

ENGINEERING STATEMENT
APPLICATION FOR LICENSE MODIFICATION
CORRECTION OF TRANSMITTER COORDINATES
FCC FILE NO. BLCDT-20040305AAI
ON BEHALF OF
WATE, G.P
WATE-DT, KNOXVILLE, TENNESSEE

NOVEMBER 2004

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CONSULTING ENGINEERS
RADIO AND TELEVISION
WASHINGTON, D.C.

This engineering statement has been prepared on behalf of WATE, G.P., licensee of WATE-DT, Knoxville, Tennessee and accompanies the request to modify the licensed facilities for digital television ("DTV") operation (FCC File No. BLCDDT-20040305AAI) by correcting:

- (1) the transmitter coordinates and
- (2) the radiation center above ground level and the radiation center above mean sea level.

There are no other corrections. No physical alterations will be made to the current operation of WATE-DT in this request.

This information was submitted to the FCC in letter form on October 1, 2004, in accordance with the *Second Periodic Review* in MB Docket No. 03-15, Paragraph 34. Subsequently, the FCC staff informally requested this information be submitted on FCC Form 302.

WATE-DT is authorized to operate with a maximum effective radiated power of 930 kW at a HAAT of 529.2 meters. The authorized height of radiation center above mean sea level for WATE-DT is 839.7 meters.

There is no change in the existing antenna site. WATE-TV proposes to correct the transmitter coordinates in accordance with WT Docket 95-5 to correspond with the associated antenna structure registration (1052156). The antenna structure with registration 1052156 has an elevation of site above mean sea level of 424.4 meters.

The licensed geographic coordinates (as listed in the FCC CDBS) are:

North Latitude: 36° 00' 13"

West Longitude: 83° 56' 35"

(NAD-27)

The corrected geographic coordinates of the existing tower are as follows:

North Latitude: 36° 00' 13"

West Longitude: 83° 56' 34"

(NAD-27)

The request to correct the RCAMSL and RCAGL arise from a new site survey performed by SpectraSite, the owner of the tower. SpectraSite intends to update the corrected site information for the tower (1014519) in the Antenna Structure Registration database.

It is requested to correct the RCAGL from 412 meters to 415.7 meters and to correct the RCAMSL from 839.7 meters to 840.0 meters. These corrections conform to 73.1690(c) of the Rules, as the radiation center height above mean sea level will be increased by only 0.3 meters from the value authorized in the current license for WATE-DT.

Section III - Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel _____			
2. Operating Constants			
Transmitter power output (average power at input to transmission line, after any filter attached to the transmitter, if used)			Transmission line power loss
kW		dBk	dB
Antenna Input power	Maximum antenna power gain	Effective radiated power (average power)	
dBk	dB	kW	dBk
3. Antenna Data			
Manufacturer		Model	

NOTE: In addition to the information called for in the Certification Checklist, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

4. **Main Studio Location.** The main studio location complies with 47 C.F.R. Section 73.1125. Yes No See Explanation in Exhibit No.
5. **Constructed Facility.** The facility was constructed as authorized in the underlying construction permit or complies with 47 C.F.R. Section 73.1690. Yes No See Explanation in Exhibit No.
6. **Special Operating Conditions.** The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit. Yes No See Explanation in Exhibit No.
- Exhibit No.
- An exhibit may be required.** Review the underlying construction permit.
7. **Transmitter.** The transmitter complies with 47 C.F.R. Section 73.1660. Yes No See Explanation in Exhibit No.

PREPARER'S CERTIFICATION ON PAGE 6 MUST BE COMPLETED AND SIGNED.

APPLICATION FILED PURSUANT TO 47 C.F.R. SECTIONS 73.1675(c) or 73.1690(c).

Only applicants filing this application pursuant to 47 C.F.R. Sections 73.1675(c) or 73.1690(c) must complete the following

8. **Changing transmitter power output.** Is this application being filed to authorize a change in transmitter power output caused by the replacement of an omnidirectional antenna with another omnidirectional antenna or an alteration of the transmission line system? See 47 C.F.R. Sections 73.1690(c)(1) and (c)(10). Yes No

9. **Replacing a directional antenna.** Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(3) to replace a directional antenna with another directional antenna? Yes No

If "Yes" to the above, the applicant certifies the following:

a. **Pattern of Directional Antenna.** The proposed theoretical antenna pattern complies with 47 C.F.R. Section 73.1690(c)(3). **Exhibit is required.** Yes No See Explanation in Exhibit No.
Exhibit No.

10. **Use a formerly licensed main facility as an auxiliary facility.** Is this application being filed pursuant to 47 C.F.R. Section 73.1675(c)(1) to request authorization to use a formerly licensed main facility as an auxiliary facility and/or change the ERP of the proposed auxiliary facility? Yes No

If "Yes" to the above, the applicant certifies the following:

a. **Auxiliary antenna service area.** The proposed auxiliary facility complies with 47 C.F.R. Section 73.1675(a). **Exhibit is required.** Yes No See Explanation in Exhibit No.

b. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (*i.e.*, the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Yes No See Explanation in Exhibit No.

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

11. **Change the license status.** Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(9) to change the license status from commercial to noncommercial or from noncommercial to commercial? Yes No

Exhibit No.

If "Yes" to the above, submit an exhibit providing full particulars. For applications changing license status from commercial to noncommercial, include Section II of FCC Form 340 as an exhibit to this application.

PREPARER'S CERTIFICATION ON PAGE 6 MUST BE COMPLETED AND SIGNED.

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name		Relationship to Applicant (e.g., Consulting Engineer)	
Signature		Date	
Mailing Address			
City		State or Country (if foreign address)	ZIP Code
Telephone Number (include area code)		E-Mail Address (if available)	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).