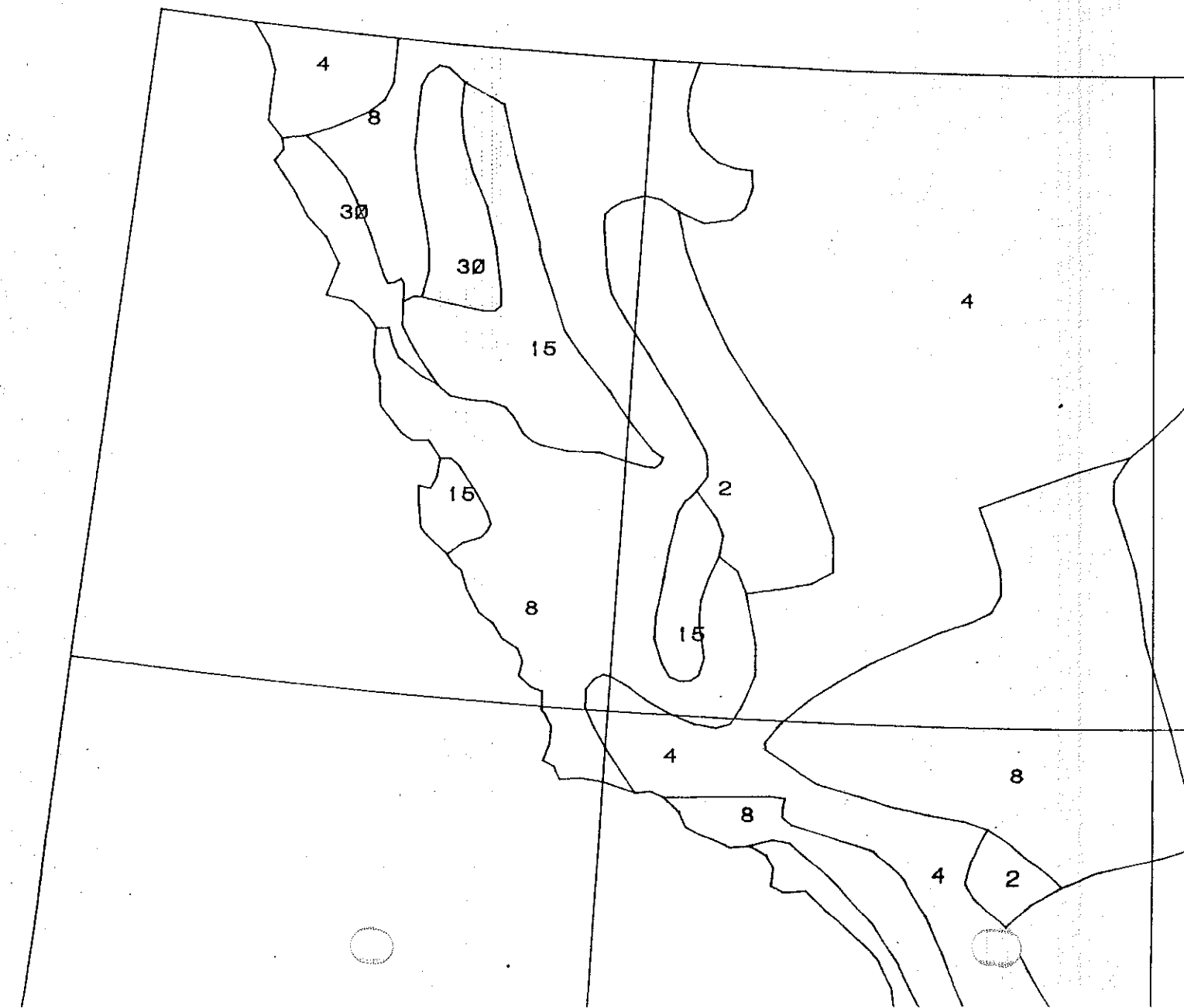

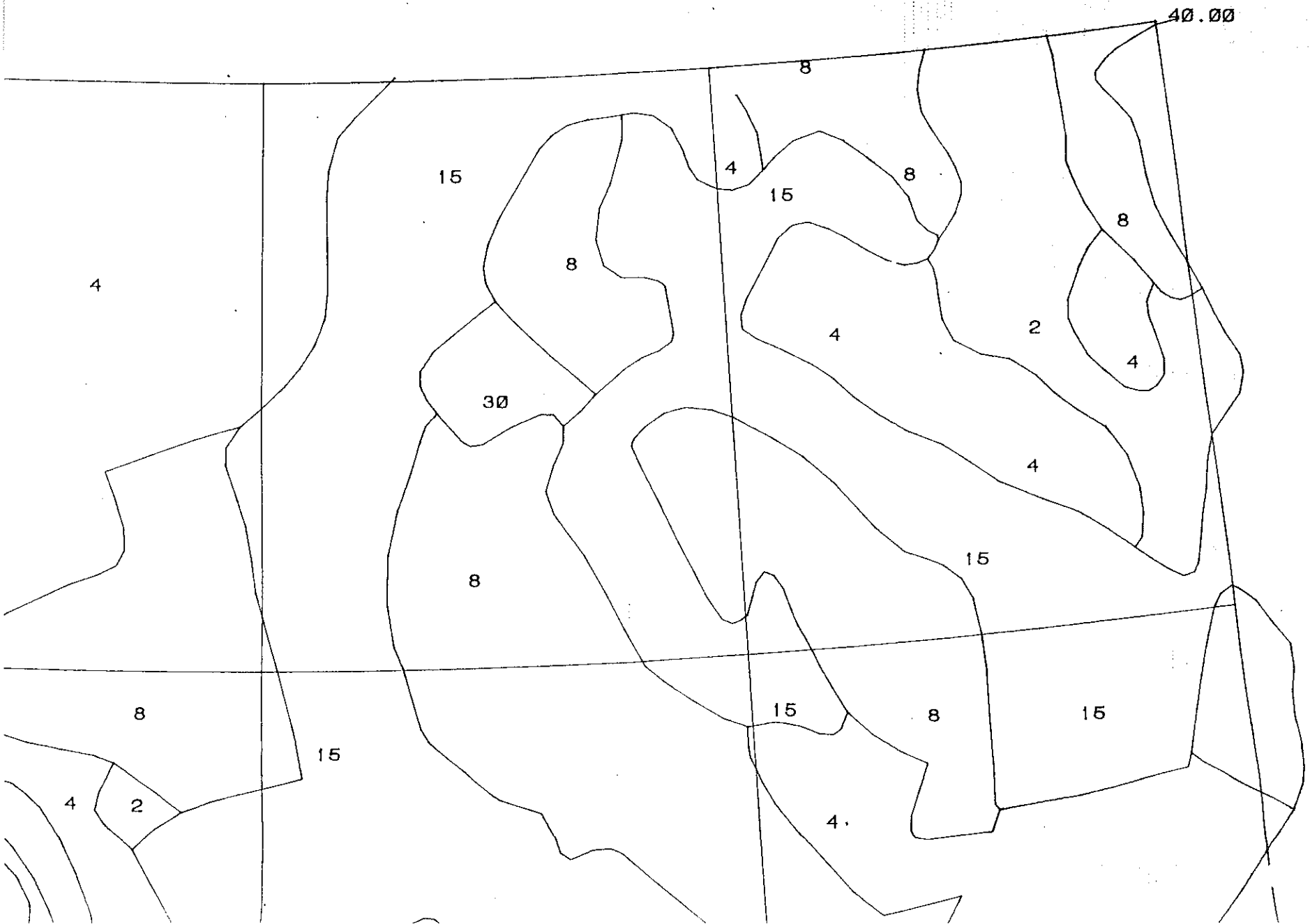
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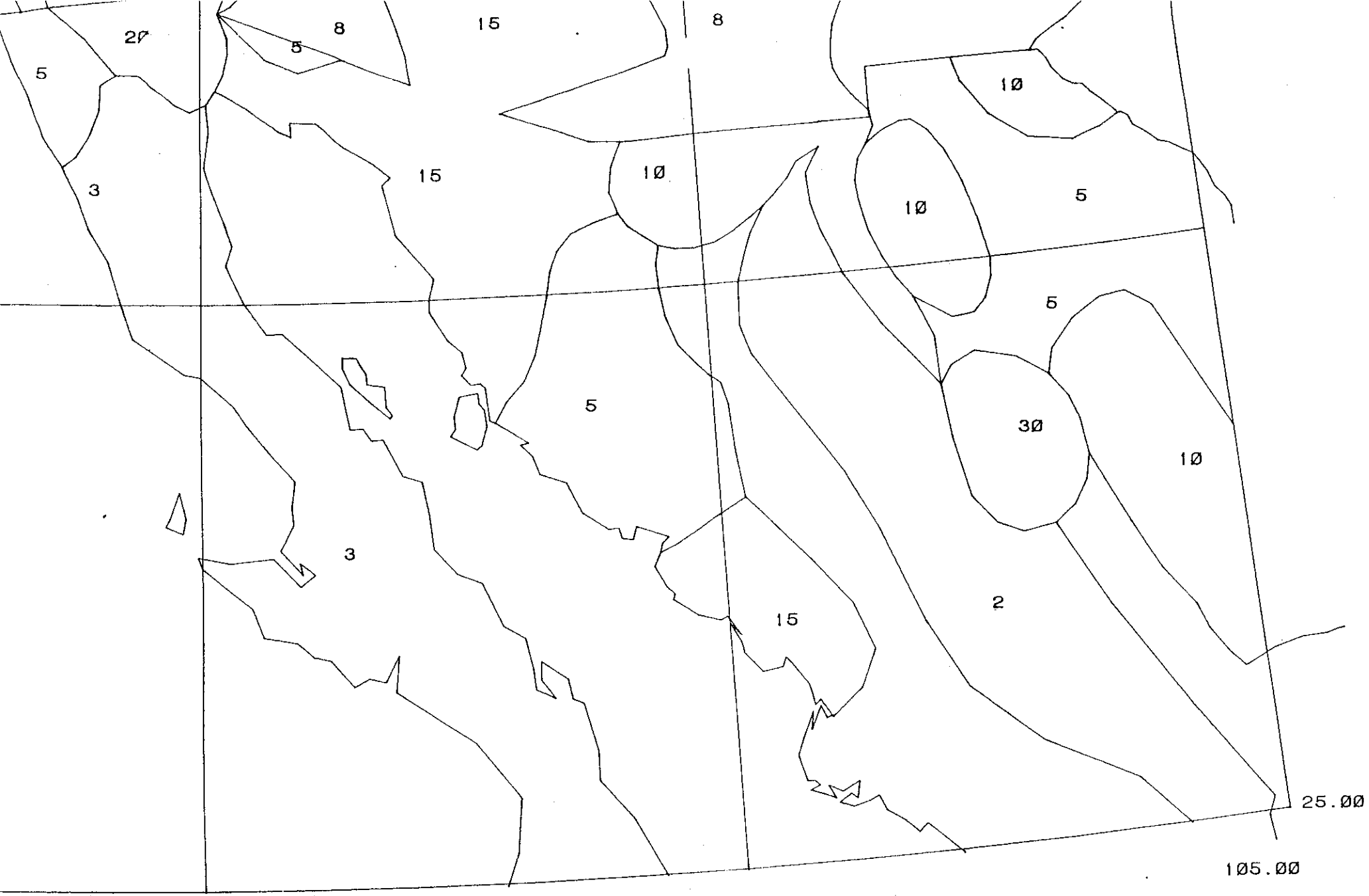

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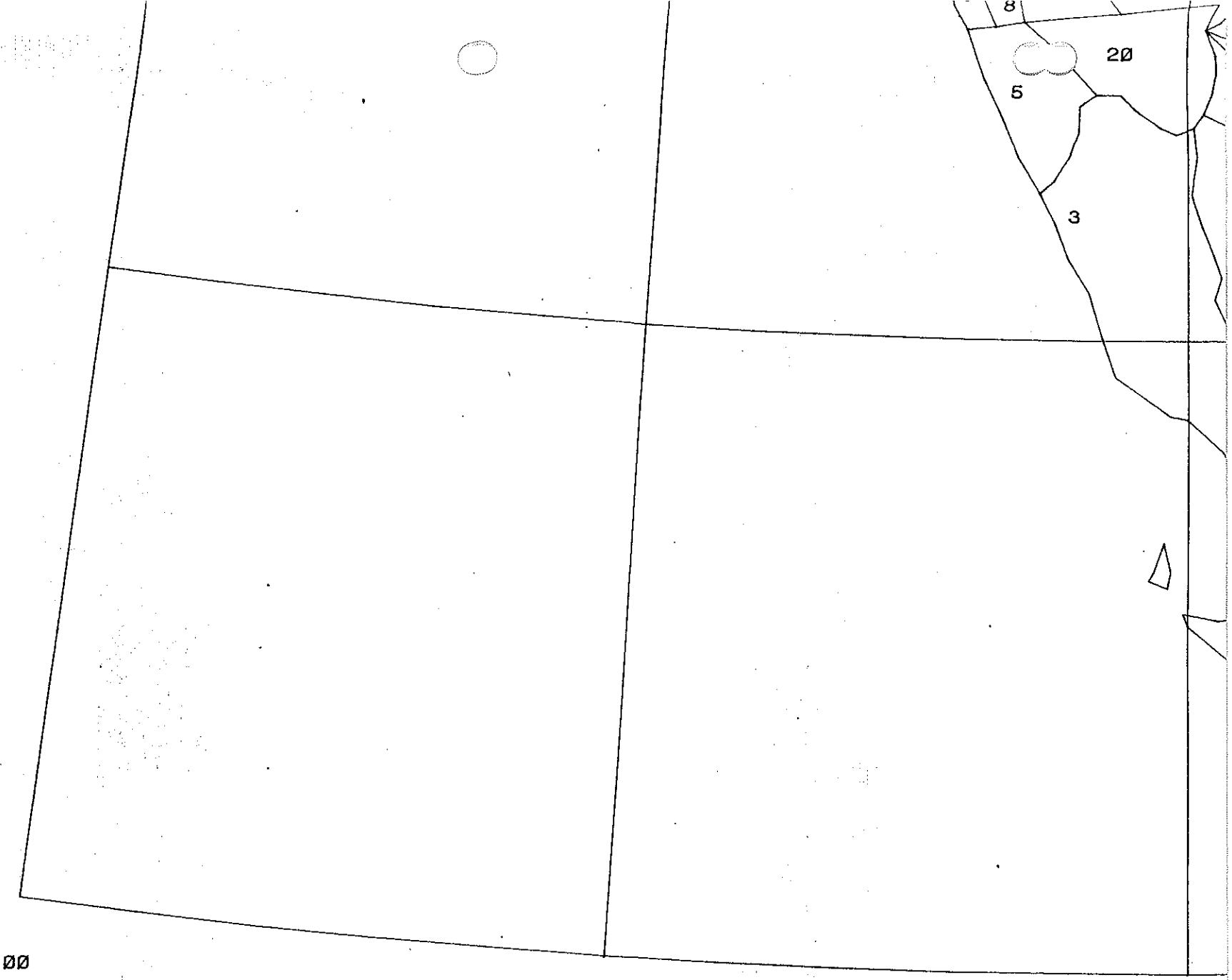

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PROJECTION CONIQUE CONFORME DE LAMBERT
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LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

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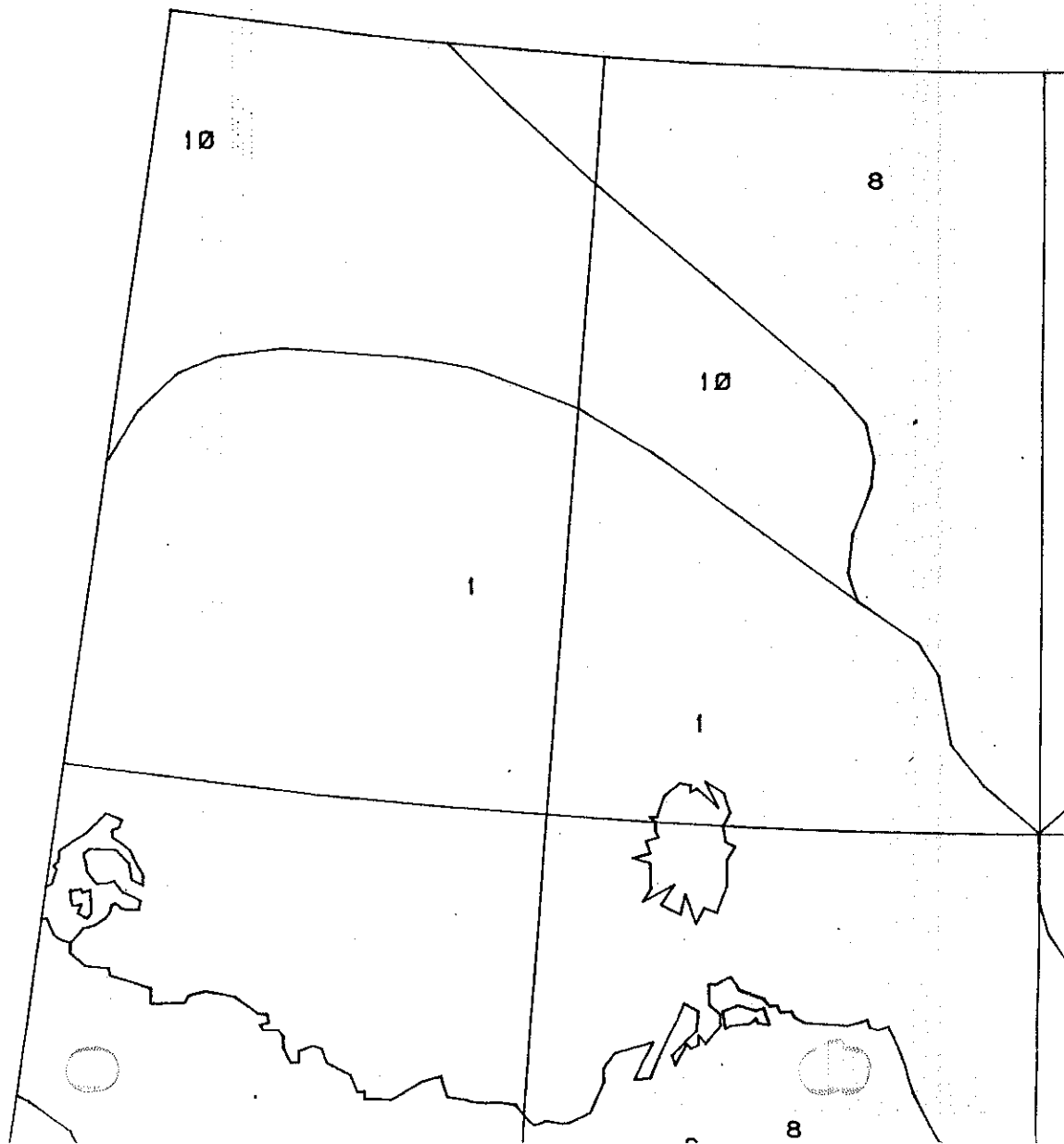

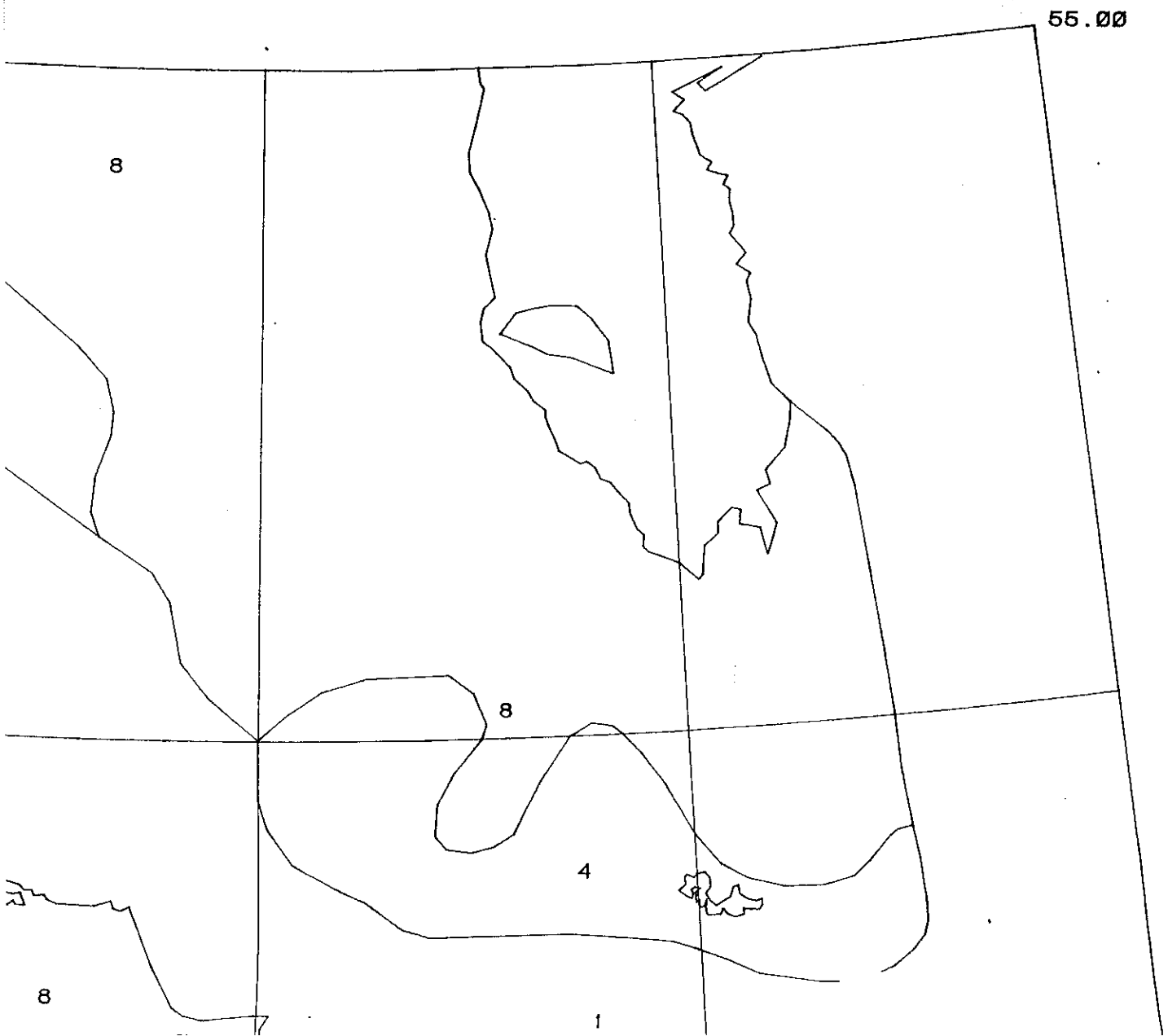
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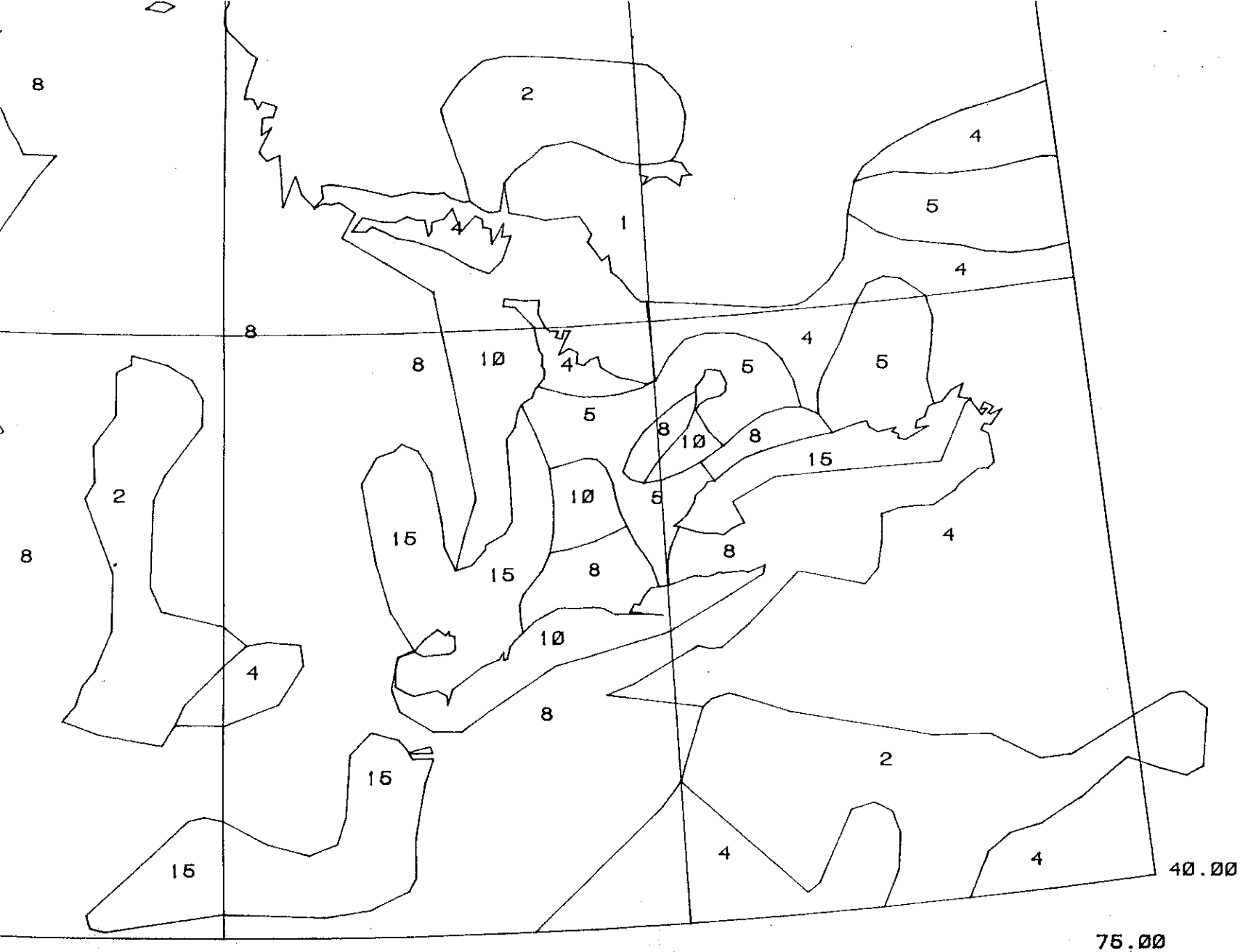

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PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

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STANDARD PARALLELS 37.° 65.°

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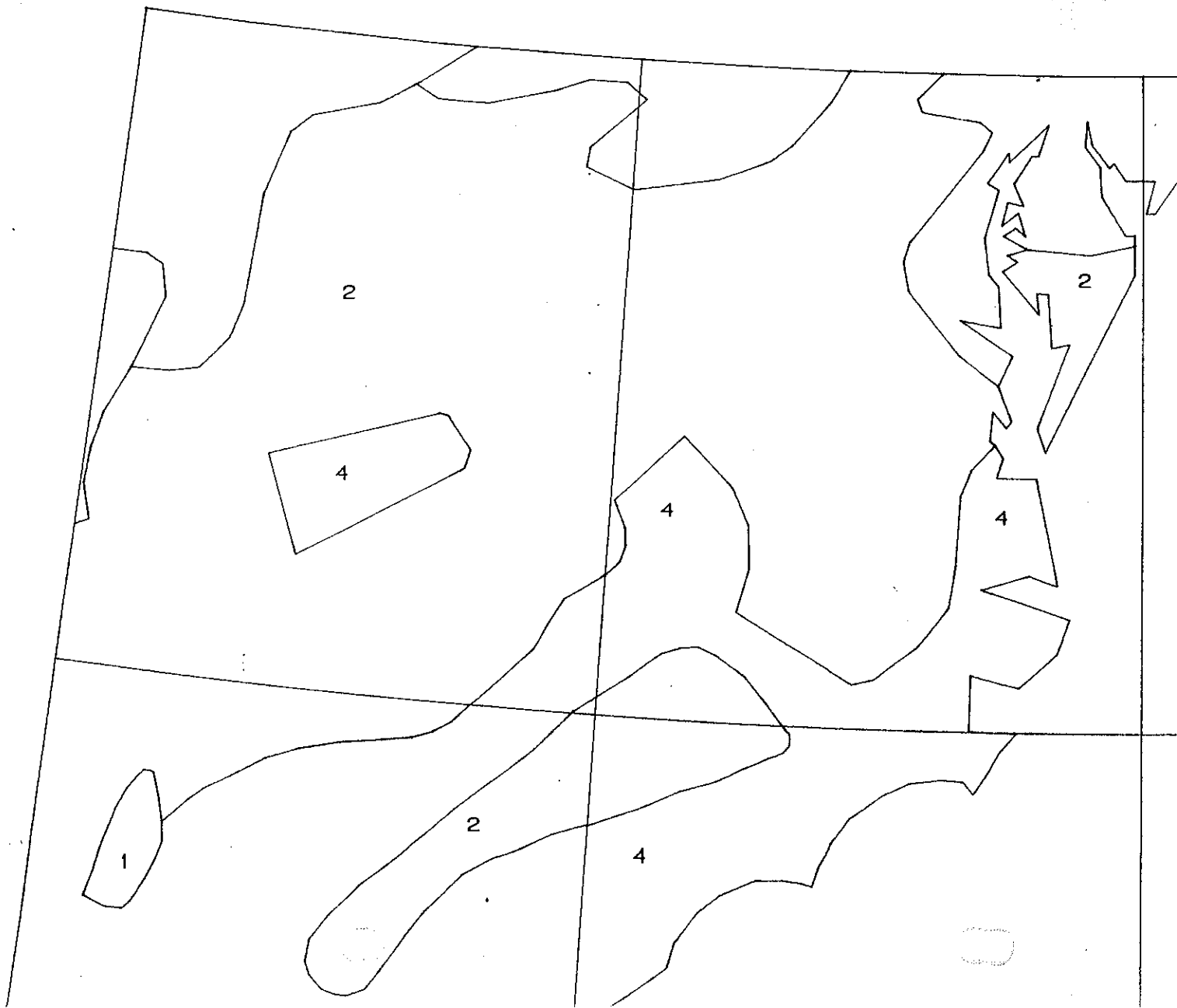

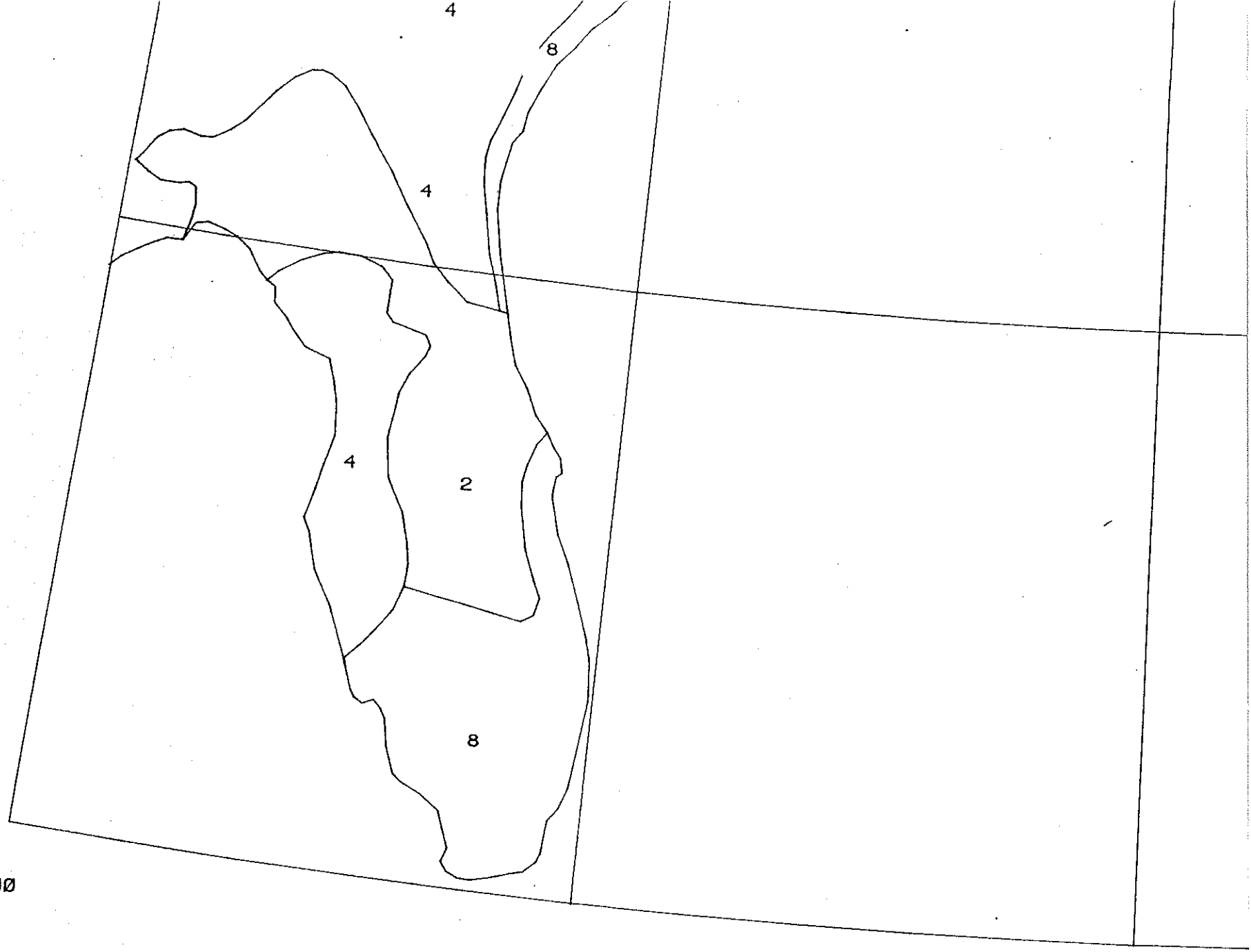

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RALLELES STANDARDS 37.° 65.°

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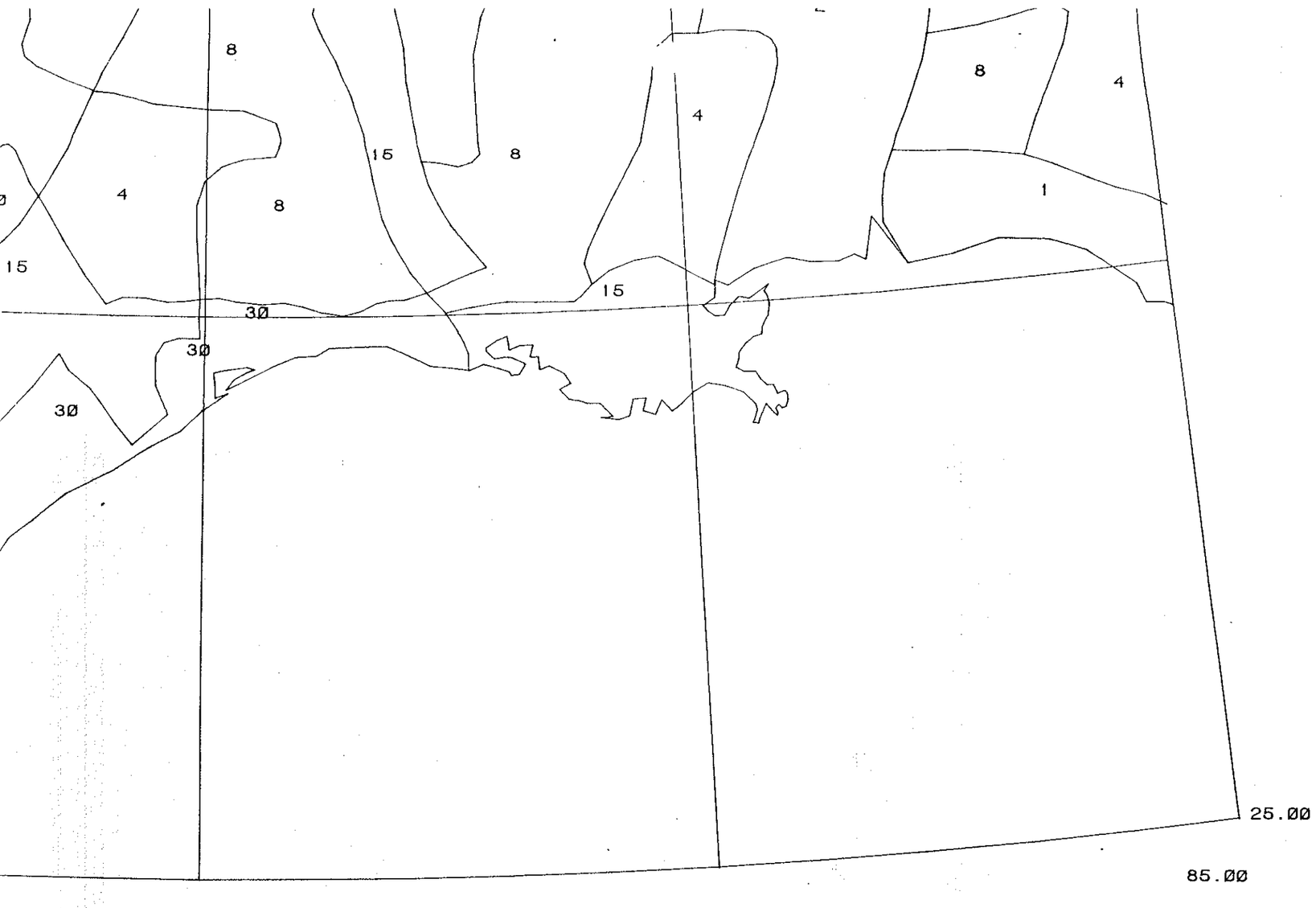

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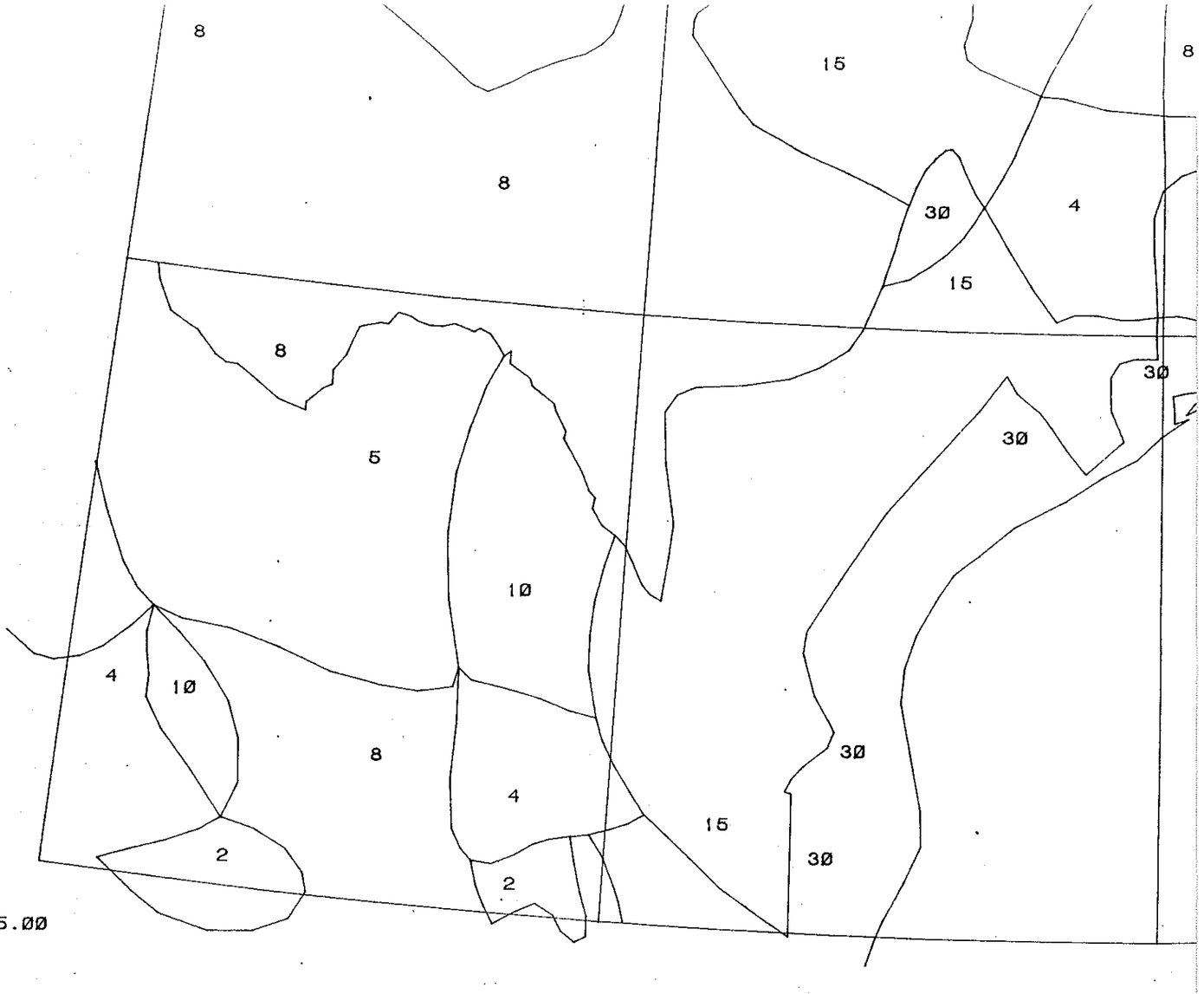
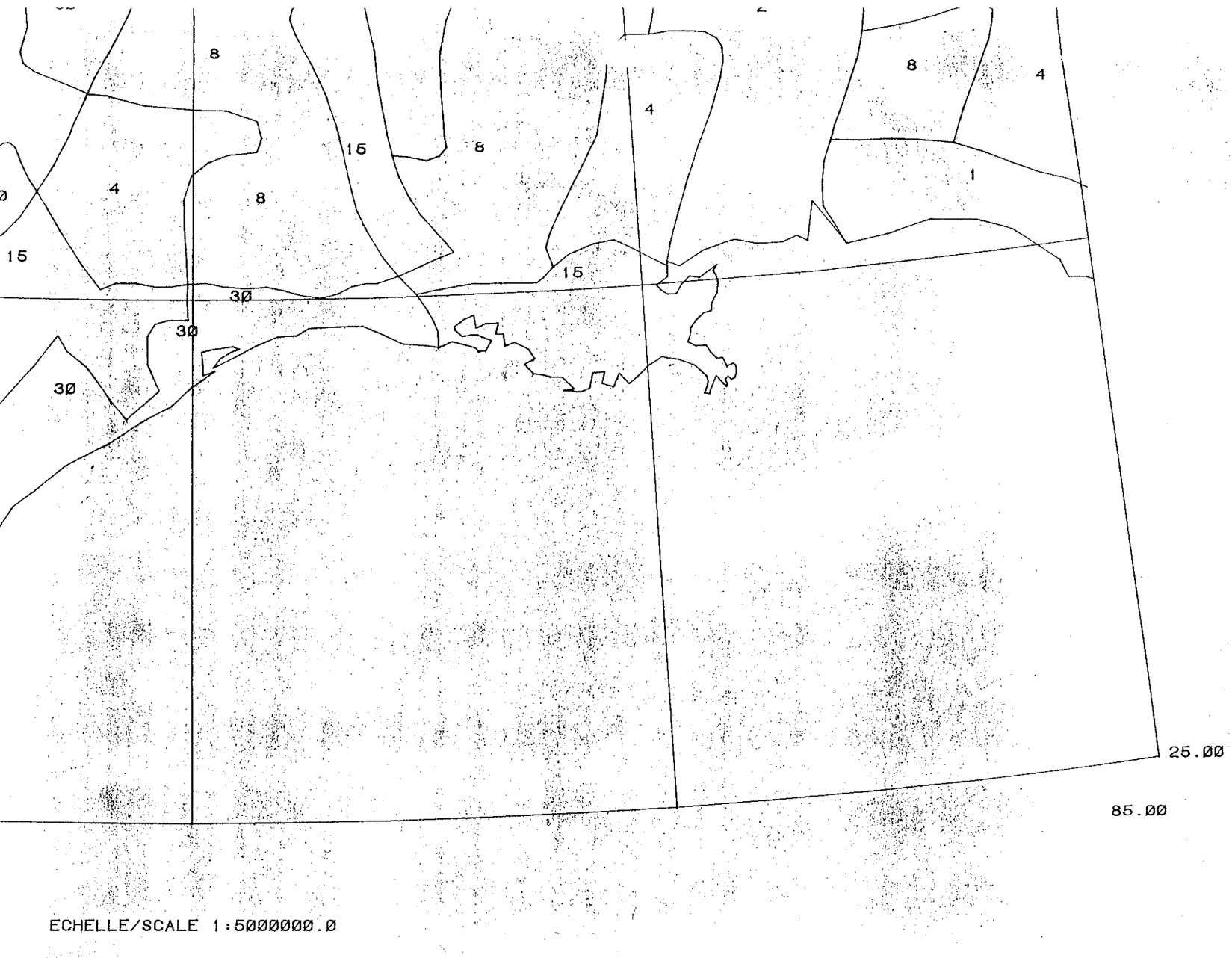


PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:


8
4
15
8
4
8
4
1
15
15
30
30
30
25.00
85.00
ECHELLE/SCALE 1:5000000.0

BRITISH COLUMBIA
ALBERTA
SASKATCHEWAN
MANITOBA
ONTARIO
2
3
4
6
7
WASH.
ORE.
CALIF.
NEV.
IDAHO
MONT.
WYO.
UTAH
ARIZ.
COLO.
N.M.
N.D.
S.D.
NEB.
KAN.
OKLA.
TEXAS
MINN.
IOWA
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MISS.
ALA.
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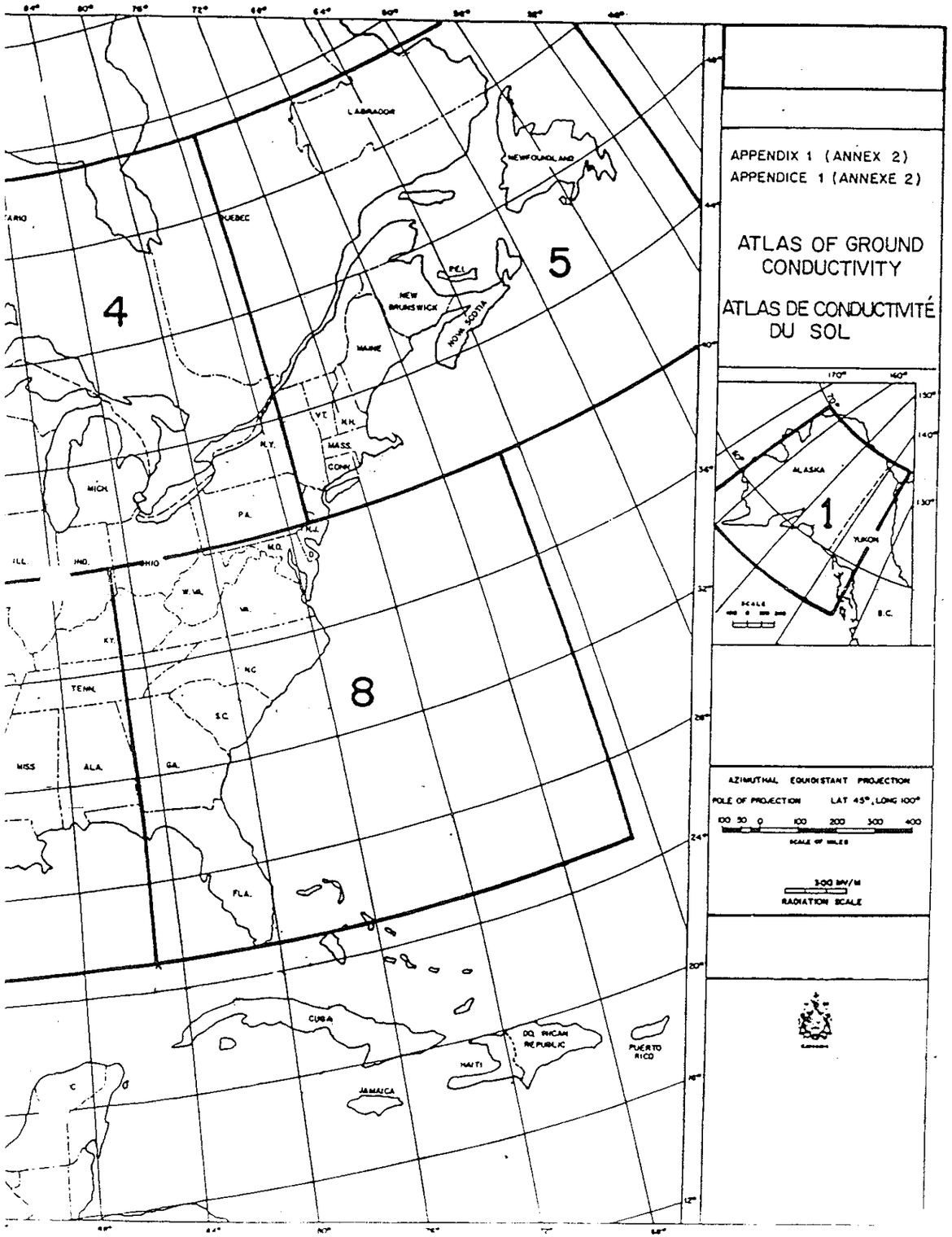
SON.
CHIH.
COAH.
DGO.
ZAC.
NAY.
S.L.P.
JAL.
GTO.
MICHOA.
GRO.
OAX.
CHIS.
YUC.
136°
132°
128°
124°
120°
116°
112°
108°
104°
100°
96°
92°
88°
84°
80°
76°
72°
56°
52°
48°
44°
40°
36°
32°
28°
24°
20°
16°


APPENDIX 1 (ANNEX 2)
APPENDICE 1 (ANNEXE 2)
ATLAS OF GROUND CONDUCTIVITY
ATLAS DE CONDUCTIVITÉ DU SOL
4
5
8
1
LABRADOR
NEWFOUNDLAND
QUEBEC
ONTARIO
MAINE
N.B.
P.E.I.
N.S.
VT.
N.H.
MASS.
CONN.
N.Y.
MICH.
P.A.
N.J.
ILL.
IND.
OHIO
W.VA.
MD.
KY.
TENN.
N.C.
S.C.
MISS.
ALA.
GA.
FLA.
CUBA
HAITI
DO. RICAN REPUBLIC
PUERTO RICO
JAMAICA
ALASKA
YUKON
B.C.
AZIMUTHAL EQUIDISTANT PROJECTION
POLE OF PROJECTION LAT 45°, LONG 100°
100 50 0 100 200 300 400
SCALE OF MILES
300 MV/M
RADIATION SCALE

APPENDIX 1 (ANNEX 2)
APPENDICE 1 (ANNEXE 2)
ATLAS OF GROUND CONDUCTIVITY
ATLAS DE CONDUCTIVITÉ DU SOL
AZIMUTHAL EQUIDISTANT PROJECTION
TRUE SCALE
ÉCHELLE RÉELLE
1
2
3
4
5
6
7
8

LIMITES/LIMITS 55.° 70.° 135.° 185.°

BLOC/

PROJECTION CONIQUE CONFORME DE LAMBERT LAMBERT CONICAL CONFORMAL PROJECTION

PARALLELES STANDARDS 37.° 85.° STANDARD PARALLELS 37.° 85.°

ECHELLE/SCALE 1:6000000.0

49.00
55.00
115.00
135.00
5000
ECHELLE/SCALE 1:60000000
PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°
LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°
LIMITES/LIMITS 49.° 55.° 115.° 135.°

LIMITES/LIMITS 49.° 55.° 85.° 115.°
BLO

PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:6000000.0

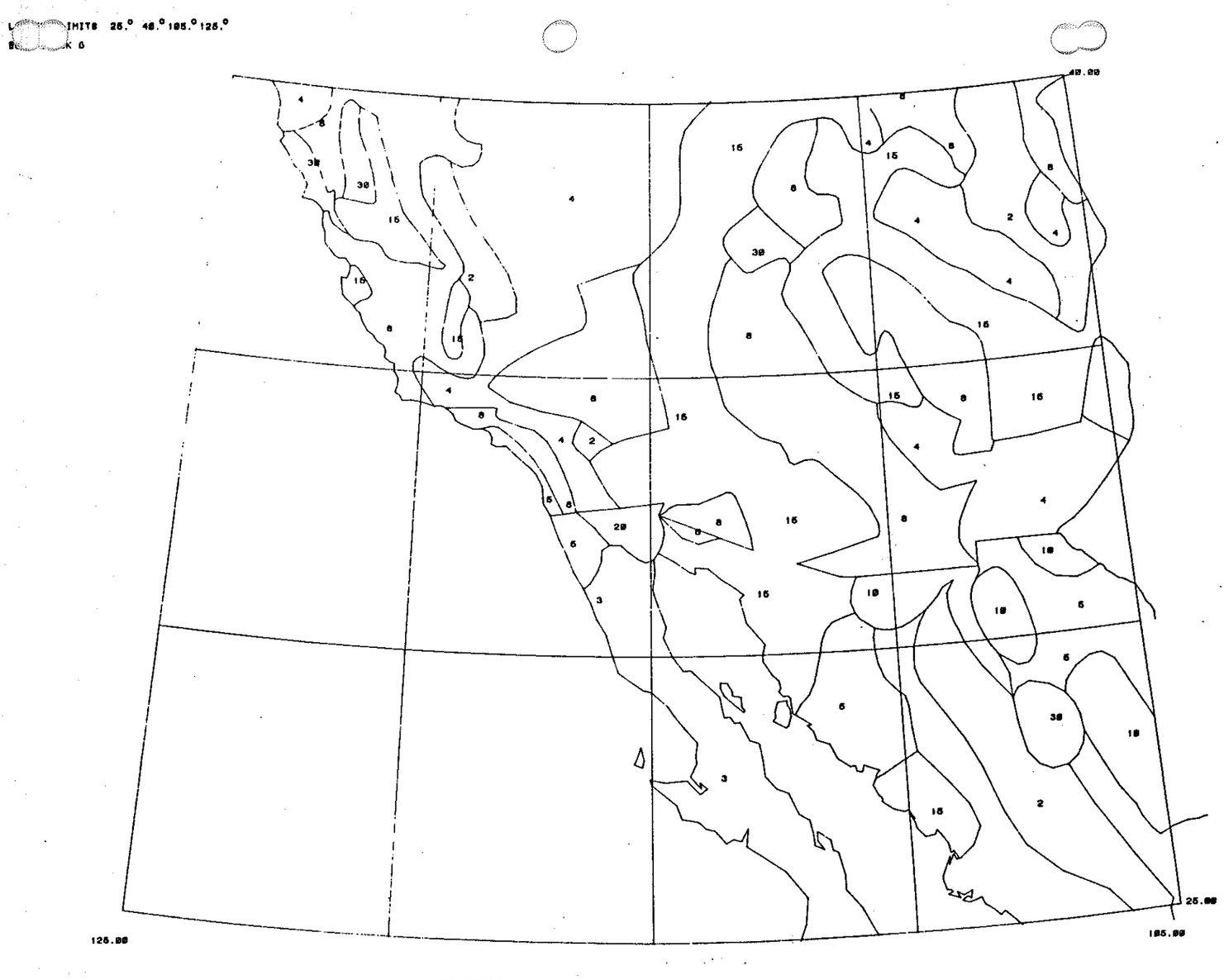
LIMITES 40.° 55.° 75.° 85.°
BLOCS

PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:50000000.0

40.00
55.00
55.00
75.00
LIMITES/LIMITS 40.° 55.° 58.° 75.°
BLOCK 5
PROJECTION CONIQUE CONFORME DE LAMBERT LAMBERT CONICAL CONFORMAL PROJECTION
PARALLELES STANDARDS 37.° 65.° STANDARD PARALLELS 37.° 65.°
ECHELLE/SCALE 1:5000000.0



PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.° .

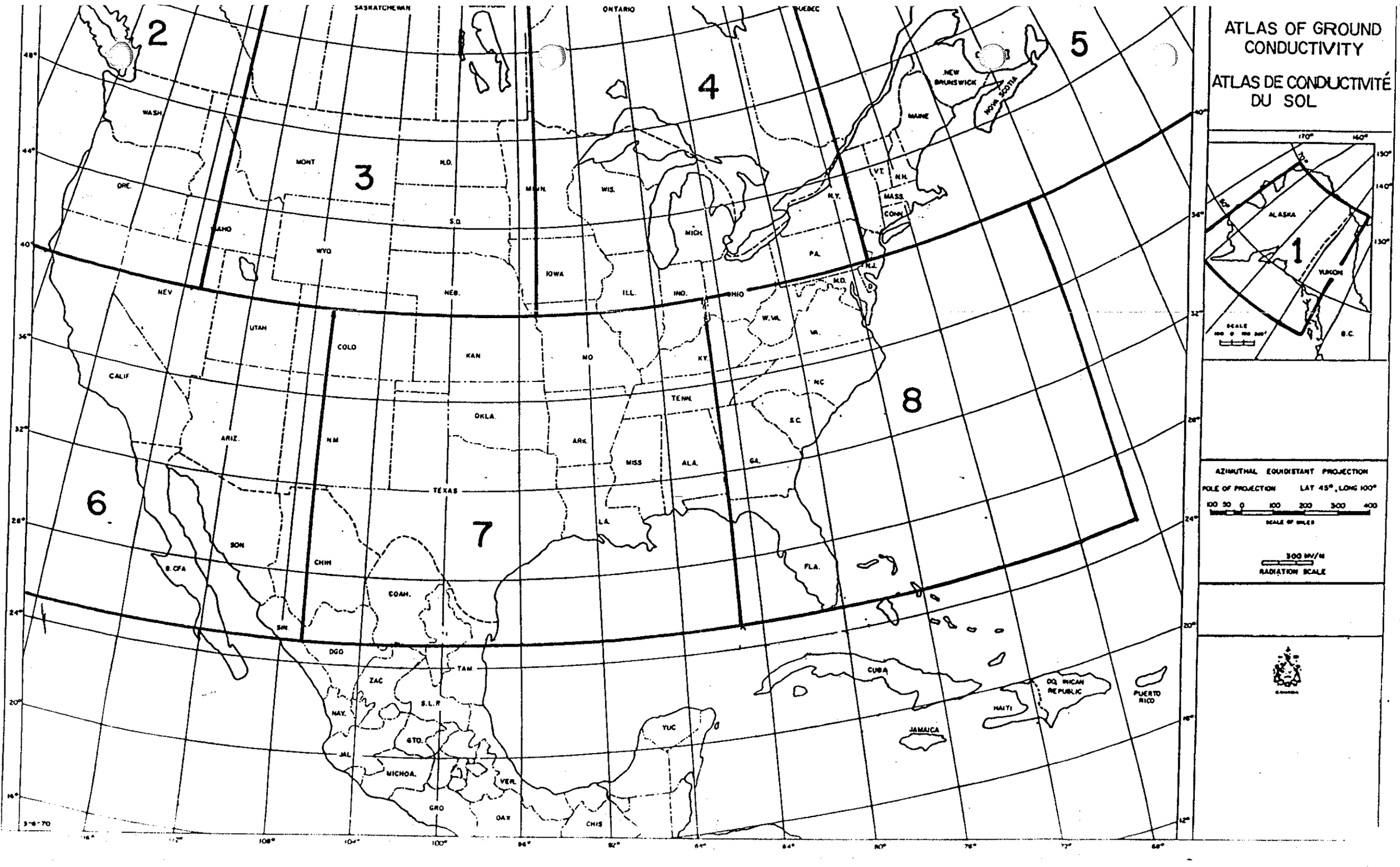
LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

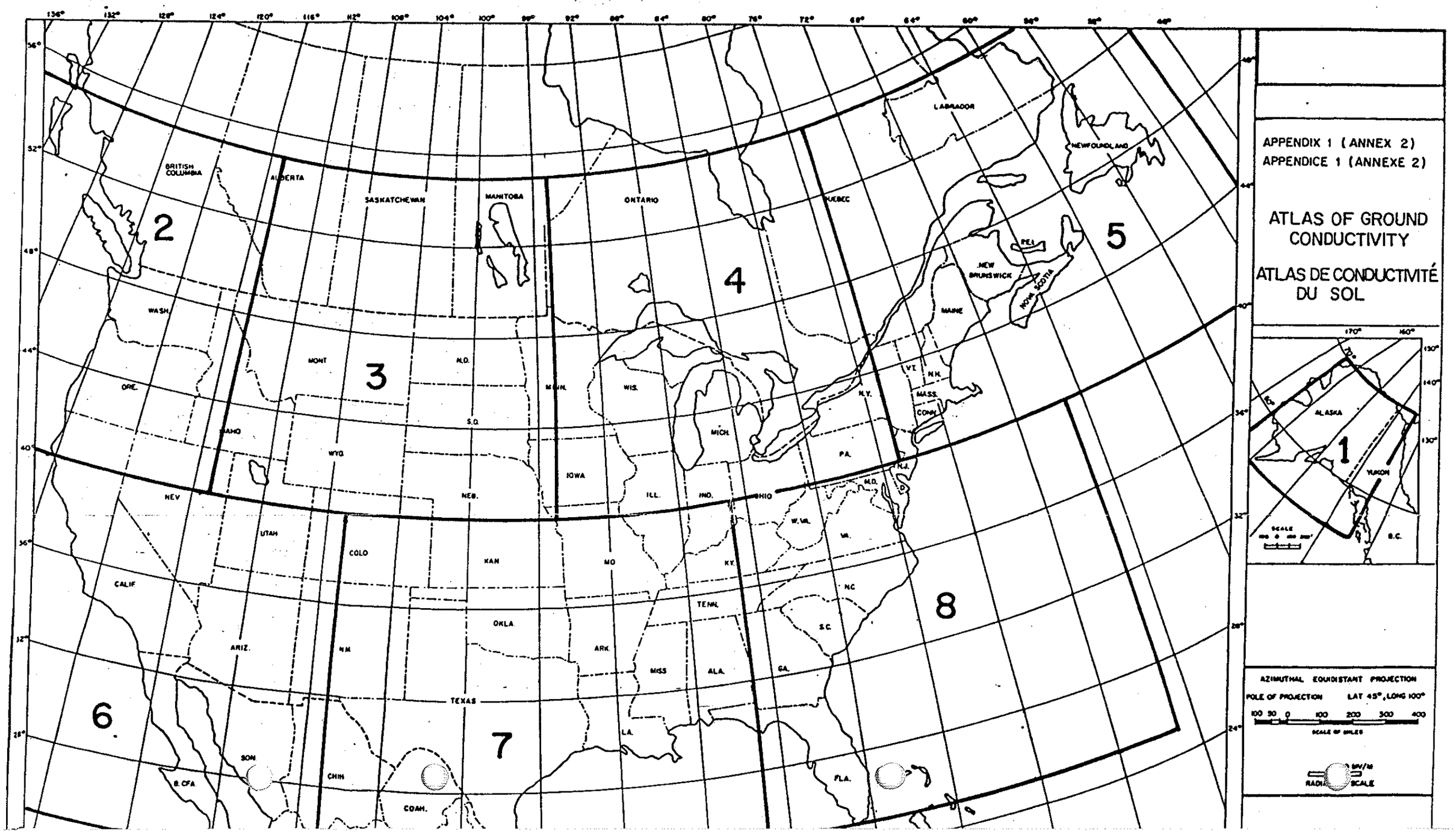
ECHELLE/SCALE 1:5000000.0

25.00
85.00
40.00
105.00
LIMITES/LIMITS 25.° 40.° 85.° 105.°
BLOCK 7
PROJECTION CONIQUE CONFORME DE LAMBERT LAMBERT CONICAL CONFORMAL PROJECTION
PARALLELES STANDARDS 37.° 85.° STANDARD PARALLELS 37.° 85.°
ECHELLE/SCALE 1:6000000.0

25.00
65.00
49.00
5000
2
4
2
4
4
2
8
4
2
4
1
2
8
85.00
LIMITES/LIMITS 25.° 49.° 65.° 85.°
ECHELLE/SCALE 1:50000000.0
PROJECTION CONIQUE CONFORME DE LAMBERT LAMBERT CONICAL CONFORMAL PROJECTION
PARALLELES STANDARDS 37.° 65.° STANDARD PARALLELS 37.° 65.°

APPENDIX 1 (ANNEX 2)
APPENDICE 1 (ANNEXE 2)
ATLAS OF GROUND CONDUCTIVITY
ATLAS DE CONDUCTIVITÉ DU SOL
1
2
3
4
5
6
7
8
ALBERS EQUIVALENT PROJECTION
1:20,000,000
1:20,000,000 RADIATION SCALE


ATLAS OF GROUND CONDUCTIVITY
ATLAS DE CONDUCTIVITÉ DU SOL
1
2
3
4
5
6
7
8
SASKATCHEWAN
ONTARIO
QUEBEC
NEW BRUNSWICK
NOVA SCOTIA
MAINE
WASH
ORE.
MONT
N.D.
MINN.
WIS.
MICH.
N.Y.
VT.
N.H.
MASS.
CONN.
IDAHO
WYO
S.D.
IOWA
PA.
N.J.
NEV
NEB.
ILL.
IND.
OHIO
W.VA.
MD.
UTAH
COLO
KAN
MO
KY.
VA.
CALIF
TENN.
N.C.
OKLA.
S.C.
ARIZ.
N.M.
ARK.
MISS
ALA.
GA.
TEXAS
LA.
FLA.
B. CFA
SON
CHIH
COAH.
SIN.
DGO
TAM
ZAC
S.L.P.
NAY.
GTO.
JAL.
MICHOA.
VER.
GRO
OAX
CHIS
YUC
CUBA
HAITI
DO. RICAN REPUBLIC
PUERTO RICO
JAMAICA
ALASKA
YUKON
B.C.
AZIMUTHAL EQUIDISTANT PROJECTION
POLE OF PROJECTION LAT 45°, LONG 100°
100 50 0 100 200 300 400
SCALE OF MILES
300 MV/M
RADIATION SCALE
9-16-70


APPENDIX 1 (ANNEX 2)
APPENDICE 1 (ANNEXE 2)
ATLAS OF GROUND CONDUCTIVITY
ATLAS DE CONDUCTIVITÉ DU SOL
1
2
3
4
5
6
7
8
BRITISH COLUMBIA
ALBERTA
SASKATCHEWAN
MANITOBA
ONTARIO
QUEBEC
LABRADOR
NEWFOUNDLAND
NEW BRUNSWICK
P.E.I.
NOVA SCOTIA
MAINE
WASH.
ORE.
MONT
N.D.
MINN.
WIS.
MICH.
N.Y.
VT.
N.H.
MASS.
CONN.
R.I.
PA.
N.J.
MD.
DEL.
IDAHO
WYO.
S.D.
NEB.
IOWA
ILL.
IND.
OHIO
W.VA.
VA.
NEV.
UTAH
COLO.
KAN.
MO.
KY.
N.C.
TENN.
S.C.
CALIF.
ARIZ.
N.M.
OKLA.
ARK.
MISS.
ALA.
GA.
LA.
TEXAS
FLA.
SON.
CHIH.
COAH.
B. CFA.
ALASKA
YUKON
B.C.
AZIMUTHAL EQUIDISTANT PROJECTION
POLE OF PROJECTION LAT 45°, LONG 100°
100 50 0 100 200 300 400
SCALE OF MILES
RADIO SCALE
MV/M

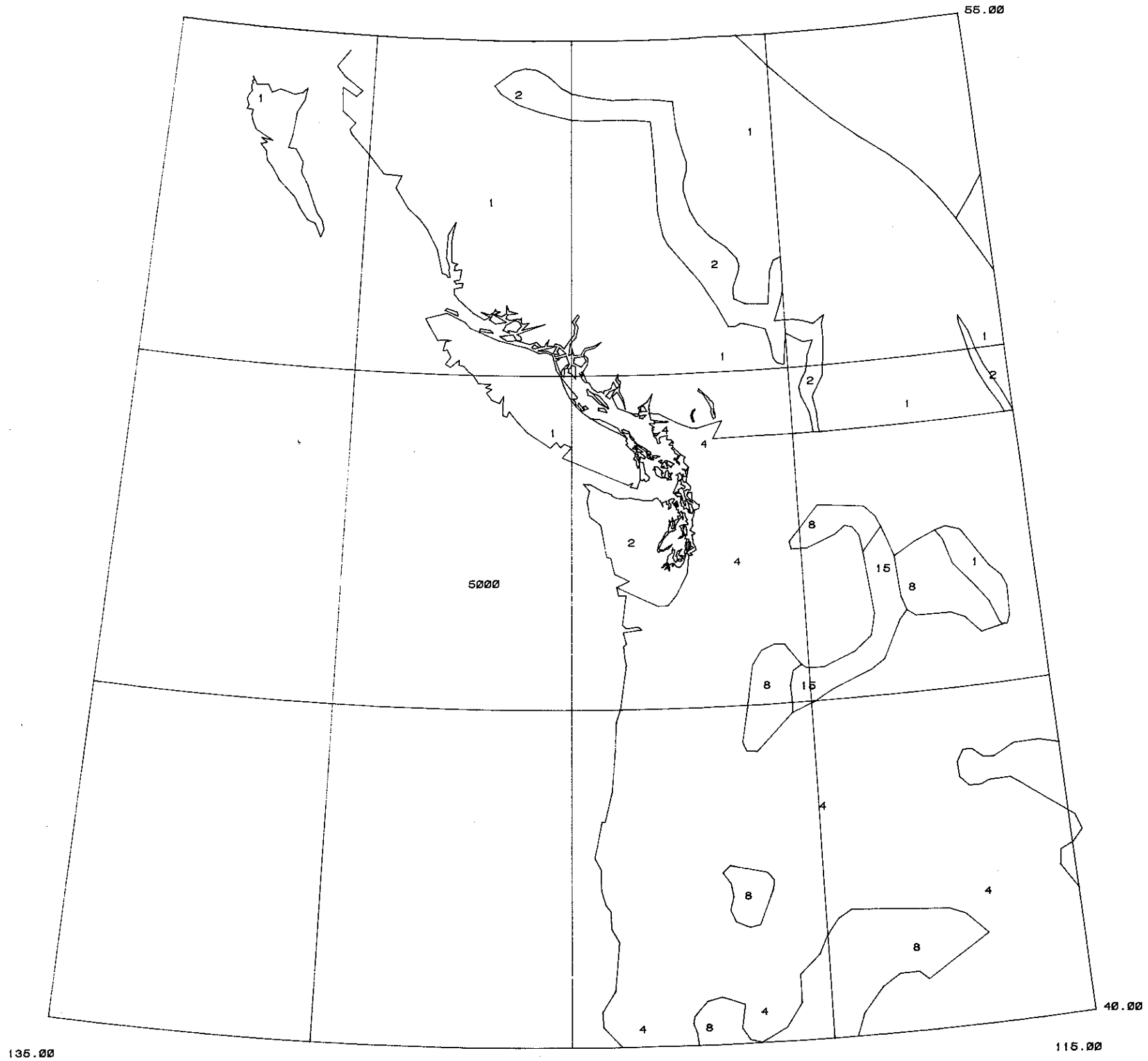
LIMITES/LIMITS 55.° 70.° 135.° 165.°

BLOC/BLOCK 1

70.00
4
2
4
2
4
1
2
4
2
4
4
2
2
2

LIMITES/LIMITS 40.° 55.° 115.° 135.°

BLOC/BLOCK 2



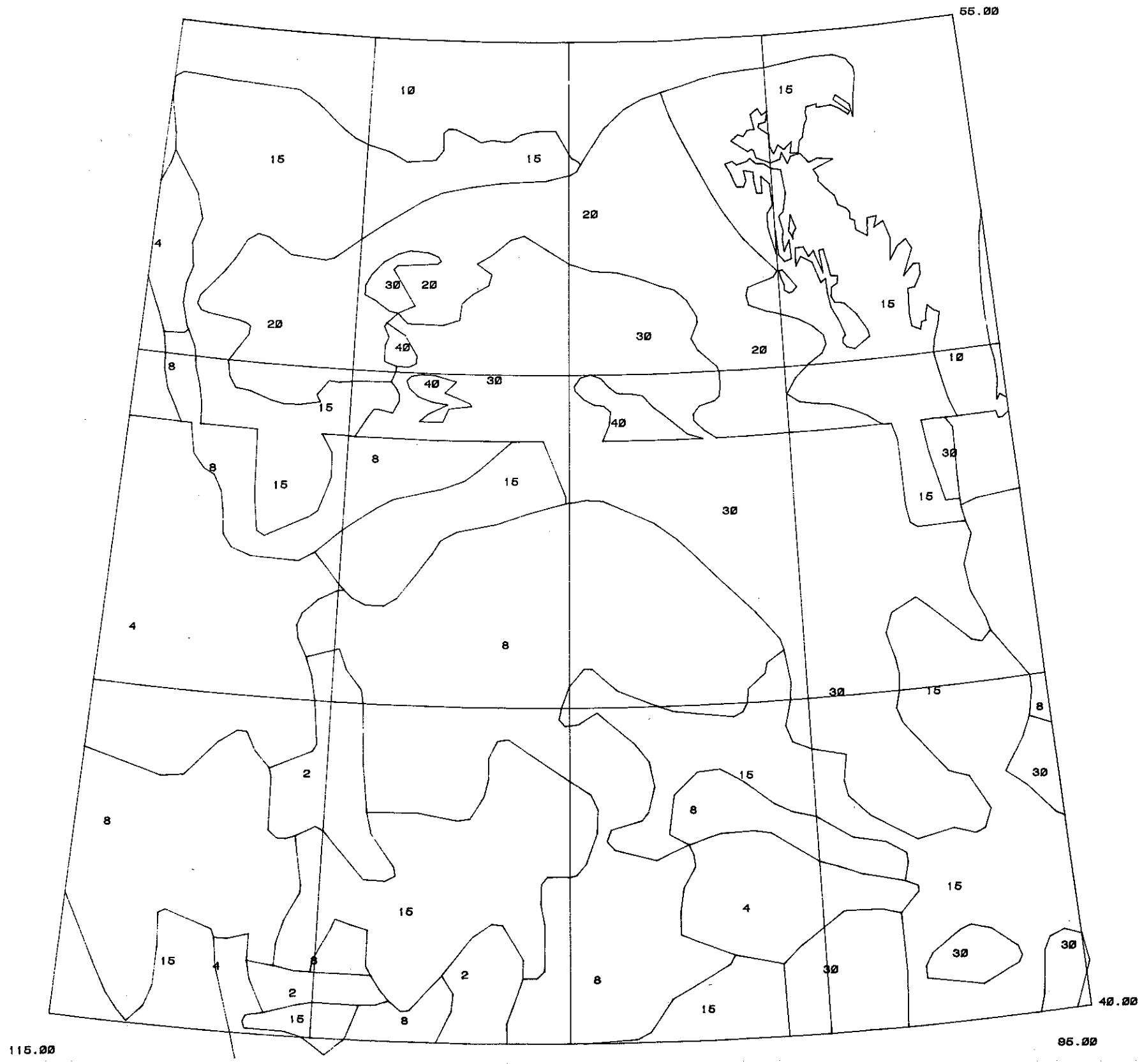
PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:5000000.0

LIMITES/LIMITS 40.° 55.° 95.° 115.°

BLOC/BLOCK 3

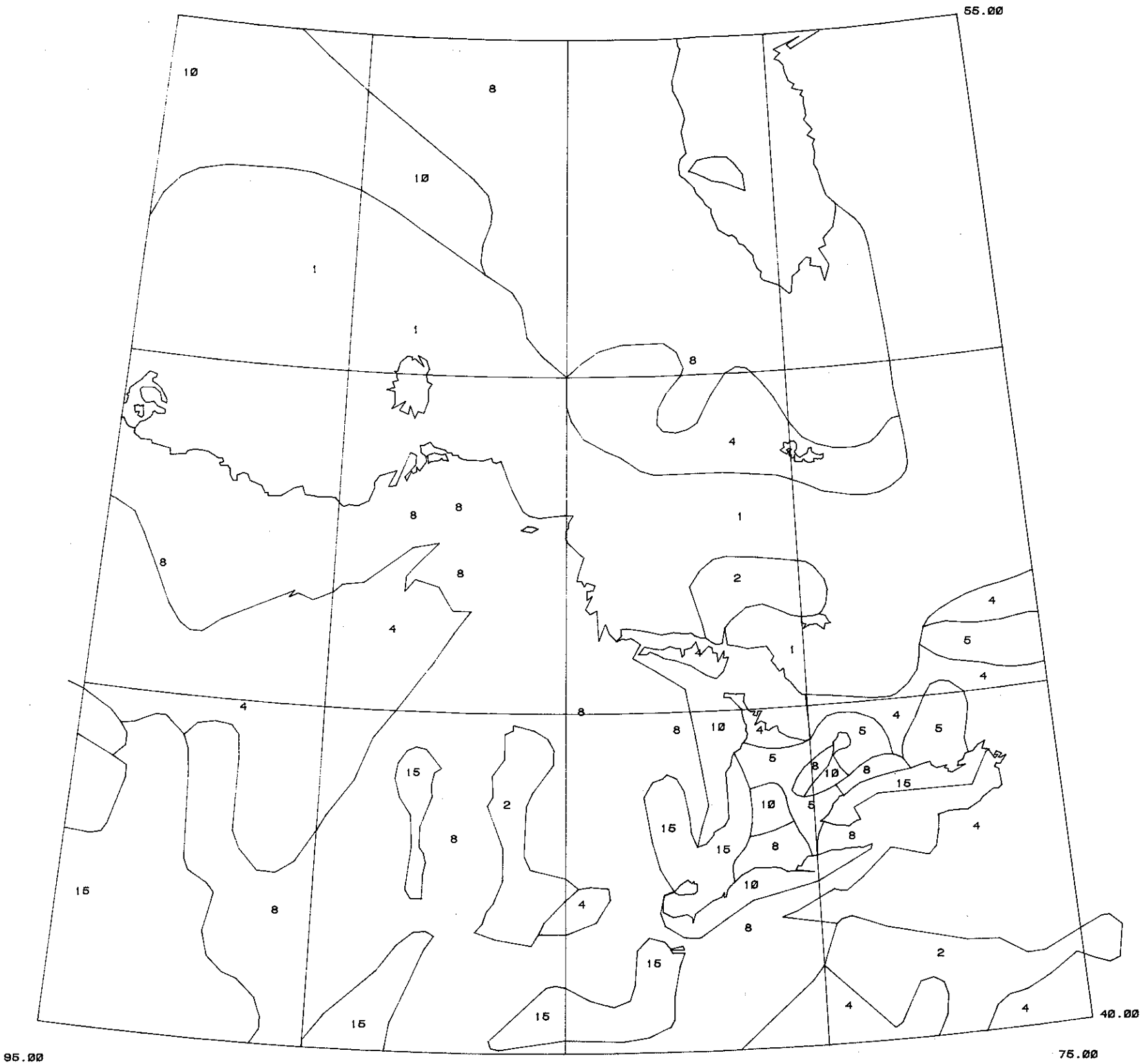


PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:5000000.0

LIMITES/LIMITS 40.° 55.° 75.° 95.°
BLOC/BLOCK 4



PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:5000000.0

LIMITES/LIMITS 40.° 55.° 60.° 75.°

BLOC/BLOCK 5

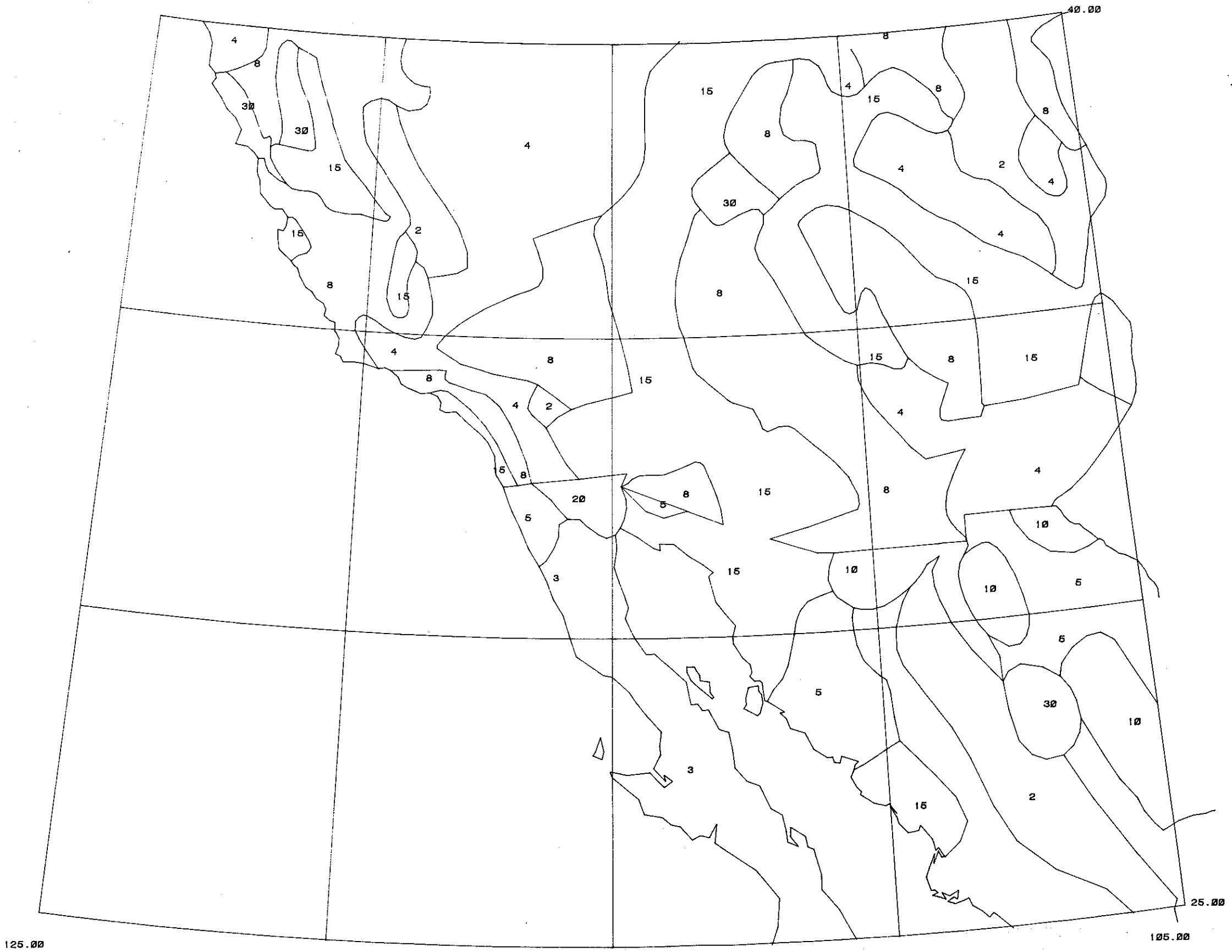
PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:5000000.0

LIMITES/LIMITS 25.° 40.° 105.° 125.°

BLOC/BLOCK 6



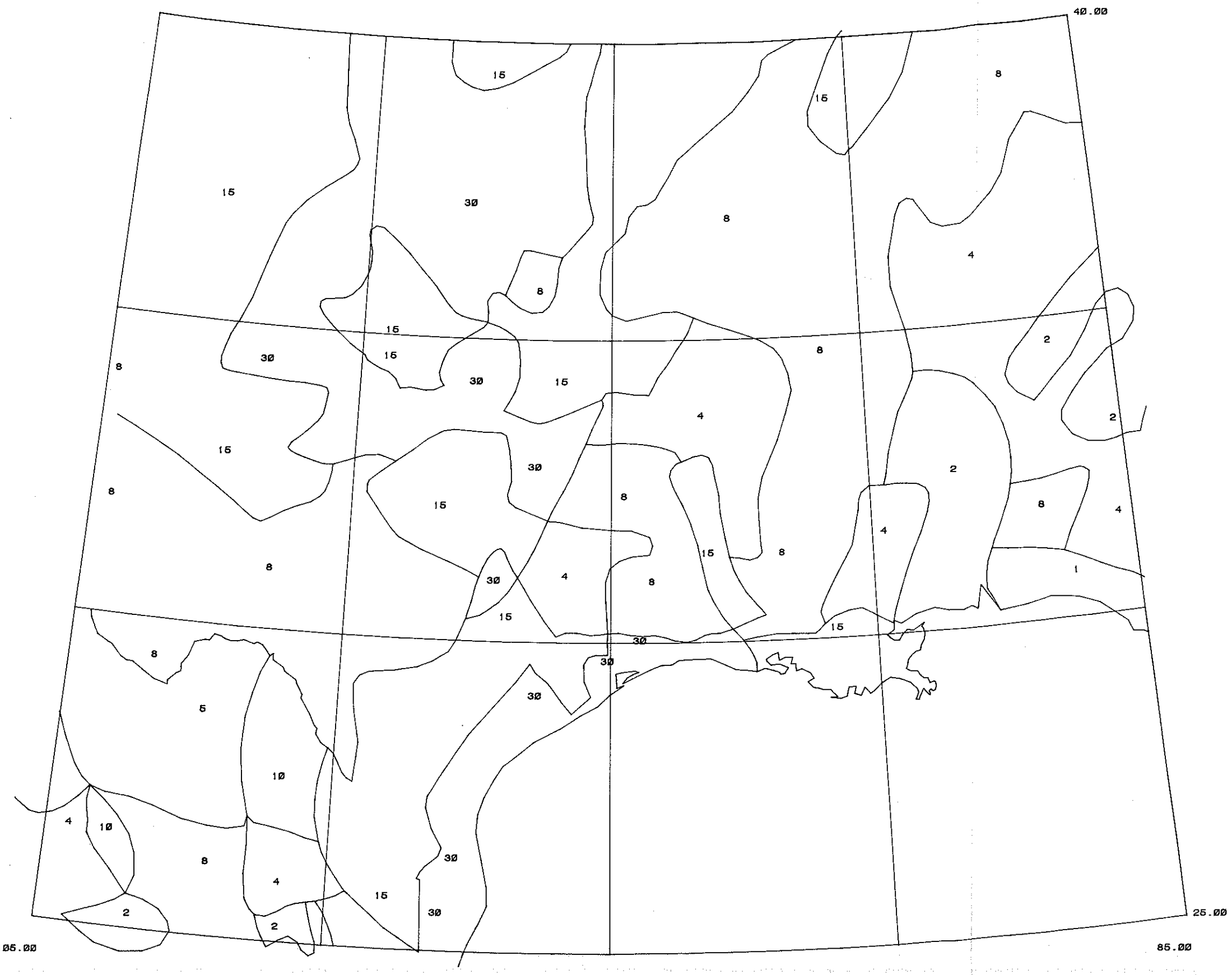
PROJECTION CONIQUE CONFORME DE LAMBERT LAMBERT CONICAL CONFORMAL PROJECTION

PARALLELES STANDARDS 37.° 65.° STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:5000000.0

LIMITES/LIMITS 25.° 40.° 85.° 105.°

BLOC/BLOCK 7



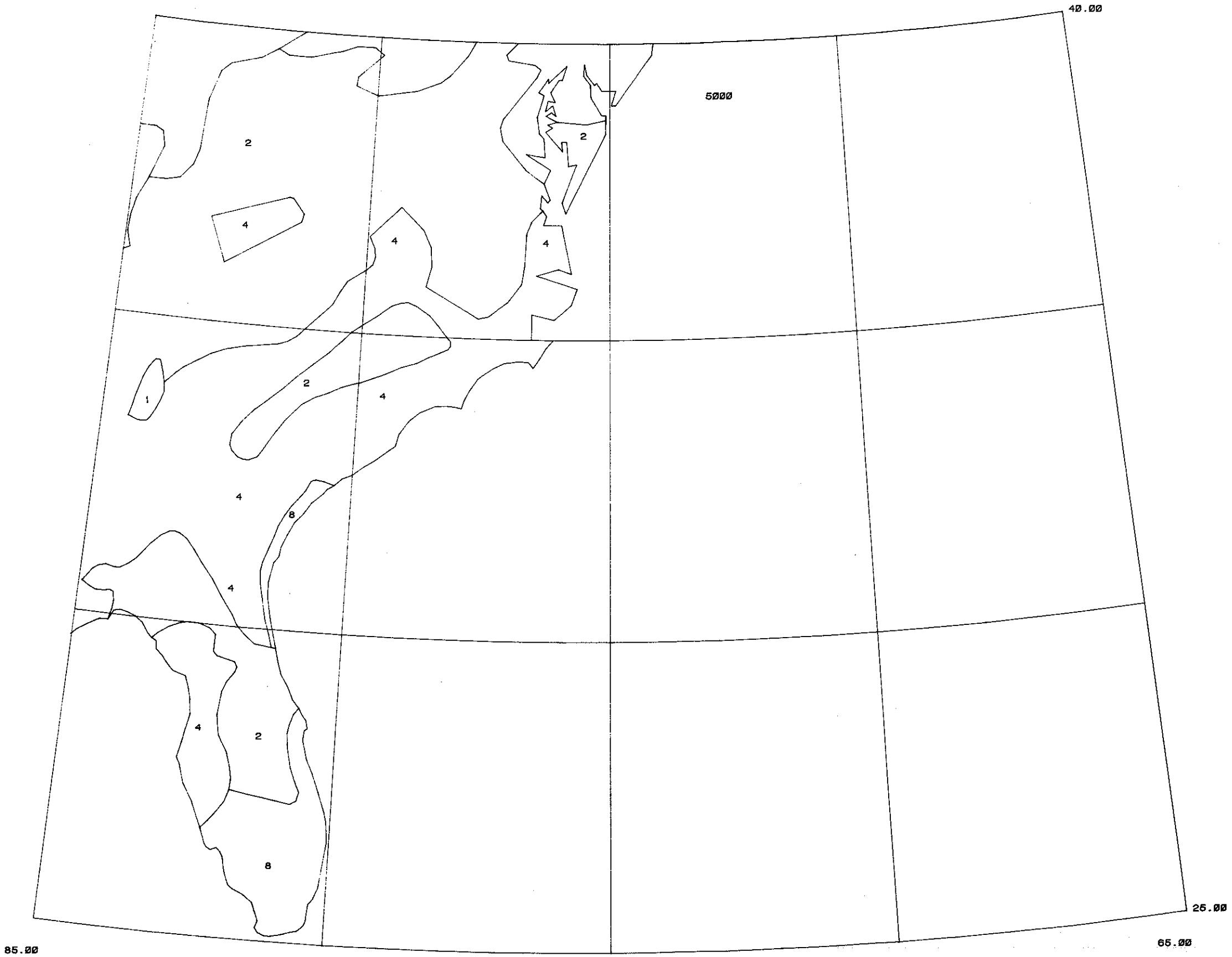
PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:5000000.0

LIMITES/LIMITS 25.° 40.° 65.° 85.°

BLOC/BLOCK 8



PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:5000000.0

LIMITES/LIMITS 55.° 70.° 135.° 165.°
BLOC/BLOCK 1

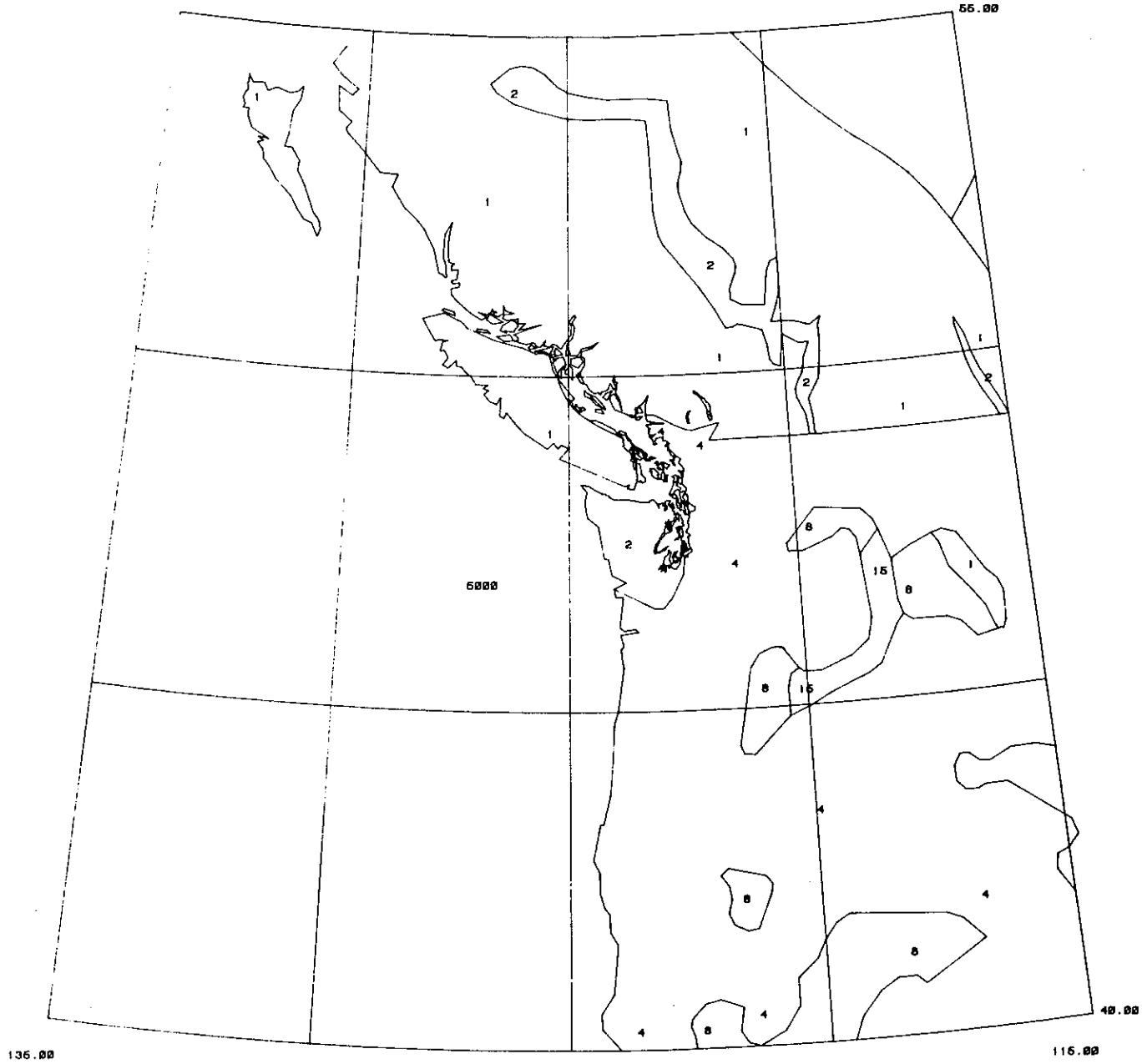
CTION CONIQUE CONFORME DE LAMBERT
LELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

LLE/SCALE 1:5000000.0

LIMITES/LIMITS 40.° 55.° 115.° 135.°

BLOC/BLOCK 2

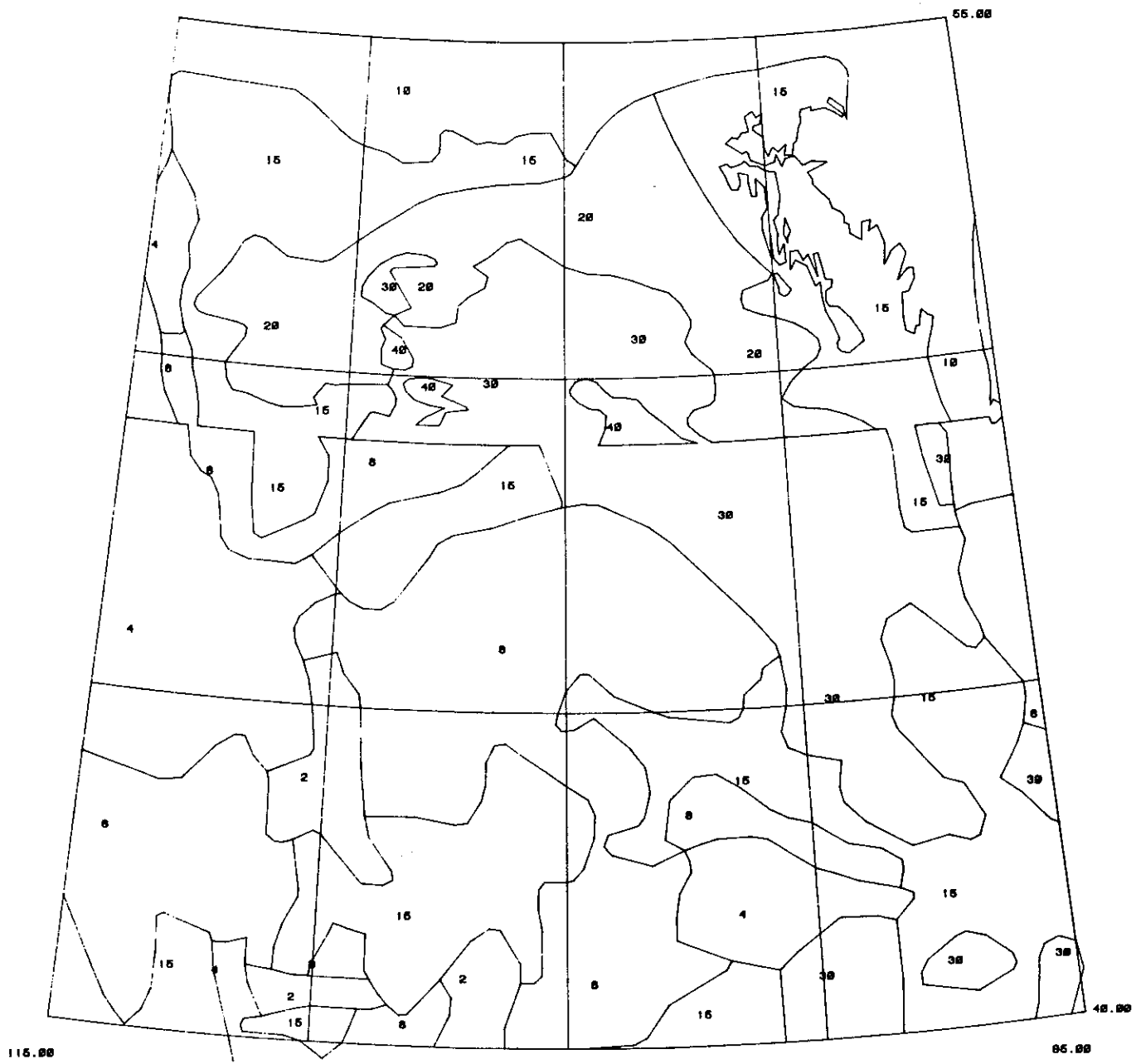


ECTION CONIQUE CONFORME DE LAMBERT
ALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

HELLE/SCALE 1:50000000.0

LIMITES/LIMITS 40.° 65.° 95.° 115.°
BLOC/BLOCK 3



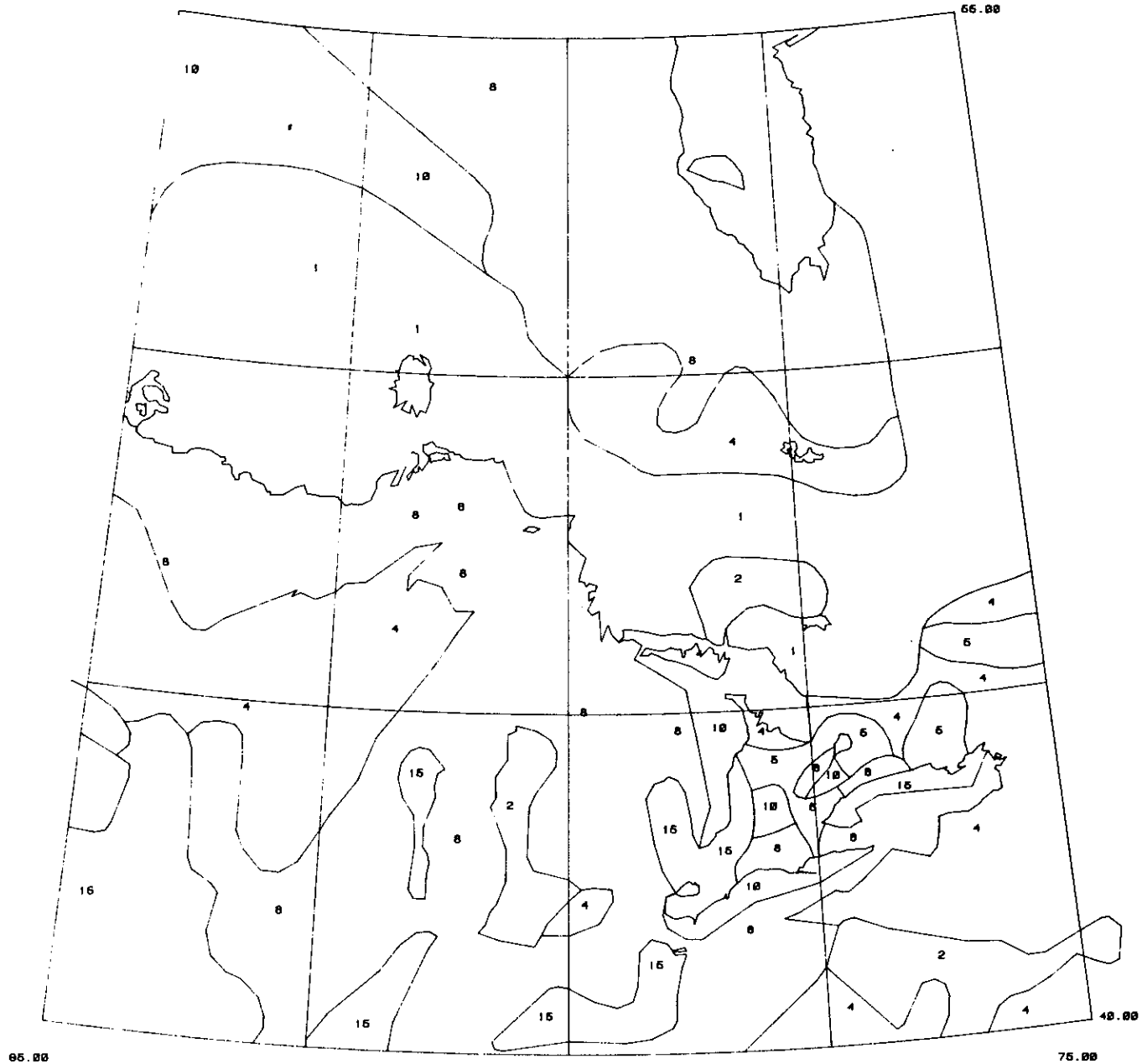
CTION CONIQUE CONFORME DE LAMBERT
LELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ELLE/SCALE 1:5000000.0

LIMITES/LIMITS 40.° 55.° 75.° 95.°

BLOC/BLOCK 4



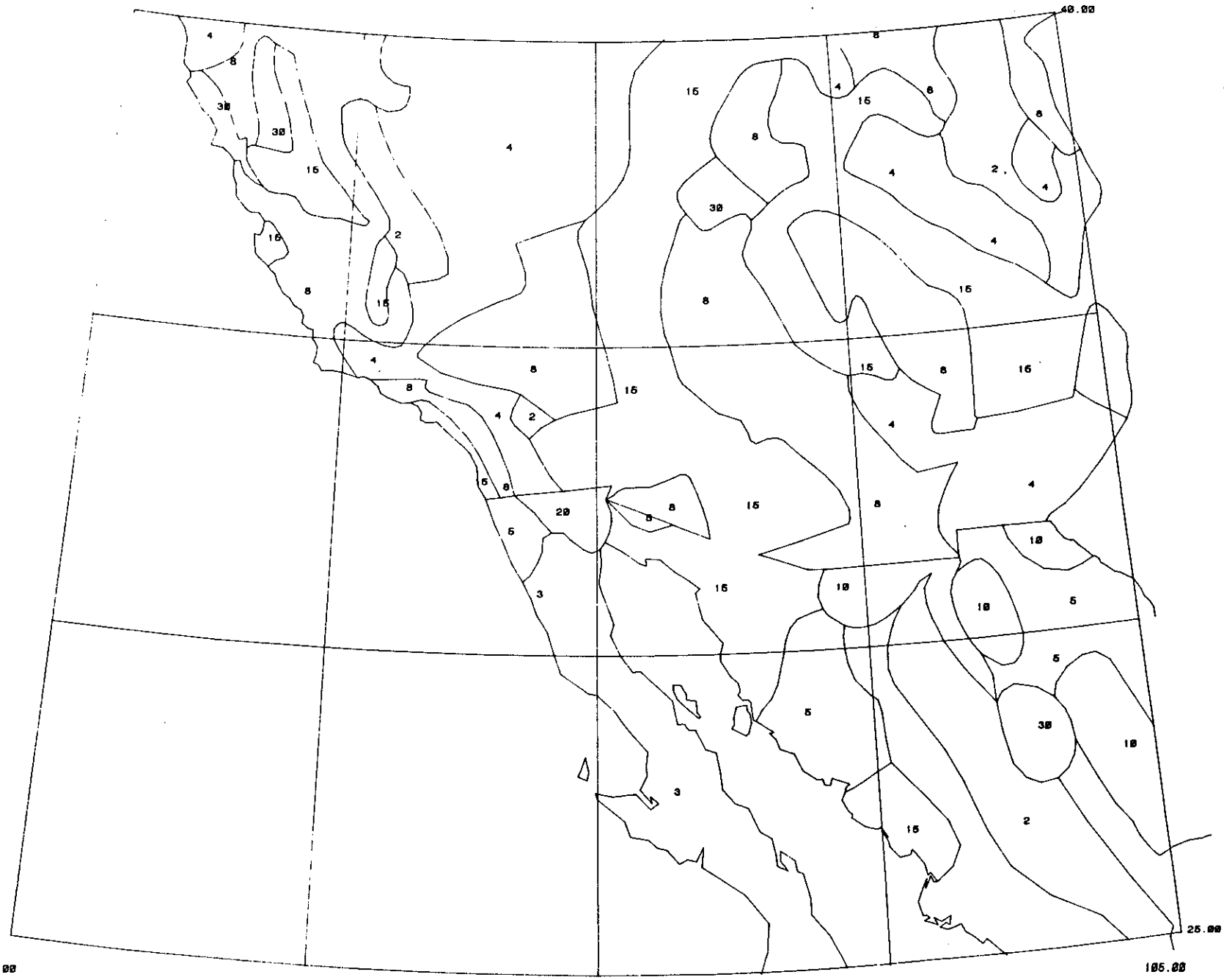
CTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 55.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 55.°

CHELLE/SCALE 1:5000000.0

LIMITES/LIMITS 25.° 40.° 105.° 125.°

BLOC/BLOCK 6



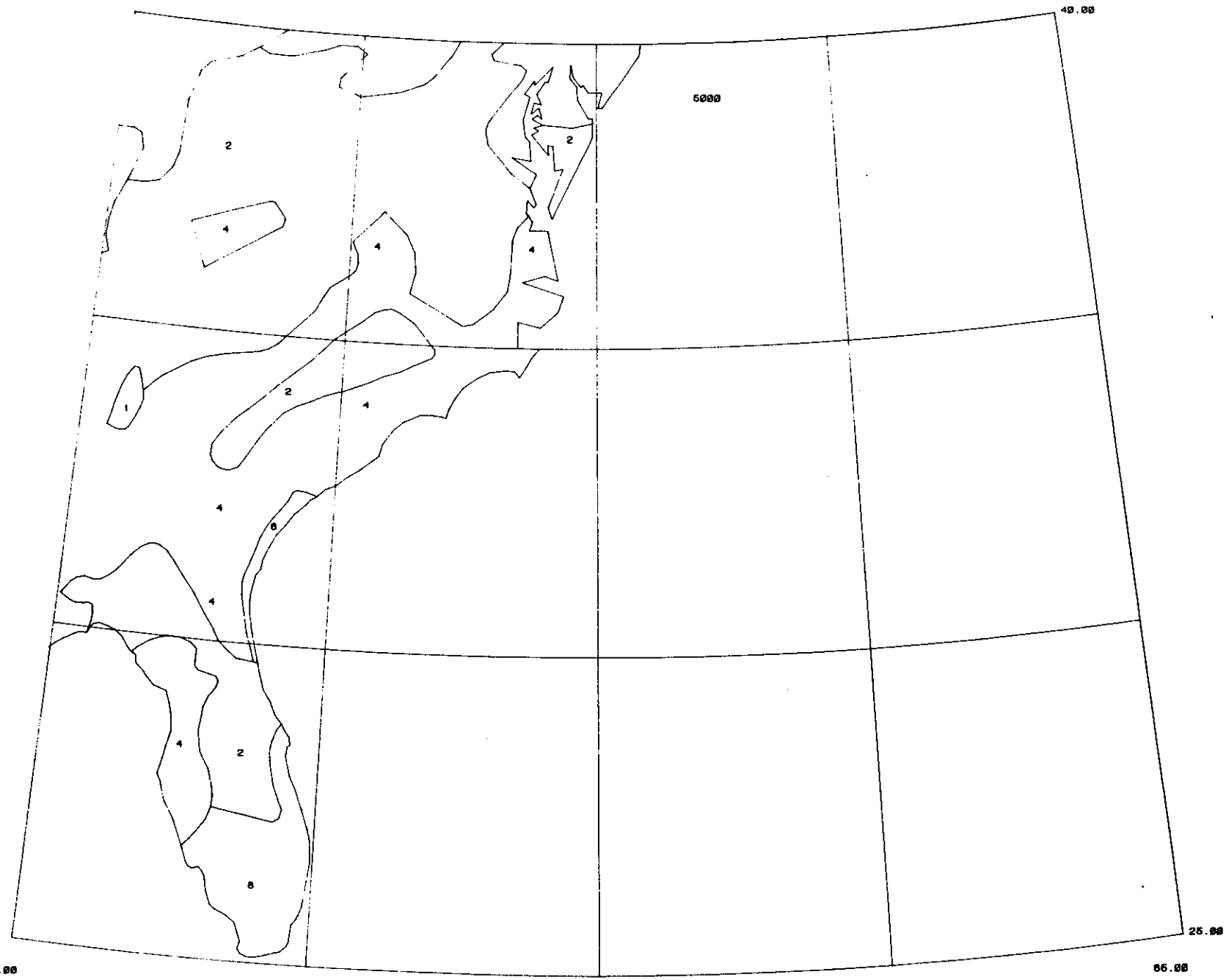
PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ÉCHELLE/SCALE 1:5000000.0

LIMITES/LIMITS 25.° 40.° 65.° 85.°

BLOC/BLOCK 8



PROJECTION CONIQUE CONFORME DE LAMBERT
PARALLELES STANDARDS 37.° 65.°

LAMBERT CONICAL CONFORMAL PROJECTION
STANDARD PARALLELS 37.° 65.°

ECHELLE/SCALE 1:5000000.0