



1671 W. Sunrise Blvd.
Ste.110
Sunrise, FL 33323

MODIFICATION – LMS#000004410

Facility ID: 188824

WQEO-LD Ch.49 Jackson, TN

Date: 08-Dec-2017 Rev: 01

1 Scope

Applicant submits this application pursuant to the terms of the Consent Decree entered into between DTV America Corporation and the FCC's Media Bureau. *See DTV America Corp., et al.*, Consent Decree, DA 17-1058 (rel. Oct. 31, 2017). The reference coordinates and operational parameters in this application are based on the coordinates and parameters included in the corresponding application listed in Appendix E to the Consent Decree. *See id.* at App. E. Where necessary, Applicant has made minor adjustments to the originally defined parameters to avoid interference to primary broadcast facilities or to account for site-availability issues. *See id.* ¶ 24. Deviations from the originally defined parameters comply with Part 74 of the Commission's rules and the terms of the Consent Decree. *Id.*

DTV America would like to propose to modify this facility and collocate it with on air facilities WQEK-LD and KPMF-LD at ASR1057943.

2 Authorization Containing Station's Modified Terms and Coordinates

Permit File Number: 000004410

Station Location: Jackson, TN

Frequency (MHz): 680-686

Channel: 49

Antenna Type: Directional – DIE TUA-P2-0641 Rotation: 60°

Coordinates (NAD83): Latitude 35° 17' 32.0" N Longitude 089° 36' 38.0" W

Maximum ERP: 3.0 kW

Radiation Center AGL: 17.08 m

Radiation Center AMSL: 102.08 m

Antenna Structure Reg No: N/A

3 Proposed Facility

Antenna Structure Reg No: 1057943

Coordinates (NAD83): Latitude 35° 16' 33.0" N Longitude 089° 46' 38.0" W

Distance from Permit: 9.5 miles

Radiation Center AGL: 120.0 m

Radiation Center AMSL: 196.2 m



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Antenna Type: Non-Directional - TUA-O4-06/24-M-T Rotation: N/A

Maximum ERP: 2.0 kW

4 TV Study Interference Check

Study created: 2017.12.08 12:14:37

Study build station data: LMS TV 2017-12-04 (16)

Proposal: WQEO-MOD D49 LD LIC MEMPHIS, TN
File number: WQEO-MOD_ASR1057943
Facility ID: 188824
Station data: User record
Record ID: 72
Country: U.S.

Build options:

Protect records not on baseline channel

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KVTJ-DT	D48	DT	LIC	JONESBORO, AR	BLC DT20090209ANG	76.7 km
WEPH	D49	DT	LIC	TUPELO, MS	BLC DT20110308AAO	176.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D49
Mask: Full Service
Latitude: 35 16 33.00 N (NAD83)
Longitude: 89 46 38.00 W
Height AMSL: 196.2 m
HAAT: 0.0 m
Peak ERP: 2.00 kW
Antenna: Omnidirectional
Elev Pattn: Generic

51.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.00 kW	92.0 m	30.6 km
45.0	2.00	97.0	31.2
90.0	2.00	101.6	31.7
135.0	2.00	87.3	30.0
180.0	2.00	88.6	30.2
225.0	2.00	109.7	32.5
270.0	2.00	125.6	33.7
315.0	2.00	108.5	32.4



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Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 101 m

Distance to Canadian border: 935.3 km

Distance to Mexican border: 1232.4 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 107.3 degrees Distance: 488.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 296.2 degrees Distance: 1458.9 km

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

**IX check failure, 1.43% interference to BLCDDT20090209ANG LIC, scenario 1.

NOTE:

KVTJ-DT (BLCDDT20090209ANG) has been reassigned to Ch.18, Construction Phase 1.



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