

BENJAMIN F. DAWSON III, PE
THOMAS M. ECKELS, PE
STEPHEN S. LOCKWOOD, PE
DAVID J. PINION, PE

ERIK C. SWANSON, PE
THOMAS S. GORTON, PE
MICHAEL H. MEHIGAN, EIT

HATFIELD & DAWSON
CONSULTING ELECTRICAL ENGINEERS
9500 GREENWOOD AVE. N.
SEATTLE, WASHINGTON 98103

TELEPHONE (206) 783-9151
FACSIMILE (206) 789-9834
E-MAIL hatdaw@hatdaw.com

JAMES B. HATFIELD, PE
PAUL W. LEONARD, PE
CONSULTANTS

MAURY L. HATFIELD, PE
(1942-2009)

Engineering Statement
Request for Special Temporary Authorization
WEEI-AM, Boston MA.
Facility ID 1912
Entercom Boston License, LLC

April 7, 2010

This Engineering Statement has been prepared in support of a request by Entercom Boston License, LLC, licensee of AM station WEEI, Boston, MA for Special Temporary Authorization (STA) to operate the nighttime directional antenna pattern of WEEI with parameters and power at variance with the values specified in the station’s authorization, while maintaining the nighttime monitor points at field strength values below their specified limits.

A recent partial proof of performance conducted by the engineering staff of WEEI revealed that three of the monitored radials associated with the nighttime directional operation of WEEI were above their respective augmented standard pattern limits. As the measured IDF values will not result in prohibited interference to any other facility, Entercom will be filing FCC Forms 301 & 302 to request further augmentation of the nighttime directional pattern. The instant STA request is necessary for nighttime operation while the above mentioned filings are prepared, filed and processed by staff.

As demonstrated by the following pages, which will be included in the pending augmentation application, the monitor point for the 260° radial is no longer representative of the rest of the radial, as the ratio of the directional field strength at this point compared to the nondirectional field strength is almost double the average for all other points on the radial. The table below demonstrates the Inverse Distance Field (IDF) calculations for the 260° radial:

ND IDF	DA-N/ND Ratio	DA-N IDF	Licensed Augmented SP Limit	Measured MP Field	Licensed MP Lim
1750	.162	283.5	128.8	33	12.7

As shown above, the 260° radial is currently at 220% of its presently licensed augmented standard pattern limit. Reduction of the monitor point reading by a factor of 2.2 will result in a monitor point reading of 15 mV/m, which is above the monitor point limit of 12.7 specified in the WEEI station license. Entercom Boston License, LLC respectfully requests Special Temporary Authorization to operate the nighttime directional antenna of WEEI with parameters and power at variance from licensed values, while maintaining the 260° monitor point to a value not to exceed 15 mV/m, and all other monitor points to be maintained at or below their presently licensed limits.

A handwritten signature in blue ink, appearing to read 'T. S. Gorton', with a stylized flourish at the end.

Thomas S. Gorton P.E.
Consulting Engineer

**WEEI
Boston
850
Partial Proof
March, 2010**

Radial 260° True

Point Number	Distance KM	North Latitude	West Longitude	Non-Directional			Night Pattern			Ratio Night / ND
				Date	Time	mV/M	Date	Time	mV/M	
1	1.76	42.27508	71.28756	1/16/10	14:27	660				
2	1.97	42.27472	71.29012	4/6/10	13:55	640				
3	2.05	42.27459	71.29105	4/6/10	13:59	610				
4	2.11	42.2745	71.2917	4/6/10	14:04	600				
5	2.22	42.27433	71.29308	4/6/10	14:01	530				
6	2.33	42.27417	71.29441	1/16/10	14:18	540				
7	2.39	42.27407	71.29505	4/6/10	14:10	500				
8	3.60	42.27217	71.30963	1/16/10	14:11	248				
9	3.68	42.27207	71.31055	1/16/10	14:08	215				
10	4.04	42.27147	71.31492	1/16/10	14:03	245	3/13/10	10:50	48	0.170
11 MP (NEW)	4.18	42.27129	71.31658	1/16/10	14:01	240	3/13/10	10:52	43	0.179
12	4.36	42.27097	71.3187	1/16/10	13:14	221	3/13/10	11:49	43	0.195
13 MP (OLD)	4.83	42.27049	71.32445	1/16/10	13:06	108	3/13/10	10:54	33.0	0.306
14	6.35	42.26786	71.34255	1/16/10	12:45	100	3/13/10	12:08	17	0.170
15	6.52	42.26759	71.3446	3/27/10	10:24	66	3/26/10	12:36	10.6	0.161
16	6.66	42.26737	71.34624	1/16/10	12:43	96	3/13/10	12:13	17	0.177
17	7.10	42.26668	71.35153	1/16/10	12:35	58	3/13/10	12:18	10.2	0.176
18	7.23	42.26684	71.35315	3/27/10	10:39	68	4/6/10	10:50	9.5	0.140
19	7.87	42.26551	71.36073	1/16/10	12:31	72	3/13/10	12:22	10	0.139
20	8.86	42.26391	71.37254	1/16/10	12:26	72	3/13/10	12:26	9.7	0.135
21	9.42	42.26304	71.37934	1/16/10	12:20	42	3/13/10	12:32	8	0.190
22	13.17	42.25767	71.4244	3/27/10	9:56	22	3/26/10	11:34	3	0.136
23	15.60	42.25328	71.45325	4/6/10	15:04	12.5	4/6/10	11:22	2.4	0.192
24	15.94	42.2527	71.45742	4/6/10	15:11	12.6	4/6/10	11:16	2	0.159
25	16.38	42.25203	71.46263	4/6/10	15:19	10	4/6/10	11:11	1.1	0.110

Average Ratio: 0.162

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