

## EXHIBIT 12

This application is for a new FM translator service to rebroadcast the programming of FM Station KNHT FM licensed to Rio Dell, California and operating on channel 297C2. The primary station KNHT is a Non-Commercial Educational (NCE) station licensed to Southern Oregon University (SOU). The proposed FM translator will also be a NCE translator to be licensed to SOU and will operate on channel 270 with a maximum antenna ERP of 0.092 kW ERP using a non-directional vertically polarized antenna. This FM translator application complies with all requirements of 47 C.F.R Section 74.1204 for NCE operation on a non-reserved commercial channel.

The proposed antenna power of 0.092 kW ERP-V is the maximum permitted by 47 C.F.R. Section 74.1235 since the maximum HAAT for all radials is the N210E degree radial which is 164 meters. The HAAT for this radial was computed for 2.0 to 3.0 miles (3.21 to 4.83 km) as the distance beyond 3.0 miles on this radial is entirely over the Pacific Ocean.

EXHIBIT 12A is a FM Translator Interference Study tabulating the co-channel and adjacent channel allocations and licensed services which must be protected. Adequate contour protection is provided to all existing services as plotted in EXHIBIT 12B.

**EXHIBIT 12A**

**McClanathan & Associates, Inc.**  
**Portland, Or**

Tuesday, March 11, 2003

**Dataworld FM Interference Study**

**Title: Mendocino**

Channel: 270 FT (101.9 MHz) ERP: 0.25 kW HAAT: 50.0 m  
 Database: FCC 3/4/2003 11:07:28 PM

Latitude: N 39° 20' 33.0"  
 Longitude: W 123° 46' 51.0"  
 Safety Zone: 50.0 km

Call	Auth	Licensee name	Chan	HAAT(m)	ERP	Latitude	Br-to	Dist	Req
City of License		St	FCC File Number	Freq	HAMSL(m)	Longitude	-from	(km)	(km)
None	APP	CALVARY CHAPEL OF TWIN FALLS, IN	216 D	318.0	0 H	N 39° 06' 57.0"	117.9	53.64	2.185
REGINA HEIGHTS		CA	BNPFT-20000320AAW	91.1	778.0	0.01 V W 123° 13' 56.0"	298.2	51.46	CLEAR
[A: SCA CA-2V @ 0.0°									
Proposed Channel 270 FT 91 dBuV/m F(50,10) Interfering contour = 1.6 km					None Channel 216 D 91 dBuV/m F(50,50) Service contour = 0.6 km				
50926MB	CP	THE CHILDREN'S CROSS-CULTURAL CO	217 A	-126.0		N 38° 17' 35.0"	135.2	163.4	6.397
SONOMA		CA	BPED-19950926MB	91.3	33.0	6 V W 122° 27' 40.0"	316.0	157.0	CLEAR
Assumed HAAT: 100 m									
Proposed Channel 270 FT 91 dBuV/m F(50,10) Interfering contour = 1.6 km					950926MB Channel 217 A 91 dBuV/m F(50,50) Service contour = 4.8 km				
KIOI-FM1	LIC	AMFM RADIO LICENSES, L.L.C.	267 D	300.0		N 37° 55' 57.0"	136.9	213.0	20.88
WALNUT CREEK		CA	BLFTB-19990225UC	101.3	427.0	0.15 V W 122° 07' 20.0"	317.9	192.1	CLEAR
[A: ODD ODD980825TF @ 0.0°									
Proposed Channel 270 FT 100 dBuV/m F(50,10) Interfering contour = 0.9 km					KIOI-FM1 Channel 267 D 60 dBuV/m F(50,50) Service contour = 19.9 km				
Proposed Channel 270 FT 60 dBuV/m F(50,50) Service contour = 9.3 km					KIOI-FM1 Channel 267 D 100 dBuV/m F(50,10) Interfering contour = 0.8 km				
K268AN	CP	EDUCATIONAL MEDIA FOUNDATION	268 D		0.01 H	N 39° 07' 50.0"	111.0	65.28	10.29
UKIAH		CA	BPFT-20011030ACW	101.5	1115.0	0.01 V W 123° 04' 32.0"	291.4	54.99	CLEAR
Assumed HAAT: 30 m									
Proposed Channel 270 FT 80 dBuV/m F(50,10) Interfering contour = 3.0 km					K268AN Channel 268 D 60 dBuV/m F(50,50) Service contour = 3.2 km				
Proposed Channel 270 FT 60 dBuV/m F(50,50) Service contour = 9.3 km					K268AN Channel 268 D 80 dBuV/m F(50,10) Interfering contour = 1.0 km				
ALLOC	USE	EUREKA BROADCASTING CO., INC.	268 C			N 40° 25' 12.0"	347.9	122.4	94.80
EUREKA		CA		101.5		W 124° 05' 00.0"	167.7	27.60	CLEAR
Assumed ERP: 100 kW; HAAT: 600 m									
Proposed Channel 270 FT 80 dBuV/m F(50,10) Interfering contour = 3.0 km					ALLOC Channel 268 C 60 dBuV/m F(50,50) Service contour = 91.8 km				
Proposed Channel 270 FT 60 dBuV/m F(50,50) Service contour = 9.3 km					ALLOC Channel 268 C 80 dBuV/m F(50,10) Interfering contour = 50.4 km				
KEKA-FM	LIC	EUREKA BROADCASTING CO., INC.	268 C	625.0	89 H	N 40° 25' 12.0"	347.9	122.4	94.55
EUREKA		CA	BLH-19831212AA	101.5	985.0	89 V W 124° 05' 00.0"	167.7	27.85	CLEAR
Proposed Channel 270 FT 80 dBuV/m F(50,10) Interfering contour = 3.0 km					KEKA-FM Channel 268 C 60 dBuV/m F(50,50) Service contour = 91.6 km				
Proposed Channel 270 FT 60 dBuV/m F(50,50) Service contour = 9.3 km					KEKA-FM Channel 268 C 80 dBuV/m F(50,10) Interfering contour = 50.0 km				
ALLOC	USE	MAVERICK MEDIA OF SANTA ROSA LIC	269 B1			N 38° 28' 49.0"	137.2	130.1	69.46
SANTA ROSA		CA		101.7		W 122° 45' 56.0"	317.8	60.60	CLEAR
Assumed ERP: 25 kW; HAAT: 100 m									
Proposed Channel 270 FT 51 dBuV/m F(50,10) Interfering contour = 15.4 km					ALLOC Channel 269 B1 57 dBuV/m F(50,50) Service contour = 44.7 km				
Proposed Channel 270 FT 60 dBuV/m F(50,50) Service contour = 9.3 km					ALLOC Channel 269 B1 54 dBuV/m F(50,10) Interfering contour = 60.2 km				
K270AA	LIC	EDUCATIONAL MEDIA FOUNDATION	270 D	82.0	0.25 H	N 40° 36' 37.0"	39.8	184.8	49.43
REDDING		CA	BLFT-19940222TI	101.9		W 122° 22' 44.0"	220.7	135.4	CLEAR
[A: SCA GP-150X @ 150.0°									
Proposed Channel 270 FT 40 dBuV/m F(50,10) Interfering contour = 30.7 km					K270AA Channel 270 D 60 dBuV/m F(50,50) Service contour = 11.7 km				
Proposed Channel 270 FT 60 dBuV/m F(50,50) Service contour = 9.3 km					K270AA Channel 270 D 40 dBuV/m F(50,10) Interfering contour = 40.1 km				
ALLOC	USE	RESULTS RADIO LICENSEE, LLC	271 B1			N 39° 53' 16.0"	58.1	116.1	69.46
LOS MOLINOS		CA		102.1		W 122° 37' 38.0"	238.8	46.64	CLEAR
Assumed ERP: 25 kW; HAAT: 100 m									
Proposed Channel 270 FT 51 dBuV/m F(50,10) Interfering contour = 15.4 km					ALLOC Channel 271 B1 57 dBuV/m F(50,50) Service contour = 44.7 km				
Proposed Channel 270 FT 60 dBuV/m F(50,50) Service contour = 9.3 km					ALLOC Channel 271 B1 54 dBuV/m F(50,10) Interfering contour = 60.2 km				

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Call	Auth	Licensee name	Chan	HAAT(m)	ERP	Latitude	Br-to	Dist	Req
City of License		St	FCC File Number	Freq	HAMSL(m)	(kW)	Longitude	-from	(km)
ALLOC	USE	DEL MAR TRUST	272 B1			N 38° 54' 42.0"	170.7	48.47	48.23
POINT ARENA		CA		102.3		W 123° 41' 24.0"	350.7	0.239	CLCSE

**Assumed ERP: 25 kW; HAAT: 100 m**

Proposed Channel 270 FT 77 dBuV/m F(50,10) Interfering contour = 3.5 km  
 Proposed Channel 270 FT 60 dBuV/m F(50,50) Service contour = 9.3 km

ALLOC Channel 272 B1 : 7 dBuV/m F(50,50) Service contour = 44.7 km  
 ALLOC Channel 272 B1 80 : dBuV/m F(50,10) Interfering contour = 12.9 km

950206MK	CP	DEL MAR TRUST	272 B1	432.0	1.2 H	N 38° 53' 44.0"	157.5	53.72	48.15
POINT ARENA		CA	BPH-19950206MK	102.3	707.0	1.2 V W 123° 32' 34.0"	337.6	5.574	CLCSE

Proposed Channel 270 FT 77 dBuV/m F(50,10) Interfering contour = 3.5 km  
 Proposed Channel 270 FT 60 dBuV/m F(50,50) Service contour = 9.3 km

950206MK Channel 272 B1 : 7 dBuV/m F(50,50) Service contour = 44.7 km  
 950206MK Channel 272 B1 80 : dBuV/m F(50,10) Interfering contour = 12.5 km

KSFM	LIC	INFINITY RADIO OF SACRAMENTO, IN	273 B	127.1	16 H	N 38° 35' 20.0"	114.6	196.8	52.51
WOODLAND		CA	BLM-19941118KE	102.5	140.0	16 V W 121° 43' 30.0"	295.9	144.3	CLEAR

Proposed Channel 270 FT 94 dBuV/m F(50,10) Interfering contour = 1.3 km  
 Proposed Channel 270 FT 60 dBuV/m F(50,50) Service contour = 9.3 km

KSFM Channel 273 B : 4 dBuV/m F(50,50) Service contour = 51.2 km  
 KSFM Channel 273 B 10 : dBuV/m F(50,10) Interfering contour = 4.1 km

&gt;&gt; End of channel 270 FT study &lt;&lt;

**EXHIBIT 12B**

60.0 dBu f (50.50)

40:30:03.0N  
123:17:10.0W**PRIMARY FM KNHT**  
CH. 297C2

+

+

60.0 dBu f (50.50)

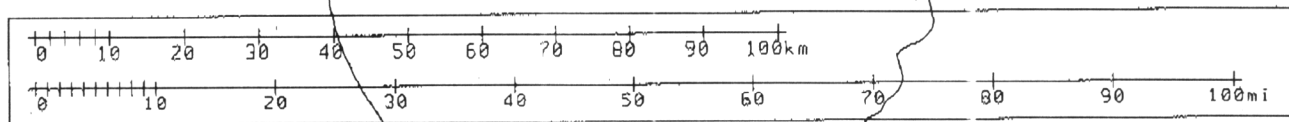
39:20:33.0N  
123:45:54.0W**PROPOSED**  
CH. 270 TRANSLATOR  
0.092 kW ERP-V

60.0 dBu f (50.50)

**KYOE**  
CH. 272B1 CP38:53:44.0N  
123:32:34.0W

+ 1 DEGREE CROSS-MARKS

Scale 1: 980650.

McClanathan & Associates, Inc.  
P.O. Box 939  
Portland, OR 97207**PLOTTED USING 360 RADIALS**  
HAAT FROM 3.22 TO 16.09 KM