

MODIFICATION – LMS#000007006	Facility ID: 188749
WLEH-LD Ch. 48 St. Louis, MO	Date: 08-Dec-2017 Rev:

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.*

Due to lack of viable structures within the immediate vicinity of the facility listed under Appendix E of the Decree, DTV America proposes an alternate tower ASR1008634.

2 Authorization Containing Station's Modified Terms and Coordinates

Permit File Number: 0000007006

Station Location: St. Louis, MO

Frequency (MHz): 674-680

Channel: 48

Antenna Type: Directional – DIE TUA-P2-0641 Rotation: 280°

Coordinates (NAD83): Latitude 38° 29′ 23.0″ N Longitude 089° 47′ 18.0″ W

Maximum ERP: 6.0 kW

Radiation Center AGL: 17.4 m

Radiation Center AMSL: 165.60 m

Antenna Structure Reg No: N/A

3 Proposed Facility

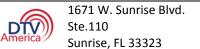
Antenna Structure Reg No: 1008634

Coordinates (NAD83): Latitude 38° 21′ 53.6″ N Longitude 089° 53′ 23.5″ W

Distance from Permit: 10.2 miles

Radiation Center AGL: 92.05 m

Radiation Center AMSL: 238.9 m



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

Maximum ERP: 15.0 kW

4 TV Study Interference Check

Study created: 2017.12.01 13:14:08

Study build station data: LMS TV 2017-11-30 (15)

Proposal: WLEH-MOD D48 LD LIC Saint Louis, MO

File number: WLEH-ASR1008634

Facility ID: 188749

Station data: User record

Record ID: 57
Country: U.S.

Build options:

Protect records not on baseline channel

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WRBU	D47	DT	LIC	EAST ST. LOUIS, IL	BLCDT20020510ABC	52.2 km
KEFN-CD	D49z	DC	LIC	ST. LOUIS, MO	BLANK0000001621	47.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D48

Mask: Full Service

Latitude: 38 21 53.60 N (NAD83)

Longitude: 89 53 23.50 W

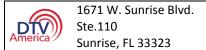
Height AMSL: 238.9 m HAAT: 0.0 m Peak ERP: 15.0 kW

Antenna: Omnidirectional

Elev Pattrn: Generic

51.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	88.6 m	40.4 km
45.0	15.0	107.2	42.6
90.0	15.0	116.1	43.4
135.0	15.0	103.5	42.2
180.0	15.0	117.1	43.5
225.0	15.0	108.6	42.7
270.0	15.0	98.1	41.6
315.0	15.0	95.2	41.2



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Database HAAT does not agree with computed HAAT Database HAAT: 0 m $\,$ Computed HAAT: 104 m $\,$

Distance to Canadian border: 697.8 km

Distance to Mexican border: 1424.6 km

Conditions at FCC monitoring station: Allegan ${\tt MI}$

Bearing: 33.9 degrees Distance: 576.7 km

Proposal is not within the West Virginia quiet zone area

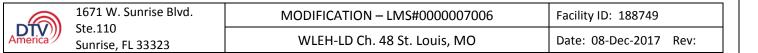
Conditions at Table Mountain receiving zone: Bearing: 283.2 degrees Distance: 1332.7 km

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%

No IX check failures found.



5 51dBu Contour

