

COLUMBIA BROADCASTING SYSTEM, INC.

485 MADISON AVENUE, NEW YORK 22, N.Y.

WICKERSHAM 2-2000

GENERAL ENGINEERING DEPARTMENT

WILLIAM B. LODGE

DIRECTOR

June 13, 1947

Dear George:

We are sorry that we did not have sufficient copies of our exhibit for the hearing (Docket 8333).

Enclosed please find a set for you.

GEORGE C. DAVIS  
RECEIVED  
JUN 14 1947  
REGISTERED  
WASHINGTON, D. C.

Very truly yours,

*Bill*

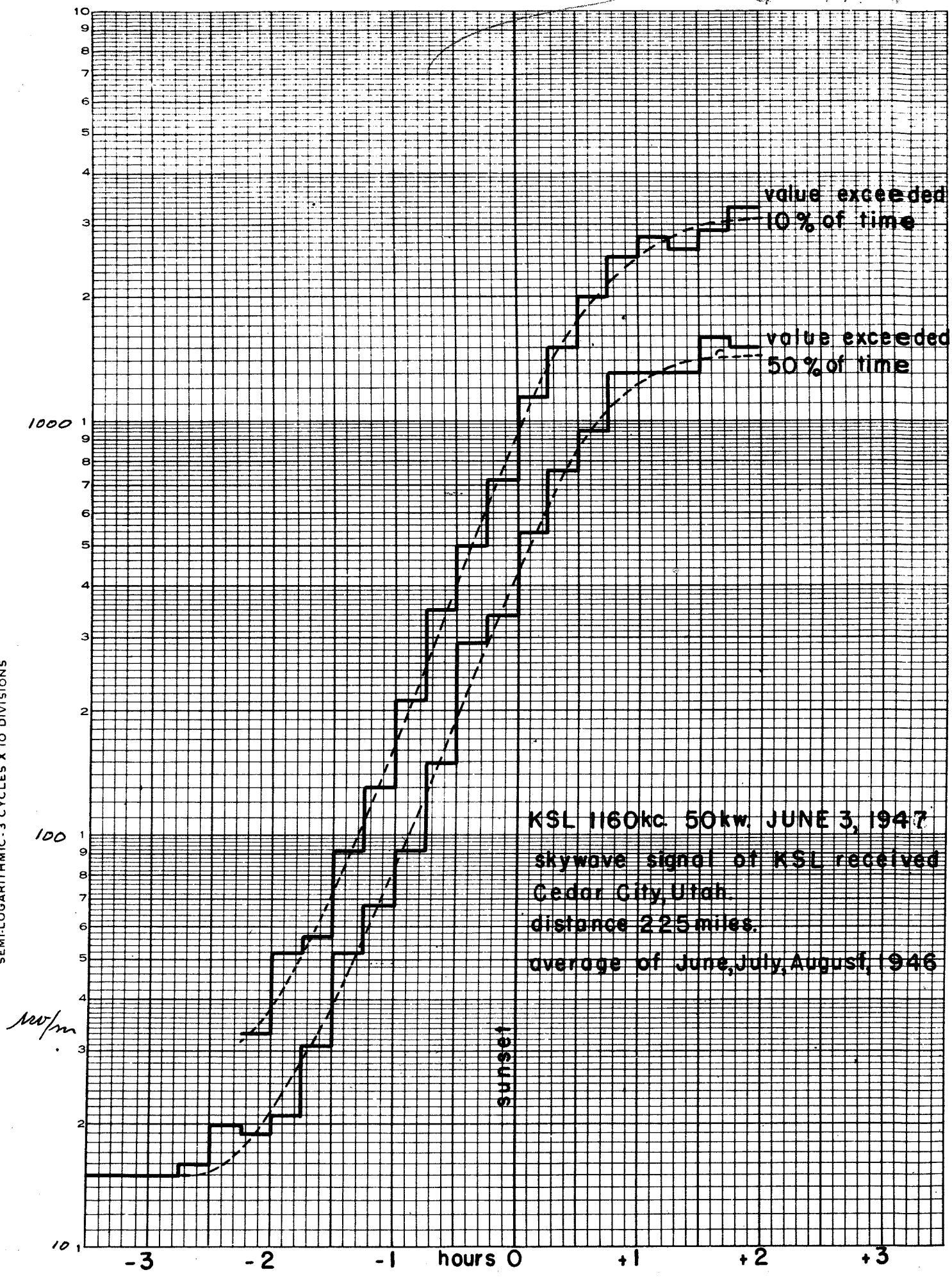
J. W. Wright  
Chief Radio Engineer

Mr. George Davis  
Munsey Building  
Washington, D. C.

enc.

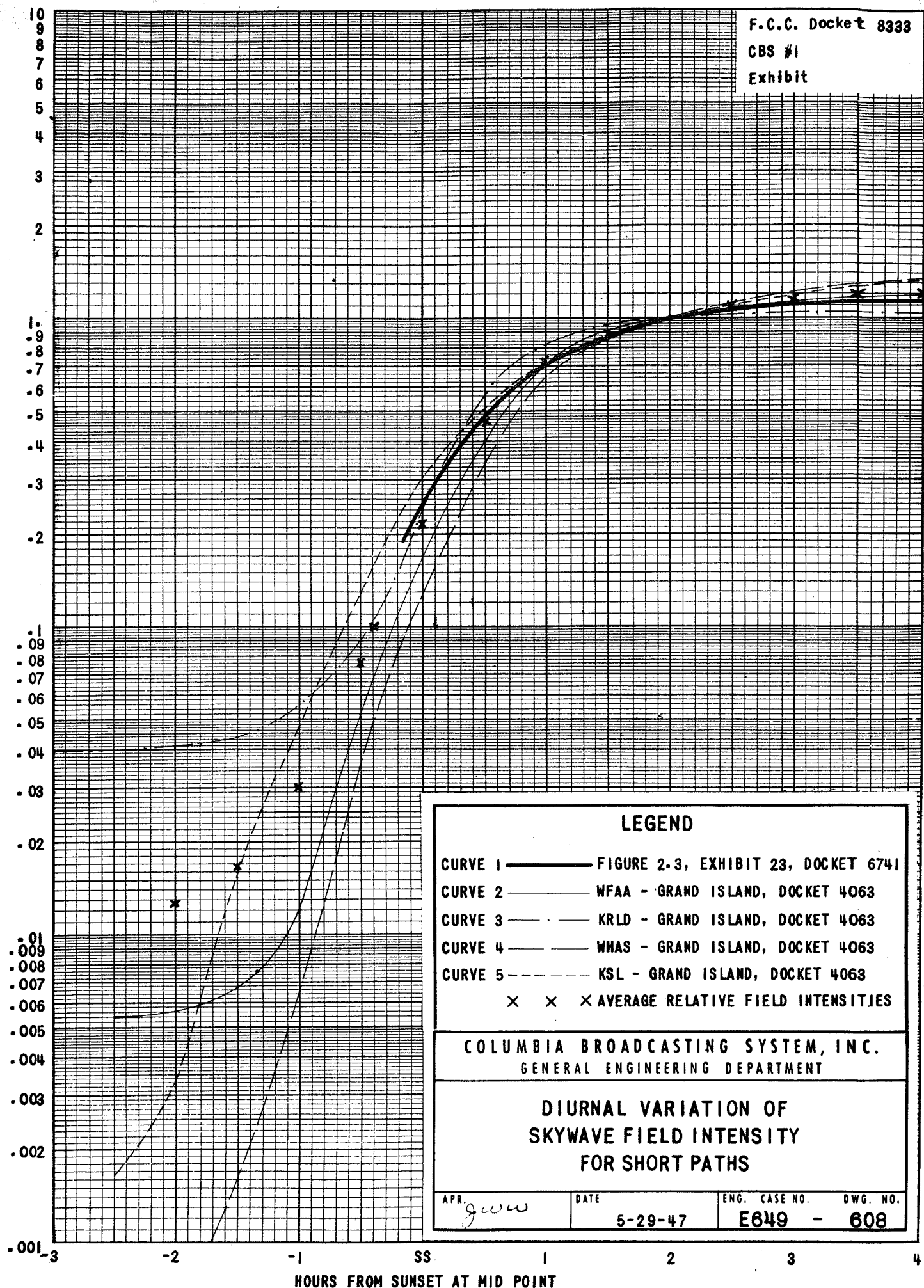
NO. 340-L310 DIETZGEN GRAPH PAPER  
SEMI-LOGARITHMIC - 3 CYCLES X 10 DIVISIONS  
EUGENE DIETZGEN CO.  
MADE IN U. S. A.

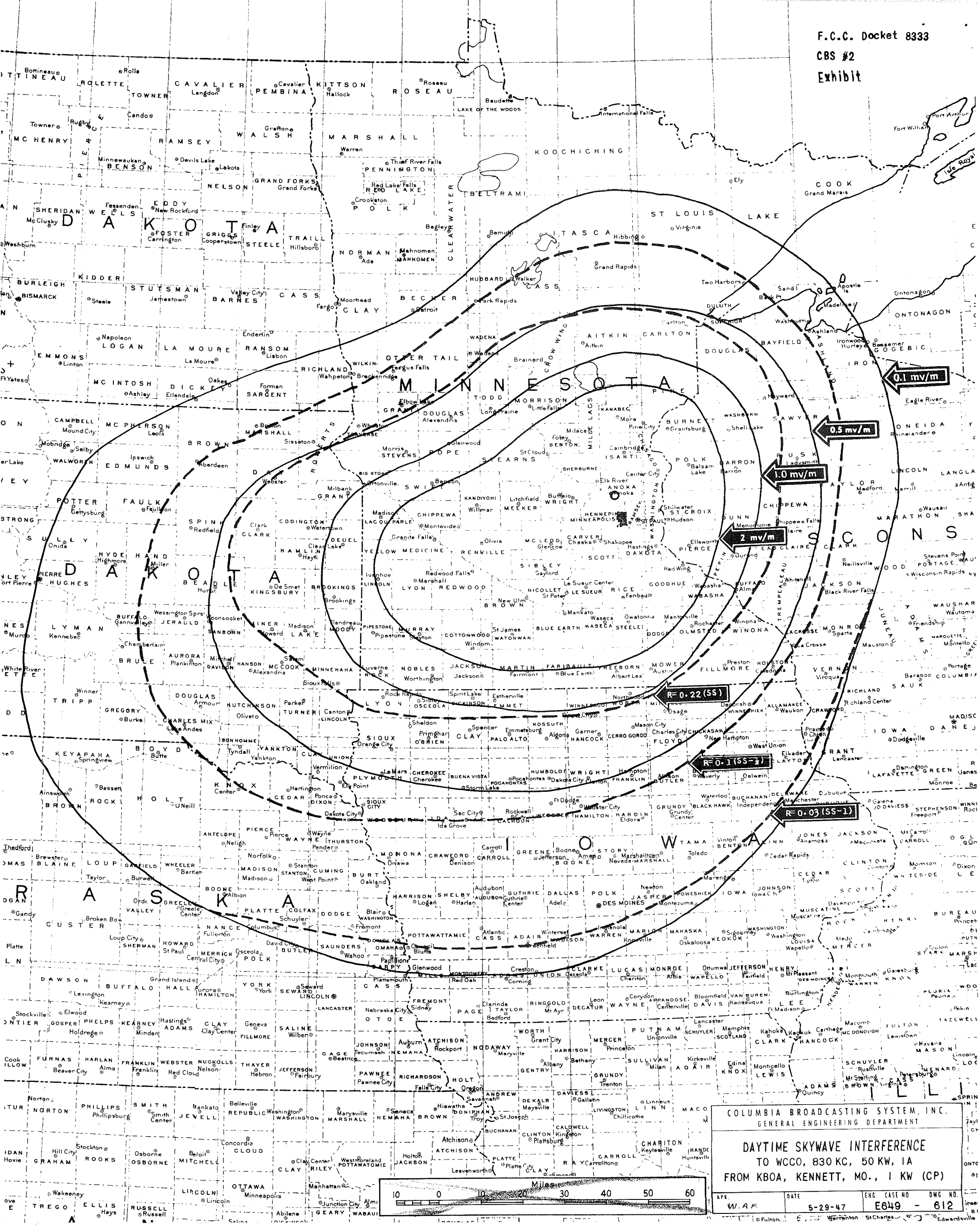
Ex. 13 GC DAVIS



KSL 1160kc 50kw JUNE 3, 1947  
skywave signal of KSL received  
Cedar City, Utah.  
distance 225 miles.  
average of June, July, August, 1946

RELATIVE FIELD INTENSITY

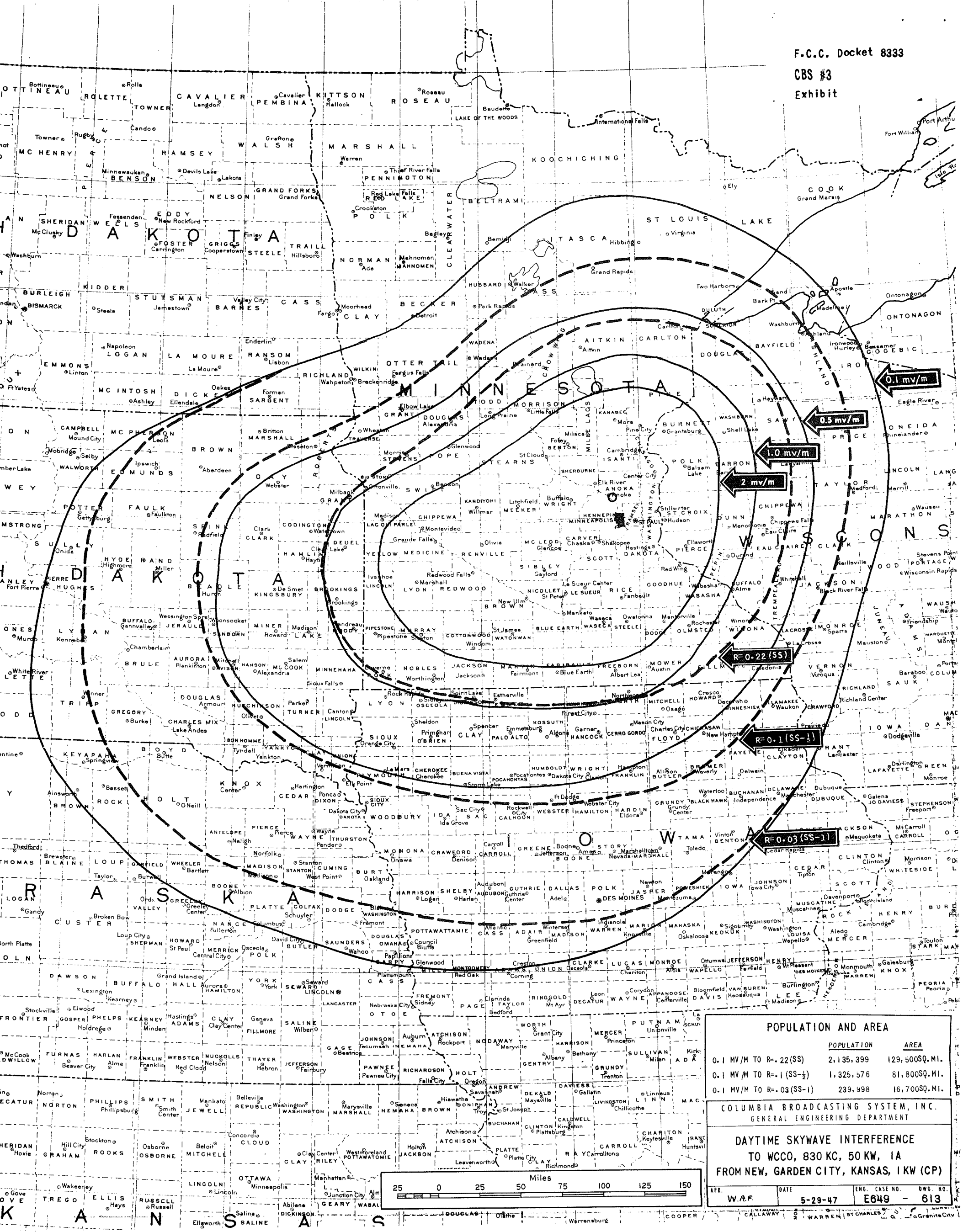




COLUMBIA BROADCASTING SYSTEM, INC.  
GENERAL ENGINEERING DEPARTMENT

DAYTIME SKYWAVE INTERFERENCE  
TO WCCO, 830 KC, 50 KW, IA  
FROM KBOA, KENNETT, MO., 1 KW (CP)

W.A.F. DATE 5-29-47 ENG. CASE NO. E649 - 612 DWG. NO.



POPULATION AND AREA

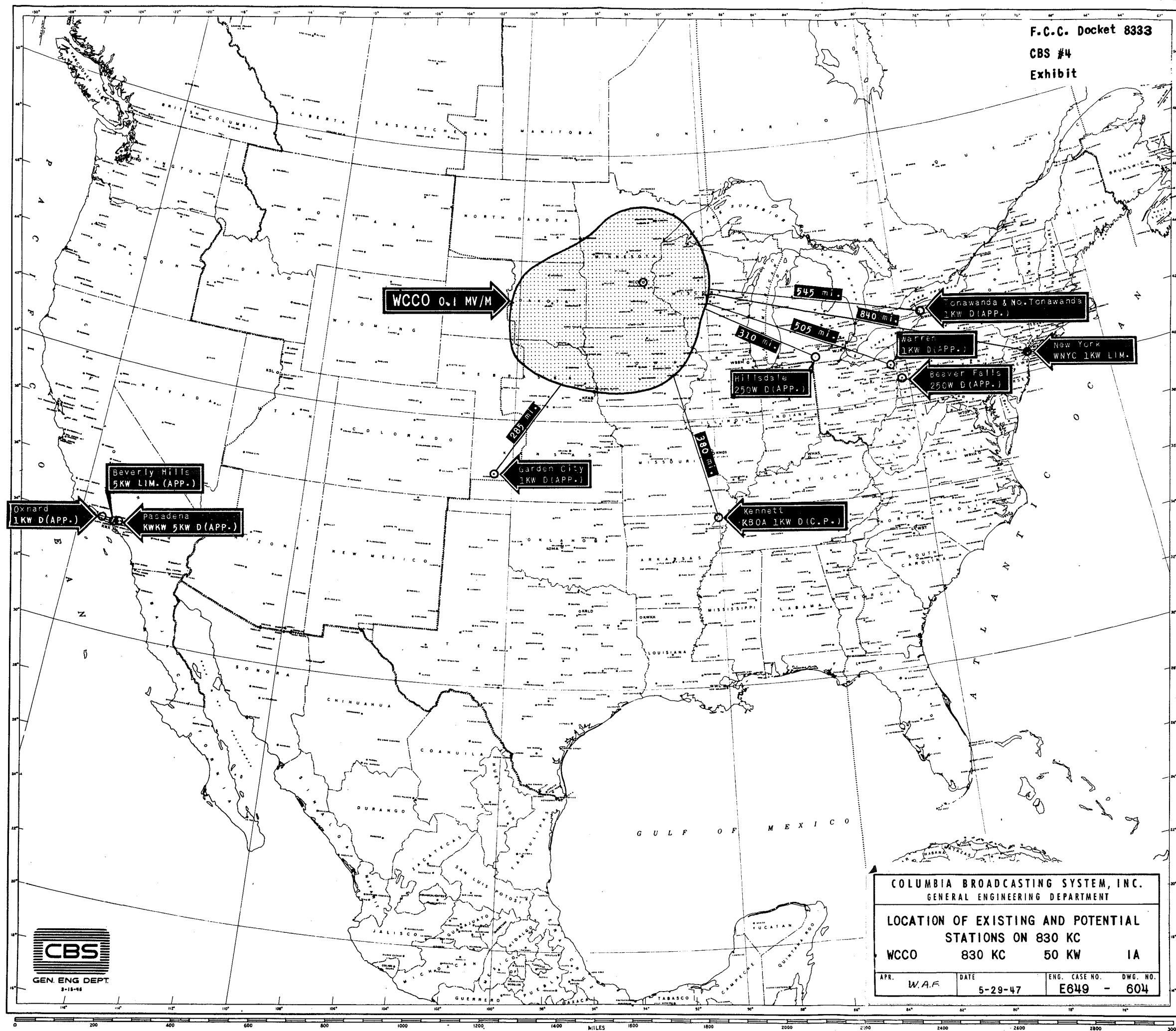
|                           | POPULATION | AREA           |
|---------------------------|------------|----------------|
| 0.1 MV/M TO R=0.22(SS)    | 2,135,399  | 129,500SQ. MI. |
| 0.1 MV/M TO R=0.1(SS-1/2) | 1,325,576  | 81,800SQ. MI.  |
| 0.1 MV/M TO R=0.03(SS-1)  | 239,998    | 16,700SQ. MI.  |

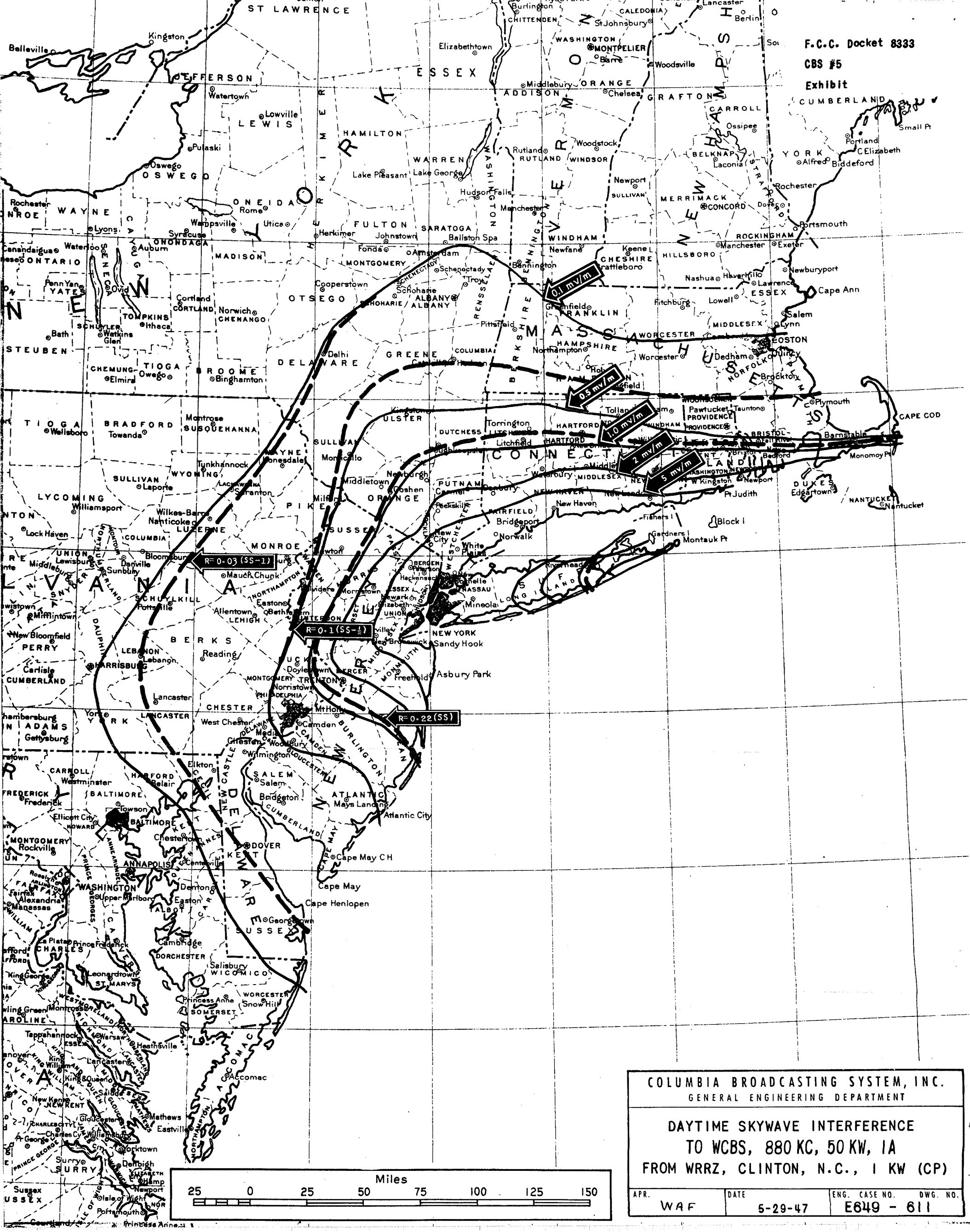
COLUMBIA BROADCASTING SYSTEM, INC.  
GENERAL ENGINEERING DEPARTMENT

DAYTIME SKYWAVE INTERFERENCE  
TO WCCO, 830 KC, 50 KW, 1A  
FROM NEW, GARDEN CITY, KANSAS, 1 KW (CP)

W.A.F. DATE 5-29-47 ENG. CASE NO. E649 - 613 DWG. NO.



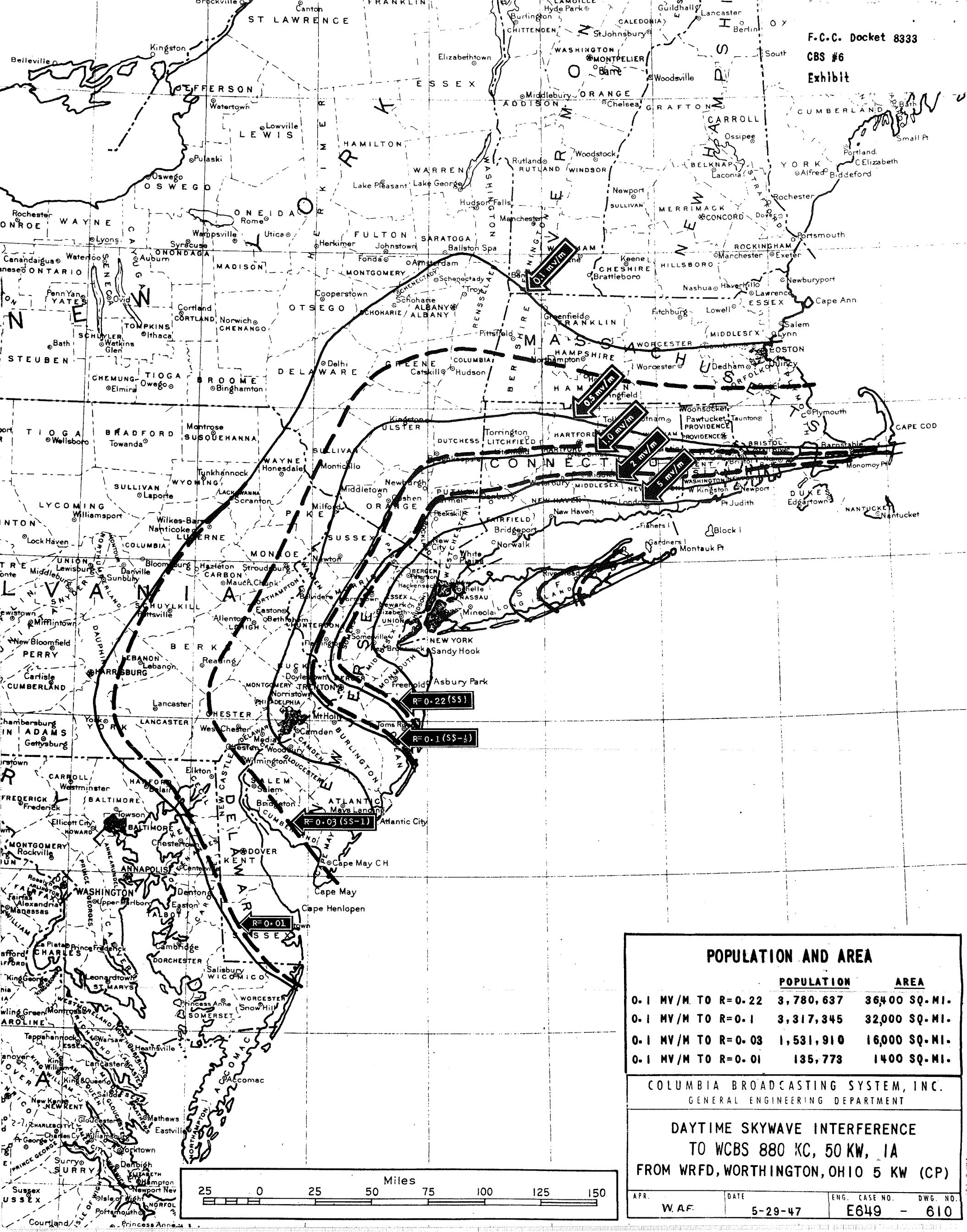




COLUMBIA BROADCASTING SYSTEM, INC.  
GENERAL ENGINEERING DEPARTMENT

DAYTIME SKYWAVE INTERFERENCE  
TO WCBS, 880 KC, 50 KW, 1A  
FROM WRRZ, CLINTON, N.C., 1 KW (CP)

| APR. | DATE    | ENG. CASE NO. | DWG. NO. |
|------|---------|---------------|----------|
| WAF  | 5-29-47 | E649          | 611      |



## POPULATION AND AREA

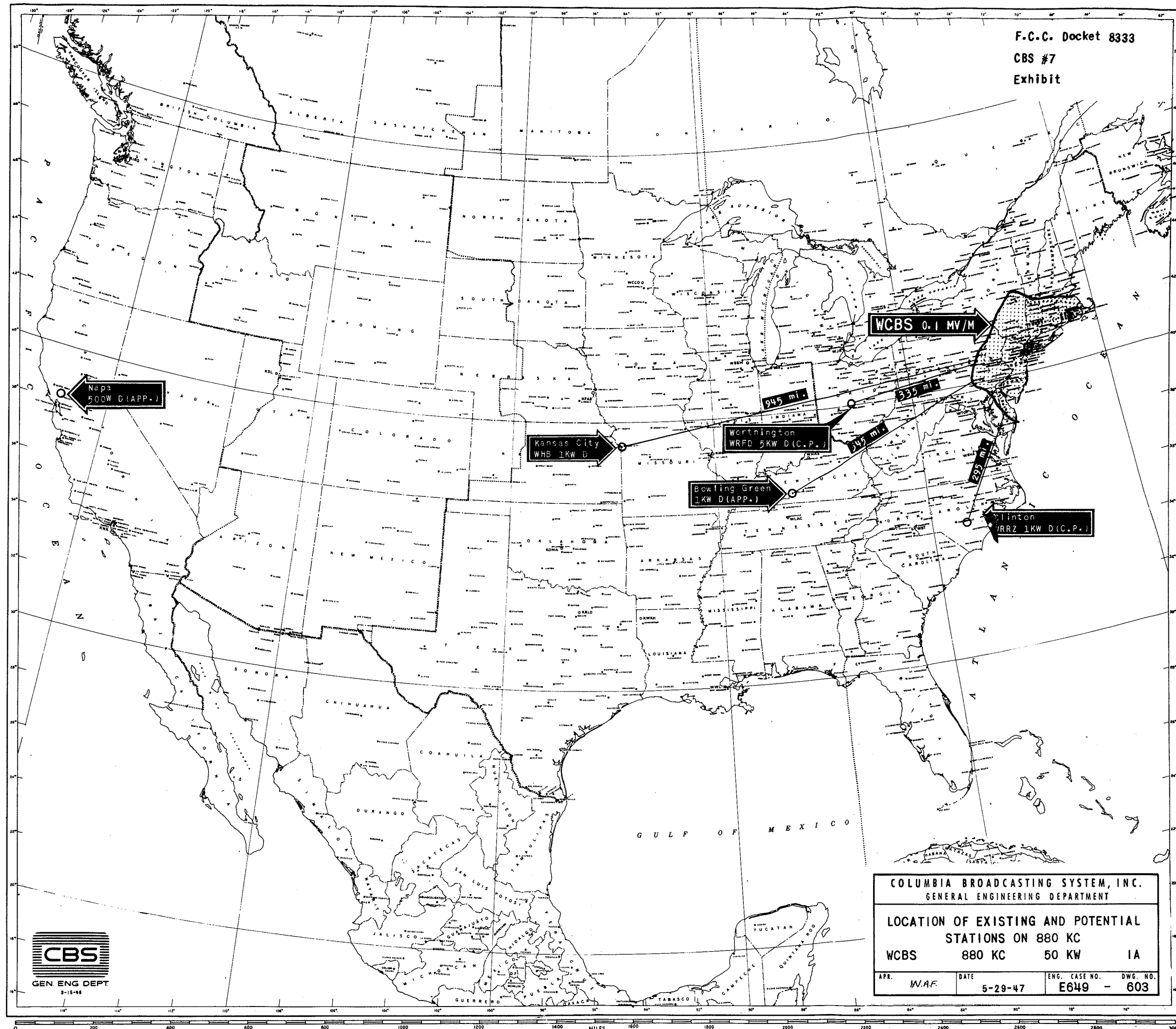
|                    | POPULATION | AREA           |
|--------------------|------------|----------------|
| 0.1 MV/M TO R=0.22 | 3,780,637  | 36,400 SQ. MI. |
| 0.1 MV/M TO R=0.1  | 3,317,345  | 32,000 SQ. MI. |
| 0.1 MV/M TO R=0.03 | 1,531,910  | 16,000 SQ. MI. |
| 0.1 MV/M TO R=0.01 | 135,773    | 1400 SQ. MI.   |

COLUMBIA BROADCASTING SYSTEM, INC.  
GENERAL ENGINEERING DEPARTMENT

DAYTIME SKYWAVE INTERFERENCE  
TO WCBS 880 KC, 50 KW, 1A  
FROM WRFD, WORTHINGTON, OHIO 5 KW (CP)

APR. W.A.F. DATE 5-29-47 ENG. CASE NO. E649 DWG. NO. 610





COLUMBIA BROADCASTING SYSTEM, INC.  
GENERAL ENGINEERING DEPARTMENT

LOCATION OF EXISTING AND POTENTIAL  
STATIONS ON 880 KC

WCBS 880 KC 50 KW 1A

|           |              |                    |              |
|-----------|--------------|--------------------|--------------|
| APR. 1947 | DATE 5-29-47 | ENG. CASE NO. E649 | DWG. NO. 603 |
|-----------|--------------|--------------------|--------------|

F.C.C. Docket 8333

CBS #8

Exhibit

MAXIMUM PERMISSIBLE RADIATED FIELD - MV/M AT 1 MILE

3000  
2000  
1000  
900  
800  
700  
600  
500  
400  
300  
200  
100  
90  
80  
70  
60  
50  
40  
30  
20  
10  
9

MIDPOINT  
LATITUDE

50°  
48°  
46°  
35°-42°

MIDPOINT  
TIME:  
SS-2

50 KW

50°  
48°  
46°  
35°-42°

MIDPOINT  
TIME:  
SS-1

5 KW

50°  
48°  
46°  
35°-42°

MIDPOINT  
TIME:  
SS-½

1 KW

50°  
48°  
46°  
35°-42°

MIDPOINT  
TIME:  
SS+0

250 W

COLUMBIA BROADCASTING SYSTEM, INC.  
GENERAL ENGINEERING DEPARTMENT

MAXIMUM PERMISSIBLE RADIATED  
SKYWAVE FIELD  
FOR CLASS II STATIONS  
AT SUNSET AND BEFORE

APR. *gww*

DATE  
5-29-47

ENG. CASE NO. DWG. NO.  
E649 - 609

200 400 600 800 1000

DISTANCE TO 0.1 MV/M CONTOUR OF DOMINANT STATION - MILES