

CONTOUR OVERLAP AND
LONGLEY-RICE INTERFERENCE STUDIES
PROPOSED WJMF-LP
CHANNEL 19 – JACKSON, MISSISSIPPI

We conducted a computer analysis of the interference situation for the proposed facility, the results of which are shown in Exhibit D-2. The study is based on contour protection requirements of Sections 74.705, 74.706, and 74.707 of the FCC's Rules with respect to analog full-power, digital full-power, and low power television stations, respectively. It concludes that the facility proposed herein meets these requirements except to six stations: KLTM-DT, Channel 19, Monroe, Louisiana; WMAH-TV, Channel 19, Biloxi, Mississippi; WIIQ-DT, Channel 19, Demopolis, Alabama; WMPN-DT, Jackson, Mississippi; WAPT(TV), Channel 16, Jackson, Mississippi; and WMAU-DT, Channel 18, in Bude, Mississippi.

We then conducted detailed interference studies using the Longley-Rice methodology contained in the Commission's *OET Bulletin No. 69*, with respect to these facilities of concern. The software utilizes a 2-square kilometer cell size (except where noted), calculates signal strength at 1.0 kilometer increments along each radial studied, and employs the 1990 U.S. Census to count population within cells. In addition, the program does not attribute interference to the proposed facility in cells within the protected contour of the station under study where interference from another source (other than proposed WJMF-LP) already is predicted to exist (also known as "masking"). The results of these studies are provided in Exhibit D-3. They conclude that the facility.

EXHIBIT D-1

proposed herein causes no significant new interference to any of the potentially affected stations

As a result, waivers of Section 74.705 of the Commission's Rules with respect to interference to WMAH-TV, and WAPT(TV), and Section 74.706 with regard to KLTM-DT, WIIQ-DT, WMPN-DT, and WMAU-DT, are requested and believed to be justified based on the aforementioned Longley-Rice studies.

EXHIBIT D-2

PROPOSED WJMF-LP JACKSON - MS

REFERENCE

32 16 53 N

LPTV Pwr = 150 kW, HAMS L COR= 447 M

90 17 41 W

DISPLAY DATES

DATA 02-17-07

SEARCH 02-19-07

..... Channel 19+, 500 MHz

Call	Channel	Location	Dist	Azi	FCC	Margin	
KLTM-D LI	19	Monroe	LA	172.19	279.6	> 348.55	-176.36
WIIQ-D LI	19	Demopolis	AL	228.71	87.1	> 378.31	-149.60
WMPN-D CP	20	Jackson	MS	14.49	226.3	> 121.40	-106.91
WMAHTV LI	19+	Biloxi	MS	212.28	142.6	> 305.52	-93.24
WAPT LI	16Z	Jackson	MS	0.37	175.9	> 032.00	-31.63
WMAU-D CP	18	Bude	MS	109.62	203.2	> 116.23	-6.61
WMAU-D ST	18	Bude	MS	109.62	203.2	> 094.06	15.56
WMAU-D ST	18	Bude	MS	109.62	203.2	> 093.21	16.41
WMAUTV ALD	18	BUDE	MS	109.72	203.2	> 092.81	16.91

* Actual radials antenna height and directional patterns used (if any)

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Call	Channel	Location	Dist	Azi	FCC	Margin	
WIIQ-D LI	19	Demopolis	AL	228.71	87.1	> 388.12	-159.41
KLTM-D LI	19	Monroe	LA	172.19	279.6	> 324.00	-151.81
WMPN-D CP	20	Jackson	MS	14.49	226.3	> 104.47	-89.98
WAPT LI	16Z	Jackson	MS	0.37	175.9	> 032.00	-31.63
WMAHTV LI	19+	Biloxi	MS	212.28	142.6	> 238.87	-26.59
WMAU-D CP	18	Bude	MS	109.62	203.2	> 103.99	5.63

* Actual radials antenna height and directional patterns used (if any)

INTERFERENCE SUMMARY
PROPOSED WJMF-LP
CHANNEL 19 – JACKSON, MISSISSIPPI

<u>Call Sign</u>	<u>Status</u>	<u>City, State</u>	<u>Ch.</u>	<u>Longley-Rice Service Population</u>	<u>Unmasked Interference From Proposed Facility</u>	<u>%</u>
KLTM-DT BLEDT-20040818AAF	Lic.	Monroe, LA	19	261,223	1156	0.4
WMAH-TV BMLET-20030103AAP	Lic.	Biloxi, MS	19	589,255	0	0
WIIQ-DT BLEDT-2003102AAI	Lic.	Demopolis, AL	19	365,420	1182	0.3
WMPN-DT BPEDT-20000113AAH	CP	Jackson, MS	20	756,385	0	0
WAPT(TV) BMLCT-20021008ABL	Lic.	Jackson, MS	18	604,595	0	0
WMAU-DT BPEDT-20000501AHS	CP	Bude, MS	18	731,416	0	0