

RF HAZARD STATEMENT
APPLICATION FOR CONSTRUCTION PERMIT
TV STATION WDBD
JACKSON, MISSISSIPPI
CHANNEL 14 555 KW (DA) 598 m

With respect to the potential for human exposure to radio frequency (RF) energy, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF energy at ground level in excess of FCC standards. Power density calculations were conducted at 2-m above ground¹ based on the following conservative assumptions, with the following results:

Call Sign	Channel	Total ERP (kW) ²	Distance (m)	Relative Field Factor ³	FCC Limit ⁴ (uW/cm ²)	Percentage of Limit
WDBD	14	722	563	0.1	315.3	0.24%

As indicated above, the exposure to RF energy at 2-m above ground level will not exceed 0.24% of the FCC limit for general population / uncontrolled exposure.

Therefore, the proposal complies with the FCC limits for human exposure to RF energy and it is categorically excluded from environmental processing.

Public access to the transmitting site is restricted and appropriately marked with RFR warning signs. Furthermore, a protocol will be in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures are taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing “accepted” RFR protective clothing and/or RFR exposure.

¹ The radiation center is located 565 m above ground level.

² Horizontally polarized ERP 555 kW, Vertically polarized ERP 167 kW.

³ This is a conservative assumption for the maximum relative field at steep downward angles. See attached vertical relative field pattern.

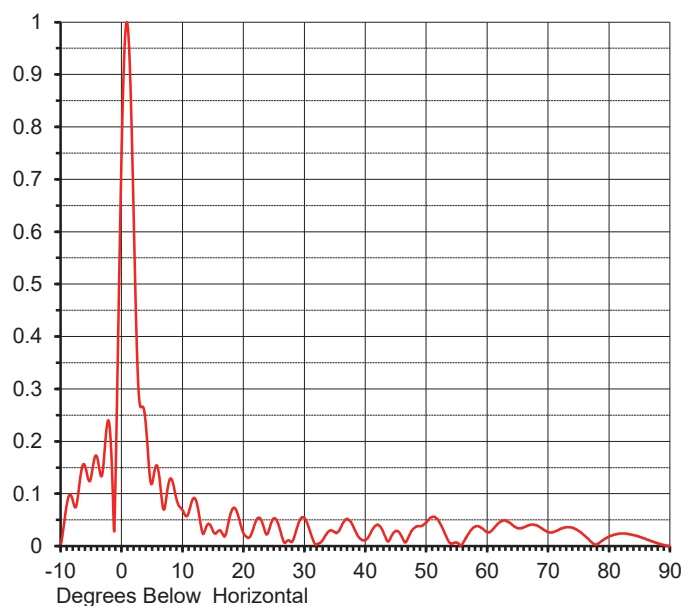
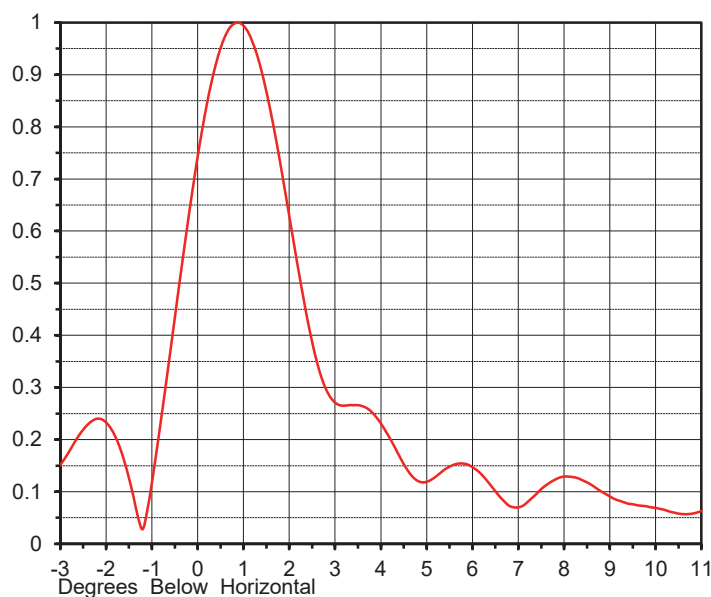
⁴ For general population/uncontrolled environments

ELEVATION PATTERN

Proposal No. **C-70607**
 Date **28-Mar-17**
 Call Letters **WDBD**
 Channel **14**
 Frequency **473 MHz**
 Antenna Type **TFU-28JSC/VP-R 3T180**

RMS Directivity at Main Lobe **26.5 (14.23 dB)**
 RMS Directivity at Horizontal **16.7 (12.23 dB)**
Calculated

Beam Tilt **0.75 deg**
 Pattern Number **28Z265075**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.005	10.0	0.067	30.0	0.053	50.0	0.046	70.0	0.027
-9.0	0.084	11.0	0.067	31.0	0.023	51.0	0.056	71.0	0.028
-8.0	0.083	12.0	0.090	32.0	0.004	52.0	0.047	72.0	0.033
-7.0	0.119	13.0	0.035	33.0	0.013	53.0	0.023	73.0	0.036
-6.0	0.150	14.0	0.041	34.0	0.029	54.0	0.004	74.0	0.035
-5.0	0.137	15.0	0.027	35.0	0.026	55.0	0.006	75.0	0.028
-4.0	0.165	16.0	0.030	36.0	0.038	56.0	0.007	76.0	0.019
-3.0	0.164	17.0	0.022	37.0	0.052	57.0	0.026	77.0	0.008
-2.0	0.222	18.0	0.068	38.0	0.036	58.0	0.038	78.0	0.004
-1.0	0.176	19.0	0.060	39.0	0.015	59.0	0.035	79.0	0.012
0.0	0.795	20.0	0.023	40.0	0.012	60.0	0.026	80.0	0.019
1.0	0.982	21.0	0.018	41.0	0.030	61.0	0.034	81.0	0.022
2.0	0.577	22.0	0.049	42.0	0.041	62.0	0.046	82.0	0.024
3.0	0.266	23.0	0.045	43.0	0.023	63.0	0.048	83.0	0.023
4.0	0.217	24.0	0.027	44.0	0.014	64.0	0.041	84.0	0.021
5.0	0.123	25.0	0.053	45.0	0.029	65.0	0.034	85.0	0.017
6.0	0.141	26.0	0.028	46.0	0.016	66.0	0.036	86.0	0.013
7.0	0.073	27.0	0.009	47.0	0.017	67.0	0.041	87.0	0.009
8.0	0.129	28.0	0.010	48.0	0.035	68.0	0.040	88.0	0.005
9.0	0.086	29.0	0.045	49.0	0.038	69.0	0.033	89.0	0.002
								90.0	0.000

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