

DOW, LOHNES & ALBERTSON, PLLC
ATTORNEYS AT LAW

STAMP & RETURN

M. ANNE SWANSON
DIRECT DIAL 202-776-2534
aswanson@dowlohn.com

WASHINGTON, D.C.
1200 NEW HAMPSHIRE AVENUE, N.W. • SUITE 800 • WASHINGTON, D.C. 20036-6802
TELEPHONE 202-776-2000 • FACSIMILE 202-776-4458
www.dowlohn.com

ONE RAVINIA DRIVE • SUITE 1600
ATLANTA, GEORGIA 30346-2108
TELEPHONE 770-901-8800
FACSIMILE 770-901-8874

October 17, 2003

VIA COURIER

Federal Communications Commission
Media Bureau
P.O. Box 358165
Pittsburgh, Pennsylvania 15251-5165

FCC/MELLON

OCT 17 2003

Re: WBBJ-DT, Jackson, Tennessee
Facility Identification Number 65204
**REQUEST FOR SPECIAL TEMPORARY AUTHORITY
TO OPERATE LOW POWER DIGITAL TELEVISION STATION**

Dear Sir or Madam:

On behalf of Tennessee Broadcasting Partners ("Tennessee Broadcasting"), permittee of the above-referenced digital television station, and pursuant to Section 73.1635 of the Commission's rules and its *Memorandum Opinion and Order on Reconsideration* in MM Docket No. 00-39 ("*Reconsideration Order*"),¹ we hereby respectfully request Special Temporary Authority ("STA") for Tennessee Broadcasting to construct and operate DTV facilities with parameters at variance from the station's construction permit.²

In the *Reconsideration Order*, the Commission stated that it would consider stations in satisfaction of their DTV construction requirements if they placed "low power" facilities into operation pursuant to STA.³ Accordingly, Tennessee Broadcasting is seeking an STA to operate such facilities as outlined in the enclosed Attachment A, which also provides the required certifications. Attachment B provides the Technical Exhibit describing the proposed "low power" facilities in detail. As described in the Technical Exhibit, the proposed service area encompasses the community of license as required,⁴ and the proposed parameters conform with the Commission's *de minimis* interference standard.⁵ As also described in the Technical Exhibit,

¹ Review of the Commission's Rules and Policies Affecting the Conversion To Digital Television, *Memorandum Opinion and Order on Reconsideration*, MM Docket No. 00-39, 16 FCC Rcd 20594 (2001).

² FCC File No. BPCDT-19991013ABH.

³ *Reconsideration Order*, ¶¶ 34-36.

⁴ See 47 C.F.R. §73.623(c)(1).

⁵ See 47 C.F.R. §73.623(c)(2).

Federal Communications Commission
October 17, 2003
Page 2

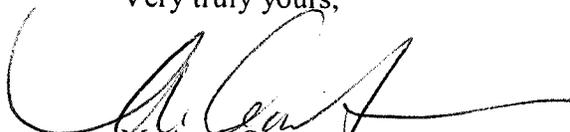
the service area proposed in this STA is encompassed by that authorized in the station's construction permit.

A grant of the STA would serve the public interest by facilitating the provision of digital service to the station's community of license. In the unlikely event that unacceptable interference is caused, Tennessee Broadcasting is willing to take all reasonable steps to eliminate such prohibited interference, including modifying operating parameters or ceasing operation, if necessary. Tennessee Broadcasting understands that grant of STA does not provide any permanent authority to operate the station in the manner proposed.

This request is accompanied by the requisite filing fee of \$145.00 and a FCC Form 159 completed to show the fee code of "MGT."

Please contact me if you have any questions about this matter.

Very truly yours,



M. Anne Swanson

Enclosures

cc (w/encl.): Mr. John Morgan (Date-stamped Copy) (via email)

ATTACHMENT B
TECHNICAL EXHIBIT

WBBJ-DT, Jackson, Tennessee, STA

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing	Typed or Printed Title of Person Signing
Signature	Date

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).

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 Robert G. Mallery		Relationship to Applicant (e.g., Consulting Engineer) Technical Consultant	
Signature <i>Robert G Mallery</i>		Date 10/13/2003	
Mailing Address Denny & Associates, P.C., 6444 Bock Road			
City Oxon Hill	State or Country (if foreign address) MD		ZIP Code 20745-3001
Telephone Number (include area code) (301) 686-1803		E-Mail Address (if available) Rmallery@ denny.com	

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).

WBBJ-DT, Jackson, Tennessee, STA

SECTION III-D - DTV Engineering

Complete Questions 1-5 of the Certification Checklist and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.

Certification Checklist: A correct answer of "Yes" to all of the questions below will ensure an expeditious grant of a construction permit. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.

1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:

- (a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622. Yes No
- (b) It will operate from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622. Yes No
- (c) It will operate with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622. Yes No

2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Yes No

Applicant must **submit the Exhibit** called for in Item 13.

3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community. Yes No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable. Yes No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require reregistration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7. Yes No

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 Number: DTV 43 Analog TV, if any 7

2. Zone: I II III

3. Antenna Location Coordinates: (NAD 27)

35 ° 38 ' 32 " N S Latitude
88 ° 48 ' 28 " E W Longitude

4. Antenna Structure Registration Number: 1062329

Not applicable FAA Notification Filed with FAA

5. Antenna Location Site Elevation Above Mean Sea Level: 159 meters

6. Overall Tower Height Above Ground Level: 151 meters

7. Height of Radiation Center Above Ground Level: 149 meters

8. Height of Radiation Center Above Average Terrain: 177 meters

9. Maximum Effective Radiated Power (average power): 4.22 kW

10. Antenna Specifications:

Manufacturer	Model
Dielectric Communications	TLP-8A

b. Electrical Beam Tilt: 1.0 degrees Not Applicable

c. Mechanical Beam Tilt: _____ degrees toward azimuth _____ degrees True Not Applicable

Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).

Exhibit No.

d. Polarization: Horizontal Circular Elliptical

TECH BOX

e. Directional Antenna Relative Field Values: Not applicable (Nondirectional)
 Rotation: _____ ° No rotation

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0		60		120		180		240		300	
10		70		130		190		250		310	
20		80		140		200		260		320	
30		90		150		210		270		330	
40		100		160		220		280		340	
50		110		170		230		290		350	
Additional Azimuths											

If a directional antenna is proposed, the requirements of 47 C.F.R. Section 73.625(c) must be satisfied. **Exhibit required.**

Exhibit No.
40

11. Does the proposed facility satisfy the interference protection provisions of 47 C.F.R. Section 73.623(a)? (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered "No.") Yes No

If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.

Exhibit No.

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefor. (Applicable only if **Certification Checklist** Item 3 is answered "No.")

Exhibit No.
Not Applicable

13. **Environmental Protection Act. Submit in an Exhibit** the following:

Exhibit No.
Eng Stmt

a. If **Certification Checklist** Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.

By checking "Yes" to **Certification Checklist** Item 2, 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.

If **Certification Checklist** Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R. Section 1.1311.

PREPARER'S CERTIFICATION IN SECTION III MUST BE COMPLETED AND SIGNED.

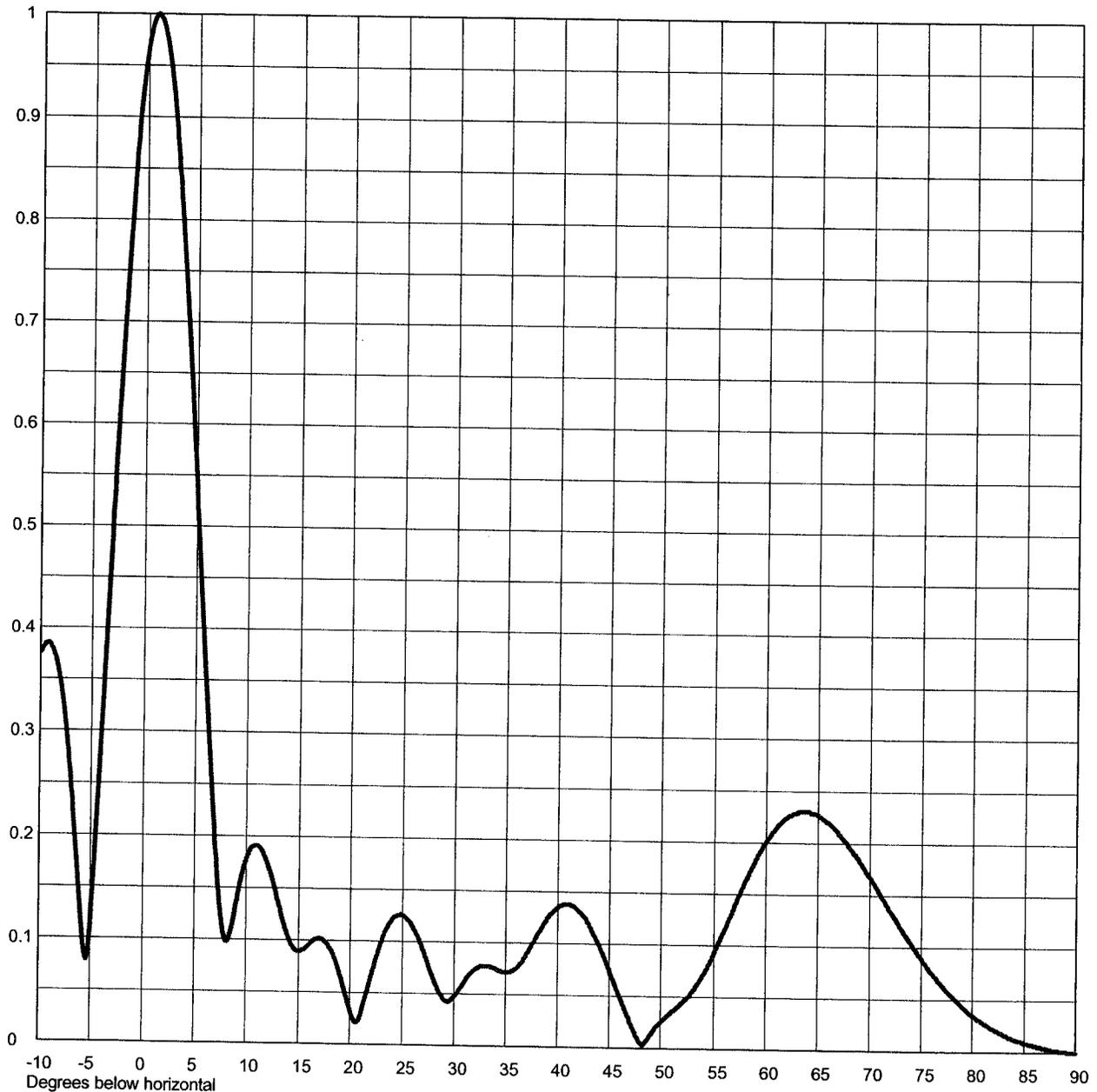


Exhibit No.
40, Pg 1

Date	22 Aug 2003
Call Letters	WBBJ-DT Channel 43
Location	Jackson, TN
Customer	Tennessee Broadcasting Partners
Antenna Type	TLP-8A

ELEVATION PATTERN

RMS Gain at Main Lobe	8 (9.03 dB)	Beam Tilt	1.00 Degrees
RMS Gain at Horizontal	7.5 (8.75 dB)	Frequency	647.00 MHz
Calculated / Measured	Calculated	Drawing #	08L08010-90-90



Remarks: Denny & Associates, P.C.

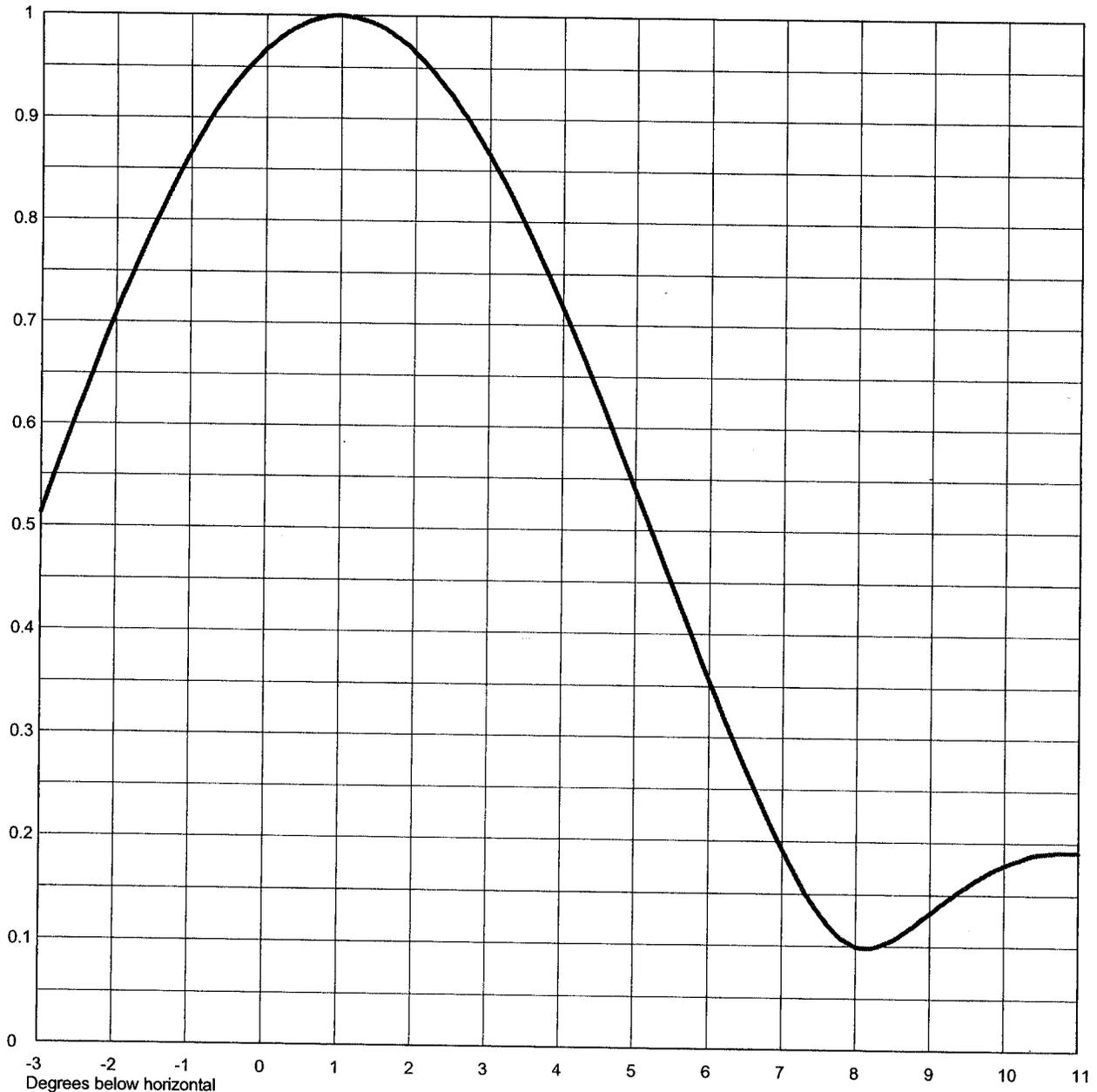


Exhibit No.
40, Pg 2

Date **22 Aug 2003**
Call Letters **WBBJ-DT** Channel **43**
Location **Jackson, TN**
Customer **Tennessee Broadcasting Partners**
Antenna Type **TLP-8A**

ELEVATION PATTERN

RMS Gain at Main Lobe	8 (9.03 dB)	Beam Tilt	1.00 Degrees
RMS Gain at Horizontal	7.5 (8.75 dB)	Frequency	647.00 MHz
Calculated / Measured	Calculated	Drawing #	08L08010-90



Remarks: **Denny & Associates, P.C.**



Date **22 Aug 2003**
 Call Letters **WBBJ-DT** Channel **43**
 Location **Jackson, TN**
 Customer **Tennessee Broadcasting Partners**
 Antenna Type **TLP-8A**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **08L08010-90-90**

Angle	Field										
-10.0	0.374	2.4	0.931	10.6	0.190	30.5	0.054	51.0	0.035	71.5	0.143
-9.5	0.384	2.6	0.911	10.8	0.191	31.0	0.062	51.5	0.039	72.0	0.135
-9.0	0.383	2.8	0.889	11.0	0.191	31.5	0.069	52.0	0.044	72.5	0.127
-8.5	0.371	3.0	0.865	11.5	0.186	32.0	0.074	52.5	0.049	73.0	0.119
-8.0	0.346	3.2	0.839	12.0	0.174	32.5	0.077	53.0	0.055	73.5	0.111
-7.5	0.308	3.4	0.811	12.5	0.157	33.0	0.077	53.5	0.063	74.0	0.104
-7.0	0.258	3.6	0.781	13.0	0.137	33.5	0.077	54.0	0.071	74.5	0.096
-6.5	0.197	3.8	0.750	13.5	0.118	34.0	0.075	54.5	0.081	75.0	0.089
-6.0	0.130	4.0	0.717	14.0	0.102	34.5	0.073	55.0	0.092	75.5	0.082
-5.5	0.081	4.2	0.683	14.5	0.092	35.0	0.072	55.5	0.103	76.0	0.076
-5.0	0.114	4.4	0.648	15.0	0.089	35.5	0.072	56.0	0.115	76.5	0.070
-4.5	0.201	4.6	0.613	15.5	0.091	36.0	0.075	56.5	0.127	77.0	0.064
-4.0	0.303	4.8	0.576	16.0	0.096	36.5	0.081	57.0	0.139	77.5	0.058
-3.5	0.408	5.0	0.539	16.5	0.100	37.0	0.089	57.5	0.150	78.0	0.053
-3.0	0.513	5.2	0.502	17.0	0.102	37.5	0.098	58.0	0.162	78.5	0.048
-2.8	0.555	5.4	0.465	17.5	0.099	38.0	0.107	58.5	0.173	79.0	0.043
-2.6	0.595	5.6	0.428	18.0	0.093	38.5	0.116	59.0	0.183	79.5	0.039
-2.4	0.634	5.8	0.392	18.5	0.082	39.0	0.124	59.5	0.192	80.0	0.035
-2.2	0.672	6.0	0.355	19.0	0.067	39.5	0.130	60.0	0.201	80.5	0.031
-2.0	0.709	6.2	0.320	19.5	0.050	40.0	0.135	60.5	0.208	81.0	0.028
-1.8	0.744	6.4	0.286	20.0	0.032	40.5	0.138	61.0	0.215	81.5	0.025
-1.6	0.778	6.6	0.253	20.5	0.021	41.0	0.138	61.5	0.220	82.0	0.022
-1.4	0.809	6.8	0.221	21.0	0.029	41.5	0.136	62.0	0.224	82.5	0.019
-1.2	0.839	7.0	0.192	21.5	0.047	42.0	0.132	62.5	0.227	83.0	0.017
-1.0	0.866	7.2	0.165	22.0	0.067	42.5	0.126	63.0	0.229	83.5	0.014
-0.8	0.891	7.4	0.141	22.5	0.085	43.0	0.119	63.5	0.230	84.0	0.012
-0.6	0.914	7.6	0.122	23.0	0.100	43.5	0.109	64.0	0.230	84.5	0.011
-0.4	0.934	7.8	0.107	23.5	0.112	44.0	0.099	64.5	0.229	85.0	0.009
-0.2	0.952	8.0	0.099	24.0	0.121	44.5	0.087	65.0	0.227	85.5	0.007
0.0	0.967	8.2	0.098	24.5	0.125	45.0	0.075	65.5	0.223	86.0	0.006
0.2	0.979	8.4	0.103	25.0	0.125	45.5	0.062	66.0	0.220	86.5	0.005
0.4	0.988	8.6	0.111	25.5	0.121	46.0	0.050	66.5	0.215	87.0	0.004
0.6	0.995	8.8	0.121	26.0	0.114	46.5	0.037	67.0	0.209	87.5	0.003
0.8	0.999	9.0	0.132	26.5	0.104	47.0	0.025	67.5	0.203	88.0	0.002
1.0	1.000	9.2	0.143	27.0	0.092	47.5	0.015	68.0	0.197	88.5	0.001
1.2	0.998	9.4	0.154	27.5	0.078	48.0	0.005	68.5	0.190	89.0	0.001
1.4	0.994	9.6	0.163	28.0	0.064	48.5	0.006	69.0	0.183	89.5	0.000
1.6	0.987	9.8	0.171	28.5	0.052	49.0	0.013	69.5	0.175	90.0	0.000
1.8	0.977	10.0	0.178	29.0	0.044	49.5	0.020	70.0	0.167		
2.0	0.964	10.2	0.183	29.5	0.042	50.0	0.025	70.5	0.159		
2.2	0.949	10.4	0.188	30.0	0.047	50.5	0.030	71.0	0.151		

Remarks: **Denny & Associates, P.C.**

DENNY & ASSOCIATES, P.C.
CONSULTING ENGINEERS
OXON HILL, MARYLAND

**ENGINEERING STATEMENT
IN SUPPORT OF A REQUEST FOR
SPECIAL TEMPORARY AUTHORIZATION
TENNESSEE BROADCASTING PARTNERS
STATION WBBJ-DT
JACKSON, TENNESSEE
CH 43 4.22 KW (MAX-BT) 177 METERS**

Tennessee Broadcasting Partners (TBP) requests Special Temporary Authorization (STA) to operate the digital television (DTV) facilities of WBBJ-DT, channel 43 (644-650 megahertz (MHz)), Jackson, Tennessee, from an supporting structure located at geographic coordinates 35° 38' 32" North Latitude, 88° 48' 28" West Longitude, referenced to 1927 North American Datum, using a nondirectional horizontally polarized antenna, 4.22 kilowatts (kW) average effective radiated power (ERP), and 177 meters antenna radiation center height above average terrain (HAAT). The proposed WBBJ-DT antenna radiation center is 149 meters above ground level (AGL).

WBBJ-DT is authorized (FCC File Number BPCDT-19991013ABH) digital television operation on channel 43 with average ERP of 920 kW and 303 meters antenna radiation center HAAT at a site identified by the geographic coordinates

DENNY & ASSOCIATES, P.C.
CONSULTING ENGINEERS
OXON HILL, MARYLAND

Engineering Statement
Station WBBJ-DT, Jackson, Tennessee

Page 2

35° 38' 16" North Latitude, 88° 41' 33" West Longitude. The instant application site is located approximately 10.5 kilometers west of the authorized site.

The FCC Antenna Structure Registration Number for the WBBJ-DT supporting structure proposed for use herein is 1062329. This structure is located at the WBBJ-TV, Jackson, Tennessee, studio. No changes are proposed to the overall height of the WBBJ-DT supporting structure and therefore notification of the Federal Aviation Administration is not required.

The proposed WBBJ-DT STA facilities will comply with the FCC rules and the provisions outlined in the *Memorandum Opinion and Order on Reconsideration* in Mass Media Docket 00-39. In this regard, the facilities proposed in this STA request will not result in coverage exceeding that authorized by the WBBJ-DT construction permit in any direction. Additionally, the proposed facilities are predicted to provide principal community (48 dBu F(50,90)) DTV signal strength to all of Jackson, Tennessee, the WBBJ-DT community of license, based upon the prediction methodology contained in Section 73.625(b) of the FCC rules.

DENNY & ASSOCIATES, P.C.
CONSULTING ENGINEERS
OXON HILL, MARYLAND

Engineering Statement
Station WBBJ-DT, Jackson, Tennessee

Page 3

An analysis has been made of the human exposure to radiofrequency radiation (RFR) using the calculation methodology described in *OET Bulletin 65, Edition 97-01*, prepared by the FCC Office of Engineering and Technology. A conservative vertical plane relative field factor of 0.23, obtained from the manufacturer's theoretical vertical plane radiation pattern for the Dielectric Communications, type TLP-8A, transmitting antenna to be used, and the proposed average ERP of 4.22 kW were used in the calculation of the WBBJ-DT power density. To account for ground reflections, a coefficient of 1.6 was included in the calculations. The WBBJ-DT power density calculations reported herein were made at 644 MHz, the lower edge of channel 43.

The FCC maximum permissible exposure (MPE) for general population/uncontrolled exposure is 0.429 milliwatt-per-square-centimeter (mW/cm^2) at 644 MHz. The FCC MPE limit for occupational/controlled exposure is 2.15 mW/cm^2 at 644 MHz. At a reference point two meters AGL at the base of the WBBJ-DT supporting structure, the calculated WBBJ-DT power density is 0.00035 mW/cm^2 , which is 0.08 percent of the FCC MPE limit for general population/uncontrolled exposure, and 0.02 percent of the FCC MPE limit for occupational/controlled exposure.

DENNY & ASSOCIATES, P.C.
CONSULTING ENGINEERS
OXON HILL, MARYLAND

Engineering Statement
Station WBBJ-DT, Jackson, Tennessee

Page 4

Pursuant to the provisions of *OET Bulletin 65, edition 97-01*, at multiple-user sites, only those licensees whose transmitters produce power density levels in excess of 5.0 percent of the applicable exposure limit are considered "significant contributors" and share responsibility for actions necessary to bring the local RFR environment into compliance with FCC exposure limits. Since the proposed WBBJ-DT operation will contribute less than 5.0 percent of the most restrictive permissible exposure at any location on the ground at the site, WBBJ-DT is not considered a "significant contributor" to the local RF exposure environment and contributions to exposure from other sources in the vicinity of WBBJ-DT were not taken into account in this analysis.

While not a significant contributor to the exposure levels at any location on the ground, the WBBJ-DT operation will be a significant contributor to exposure at locations on the supporting structure near the WBBJ-DT transmitting antenna. If work is done on the tower in an area where overexposure could occur, TBP will take action necessary to prevent the overexposure of workers on the tower, including reducing WBBJ-DT transmitter power or ceasing WBBJ-DT operation completely. Additionally, TBP will cooperate with other site users to assure that work is

DENNY & ASSOCIATES, P.C.
CONSULTING ENGINEERS
OXON HILL, MARYLAND

Engineering Statement
Station WBBJ-DT, Jackson, Tennessee

Page 5

performed at the site without exceeding the FCC MPEs for occupational/controlled exposure.

The instant proposal is categorically excluded from environmental processing since none of the conditions of Sections 1.1306(b)(1), (2), or (3) of the FCC Rules would be involved for the following reasons:

1. The WBBJ-DT channel 43 DTV facility utilizes an existing supporting structure which is not in or near any location referenced in Section 1.1306(b)(1) of the FCC Rules as being of environmental interest.
2. The provision of Section 1.1306(b)(2) of the FCC Rules relating to the use of high-intensity strobe lighting does not apply since WBBJ-DT proposes to use an existing supporting structure and no change in the existing obstruction lighting is proposed.
3. Finally, with regard to RFR exposure concerns, compliance with applicable FCC MPE limits would be achieved.

DENNY & ASSOCIATES, P.C.
CONSULTING ENGINEERS
OXON HILL, MARYLAND

Engineering Statement
Station WBBJ-DT, Jackson, Tennessee

Page 6

CERTIFICATION

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge. Executed on October 13, 2003.



Robert G. Mallery