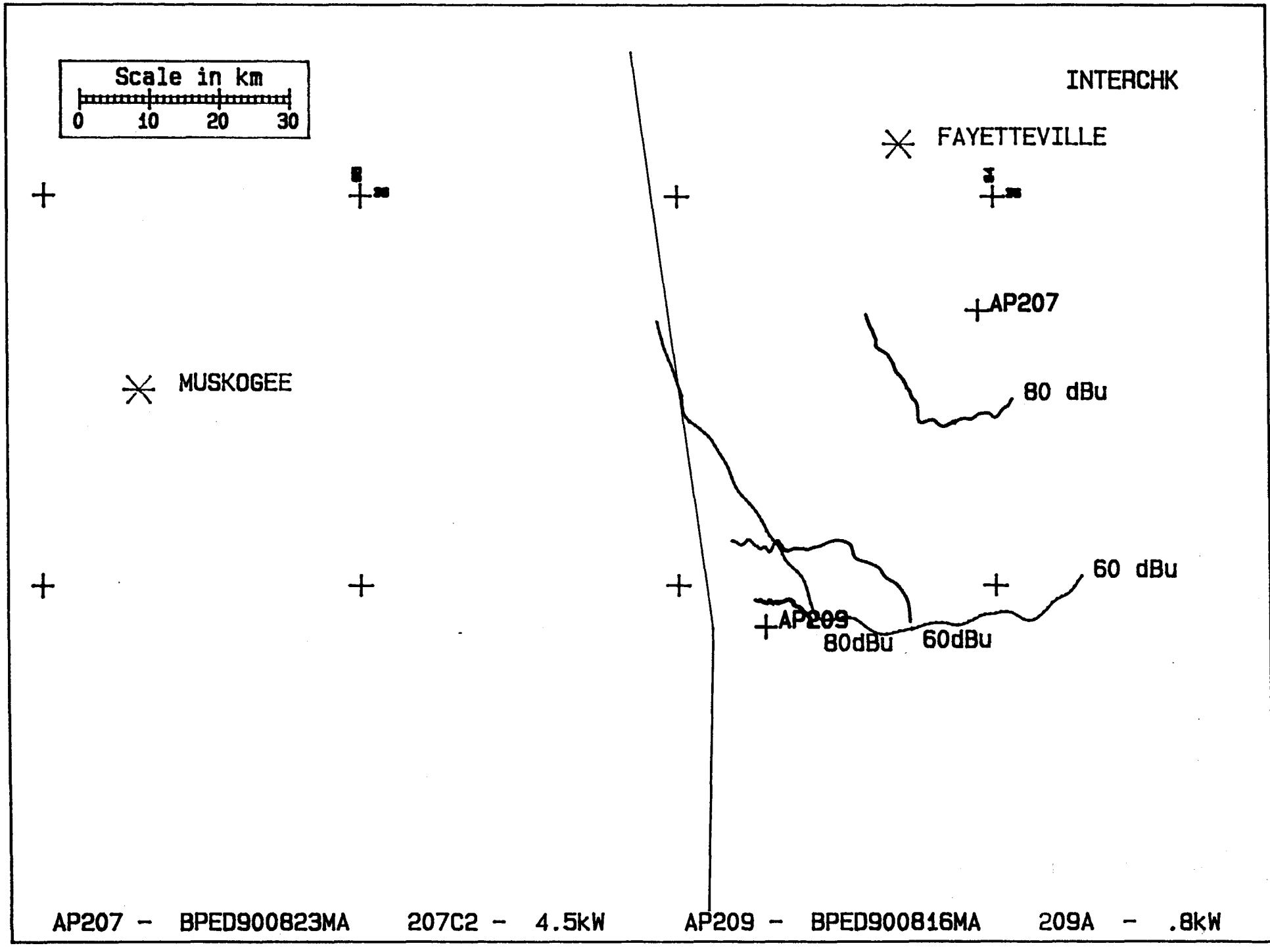
Scale in km
0
10
20
30
INTERCHK
FAYETTEVILLE
MUSKOGEE
AP207
80 dBu
60 dBu
AP209
80dBu
60dBu
AP207 - BPED900823MA 207C2 - 4.5kW
AP209 - BPED900816MA 209A - .8kW

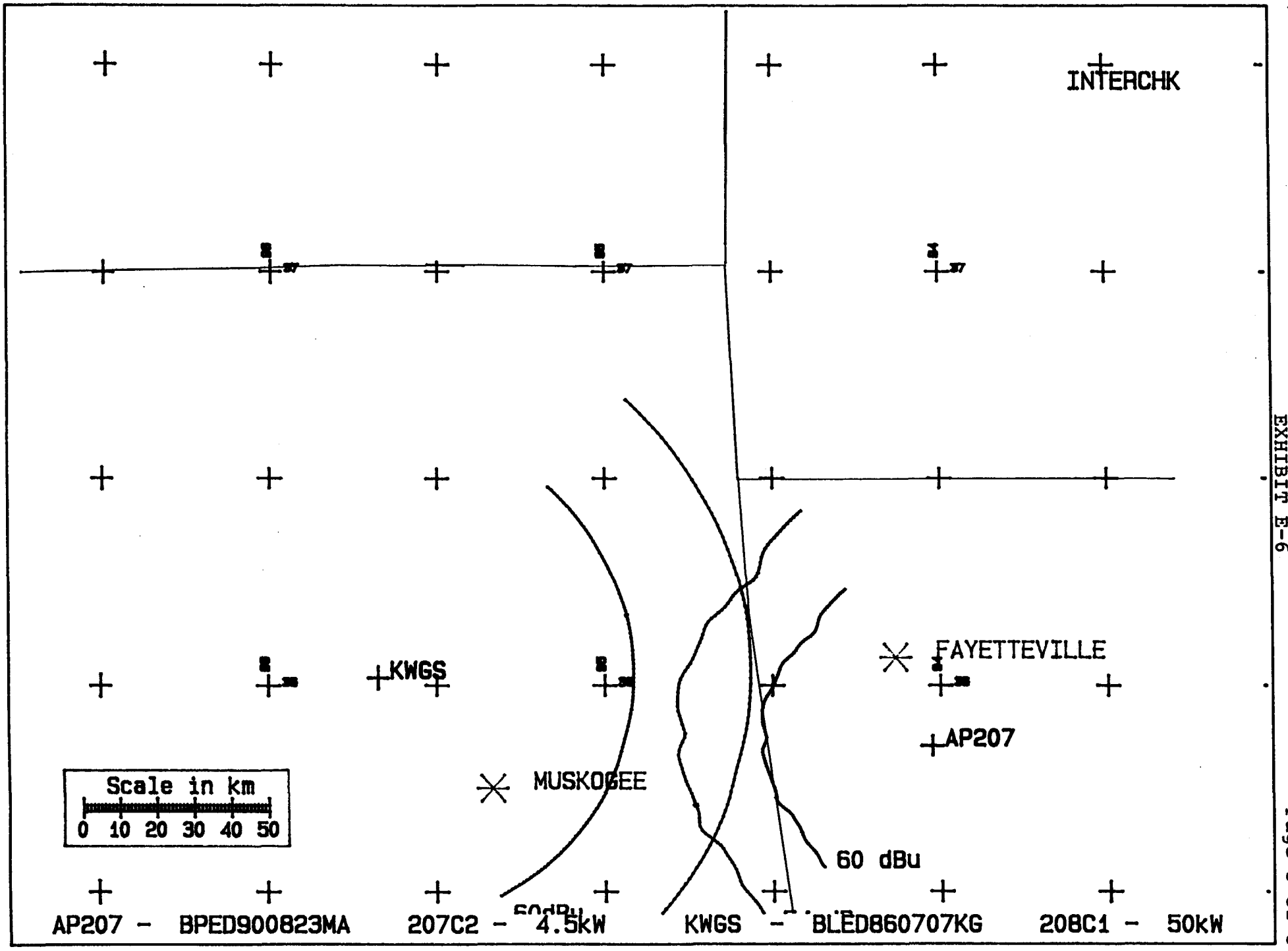
INTERCHK
KWGS
FAYETTEVILLE
AP207
MUSKOGEE
Scale in km
0 10 20 30 40 50
60 dBu
AP207 - BPED900823MA
207C2 - 4.5kW
KWGS - BLED860707KG
208C1 - 50kW

EXHIBIT E-6

EXHIBIT E-7

STUDY CONCERNING THE POTENTIAL INTERFERENCE TO CHANNEL 6 TELEVISION

The proposed transmitter site for the Fayetteville, AR., Channel 207(C2) is located within the 196 km affected radius of two Channel 6 television stations. Those stations are KOTV, Tulsa, OK., and KEMV, Mountain View, AR. Therefore, in accordance with the provisions of Section 73.525 of the Rules, a study has been made of the potential for interference to the reception of KOTV and KEMV.

Calculations were done in accordance with section 73.525(e), and there is contour overlap between the proposed FM station and only one of the Channel 6 facilities. That TV station is KOTV. The interference area has been plotted on the map included in this exhibit. The population affected was determined as specified in the Rules. A total of 169 persons reside in the interference area.

The fm to tv U/D ratio has been determined by reference to 47 C.F.R. Section 73.599, Figure 1. This ratio is tabulated in this section. In accordance with the provisions of Section 73.525(e)(1)(iii) an adjustment has been made for television reception antenna directivity.

As fewer than 3,000 persons reside in the area of interference to KOTV, this application conforms with the requirements of Section 73.525 concerning interference to TV Channel 6.

This application reduces the effect on KOTV from the 408 persons calculated in BPED-900823MA, to 169 persons due to the power and antenna height reduction proposed.

A map produced by INTERCHK is included to show the adequate clearance between NCN at Fayetteville, and the Grade B 47 dBu contour of KEMV, Mountain View, AR

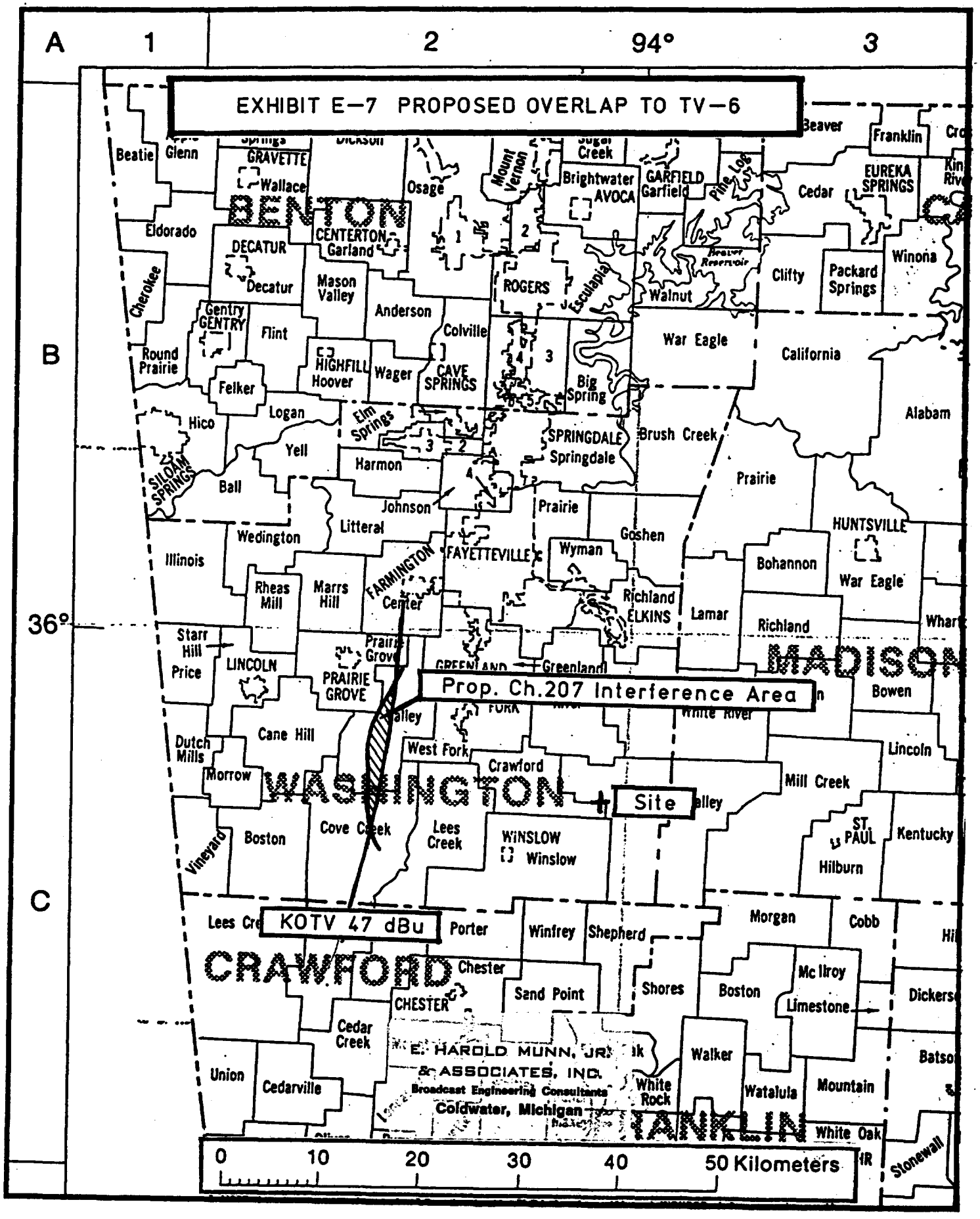
EXHIBIT E-7 PROPOSED OVERLAP TO TV-6
A
1
2
94°
3
B
C
36°
BENTON
MADISON
WASHINGTON
CRAWFORD
FRANKLIN
Prop. Ch.207 Interference Area
Site
KOTV 47 dBu
E. HAROLD MUNN, JR. & ASSOCIATES, INC.
Broadcast Engineering Consultants
Coldwater, Michigan
0 10 20 30 40 50 Kilometers
Beatie
Glenn
GRAVETTE
Wallace
Osage
Mount Vernon
Sugar Creek
Brightwater
AVOCA
GARFIELD
Garfield
Pine Log
Beaver
Franklin
Cedar
EUREKA SPRINGS
Eldorado
DECATUR
Decatur
CENTERTON
Garland
Mason Valley
ROGERS
Escalapia
Walnut
Clifty
Packard Springs
Winona
Cherokee
Gentry
GENTRY
Flint
Anderson
Colville
War Eagle
California
Round Prairie
HIGHFILL
Hoover
Wager
CAVE SPRINGS
Big Spring
Felker
Logan
Elm Springs
Hico
SPRINGDALE
Springdale
Brush Creek
Alabam
Yell
Harmon
SILOAM SPRINGS
Ball
Johnson
Prairie
Litteral
Wedington
Goshen
HUNTSVILLE
Illinois
FAYETTEVILLE
Wyman
Bohannon
War Eagle
Rheas Mill
Marrs Hill
FARMINGTON
Center
Richland
ELKINS
Lamar
Richland
Starr Hill
Price
LINCOLN
Prairie Grove
PRAIRIE GROVE
Greenland
Bowen
Valley
White River
Dutch Mills
Cane Hill
West Fork
Crawford
Lincoln
Morrow
Mill Creek
Boston
Cove Creek
Lees Creek
WINSLOW
Winslow
ST. PAUL
Kentucky
Vineyard
Hilburn
Lees Cr
Porter
Winfrey
Shepherd
Morgan
Cobb
Chester
CHESTER
Sand Point
Shores
Boston
Mc Ilroy
Limestone
Dickers
Cedar Creek
Union
Cedarville
Walker
White Rock
Watalula
Mountain
Batso
White Oak
Stonewall

EXHIBIT E-7

Predicted Signal Contours:

36 01 15 - KOTV TO FAYETTEVILLE AR
95 40 32 - PROTECTION STUDY

ERP = 100 kW, 20 dBk FM - 2-6 Tables

Radial	HAAT	kW	dBk	Field	47.5 dBu.5	47.4	47.3	47.2	47.1	47 dBu
90 Degs.	596.4M	100.000	20.000	1.000	126.4	126.7	127.0	127.3	127.6	127.9
91 Degs.	596.0M	100.000	20.000	1.000	126.3	126.6	126.9	127.2	127.5	127.9
92 Degs.	595.4M	100.000	20.000	1.000	126.3	126.6	126.9	127.2	127.5	127.8
93 Degs.	595.0M	100.000	20.000	1.000	126.3	126.6	126.9	127.2	127.5	127.8
94 Degs.	594.8M	100.000	20.000	1.000	126.2	126.5	126.9	127.2	127.5	127.8
95 Degs.	594.6M	100.000	20.000	1.000	126.2	126.5	126.8	127.1	127.5	127.8
96 Degs.	594.6M	100.000	20.000	1.000	126.2	126.5	126.8	127.1	127.5	127.8
97 Degs.	594.3M	100.000	20.000	1.000	126.2	126.5	126.8	127.1	127.4	127.7
98 Degs.	593.5M	100.000	20.000	1.000	126.2	126.5	126.8	127.1	127.4	127.7
99 Degs.	592.5M	100.000	20.000	1.000	126.1	126.4	126.7	127.0	127.3	127.6
100 Degs.	591.6M	100.000	20.000	1.000	126.0	126.3	126.6	126.9	127.3	127.6
101 Degs.	590.7M	100.000	20.000	1.000	126.0	126.3	126.6	126.9	127.2	127.5
102 Degs.	589.9M	100.000	20.000	1.000	125.9	126.2	126.5	126.8	127.1	127.4
103 Degs.	589.1M	100.000	20.000	1.000	125.9	126.2	126.5	126.8	127.1	127.4
104 Degs.	588.5M	100.000	20.000	1.000	125.8	126.1	126.4	126.7	127.0	127.3
105 Degs.	588.3M	100.000	20.000	1.000	125.8	126.1	126.4	126.7	127.0	127.3
106 Degs.	588.7M	100.000	20.000	1.000	125.8	126.1	126.4	126.7	127.1	127.4
107 Degs.	589.2M	100.000	20.000	1.000	125.9	126.2	126.5	126.8	127.1	127.4
108 Degs.	589.8M	100.000	20.000	1.000	125.9	126.2	126.5	126.8	127.1	127.4
109 Degs.	590.3M	100.000	20.000	1.000	125.9	126.2	126.6	126.9	127.2	127.5
110 Degs.	590.6M	100.000	20.000	1.000	126.0	126.3	126.6	126.9	127.2	127.5

Ave. HAAT= 592.1M, Ant. COR= 769.0M AMSL

Predicted Signal Contours:

EXHIBIT E-7

35 51 12 - FAYETTEVILLE AR TO KOTV
94 01 33 - PROTECTION STUDY

ERP = 4.5 kW, 6.532 dBk FM - 2-6 Tables

Radial	HAAT	kW	dBk	Field	73.8 dBu.1	73.7	73.6	73.5	73.4	73.3
250 Degs.	323.9M	4.500	6.532	1.000	23.0	23.1	23.3	23.4	23.5	23.7
251 Degs.	326.0M	4.500	6.532	1.000	23.1	23.2	23.3	23.5	23.6	23.8
252 Degs.	324.0M	4.500	6.532	1.000	23.0	23.1	23.3	23.4	23.5	23.7
253 Degs.	320.6M	4.500	6.532	1.000	22.9	23.0	23.2	23.3	23.4	23.6
254 Degs.	317.7M	4.500	6.532	1.000	22.8	22.9	23.0	23.2	23.3	23.5
255 Degs.	318.1M	4.500	6.532	1.000	22.8	22.9	23.1	23.2	23.3	23.5
256 Degs.	319.7M	4.500	6.532	1.000	22.9	23.0	23.1	23.3	23.4	23.5
257 Degs.	320.8M	4.500	6.532	1.000	22.9	23.0	23.2	23.3	23.4	23.6
258 Degs.	322.4M	4.500	6.532	1.000	22.9	23.1	23.2	23.4	23.5	23.6
259 Degs.	323.8M	4.500	6.532	1.000	23.0	23.1	23.3	23.4	23.5	23.7
260 Degs.	325.9M	4.500	6.532	1.000	23.1	23.2	23.3	23.5	23.6	23.8
261 Degs.	329.4M	4.500	6.532	1.000	23.2	23.3	23.5	23.6	23.7	23.9
262 Degs.	332.1M	4.500	6.532	1.000	23.3	23.4	23.6	23.7	23.8	24.0
263 Degs.	334.6M	4.500	6.532	1.000	23.4	23.5	23.7	23.8	23.9	24.1
264 Degs.	337.2M	4.500	6.532	1.000	23.5	23.6	23.8	23.9	24.0	24.2
265 Degs.	339.0M	4.500	6.532	1.000	23.5	23.7	23.8	24.0	24.1	24.2
266 Degs.	342.0M	4.500	6.532	1.000	23.6	23.8	23.9	24.1	24.2	24.3
267 Degs.	344.5M	4.500	6.532	1.000	23.7	23.9	24.0	24.2	24.3	24.4
268 Degs.	347.0M	4.500	6.532	1.000	23.8	24.0	24.1	24.2	24.4	24.5
269 Degs.	344.9M	4.500	6.532	1.000	23.8	23.9	24.0	24.2	24.3	24.4
270 Degs.	339.8M	4.500	6.532	1.000	23.6	23.7	23.8	24.0	24.1	24.3
271 Degs.	334.6M	4.500	6.532	1.000	23.4	23.5	23.7	23.8	23.9	24.1
272 Degs.	329.5M	4.500	6.532	1.000	23.2	23.3	23.5	23.6	23.7	23.9
273 Degs.	327.1M	4.500	6.532	1.000	23.1	23.3	23.4	23.5	23.7	23.8
274 Degs.	331.7M	4.500	6.532	1.000	23.3	23.4	23.6	23.7	23.8	24.0
275 Degs.	337.1M	4.500	6.532	1.000	23.5	23.6	23.7	23.9	24.0	24.2
276 Degs.	341.8M	4.500	6.532	1.000	23.6	23.8	23.9	24.1	24.2	24.3
277 Degs.	347.7M	4.500	6.532	1.000	23.9	24.0	24.1	24.3	24.4	24.5
278 Degs.	353.2M	4.500	6.532	1.000	24.1	24.2	24.3	24.5	24.6	24.8
279 Degs.	356.4M	4.500	6.532	1.000	24.2	24.3	24.4	24.6	24.7	24.9
280 Degs.	359.4M	4.500	6.532	1.000	24.3	24.4	24.6	24.7	24.8	25.0
281 Degs.	361.6M	4.500	6.532	1.000	24.4	24.5	24.6	24.8	24.9	25.1
282 Degs.	363.5M	4.500	6.532	1.000	24.4	24.6	24.7	24.8	25.0	25.1
283 Degs.	364.2M	4.500	6.532	1.000	24.4	24.6	24.7	24.9	25.0	25.2
284 Degs.	364.8M	4.500	6.532	1.000	24.5	24.6	24.8	24.9	25.0	25.2
285 Degs.	363.9M	4.500	6.532	1.000	24.4	24.6	24.7	24.9	25.0	25.1
286 Degs.	361.0M	4.500	6.532	1.000	24.3	24.5	24.6	24.8	24.9	25.0
287 Degs.	357.3M	4.500	6.532	1.000	24.2	24.3	24.5	24.6	24.8	24.9
288 Degs.	352.9M	4.500	6.532	1.000	24.0	24.2	24.3	24.5	24.6	24.7
289 Degs.	349.2M	4.500	6.532	1.000	23.9	24.0	24.2	24.3	24.5	24.6
290 Degs.	346.5M	4.500	6.532	1.000	23.8	23.9	24.1	24.2	24.4	24.5
291 Degs.	345.1M	4.500	6.532	1.000	23.8	23.9	24.0	24.2	24.3	24.5
292 Degs.	344.9M	4.500	6.532	1.000	23.8	23.9	24.0	24.2	24.3	24.4
293 Degs.	344.7M	4.500	6.532	1.000	23.7	23.9	24.0	24.2	24.3	24.4
294 Degs.	344.7M	4.500	6.532	1.000	23.7	23.9	24.0	24.2	24.3	24.4
295 Degs.	345.1M	4.500	6.532	1.000	23.8	23.9	24.0	24.2	24.3	24.5
296 Degs.	346.5M	4.500	6.532	1.000	23.8	23.9	24.1	24.2	24.4	24.5
297 Degs.	348.5M	4.500	6.532	1.000	23.9	24.0	24.2	24.3	24.4	24.6
298 Degs.	349.6M	4.500	6.532	1.000	23.9	24.1	24.2	24.3	24.5	24.6
299 Degs.	348.9M	4.500	6.532	1.000	23.9	24.0	24.2	24.3	24.5	24.6
300 Degs.	345.9M	4.500	6.532	1.000	23.8	23.9	24.1	24.2	24.3	24.5
301 Degs.	341.4M	4.500	6.532	1.000	23.6	23.8	23.9	24.0	24.2	24.3
302 Degs.	336.8M	4.500	6.532	1.000	23.5	23.6	23.7	23.9	24.0	24.1
303 Degs.	332.8M	4.500	6.532	1.000	23.3	23.5	23.6	23.7	23.9	24.0
304 Degs.	330.0M	4.500	6.532	1.000	23.2	23.4	23.5	23.6	23.8	23.9
305 Degs.	328.8M	4.500	6.532	1.000	23.2	23.3	23.4	23.6	23.7	23.9
306 Degs.	329.1M	4.500	6.532	1.000	23.2	23.3	23.5	23.6	23.7	23.9
307 Degs.	329.3M	4.500	6.532	1.000	23.2	23.3	23.5	23.6	23.7	23.9
308 Degs.	328.9M	4.500	6.532	1.000	23.2	23.3	23.5	23.6	23.7	23.9
309 Degs.	327.2M	4.500	6.532	1.000	23.1	23.3	23.4	23.5	23.7	23.8
310 Degs.	324.2M	4.500	6.532	1.000	23.0	23.1	23.3	23.4	23.6	23.7
311 Degs.	320.4M	4.500	6.532	1.000	22.9	23.0	23.1	23.3	23.4	23.5
312 Degs.	316.9M	4.500	6.532	1.000	22.8	22.9	23.0	23.2	23.3	23.4
313 Degs.	314.7M	4.500	6.532	1.000	22.7	22.8	22.9	23.1	23.2	23.3
314 Degs.	314.9M	4.500	6.532	1.000	22.7	22.8	22.9	23.1	23.2	23.4
315 Degs.	318.0M	4.500	6.532	1.000	22.8	22.9	23.1	23.2	23.3	23.5

Ave. HAAT= 337.8M, Ant. COR= 866.0M AMSL

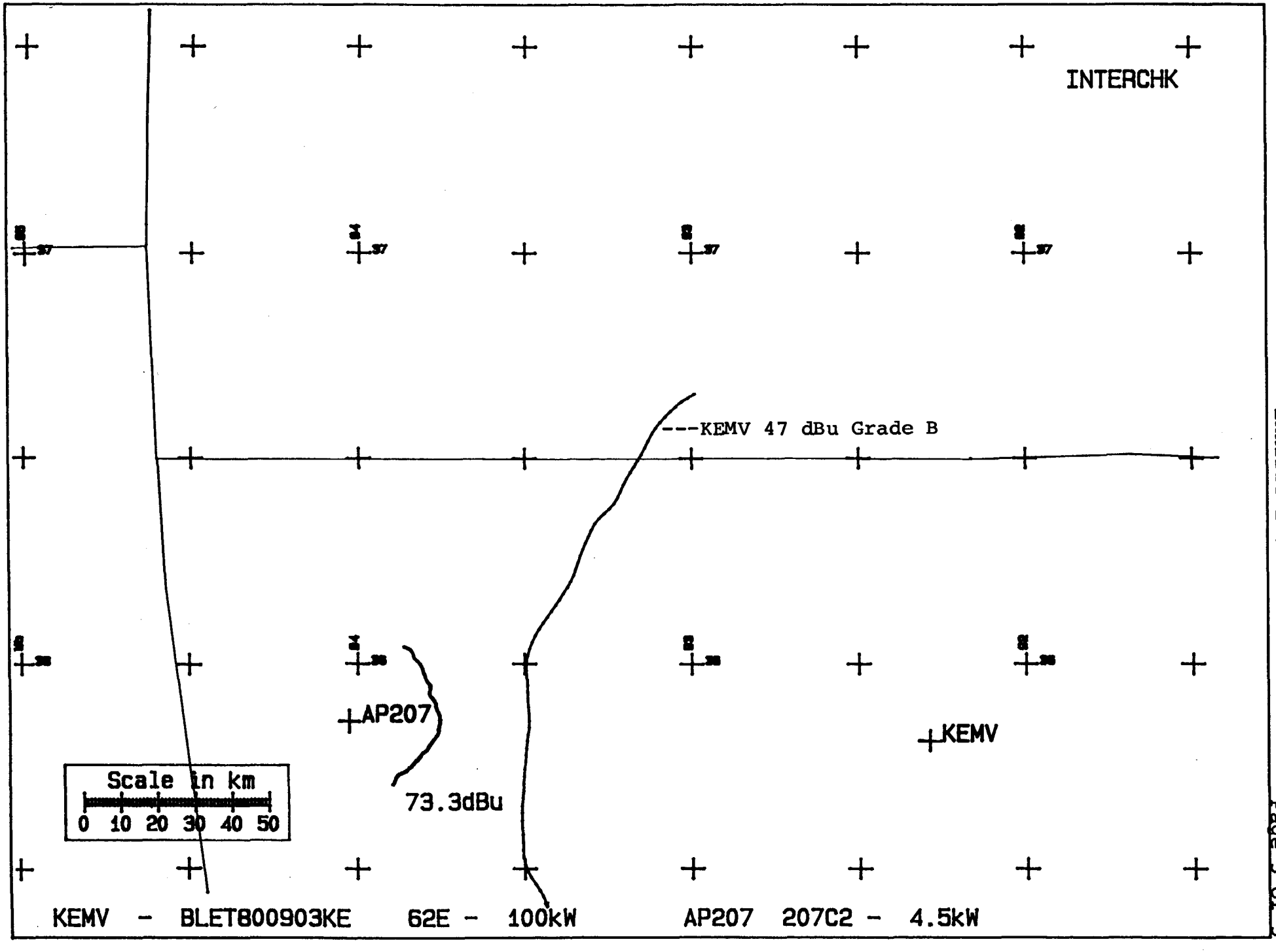
INTERCHK
---KEMV 47 dBu Grade B
AP207
KEMV
73.3dBu
Scale in km
0 10 20 30 40 50
KEMV - BLET800903KE 62E - 100kW
AP207 207C2 - 4.5kW

EXHIBIT E-7

I, Kimberly E. Holman, secretary to National Christian Network, Inc., certify that on the 9th day of June 1992, copies of the foregoing were mailed, postage prepaid, to the following:

Hon. Walter C. Miller
Administrative Law Judge
FCC, Rm 213
2000 L Street, N.W.
Washington, D.C. 20554

Paulette Laden, Esquire
Hearing Branch, Enforcement
Division Mass Media Bureau
FCC, 2025 M St., N.W.
Suite 7212
Washington, D.C. 20554

Chief, Data Management Staff
Audio Services Division
Mass Media Bureau, FCC
1919 M St., N.W. Rm 350
Washington, D.C. 20554

Chief, Audio Services Division
Mass Media Bureau, FCC
1919 M St., N.W. Rm 302
Washington, D.C. 20554

Gary S. Smithwick
Smithwick & Belendiuk, P.C.
1990 M Street, N.W.
Suite 510
Washington, D.C. 20036
Counsel for BIBLE BROADCASTING NETWORK, INC.

Kimberly E. Holman