

TECHNICAL EXHIBIT
SUPPORTING A REQUEST FOR
SPECIAL TEMPORARY AUTHORITY (STA) FOR
-14 dBc (4%) DIGITAL POWER FOR
STATION WMHT-FM (FACILITY ID 73266)
SCHENECTADY, NEW YORK
CH 206B 6.1 KW 361 M

Technical Narrative

This technical statement was prepared on behalf of WMHT Educational Telecommunications, licensee of station WMHT-FM, Schenectady, New York, in support of a request for Special Temporary Authority (STA). The STA request is to permit –14 dBc (4% authorized analog power) digital IBOC emissions pursuant to the recent FCC *Order* in MM Docket No. 99-325, released: January 29, 2010.

- The applicant requests STA for –14 dBc (4% analog¹) pursuant to the procedures outlined in the FCC *Order*.

- The technical contact information for WMHT-FM is as follows:
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 - Chief Engineer, WMHT-FM/TV
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- Low-Level/Common Amplification Mode will be used for the proposed IBOC operation.

¹ Authorized analog power of 6.1 kW, per BMPED-20100114AAV

- The analog transmitter power output for WMHT-FM will be 4.5 kW. The proposed digital transmitter power output will be 0.179 kW (179 Watts). The analog and digital operations will use common transmission line and antenna.

	Analog	Digital
Common Transmitter Power Output	4.5 kW (6.5 dBk)	0.179 kW (-7.45 dBk)
Transmission Line loss: 470 feet of 2-1/4" line	84.2% (0.75 dB)	84.2% (0.75 dB)
Antenna gain Shively 6810-5R-SS-PS	1.62 (2.1 dB)	1.62 (2.1 dB)
Effective Radiated Power	6.1 kW (7.85 dBk)	0.244 kW (-6.1 dBk)

- The applicant certifies that, with exception of the digital power requested, the proposed digital operation will comply with the technical specifications set forth in Appendix B of the *First Report and Order* in MM Docket No. 99-325.



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