

## Exhibit 12

### Non-Interference Compliance

**Channel: 259**

Reference to: FCC File Number: BLFT-20090909AAC Licensed Translator W260BZ Lancaster, NH, Facility id 155261) This Application proposes a site modification to Jefferson, New Hampshire, and frequency change, down one channel. Designation of Commercial Primary Station remains the same. (WXXS-FM)

### Description of Exhibit 12 Contents

This exhibit will show that the proposed facility complies with contour overlap interference protection provisions in 47 CFR 74.1204.

Specifically we will show compliance because the Proposed ch. 259 Translator is fully spaced with all domestic and international stations, applications, and allotments.

The applicant certifies that should any actual interference occur, operation of the translator will be suspended in accordance with 47 CFR 74.1203.

Page 3, Exhibit 12(a), displays the F(50/50) 60 dbu of the proposed channel 259 Translator overlapping the F(50/50) 60 dbu of the original W260BZ Licensed Facilities, thus compliance with CFR, 74.1233(a) (2).

Please note that the Primary Station is (WXXS-FM), Lancaster, NH. Received Direct Off Air.

Page 4, Exhibit 12(b) Shows that the F(50,50 60 dBu Contour of the Proposed Ch. 259 Translator, does not exceed the F(50,50) 60 dBu Contour of Primary Station WXXS-FM.(72 Radial Points were used in this portion of the study)

Page 5, Exhibit 12(c), is a Table showing the distance to the F (50/50) 60 dbu contour of the Proposed 99.7 Translator, prepared using ComStudy 2.2. \*(Also note the HAAT Column of this Exhibit for Reference)

Page 6, Exhibit 12(d), is a Table showing the distance to the Proposed ch. 259 Translator's F(50,10) 34 dBu Interfering Contour.

Page 7, Exhibit 12(e), is a Topographical map of the area around the proposed channel 259 translator site.

Since the proposed channel 259 translator is about 53.8 kilometers from the Canadian Border, the applicant certifies that the 50/10, 34 dbu contour does not extend beyond the U.S. Border, and hence is in compliance with 47 CFR 74.1204(h). (see page 8, Exhibit 12(e) & Page 3, Exhibit 12 (a))

Cont...

**Explanation of ComStudy Frequency Finder Results:**

The Interference analysis for the instant application was performed using data taken directly from the FCC's FM database, which looks for prohibited overlap with contours of adjacent stations, and prohibited proximity to stations 53 or 54 channels from the proposed translator station (IF) using 3 arc second terrain data and the FCC's contour algorithms. See results of analysis in Table on Page 9, Exhibit 12(g). (ComStudy uses the FCC's FM Database, thus the results included the proposed translator's currently licensed or applied for facilities. This line was deleted from the Table to save confusion) The results show the proposal is fully spaced to all domestic, and international stations, applications, and allotments.

The proposed channel 259 Translator can operate with an effective radiated power of 31-watts at 5 meters AGL. . (see page 3, Exhibit 12(a) Contour Study) (For reference HAAT on the 12 required radials, see page 3, Exhibit 12 (a) and note the HAAT column)

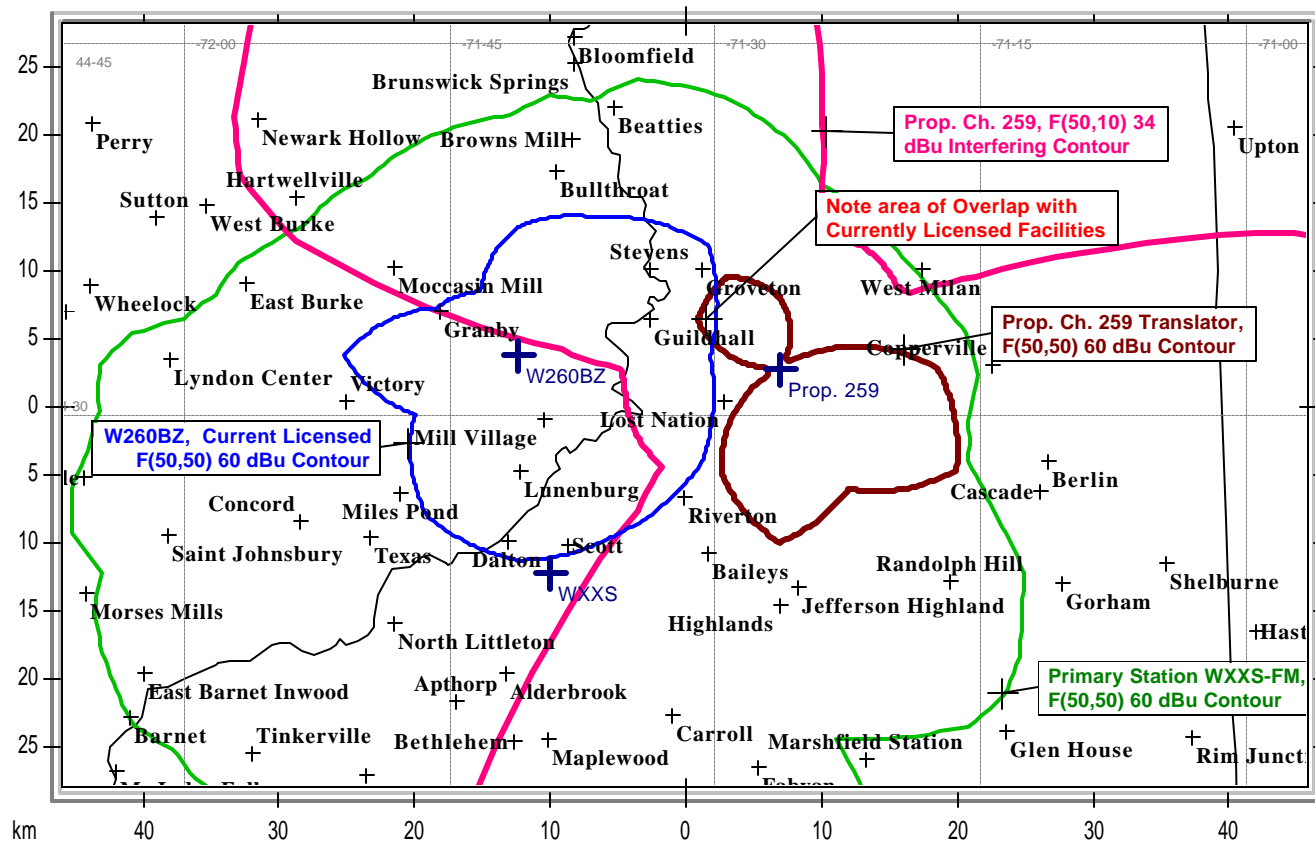
THE PROPOSED OPERATION OF CH. 259, FM TRANSLATOR IS EXEMPT FROM ROUTINE EVALUATION WITH RESPECT TO RADIOFREQUENCY RADIATION UNDER SECTION 1.1307(B) OF THE COMMISSION'S RULES, BECAUSE THE EFFECTIVE RADIATED POWER DOES NOT EXCEED 100 WATTS. THE APPLICANT WILL OPERATE THE PROPOSED FM TRANSLATOR AT REDUCED POWER, OR TEMPORARILY CEASE OPERATION, AS MAY BE REQUIRED TO PROTECT ALL WORKERS FROM EXPOSURE TO HAZARDOUS LEVELS OF RADIOFREQUENCY RADIATION.

Prop. Ch. 259 Translator

Jefferson, New Hampshire

31 Watts ERP @ 5 Meters AGL

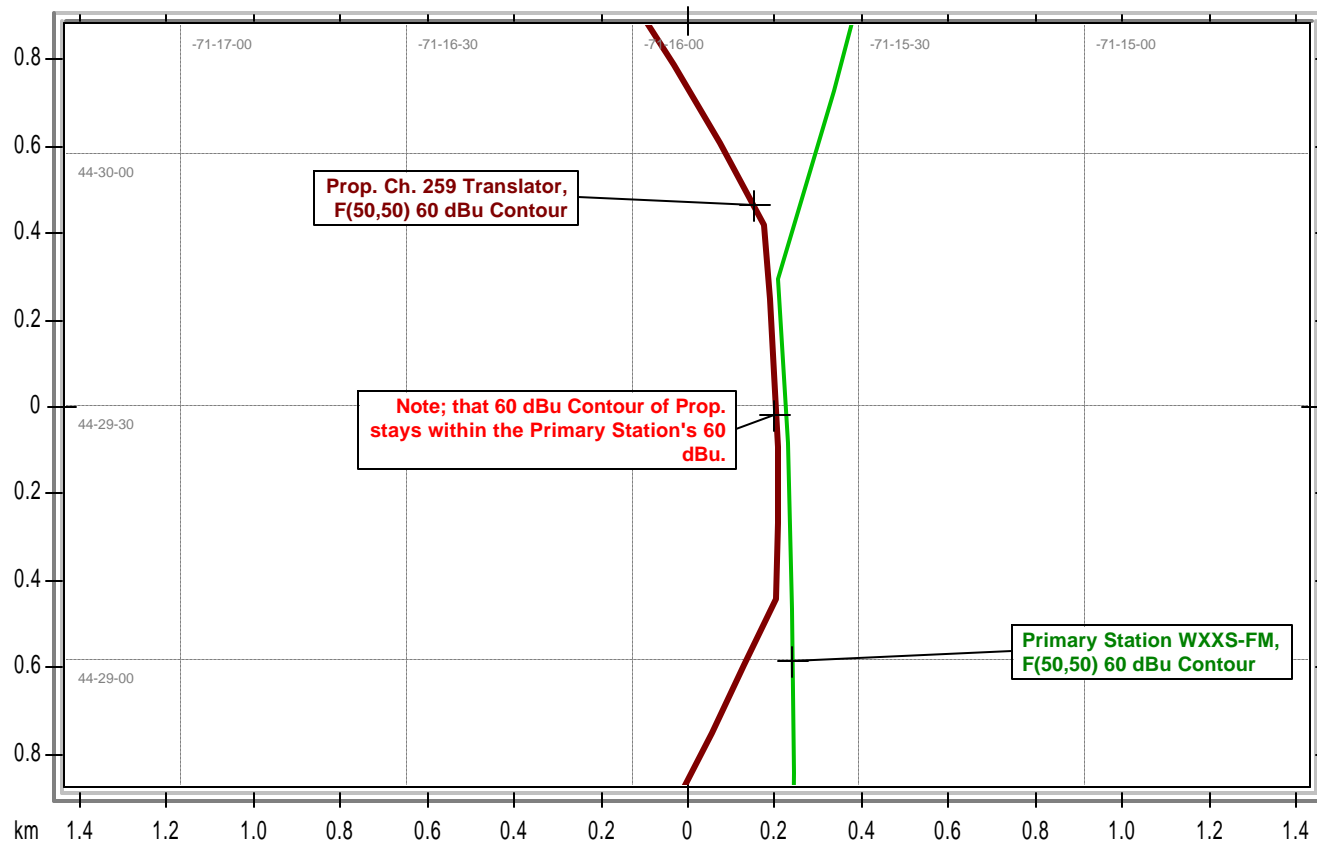
Ch. 259 Xlator is fully spaced to all Domestic & Intl. Stations, Applications & Allotments



F(50,10) 34 dbu Contour does not Cross Canadian Border.

State Borders Lat/Lon Grid

Ch. 259 Xlator is fully spaced to all Domestic & Intl. Stations, Applications & Allotments



F(50,10) 34 dbu Contour does not Cross Canadian Border.

State Borders Lat/Lon Grid

**Proposed Ch. 259 Translator**  
**Distance to 60 dBu Contour**

**Site:** Prop. 259  
**Coordinates:** 44-31-54.0 N, 71-26-21.0 W  
**Freq:** 99.70000 MHz  
**ERP:** 30.90 W

<u>Bearing</u>	<u>ERP W</u>	<u>HAAT</u>	<u>DH</u>	<u>Distance</u>	<u>Lat</u>	<u>Lon</u>
0	0.8	509	300	5.3	44.57932	-71.4392
30	0.01	598	350	5.15	44.578	-71.438
60	0.01	554	180	5	44.57666	-71.437
90	8.74	456	470	4.86	44.57531	-71.436
120	24.53	446	400	4.71	44.57395	-71.435
150	30.16	180	570	4.57	44.57258	-71.4341
180	18.56	366	670	4.42	44.5712	-71.4333
210	2.44	674	240	4.27	44.56981	-71.4326
240	0.01	732	190	4.13	44.56842	-71.4319
270	0.01	692	330	3.98	44.56702	-71.4313
300	1.47	648	500	3.83	44.56562	-71.4308
330	2.06	593	290	3.69	44.56422	-71.4303

**Proposed Ch. 259 Translator**  
**Distance to 34 dBu Contour**

**Site:** Prop. 259  
**Coordinat** 44-31-54.0 N, 71-26-21.0 W  
**Freq:** 99.70000 MHz  
**ERP:** 30.90 W

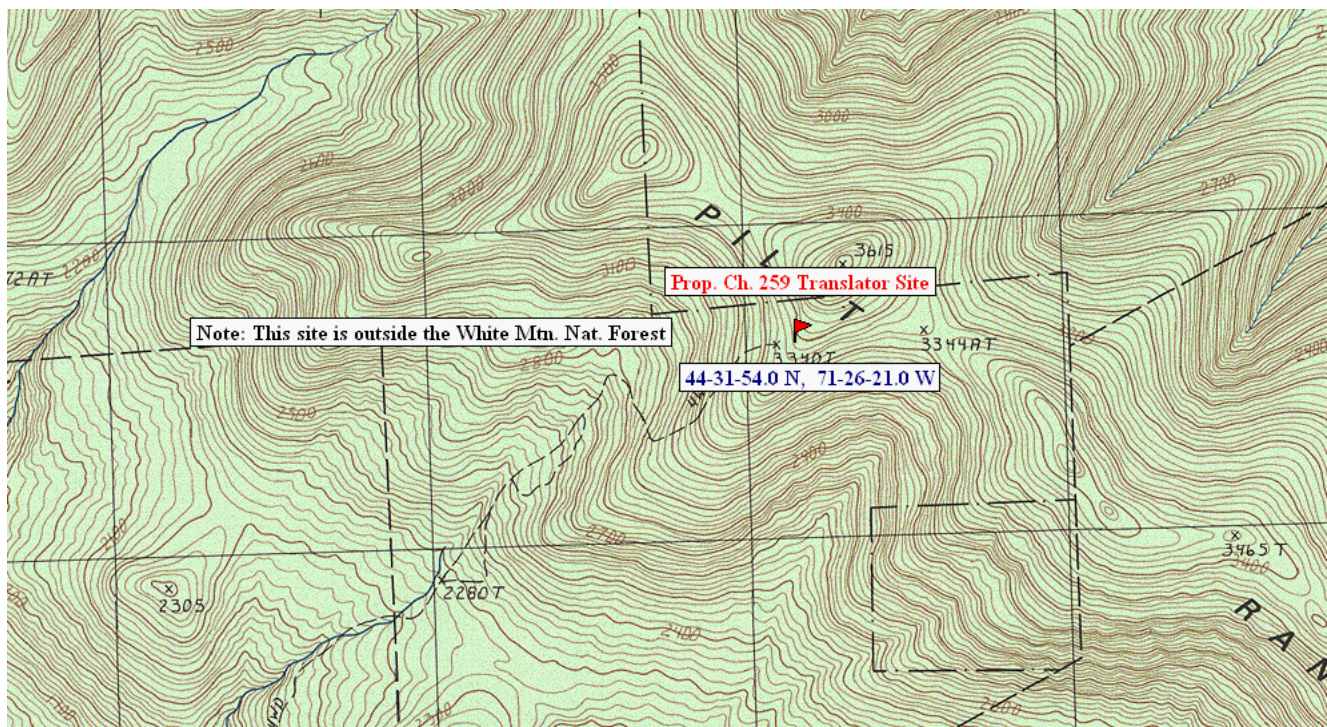
<u>Bearing</u>	<u>ERP W</u>	<u>HAAT</u>	<u>DH</u>	<u>Distance</u>	<u>Lat</u>	<u>Lon</u>
0	0.8	509	300	33.95	44.83706	-71.4392
5	0.39	523	290	32.8	44.82668	-71.4319
10	0.09	496	450	31.66	44.81622	-71.4252
15	0.02	534	350	30.51	44.80567	-71.4189
20	0.01	538	360	29.36	44.79507	-71.4132
25	0.01	586	360	28.21	44.7844	-71.408
30	0.01	598	350	26.25	44.76646	-71.4044
35	0.01	631	260	24.29	44.74851	-71.4017
40	0.01	614	130	22.33	44.73057	-71.3998
45	0.01	608	150	20.37	44.71265	-71.3988
50	0.01	593	150	18.41	44.69477	-71.3987
55	0.01	571	140	17.06	44.68228	-71.398
60	0.01	554	180	15.7	44.66981	-71.3979
65	0.05	543	250	14.35	44.6574	-71.3984
70	0.32	501	350	12.99	44.64504	-71.3994
75	1.35	522	390	11.63	44.63275	-71.4011
80	3.28	491	440	11.39	44.63015	-71.3995
85	5.74	469	560	11.15	44.62754	-71.398
90	8.74	456	470	10.9	44.62493	-71.3966
95	11.69	429	430	10.66	44.62231	-71.3953
100	14.5	465	410	10.41	44.61969	-71.3942
105	17.15	497	470	10.49	44.61971	-71.3917
110	19.58	491	430	10.56	44.6197	-71.3892
115	22.22	456	410	10.63	44.61967	-71.3867
120	24.53	446	400	10.7	44.61959	-71.3842
125	26.61	394	590	10.77	44.61948	-71.3816
130	28.24	406	600	10.79	44.61889	-71.3794
135	29.79	383	580	10.81	44.61827	-71.3772
140	30.4	332	590	10.83	44.61763	-71.3749
145	30.77	244	520	10.85	44.61696	-71.3727
150	30.16	180	570	10.86	44.61626	-71.3705
155	29.31	158	1010	10.91	44.61573	-71.3682
160	27.53	210	1160	10.95	44.61517	-71.3658
165	25.81	252	580	10.99	44.61457	-71.3635
170	23.6	289	580	11.04	44.61395	-71.3612
175	21.23	326	510	11.08	44.61329	-71.3589
180	18.56	366	670	11.06	44.61212	-71.357
185	16.11	400	550	11.04	44.61093	-71.3552
190	13.38	482	850	11.02	44.60971	-71.3535
195	10.5	565	550	10.99	44.60848	-71.3518
200	7.54	636	810	10.97	44.60722	-71.3501

205	4.68	667	460	10.96	44.60606	-71.3483
210	2.44	674	240	10.96	44.60486	-71.3466
215	0.83	690	220	10.95	44.60365	-71.3448
220	0.15	702	140	10.94	44.60241	-71.3432
225	0.02	704	100	10.93	44.60115	-71.3415
230	0.01	698	240	10.91	44.5998	-71.34
235	0.01	708	210	10.89	44.59842	-71.3386
240	0.01	732	190	10.87	44.59704	-71.3371
245	0.01	758	160	10.85	44.59563	-71.3358
250	0.01	756	150	10.83	44.59422	-71.3344
255	0.01	746	240	10.79	44.59272	-71.3332
260	0.01	734	280	10.76	44.5912	-71.3321
265	0.01	714	280	10.73	44.58968	-71.331
270	0.01	692	330	10.69	44.58815	-71.3299
275	0.03	688	320	10.66	44.5866	-71.3289
280	0.16	690	360	10.77	44.58576	-71.3265
285	0.55	692	340	10.87	44.58486	-71.324
290	0.95	694	370	10.98	44.58393	-71.3216
295	1.22	673	440	11.08	44.58295	-71.3192
300	1.47	648	500	11.19	44.58193	-71.3168
305	1.68	650	490	12.19	44.58475	-71.3045
310	1.87	648	240	13.2	44.58729	-71.292
315	1.96	641	280	14.2	44.58953	-71.2794
320	2.09	658	220	15.2	44.59147	-71.2666
325	2.09	610	280	16.2	44.59311	-71.2537
330	2.06	593	290	18.2	44.59804	-71.2292
335	1.92	562	350	20.19	44.60238	-71.2044
340	1.81	570	440	22.18	44.60611	-71.1794
345	1.59	538	310	24.17	44.60923	-71.1541
350	1.38	544	430	26.16	44.61174	-71.1285
355	1.12	542	620	28.86	44.61567	-71.0943

Proposed Ch. 259 FM Translator Site Topo Map

44-31-54.0 N

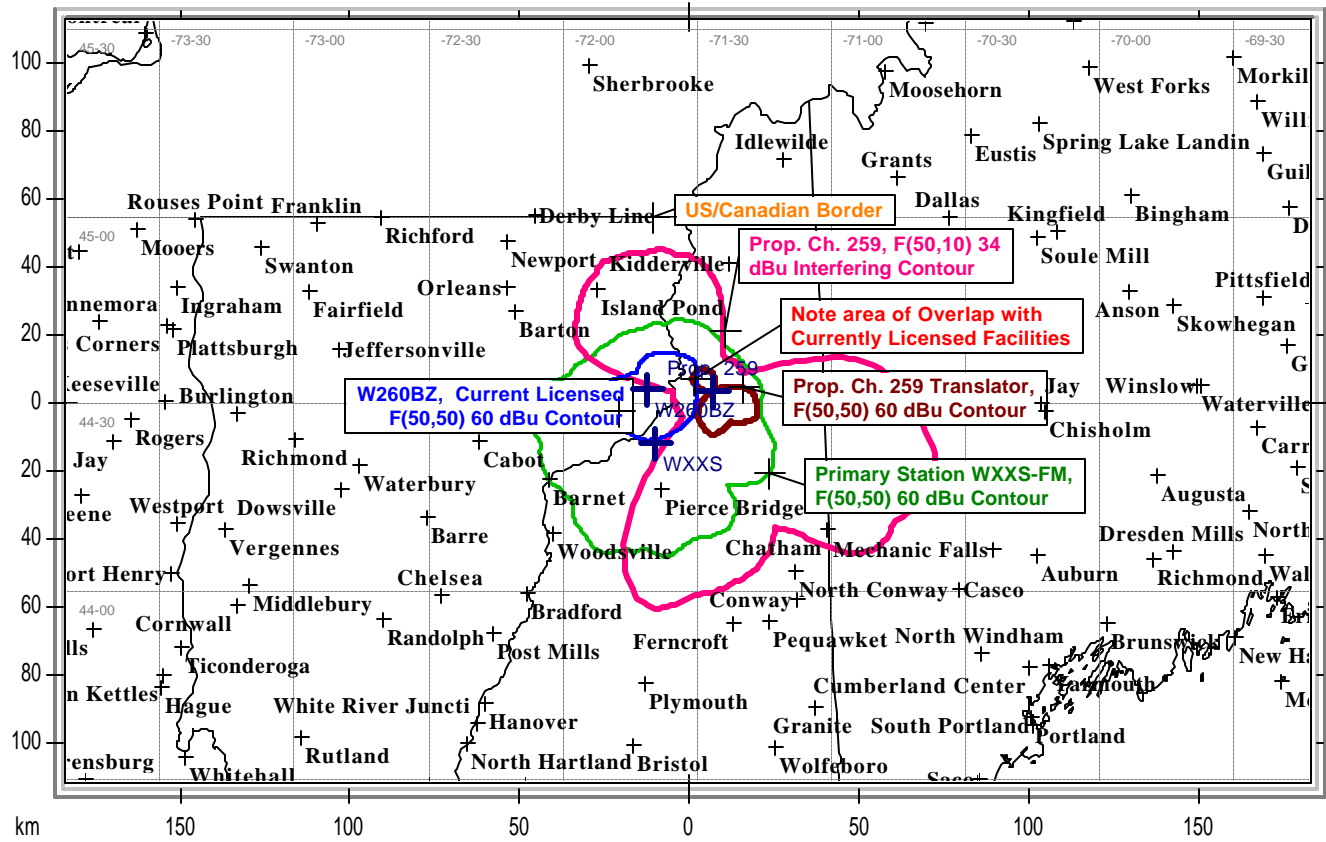
71-26-21.0 W



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Ch. 259 Xlator is fully spaced to all Domestic & Intl. Stations, Applications & Allotments



F(50,10) 34 dbu Contour does not Cross Canadian Border.

State Borders Lat/Lon Grid

**Prop. Ch. 259 Translator, Jefferson, NH**

**44-31-54.0 N, 71-26-21.0 W**

**31 Watts @ 5 Meters AGL**

<u>Callsign</u>	<u>State</u>	<u>City</u>	<u>Freq</u>	<u>Channel</u>	<u>ERP_w</u>	<u>Class</u>	<u>Status</u>	<u>Distance_kr</u>	<u>Sep</u>	<u>Clr</u>
871029MI	NH	JACKSON	99.5	258	0	A	USE	42.8	0	11.57 dB
NEW	ME	BRUNSWICK	99.5	258	10	D	APP	133.46	0	36.87 dB
NEW	ME	LEWISTON	99.5	258	13	D	APP	115.28	0	32.55 dB
NEW	ME	WATERVILLE	99.7	259	19	D	APP	145.34	0	30.59 dB
NEW	ME	WATERVILLE	99.7	259	27	D	APP	139.43	0	29.19 dB
NEW	NH	BERLIN	100.1	261	10	D	APP	20.64	0	6.93 dB
NEW	NH	BERLIN	100.3	262	10	D	APP	20.61	0	6.93 dB
NEW	VT	BARRE	99.5	258	10	D	APP	101.53	0	35.60 dB
NEW	VT	WAITSFIELD	99.7	259	120	D	APP	117.57	0	23.22 dB
W257AU	VT	ST. JOHNSBURY, ETC.	99.3	257	5	D	LIC	44.35	0	33.98 dB
W258AZ	VT	NEWBURY	99.5	258	10	D	LIC	77.19	0	30.54 dB
WBTZ	NY	PLATTSBURGH	99.9	260	9900	C	LIC	174.5	0	36.66 dB
WBTZ	NY	PLATTSBURGH	99.9	260	9900	C	LIC	174.48	0	36.68 dB
WBTZ	NY	PLATTSBURGH	99.9	260	100000	C	LIC	174.51	0	28.84 dB
WCRB	MA	LOWELL	99.5	258	27000	B	LIC	209.4	0	33.94 dB
WCRB	MA	LOWELL	99.5	258	27000	B	LIC	209.4	0	33.94 dB
WCRB	MA	LOWELL	99.5	258	37000	B	LIC	209.4	0	33.12 dB
WEVJ	NH	JACKSON	99.5	258	4700	A	LIC	45.12	0	6.90 dB
WFRD	NH	HANOVER	99.3	257	6000	A	LIC	119.23	0	36.65 dB
WHEB	NH	PORTSMOUTH	100.3	262	50000	B	LIC	172.94	0	30.89 dB
WHEB	NH	PORTSMOUTH	100.3	262	50000	B	LIC	172.94	0	31.65 dB
WJPK	VT	BARTON	100.3	262	100	A	LIC	62.3	0	38.19 dB
WNTK-FM	NH	NEW LONDON	99.7	259	0	A	USE	131.71	0	25.32 dB
WNTK-FM	NH	NEW LONDON	99.7	259	1450	A	LIC	129.55	0	17.57 dB
WNTK-FM1	NH	CLAREMONT	99.7	259	55	D	LIC	147.55	0	31.69 dB
WNYN-FM	NH	WHITEFIELD	99.1	256	460	A	LIC	30.97	0	2.99 dB
WNYN-FM*	NH	WHITEFIELD	99.1	256	0	A	USE	11.02	0	9.72 dB
WPNH-FM	NH	PLYMOUTH	100.1	261	410	A	LIC	92.45	0	28.95 dB
WTHT	ME	AUBURN	99.9	260	0	B	USE	111.74	0	28.19 dB
WTHT	ME	AUBURN	99.9	260	28500	B	LIC	111.74	0	7.56 dB