

INTERFERENCE ANALYSIS

Consideration was given to all licensed, authorized and proposed facilities within the latest version of the CDBS database. The proposed translator facility, Facility I.D. No. 156748, FCC File No. BNPFT-20030317ILK, complies with the requirements of 47 C.F.R. Section 74.1204. A tabulation follows, which shows the limits at each bearing in one-degree azimuthal intervals. The only limiting factor is HAAT vs. ERP limits.

The proposed translator station is located within the protected 60 dBu F(50,50) contour of third adjacent channel Class C2 station KKMx(FM), Facility I.D. No. 67650. Actual interference is considered to exist between second and third adjacent channel stations when the interfering signal is 40 dB or greater than that of the affected station. The KKMx(FM) field strength level at the proposed translator site is 69.8 dBu, meaning that the translator will cause interference to areas in which its signal strength exceeds 109.8 dBu.

A detailed study was performed to determine the impact of the proposed translator on the aforementioned facilities. The free-space field strength at one kilometer of an FM broadcast station is determined by the following equation, where F_{kM} is the field strength in dBμ at one kilometer, and P_{kW} is the effective radiated power in kilowatts

$$F_{kM} = 106.9198528 + 10 \log P_{kW}$$

Since the ERP of the proposed translator is 10 watts (0.010 kW), the inverse-distance field strength at one kilometer is 89.9 dBμ. The equation for determining, $F_{dBμ}$, the field strength in dBμ at, D_{kM} , the distance in kilometers, is

$$F_{dBμ} = F_{kM} - 20 \log_{10} D_{kM}$$

At the proposed translator site, the KKMx(FM) F(50,50) field strength is 69.8 dBμ. Thus, the proposed translator will create interference to KKMx(FM) at locations where its field strength exceeds 109.8 dBμ. The following equation, which is derived from the above equation, produces the distance in kilometers, D_{kM} , to a specified field strength, $F_{dBμ}$:

$$D_{kM} = 10^{\frac{F_{kM} - F_{dBμ}}{20}}$$

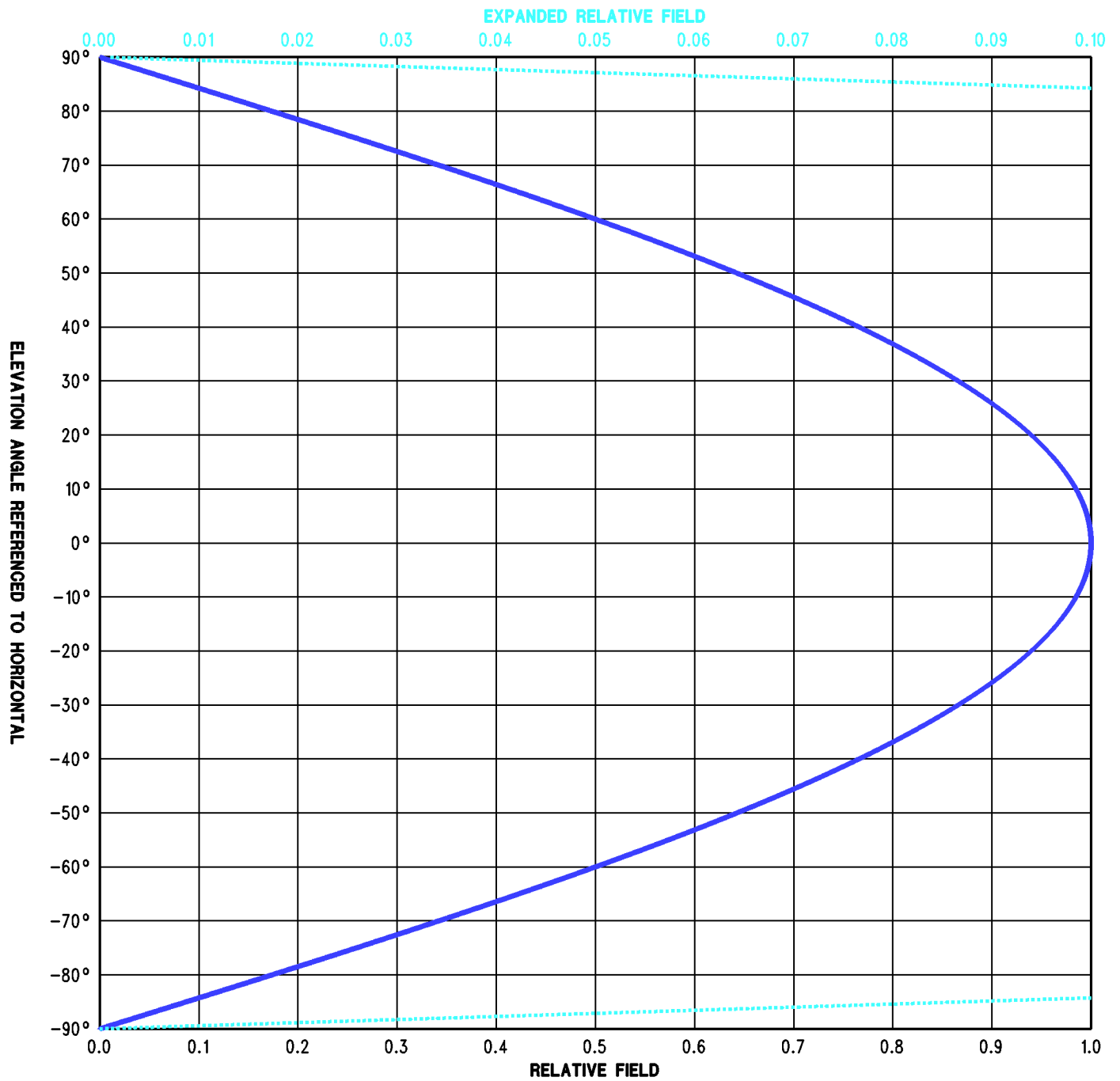
Accordingly, since the proposed translator would cause interference to KKMx(FM) if its field strength exceeded 109.8 dBμ, the above formula was used to determine that this field strength occurs 71.7 meters from the proposed antenna center of radiation. This, of course, is in the horizontal plane where radiation is at its maximum for the proposed antenna system, and is not affected by terrain or other losses, so inverse-distance is the only attenuating factor.

However, when consideration is given to the elevation plane relative field pattern, which is shown in figure 1, the outer limit of the interference area is reduced. A detailed analysis of actual interference to KKMx(FM) was performed using the elevation pattern of the proposed antenna

system. The results show that no interference will be created by the proposed translator anywhere on the ground.

Therefore, it is believed that the proposed facility falls within the provisions of 47 C.F.R. Section 74.1204(d) insofar as there is no population within the vicinity of the elevated interference area. Furthermore, the applicant acknowledges its responsibilities under Section 74.1203 and will resolve immediately any and all complaints of interference that result from operation of the facility as proposed herein.

Lawrence L. Morton, P.E.
Consulting Telecommunications Engineer
August 29, 2003



RELATIVE FIELD ELEVATION PATTERN

EXHIBIT 12 - FIGURE 1 RAIDER COMMUNICATIONS, INC. GLIDE, OREGON

ELEM. NO.	MAKE CODE	ELEMENT MANUFACTURER	ELEMENT MODEL NUMBER	PAT SRC	POLAR CODE	ORIENT °TN	NO. BAYS	BAY SPACE	MAXIMUM ELEMENT ERP IN WATTS HORIZONTAL POL.	ERP IN WATTS VERTICAL POL.
1	ERI	ELECTRONICS RESEARCH, INC.	LP100-1	0	C	0.000°	1		10.00000	0.00000

CALL:	NEW	AZIMUTH ANGLE:	0.000°
CHANNEL:	285	ELECTRICAL BEAM TILT:	0.000°
FREQUENCY:	104.90 MHz	MECHANICAL BEAM TILT:	0.000°
MAX H-POL ERP:	10.00 W	MECH. BEAM TILT AZIMUTH:	0.000°
MAX V-POL ERP:	0.00 W	1st NULL FILL:	0.000%
ARRAY POLARIZATION:	H	2nd NULL FILL:	0.000%
ARRAY ROTATION:	0.000° TN	3rd NULL FILL:	0.000%
LATITUDE:	N 43° 11' 44"	H-POL COSINE POWER:	1.000
LONGITUDE:	W 123° 06' 57"	V-POL G:	40.896°
DATE:	08/29/03	FIELD POLAR:	COMPOSITE OF H & V



LAWRENCE L. MORTON ASSOCIATES
Telecommunications Engineers
Hollywood Hills, California

Lambert Azimuthal Equal-Area

15' 00" Graticule Spacing

CENTER OF MAP:

N LAT 43° 04' 39.00"

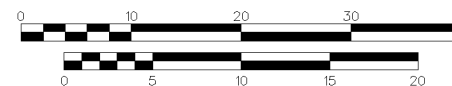
W LAT 122° 56' 56.00"

Scale 1 : 689,326

EXHIBIT 12 - FIGURE 2

SERVICE AND INTERFERENCE CONTOURS
FROM PROPOSED TRANSLATOR AND
THIRD ADJACENT CHANNEL STATION
KKMX(FM), CHANNEL 282C2, TRI CITY, OR

KILOMETERS



STATUTE MILES



LAWRENCE L. MORTON ASSOCIATES
Telecommunications Engineers
Hollywood Hills, California

ELKTON

DRAIN

YONCALLA

OAKLAND
SUTHERLIN

MELROSE

ROSEBURG NORTH
ROSEBURG

GREEN
WINSTON

MYRTLE CREEK
COW CREEK RESERVATION
TRI-CITY

RIDDLE
CANYONVILLE

GLENDALE

AGNESS

NORTHWEST JOSEPHINE

SHADY COVE

BUTTE FALLS

CHILOQUIN

GLIDE

KKMX(FM) 60 dBu F(50,50) CONTOUR

PROPOSED 100 dBu F(50,10) CONTOUR

GLIDE, OREGON

Translator Type is "Other Area"

08/29/03

LATITUDE: N 43° 11' 44"

ARC = 1102.8 meters AMSL

LONGITUDE: W 123° 06' 57"

TERRAIN = 3/30 Arc-Second

BEARING	MAX POWER		-CONTOURS IN DBU-		RADIAL HAAT-m	---LIMITING STATION---		
	IN	WATTS	PROPOSED	EXISTING		CALL	CHAN	FILE

THE 60 DBU F(50,50) CONTOUR OF STATION 67650-00 (KMX)
OVERLAPS THE STUDY SITE BY 18.07 KILOMETERS

0.0	10.0000	0 S	0 S	786.6	HAAT	0-	HAAT
1.0	10.0000	0 S	0 S	784.8	HAAT	0-	HAAT
2.0	10.0000	0 S	0 S	785.6	HAAT	0-	HAAT
3.0	10.0000	0 S	0 S	794.8	HAAT	0-	HAAT
4.0	10.0000	0 S	0 S	802.3	HAAT	0-	HAAT
5.0	10.0000	0 S	0 S	801.3	HAAT	0-	HAAT
6.0	10.0000	0 S	0 S	799.3	HAAT	0-	HAAT
7.0	10.0000	0 S	0 S	792.3	HAAT	0-	HAAT
8.0	10.0000	0 S	0 S	784.8	HAAT	0-	HAAT
9.0	10.0000	0 S	0 S	788.9	HAAT	0-	HAAT
10.0	10.0000	0 S	0 S	793.9	HAAT	0-	HAAT
11.0	10.0000	0 S	0 S	796.4	HAAT	0-	HAAT
12.0	10.0000	0 S	0 S	798.9	HAAT	0-	HAAT
13.0	10.0000	0 S	0 S	799.2	HAAT	0-	HAAT
14.0	10.0000	0 S	0 S	794.0	HAAT	0-	HAAT
15.0	10.0000	0 S	0 S	780.9	HAAT	0-	HAAT
16.0	10.0000	0 S	0 S	770.5	HAAT	0-	HAAT
17.0	10.0000	0 S	0 S	763.0	HAAT	0-	HAAT
18.0	10.0000	0 S	0 S	762.0	HAAT	0-	HAAT
19.0	10.0000	0 S	0 S	750.8	HAAT	0-	HAAT
20.0	10.0000	0 S	0 S	738.8	HAAT	0-	HAAT
21.0	10.0000	0 S	0 S	729.5	HAAT	0-	HAAT
22.0	10.0000	0 S	0 S	729.0	HAAT	0-	HAAT
23.0	10.0000	0 S	0 S	727.2	HAAT	0-	HAAT
24.0	10.0000	0 S	0 S	727.7	HAAT	0-	HAAT
25.0	10.0000	0 S	0 S	728.0	HAAT	0-	HAAT
26.0	10.0000	0 S	0 S	720.8	HAAT	0-	HAAT
27.0	10.0000	0 S	0 S	701.8	HAAT	0-	HAAT
28.0	10.0000	0 S	0 S	684.4	HAAT	0-	HAAT
29.0	10.0000	0 S	0 S	678.7	HAAT	0-	HAAT
30.0	10.0000	0 S	0 S	674.7	HAAT	0-	HAAT
31.0	10.0000	0 S	0 S	666.0	HAAT	0-	HAAT
32.0	10.0000	0 S	0 S	647.7	HAAT	0-	HAAT
33.0	10.0000	0 S	0 S	629.3	HAAT	0-	HAAT
34.0	10.0000	0 S	0 S	612.7	HAAT	0-	HAAT
35.0	10.0000	0 S	0 S	600.2	HAAT	0-	HAAT
36.0	10.0000	0 S	0 S	593.1	HAAT	0-	HAAT

GLIDE, OREGON

Translator Type is "Other Area"

08/29/03

LATITUDE: N 43° 11' 44"

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LONGITUDE: W 123° 06' 57"

TERRAIN = 3/30 Arc-Second

BEARING	MAX POWER		-CONTOURS IN DBU-		RADIAL HAAT-m	---LIMITING STATION---		
	IN	WATTS	PROPOSED	EXISTING		CALL	CHAN	FILE
37.0	10.0000		0 S	0 S	589.9	HAAT	0-	HAAT
38.0	10.0000		0 S	0 S	586.0	HAAT	0-	HAAT
39.0	10.0000		0 S	0 S	584.9	HAAT	0-	HAAT
40.0	10.0000		0 S	0 S	575.9	HAAT	0-	HAAT
41.0	10.0000		0 S	0 S	551.8	HAAT	0-	HAAT
42.0	10.0000		0 S	0 S	531.9	HAAT	0-	HAAT
43.0	10.0000		0 S	0 S	531.4	HAAT	0-	HAAT
44.0	10.0000		0 S	0 S	542.2	HAAT	0-	HAAT
45.0	10.0000		0 S	0 S	536.2	HAAT	0-	HAAT
46.0	10.0000		0 S	0 S	533.0	HAAT	0-	HAAT
47.0	10.0000		0 S	0 S	529.3	HAAT	0-	HAAT
48.0	10.0000		0 S	0 S	527.7	HAAT	0-	HAAT
49.0	10.0000		0 S	0 S	540.7	HAAT	0-	HAAT
50.0	10.0000		0 S	0 S	558.1	HAAT	0-	HAAT
51.0	10.0000		0 S	0 S	569.6	HAAT	0-	HAAT
52.0	10.0000		0 S	0 S	572.7	HAAT	0-	HAAT
53.0	10.0000		0 S	0 S	568.7	HAAT	0-	HAAT
54.0	10.0000		0 S	0 S	563.6	HAAT	0-	HAAT
55.0	10.0000		0 S	0 S	556.3	HAAT	0-	HAAT
56.0	10.0000		0 S	0 S	555.7	HAAT	0-	HAAT
57.0	10.0000		0 S	0 S	553.3	HAAT	0-	HAAT
58.0	10.0000		0 S	0 S	550.1	HAAT	0-	HAAT
59.0	10.0000		0 S	0 S	548.8	HAAT	0-	HAAT
60.0	10.0000		0 S	0 S	551.9	HAAT	0-	HAAT
61.0	10.0000		0 S	0 S	561.8	HAAT	0-	HAAT
62.0	10.0000		0 S	0 S	573.8	HAAT	0-	HAAT
63.0	10.0000		0 S	0 S	587.8	HAAT	0-	HAAT
64.0	10.0000		0 S	0 S	601.9	HAAT	0-	HAAT
65.0	10.0000		0 S	0 S	618.7	HAAT	0-	HAAT
66.0	10.0000		0 S	0 S	631.2	HAAT	0-	HAAT
67.0	10.0000		0 S	0 S	639.4	HAAT	0-	HAAT
68.0	10.0000		0 S	0 S	646.1	HAAT	0-	HAAT
69.0	10.0000		0 S	0 S	652.4	HAAT	0-	HAAT
70.0	10.0000		0 S	0 S	657.4	HAAT	0-	HAAT
71.0	10.0000		0 S	0 S	653.0	HAAT	0-	HAAT
72.0	10.0000		0 S	0 S	642.0	HAAT	0-	HAAT
73.0	10.0000		0 S	0 S	630.5	HAAT	0-	HAAT
74.0	10.0000		0 S	0 S	606.3	HAAT	0-	HAAT
75.0	10.0000		0 S	0 S	581.5	HAAT	0-	HAAT
76.0	13.0000		0 S	0 S	558.4	HAAT	0-	HAAT

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BEARING	MAX POWER		-CONTOURS IN DBU-		RADIAL HAAT-m	---LIMITING STATION---		
	IN	WATTS	PROPOSED	EXISTING		CALL	CHAN	FILE
77.0	13.0000		0 S	0 S	542.9	HAAT	0-	HAAT
78.0	13.0000		0 S	0 S	537.4	HAAT	0-	HAAT
79.0	13.0000		0 S	0 S	539.8	HAAT	0-	HAAT
80.0	13.0000		0 S	0 S	536.3	HAAT	0-	HAAT
81.0	13.0000		0 S	0 S	532.3	HAAT	0-	HAAT
82.0	13.0000		0 S	0 S	527.2	HAAT	0-	HAAT
83.0	13.0000		0 S	0 S	526.7	HAAT	0-	HAAT
84.0	13.0000		0 S	0 S	516.4	HAAT	0-	HAAT
85.0	13.0000		0 S	0 S	503.5	HAAT	0-	HAAT
86.0	13.0000		0 S	0 S	494.2	HAAT	0-	HAAT
87.0	13.0000		0 S	0 S	489.0	HAAT	0-	HAAT
88.0	13.0000		0 S	0 S	473.2	HAAT	0-	HAAT
89.0	13.0000		0 S	0 S	450.6	HAAT	0-	HAAT
90.0	13.0000		0 S	0 S	433.4	HAAT	0-	HAAT
91.0	13.0000		0 S	0 S	414.9	HAAT	0-	HAAT
92.0	13.0000		0 S	0 S	396.8	HAAT	0-	HAAT
93.0	13.0000		0 S	0 S	380.6	HAAT	0-	HAAT
94.0	13.0000		0 S	0 S	365.7	HAAT	0-	HAAT
95.0	13.0000		0 S	0 S	352.7	HAAT	0-	HAAT
96.0	13.0000		0 S	0 S	340.8	HAAT	0-	HAAT
97.0	13.0000		0 S	0 S	328.2	HAAT	0-	HAAT
98.0	13.0000		0 S	0 S	319.1	HAAT	0-	HAAT
99.0	13.0000		0 S	0 S	310.4	HAAT	0-	HAAT
100.0	13.0000		0 S	0 S	306.4	HAAT	0-	HAAT
101.0	13.0000		0 S	0 S	308.4	HAAT	0-	HAAT
102.0	13.0000		0 S	0 S	316.7	HAAT	0-	HAAT
103.0	13.0000		0 S	0 S	331.6	HAAT	0-	HAAT
104.0	13.0000		0 S	0 S	344.7	HAAT	0-	HAAT
105.0	13.0000		0 S	0 S	363.0	HAAT	0-	HAAT
106.0	11.0000		0 S	0 S	379.1	HAAT	0-	HAAT
107.0	11.0000		0 S	0 S	394.4	HAAT	0-	HAAT
108.0	11.0000		0 S	0 S	409.4	HAAT	0-	HAAT
109.0	11.0000		0 S	0 S	430.5	HAAT	0-	HAAT
110.0	11.0000		0 S	0 S	458.9	HAAT	0-	HAAT
111.0	11.0000		0 S	0 S	486.3	HAAT	0-	HAAT
112.0	11.0000		0 S	0 S	509.3	HAAT	0-	HAAT
113.0	11.0000		0 S	0 S	522.2	HAAT	0-	HAAT
114.0	11.0000		0 S	0 S	529.8	HAAT	0-	HAAT
115.0	11.0000		0 S	0 S	537.8	HAAT	0-	HAAT
116.0	11.0000		0 S	0 S	538.6	HAAT	0-	HAAT

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	IN	WATTS	PROPOSED	EXISTING		CALL	CHAN	FILE
117.0	11.0000		0 S	0 S	528.1	HAAT	0-	HAAT
118.0	11.0000		0 S	0 S	512.8	HAAT	0-	HAAT
119.0	11.0000		0 S	0 S	499.4	HAAT	0-	HAAT
120.0	11.0000		0 S	0 S	483.1	HAAT	0-	HAAT
121.0	11.0000		0 S	0 S	464.8	HAAT	0-	HAAT
122.0	11.0000		0 S	0 S	446.8	HAAT	0-	HAAT
123.0	11.0000		0 S	0 S	429.3	HAAT	0-	HAAT
124.0	11.0000		0 S	0 S	416.7	HAAT	0-	HAAT
125.0	11.0000		0 S	0 S	404.5	HAAT	0-	HAAT
126.0	11.0000		0 S	0 S	392.4	HAAT	0-	HAAT
127.0	11.0000		0 S	0 S	380.6	HAAT	0-	HAAT
128.0	11.0000		0 S	0 S	373.3	HAAT	0-	HAAT
129.0	11.0000		0 S	0 S	365.6	HAAT	0-	HAAT
130.0	11.0000		0 S	0 S	357.5	HAAT	0-	HAAT
131.0	11.0000		0 S	0 S	347.8	HAAT	0-	HAAT
132.0	11.0000		0 S	0 S	335.5	HAAT	0-	HAAT
133.0	11.0000		0 S	0 S	322.4	HAAT	0-	HAAT
134.0	11.0000		0 S	0 S	311.7	HAAT	0-	HAAT
135.0	11.0000		0 S	0 S	302.3	HAAT	0-	HAAT
136.0	13.0000		0 S	0 S	293.7	HAAT	0-	HAAT
137.0	13.0000		0 S	0 S	284.5	HAAT	0-	HAAT
138.0	13.0000		0 S	0 S	287.1	HAAT	0-	HAAT
139.0	13.0000		0 S	0 S	296.3	HAAT	0-	HAAT
140.0	13.0000		0 S	0 S	302.8	HAAT	0-	HAAT
141.0	13.0000		0 S	0 S	308.8	HAAT	0-	HAAT
142.0	13.0000		0 S	0 S	319.7	HAAT	0-	HAAT
143.0	13.0000		0 S	0 S	335.7	HAAT	0-	HAAT
144.0	13.0000		0 S	0 S	352.5	HAAT	0-	HAAT
145.0	13.0000		0 S	0 S	373.0	HAAT	0-	HAAT
146.0	13.0000		0 S	0 S	395.5	HAAT	0-	HAAT
147.0	13.0000		0 S	0 S	415.7	HAAT	0-	HAAT
148.0	13.0000		0 S	0 S	422.2	HAAT	0-	HAAT
149.0	13.0000		0 S	0 S	428.4	HAAT	0-	HAAT
150.0	13.0000		0 S	0 S	437.2	HAAT	0-	HAAT
151.0	13.0000		0 S	0 S	451.9	HAAT	0-	HAAT
152.0	13.0000		0 S	0 S	465.5	HAAT	0-	HAAT
153.0	13.0000		0 S	0 S	478.2	HAAT	0-	HAAT
154.0	13.0000		0 S	0 S	486.1	HAAT	0-	HAAT
155.0	13.0000		0 S	0 S	486.1	HAAT	0-	HAAT
156.0	13.0000		0 S	0 S	493.1	HAAT	0-	HAAT

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BEARING	MAX POWER		-CONTOURS IN DBU-		RADIAL HAAT-m	---LIMITING STATION---		
	IN	WATTS	PROPOSED	EXISTING		CALL	CHAN	FILE
157.0	13.0000		0 S	0 S	503.4	HAAT	0-	HAAT
158.0	13.0000		0 S	0 S	513.7	HAAT	0-	HAAT
159.0	13.0000		0 S	0 S	523.1	HAAT	0-	HAAT
160.0	13.0000		0 S	0 S	533.1	HAAT	0-	HAAT
161.0	13.0000		0 S	0 S	541.0	HAAT	0-	HAAT
162.0	13.0000		0 S	0 S	543.4	HAAT	0-	HAAT
163.0	13.0000		0 S	0 S	556.8	HAAT	0-	HAAT
164.0	13.0000		0 S	0 S	566.3	HAAT	0-	HAAT
165.0	13.0000		0 S	0 S	574.6	HAAT	0-	HAAT
166.0	10.0000		0 S	0 S	572.5	HAAT	0-	HAAT
167.0	10.0000		0 S	0 S	559.8	HAAT	0-	HAAT
168.0	10.0000		0 S	0 S	560.0	HAAT	0-	HAAT
169.0	10.0000		0 S	0 S	572.5	HAAT	0-	HAAT
170.0	10.0000		0 S	0 S	583.0	HAAT	0-	HAAT
171.0	10.0000		0 S	0 S	595.9	HAAT	0-	HAAT
172.0	10.0000		0 S	0 S	603.1	HAAT	0-	HAAT
173.0	10.0000		0 S	0 S	593.7	HAAT	0-	HAAT
174.0	10.0000		0 S	0 S	584.9	HAAT	0-	HAAT
175.0	10.0000		0 S	0 S	587.3	HAAT	0-	HAAT
176.0	10.0000		0 S	0 S	590.8	HAAT	0-	HAAT
177.0	10.0000		0 S	0 S	602.2	HAAT	0-	HAAT
178.0	10.0000		0 S	0 S	606.8	HAAT	0-	HAAT
179.0	10.0000		0 S	0 S	605.0	HAAT	0-	HAAT
180.0	10.0000		0 S	0 S	603.2	HAAT	0-	HAAT
181.0	10.0000		0 S	0 S	607.7	HAAT	0-	HAAT
182.0	10.0000		0 S	0 S	619.9	HAAT	0-	HAAT
183.0	10.0000		0 S	0 S	632.4	HAAT	0-	HAAT
184.0	10.0000		0 S	0 S	653.1	HAAT	0-	HAAT
185.0	10.0000		0 S	0 S	664.9	HAAT	0-	HAAT
186.0	10.0000		0 S	0 S	671.6	HAAT	0-	HAAT
187.0	10.0000		0 S	0 S	682.6	HAAT	0-	HAAT
188.0	10.0000		0 S	0 S	688.4	HAAT	0-	HAAT
189.0	10.0000		0 S	0 S	677.4	HAAT	0-	HAAT
190.0	10.0000		0 S	0 S	661.1	HAAT	0-	HAAT
191.0	10.0000		0 S	0 S	646.3	HAAT	0-	HAAT
192.0	10.0000		0 S	0 S	633.2	HAAT	0-	HAAT
193.0	10.0000		0 S	0 S	624.3	HAAT	0-	HAAT
194.0	10.0000		0 S	0 S	630.1	HAAT	0-	HAAT
195.0	10.0000		0 S	0 S	639.4	HAAT	0-	HAAT
196.0	10.0000		0 S	0 S	643.7	HAAT	0-	HAAT

GLIDE, OREGON

Translator Type is "Other Area"

08/29/03

LATITUDE: N 43° 11' 44"

ARC = 1102.8 meters AMSL

LONGITUDE: W 123° 06' 57"

TERRAIN = 3/30 Arc-Second

BEARING	MAX POWER		-CONTOURS IN DBU-		RADIAL HAAT-m	---LIMITING STATION---		
	IN	WATTS	PROPOSED	EXISTING		CALL	CHAN	FILE
197.0	10.0000		0 S	0 S	641.6	HAAT	0-	HAAT
198.0	10.0000		0 S	0 S	637.8	HAAT	0-	HAAT
199.0	10.0000		0 S	0 S	643.1	HAAT	0-	HAAT
200.0	10.0000		0 S	0 S	648.1	HAAT	0-	HAAT
201.0	10.0000		0 S	0 S	648.5	HAAT	0-	HAAT
202.0	10.0000		0 S	0 S	647.1	HAAT	0-	HAAT
203.0	10.0000		0 S	0 S	651.4	HAAT	0-	HAAT
204.0	10.0000		0 S	0 S	656.1	HAAT	0-	HAAT
205.0	10.0000		0 S	0 S	647.0	HAAT	0-	HAAT
206.0	10.0000		0 S	0 S	630.8	HAAT	0-	HAAT
207.0	10.0000		0 S	0 S	622.9	HAAT	0-	HAAT
208.0	10.0000		0 S	0 S	610.9	HAAT	0-	HAAT
209.0	10.0000		0 S	0 S	600.8	HAAT	0-	HAAT
210.0	10.0000		0 S	0 S	588.9	HAAT	0-	HAAT
211.0	10.0000		0 S	0 S	575.0	HAAT	0-	HAAT
212.0	10.0000		0 S	0 S	565.3	HAAT	0-	HAAT
213.0	10.0000		0 S	0 S	567.1	HAAT	0-	HAAT
214.0	10.0000		0 S	0 S	570.1	HAAT	0-	HAAT
215.0	10.0000		0 S	0 S	563.1	HAAT	0-	HAAT
216.0	10.0000		0 S	0 S	552.9	HAAT	0-	HAAT
217.0	10.0000		0 S	0 S	547.1	HAAT	0-	HAAT
218.0	10.0000		0 S	0 S	544.5	HAAT	0-	HAAT
219.0	10.0000		0 S	0 S	536.3	HAAT	0-	HAAT
220.0	10.0000		0 S	0 S	529.8	HAAT	0-	HAAT
221.0	10.0000		0 S	0 S	523.1	HAAT	0-	HAAT
222.0	10.0000		0 S	0 S	512.7	HAAT	0-	HAAT
223.0	10.0000		0 S	0 S	510.6	HAAT	0-	HAAT
224.0	10.0000		0 S	0 S	508.9	HAAT	0-	HAAT
225.0	10.0000		0 S	0 S	498.3	HAAT	0-	HAAT
226.0	10.0000		0 S	0 S	484.0	HAAT	0-	HAAT
227.0	10.0000		0 S	0 S	467.0	HAAT	0-	HAAT
228.0	10.0000		0 S	0 S	457.8	HAAT	0-	HAAT
229.0	10.0000		0 S	0 S	458.2	HAAT	0-	HAAT
230.0	10.0000		0 S	0 S	481.7	HAAT	0-	HAAT
231.0	10.0000		0 S	0 S	513.8	HAAT	0-	HAAT
232.0	10.0000		0 S	0 S	548.3	HAAT	0-	HAAT
233.0	10.0000		0 S	0 S	577.8	HAAT	0-	HAAT
234.0	10.0000		0 S	0 S	605.6	HAAT	0-	HAAT
235.0	10.0000		0 S	0 S	632.9	HAAT	0-	HAAT
236.0	10.0000		0 S	0 S	664.0	HAAT	0-	HAAT

GLIDE, OREGON

Translator Type is "Other Area"

08/29/03

LATITUDE: N 43° 11' 44"

ARC = 1102.8 meters AMSL

LONGITUDE: W 123° 06' 57"

TERRAIN = 3/30 Arc-Second

BEARING	MAX POWER		-CONTOURS IN DBU-		RADIAL HAAT-m	---LIMITING STATION---		
	IN	WATTS	PROPOSED	EXISTING		CALL	CHAN	FILE
237.0	10.0000		0 S	0 S	696.2	HAAT	0-	HAAT
238.0	10.0000		0 S	0 S	722.1	HAAT	0-	HAAT
239.0	10.0000		0 S	0 S	740.2	HAAT	0-	HAAT
240.0	10.0000		0 S	0 S	755.5	HAAT	0-	HAAT
241.0	10.0000		0 S	0 S	760.2	HAAT	0-	HAAT
242.0	10.0000		0 S	0 S	762.7	HAAT	0-	HAAT
243.0	10.0000		0 S	0 S	769.8	HAAT	0-	HAAT
244.0	10.0000		0 S	0 S	779.4	HAAT	0-	HAAT
245.0	10.0000		0 S	0 S	784.7	HAAT	0-	HAAT
246.0	10.0000		0 S	0 S	779.7	HAAT	0-	HAAT
247.0	10.0000		0 S	0 S	784.8	HAAT	0-	HAAT
248.0	10.0000		0 S	0 S	789.0	HAAT	0-	HAAT
249.0	10.0000		0 S	0 S	792.9	HAAT	0-	HAAT
250.0	10.0000		0 S	0 S	798.0	HAAT	0-	HAAT
251.0	10.0000		0 S	0 S	802.3	HAAT	0-	HAAT
252.0	10.0000		0 S	0 S	803.8	HAAT	0-	HAAT
253.0	10.0000		0 S	0 S	802.1	HAAT	0-	HAAT
254.0	10.0000		0 S	0 S	797.2	HAAT	0-	HAAT
255.0	10.0000		0 S	0 S	787.2	HAAT	0-	HAAT
256.0	10.0000		0 S	0 S	776.2	HAAT	0-	HAAT
257.0	10.0000		0 S	0 S	768.1	HAAT	0-	HAAT
258.0	10.0000		0 S	0 S	766.1	HAAT	0-	HAAT
259.0	10.0000		0 S	0 S	771.4	HAAT	0-	HAAT
260.0	10.0000		0 S	0 S	774.9	HAAT	0-	HAAT
261.0	10.0000		0 S	0 S	769.4	HAAT	0-	HAAT
262.0	10.0000		0 S	0 S	759.8	HAAT	0-	HAAT
263.0	10.0000		0 S	0 S	758.8	HAAT	0-	HAAT
264.0	10.0000		0 S	0 S	765.2	HAAT	0-	HAAT
265.0	10.0000		0 S	0 S	775.5	HAAT	0-	HAAT
266.0	10.0000		0 S	0 S	782.6	HAAT	0-	HAAT
267.0	10.0000		0 S	0 S	781.4	HAAT	0-	HAAT
268.0	10.0000		0 S	0 S	781.3	HAAT	0-	HAAT
269.0	10.0000		0 S	0 S	781.9	HAAT	0-	HAAT
270.0	10.0000		0 S	0 S	781.4	HAAT	0-	HAAT
271.0	10.0000		0 S	0 S	787.9	HAAT	0-	HAAT
272.0	10.0000		0 S	0 S	800.7	HAAT	0-	HAAT
273.0	10.0000		0 S	0 S	810.9	HAAT	0-	HAAT
274.0	10.0000		0 S	0 S	820.7	HAAT	0-	HAAT
275.0	10.0000		0 S	0 S	835.7	HAAT	0-	HAAT
276.0	10.0000		0 S	0 S	848.6	HAAT	0-	HAAT

GLIDE, OREGON

Translator Type is "Other Area"

08/29/03

LATITUDE: N 43° 11' 44"

ARC = 1102.8 meters AMSL

LONGITUDE: W 123° 06' 57"

TERRAIN = 3/30 Arc-Second

BEARING	MAX POWER		-CONTOURS IN DBU-		RADIAL HAAT-m	---LIMITING STATION---		
	IN	WATTS	PROPOSED	EXISTING		CALL	CHAN	FILE
277.0	10.0000		0 S	0 S	857.6	HAAT	0-	HAAT
278.0	10.0000		0 S	0 S	866.0	HAAT	0-	HAAT
279.0	10.0000		0 S	0 S	869.5	HAAT	0-	HAAT
280.0	10.0000		0 S	0 S	869.0	HAAT	0-	HAAT
281.0	10.0000		0 S	0 S	868.5	HAAT	0-	HAAT
282.0	10.0000		0 S	0 S	865.1	HAAT	0-	HAAT
283.0	10.0000		0 S	0 S	859.3	HAAT	0-	HAAT
284.0	10.0000		0 S	0 S	853.8	HAAT	0-	HAAT
285.0	10.0000		0 S	0 S	847.8	HAAT	0-	HAAT
286.0	10.0000		0 S	0 S	840.1	HAAT	0-	HAAT
287.0	10.0000		0 S	0 S	831.9	HAAT	0-	HAAT
288.0	10.0000		0 S	0 S	826.3	HAAT	0-	HAAT
289.0	10.0000		0 S	0 S	815.5	HAAT	0-	HAAT
290.0	10.0000		0 S	0 S	797.6	HAAT	0-	HAAT
291.0	10.0000		0 S	0 S	780.3	HAAT	0-	HAAT
292.0	10.0000		0 S	0 S	768.9	HAAT	0-	HAAT
293.0	10.0000		0 S	0 S	771.0	HAAT	0-	HAAT
294.0	10.0000		0 S	0 S	778.9	HAAT	0-	HAAT
295.0	10.0000		0 S	0 S	789.3	HAAT	0-	HAAT
296.0	10.0000		0 S	0 S	790.4	HAAT	0-	HAAT
297.0	10.0000		0 S	0 S	788.9	HAAT	0-	HAAT
298.0	10.0000		0 S	0 S	787.1	HAAT	0-	HAAT
299.0	10.0000		0 S	0 S	782.3	HAAT	0-	HAAT
300.0	10.0000		0 S	0 S	781.2	HAAT	0-	HAAT
301.0	10.0000		0 S	0 S	774.6	HAAT	0-	HAAT
302.0	10.0000		0 S	0 S	766.3	HAAT	0-	HAAT
303.0	10.0000		0 S	0 S	763.4	HAAT	0-	HAAT
304.0	10.0000		0 S	0 S	764.2	HAAT	0-	HAAT
305.0	10.0000		0 S	0 S	764.6	HAAT	0-	HAAT
306.0	10.0000		0 S	0 S	768.8	HAAT	0-	HAAT
307.0	10.0000		0 S	0 S	774.4	HAAT	0-	HAAT
308.0	10.0000		0 S	0 S	783.5	HAAT	0-	HAAT
309.0	10.0000		0 S	0 S	791.6	HAAT	0-	HAAT
310.0	10.0000		0 S	0 S	798.5	HAAT	0-	HAAT
311.0	10.0000		0 S	0 S	803.6	HAAT	0-	HAAT
312.0	10.0000		0 S	0 S	806.5	HAAT	0-	HAAT
313.0	10.0000		0 S	0 S	809.3	HAAT	0-	HAAT
314.0	10.0000		0 S	0 S	810.1	HAAT	0-	HAAT
315.0	10.0000		0 S	0 S	806.2	HAAT	0-	HAAT
316.0	10.0000		0 S	0 S	799.3	HAAT	0-	HAAT

GLIDE, OREGON

Translator Type is "Other Area"

08/29/03

LATITUDE: N 43° 11' 44"

ARC = 1102.8 meters AMSL

LONGITUDE: W 123° 06' 57"

TERRAIN = 3/30 Arc-Second

BEARING	MAX POWER		-CONTOURS IN DBU-		RADIAL HAAT-m	---LIMITING STATION---		
	IN	WATTS	PROPOSED	EXISTING		CALL	CHAN	FILE
317.0	10.0000		0 S	0 S	791.1	HAAT	0-	HAAT
318.0	10.0000		0 S	0 S	783.3	HAAT	0-	HAAT
319.0	10.0000		0 S	0 S	780.8	HAAT	0-	HAAT
320.0	10.0000		0 S	0 S	789.9	HAAT	0-	HAAT
321.0	10.0000		0 S	0 S	804.5	HAAT	0-	HAAT
322.0	10.0000		0 S	0 S	812.7	HAAT	0-	HAAT
323.0	10.0000		0 S	0 S	817.3	HAAT	0-	HAAT
324.0	10.0000		0 S	0 S	813.6	HAAT	0-	HAAT
325.0	10.0000		0 S	0 S	807.8	HAAT	0-	HAAT
326.0	10.0000		0 S	0 S	816.1	HAAT	0-	HAAT
327.0	10.0000		0 S	0 S	819.6	HAAT	0-	HAAT
328.0	10.0000		0 S	0 S	820.8	HAAT	0-	HAAT
329.0	10.0000		0 S	0 S	823.5	HAAT	0-	HAAT
330.0	10.0000		0 S	0 S	822.5	HAAT	0-	HAAT
331.0	10.0000		0 S	0 S	818.5	HAAT	0-	HAAT
332.0	10.0000		0 S	0 S	819.8	HAAT	0-	HAAT
333.0	10.0000		0 S	0 S	825.1	HAAT	0-	HAAT
334.0	10.0000		0 S	0 S	821.2	HAAT	0-	HAAT
335.0	10.0000		0 S	0 S	811.2	HAAT	0-	HAAT
336.0	10.0000		0 S	0 S	808.5	HAAT	0-	HAAT
337.0	10.0000		0 S	0 S	809.5	HAAT	0-	HAAT
338.0	10.0000		0 S	0 S	809.5	HAAT	0-	HAAT
339.0	10.0000		0 S	0 S	807.8	HAAT	0-	HAAT
340.0	10.0000		0 S	0 S	799.6	HAAT	0-	HAAT
341.0	10.0000		0 S	0 S	789.0	HAAT	0-	HAAT
342.0	10.0000		0 S	0 S	782.7	HAAT	0-	HAAT
343.0	10.0000		0 S	0 S	779.0	HAAT	0-	HAAT
344.0	10.0000		0 S	0 S	774.3	HAAT	0-	HAAT
345.0	10.0000		0 S	0 S	768.2	HAAT	0-	HAAT
346.0	10.0000		0 S	0 S	759.3	HAAT	0-	HAAT
347.0	10.0000		0 S	0 S	754.1	HAAT	0-	HAAT
348.0	10.0000		0 S	0 S	755.8	HAAT	0-	HAAT
349.0	10.0000		0 S	0 S	761.2	HAAT	0-	HAAT
350.0	10.0000		0 S	0 S	755.9	HAAT	0-	HAAT
351.0	10.0000		0 S	0 S	757.8	HAAT	0-	HAAT
352.0	10.0000		0 S	0 S	764.1	HAAT	0-	HAAT
353.0	10.0000		0 S	0 S	764.2	HAAT	0-	HAAT
354.0	10.0000		0 S	0 S	766.9	HAAT	0-	HAAT
355.0	10.0000		0 S	0 S	772.1	HAAT	0-	HAAT
356.0	10.0000		0 S	0 S	775.3	HAAT	0-	HAAT

GLIDE, OREGON

Translator Type is "Other Area"

08/29/03

LATITUDE: N 43° 11' 44"

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BEARING	MAX POWER		-CONTOURS IN DBU-		RADIAL HAAT-m	---LIMITING STATION---		
	IN	WATTS	PROPOSED	EXISTING		CALL	CHAN	FILE
357.0	10.0000		0 S	0 S	777.8	HAAT	0-	HAAT
358.0	10.0000		0 S	0 S	776.2	HAAT	0-	HAAT
359.0	10.0000		0 S	0 S	779.7	HAAT	0-	HAAT