

ENGINEERING STATEMENT
SUPPORTING REQUEST FOR WAIVER
TELEVISION STATION WAMI-DT
(FACILITY ID NO. 60536)
HOLLYWOOD, FLORIDA
CHANNEL 24

Background

This statement was prepared on behalf of Unimas Miami LLC, licensee of WAMI-DT, in support of a request for waiver of the FCC's Phase Assignment, Testing Period, and Phase Completion Date for television station WAMI-DT, Hollywood, Florida, in the Miami-Ft. Lauderdale DMA^{*}. WAMI-DT is licensed for operation on RF Channel 47 with a maximum directional effective radiated power (ERP) of 1000 kW and an antenna height above average terrain (HAAT) of 297 m.

As a result of the FCC's Incentive Auction repack process, the WAMI-DT facility was reassigned to RF Channel 24. WAMI-DT holds a construction permit for operation on Channel 24.[†] However, WAMI-DT intends to operate an early transition facility with an Interim facility under Special Temporary Authority (STA). A summary of the engineering specifications for the WAMI-DT Interim STA facility is attached hereto for reference.

In coordination with the wireless carrier, T-Mobile, WAMI-DT seeks a waiver of the FCC's Phase Assignment, Testing Period, and Phase Completion Date to allow WAMI-DT to make the transition to Channel 24 earlier than its given phase transition date. This will facilitate the early deployment of new 600 MHz band wireless broadband services.

This statement demonstrates that WAMI-DT can transition to Channel 24 before its assigned phase date without any disruption to the FCC's transition plans. Specifically, it is demonstrated that the Interim STA operation of WAMI-DT on Channel 24 will have

^{*} Nielsen Designated Market Area abbreviated as DMA.

[†] See FCC File No. 0000025092.

no adverse interference consequences, either caused or received, under the current repack allocation environment.

Assigned Phase

WAMI-DT was assigned to transition Phase 2, with a testing begin date of December 1, 2018. This is based on the latest FCC Phase Assignment spreadsheet dated October 6, 2017.

Linked Station Sets and Linked Station Neighbor Stations

An inspection of the latest FCC Linked Station Set (LSS) and Linked Station Neighbor (LSN) spreadsheet databases indicates that the WAMI-DT facility is not part of any LSSs or LSNs. These are based on the latest LSS and LSN spreadsheets available from the FCC, both dated July 3, 2017.

Interference Caused Analysis Under Current Allocation Environment

An interference analysis was conducted for the WAMI-DT Interim STA facility on Channel 24 utilizing the latest version[‡] of the FCC's *TVStudy* coverage and interference analysis prediction software. The report of the results is attached hereto entitled 'Interference Caused Analysis for WAMI-DT Channel 24 Interim STA Facility Under Current Allocation Environment.'

The results of the analysis indicate that there are no cases of outgoing (caused) interference exceeding the normal 0.5% rounding tolerance level to any other protected full-power or Class A television stations now operating.

Interference Received Analysis Under Current Allocation Environment

An interference analysis specifically for the 'received case' of interference was conducted for the WAMI-DT Interim STA facility on Channel 24 utilizing the aforementioned *TVStudy* prediction software. The report of the results is attached hereto entitled 'Interference Received Analysis for WAMI-DT Channel 24 Interim STA Facility

[‡] *TVStudy* Version 2.2.3

Under Current Allocation Environment.' The purpose of this study is to evaluate all current environment records in the received interference analysis.

The results of the analysis indicate that there are no cases of incoming (received) interference exceeding 0.5% to the WAMI-DT Channel 24 facility.

Effects on Linked Station Sets

Based on these results, the early transition of the WAMI-DT facility to Channel 24 in advance of its phase transition date will not create any pairwise interference cases or new linked station sets.

Conclusion

It is concluded that the early transition of the WAMI-DT to Channel 24 using its Interim STA facility will not result in any interference cases, either caused or received, that would result in the creation or alteration of any linked station sets established in the Incentive Auction repack process.



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October 26, 2017

DA Inquiry

du Treil, Lundin, & Rackley, Inc., Sarasota, Florida



Antenna ID: 98770

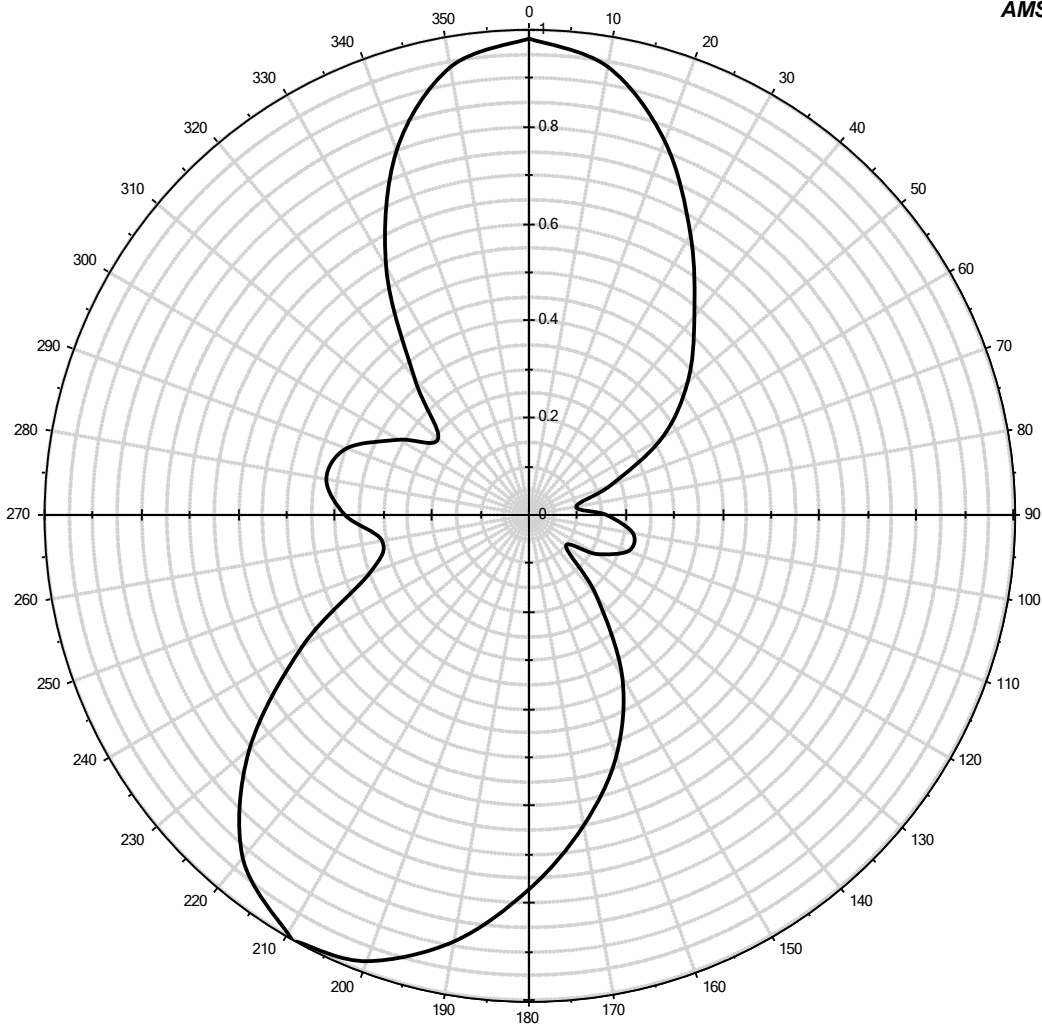
WAMI-DT INTERIM STA FACILITY

CHANNEL = 24

MAXIMUM ERP = 775 KW

ANTENNA HEIGHT = 259.4 M

AMSL / 258 M HAAT



Note: display reflects rotation of 0.00°

0° 0.982	60° 0.317	120° 0.161	180° 0.772	240° 0.539	300° 0.310	208° 1.000
10° 0.938	70° 0.180	130° 0.100	190° 0.893	250° 0.350	310° 0.245	
20° 0.820	80° 0.099	140° 0.215	200° 0.979	260° 0.308	320° 0.367	
30° 0.667	90° 0.160	150° 0.385	210° 0.996	270° 0.380	330° 0.590	
40° 0.531	100° 0.218	160° 0.528	220° 0.920	280° 0.425	340° 0.799	
50° 0.428	110° 0.218	170° 0.650	230° 0.754	290° 0.401	350° 0.937	

Antenna Make: AND

Standard Pattern:

Antenna Model: ATW25H5-ESPL-23H

Last Change Date:

INTERFERENCE CAUSED ANALYSIS FOR WAMI-DT CHANNEL 24 INTERIM STA FACILITY UNDER CURRENT ALLOCATION ENVIRONMENT

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: wami24s2, Model: Longley-Rice

Study build station data: LMS TV 2017-10-24 (75)

Proposal: WAMI24S2 D24 DT STA HOLLYWOOD, FL
File number: wami24s2
Facility ID: 60536
Station data: User record
Record ID: 1593
Country: U.S.
Zone: III

Build options:
Protect records not on baseline channel

Individual records excluded:
0000007385 WDOX-LD D24 LD LIC West Palm Beach, FL BLANK0000007385
0000007743 WDOX-LD D24 LD CP West Palm Beach, FL BLANK0000007743
0000028317 WDSC-TV D24 DT CP NEW SMYRNA BEACH, FL BLANK0000028317
0000028453 WBEC-TV D25 DT CP BOCA RATON, FL BLANK0000028453
12171 WDSC-TV D24 DT BL NEW SMYRNA BEACH, FL DTVBL12171
20091029ABI WIMP-CD D25 DC LIC MIAMI, FL BLDTA20091029ABI
20100331AAN W24DE-D D24 LD LIC MIAMI, FL BLDTT20100331AAN
51349 WBEC-TV D25 DT BL BOCA RATON, FL DTVBL51349
60536 WAMI-DT D24 DT BL HOLLYWOOD, FL DTVBL60536

No protected stations found. (Note: No cases of interference caused to protected full-service and Class A facilities.)

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24
Latitude: 25 58 8.00 N (NAD83)
Longitude: 80 13 19.00 W
Height AMSL: 259.4 m
HAAT: 258.0 m
Peak ERP: 775 kW
Antenna: AND-ATW25H5-ESPL-23H (ID 98770) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 1.2

39.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	747 kW	257.8 m	90.5 km
45.0	178	257.8	79.4
90.0	19.8	258.5	68.0
135.0	19.2	257.8	67.8
180.0	462	257.1	85.6
225.0	543	258.2	87.2
270.0	112	255.7	76.8
315.0	72.6	258.0	74.7

Distance to Canadian border: 1757.3 km

Distance to Mexican border: 1667.8 km

Conditions at FCC monitoring station: Vero Beach FL
Bearing: 347.4 degrees Distance: 186.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 310.5 degrees Distance: 2794.9 km

Study cell size: 2.00 km
Profile point spacing: 1.00 km

INTERFERENCE CAUSED ANALYSIS FOR WAMI-DT CHANNEL 24 INTERIM STA FACILITY UNDER CURRENT ALLOCATION ENVIRONMENT

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

INTERFERENCE RECEIVED ANALYSIS FOR WAMI-DT CHANNEL 24 INTERIM STA FACILITY UNDER CURRENT ALLOCATION ENVIRONMENT

tvstudy v2.2.3 (Dxtpx3)

Database: localhost
Station Data: LMS TV 2017-10-11 (69)
Study: lms_1711
Model: Longley-Rice
Scenario: wami_1

Desired station	Service area		Terrain-limited		Interference-free	
Undesired station	Total interference		Unique interference			
WAMI24S2 D24 DT STA HOLLYWOOD, FL	19831.9	5,294,942	19831.9	5,294,942	19831.9	5,294,942

(Note: No cases of received interference.)