Figure 6

TECHNICAL STATEMENT
IN SUPPORT OF
A PETITION FOR RULE MAKING
TO AMEND THE FM TABLE OF ALLOTMENTS
SIBLEY, IOWA AND BRANDON, SOUTH DAKOTA

Radio Stations Considered for
Available Reception Services Analysis

I. FM STATIONS - 1 MV/M Contours

Call Letters	Location	Authorized Facilities[1]
KIWA-FM	Sheldon, IA	Ch. 287C2, 50 kW/89 m
KITN	Worthington, MN	Ch. 228C2, 50 kW/142 m
KWOA-FM	Worthington, MN	Ch. 236C1, 100 kW/198 m
KDCR	Sioux Center, IA	Ch. *203C1, 100 kW/91 m
KICD-FM	Spencer, IA	Ch. 299C1, 100 kW/94 m
KUOO	Spirit Lake, IA	Ch. 280C2, 50 kW/150 m
KRSW	Worthington, MN	Ch. *207C1, 100 kW/169 m
KISD	Pipestone, MN	Ch. 254C1, 100 kW/213 m
KNWS	Worthington-Marshall, MN	Ch. *219C1, 99 kW/243 m
KTFG	Sioux Rapids, IA	Ch. 275C2, 50 kW/146 m
KLQL	Luverne, MN	Ch. 266C1, 100 kW/162 m
KELO-FM	Sioux Fall, SD	Ch. 223C, 100 kW/564 m
KNWC-FM	Sioux Falls, SD	Ch. 243C, 100 kW/488 m
KMXC	Sioux Falls, SD	Ch. 247C1, 60 kW/67 m
KRRO	Sioux Falls, SD	Ch. 279C2, 50 kW/57 m
KIXK	Canton, SD	Ch. 274C2, 50 kW/148 m
ALC	Slayton, MN	Ch. 291C2, 50 kW/150 m
KKCK	Marshall, MN	Ch. 259C1, 100 kW/282 m

*Denotes noncommercial, educational FM facility

(Note: There are five or more other FM services available to the gain and loss areas.)

[1] Distances to FM 1 mV/m contours based on FCC's standard prediction method using maximum facilities for the class and presuming uniform terrain.

Figure 7

TECHNICAL STATEMENT
IN SUPPORT OF
A PETITION FOR RULE MAKING
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SIBLEY, IOWA AND BRANDON, SOUTH DAKOTA

Tabulation of Areas and
Populations Within 1 mV/m Coverage Contours

I. POPULATION AND AREA WITHIN 1 MV/M CONTOURS

Facilities	Within 1 mV/m Contour[1]	
	Population (1990)	Area (km^2)
Authorized Ch. 262A, Sibley, IA	23,527	2,463
Proposed Ch. 261C3, Brandon, SD	151,891	4,778
Available Ch. 282A, Sibley, IA	22,859	2,463

II. POPULATION AND AREA WITHIN GAIN AND LOSS AREAS

a. Available Ch. 282A allotment at Sibley, Iowa
Not Considered (See Figure 5A)

Area	Within 1 mV/m Contour[1]	
	Population (1990)	Area (km^2)
Gain Area	151,891	4,778
Loss Area	23,527	2,463
"Net" Gain Area	128,364	2,315

b. Available Ch. 282A allotment at Sibley, Iowa
Considered (See Figure 5B)

Area	Within 1 mV/m Contour[1]	
	Population (1990)	Area (km^2)
Gain Area	156,090	5,332
Loss Area	5,475	696
"Net" Gain Area	150,615	4,636

[1] Distances to 1 mV/m contours based on maximum facilities for the class and uniform terrain. Population calculated using a computer program that utilizes the 1990 U.S. Census database of "population centroids". The program adds the populations of those U.S. Census designated areas whose centroid was within each service area. The land areas were calculated using a root mean square algorithm.