

## APPENDIX B-4



March 27, 2023

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**Subject: Temporary Load Letter**

**Client Designation:** **Mississippi Public Broadcasting Reconfiguration**  
**FCC ASR Number:** 1041044  
**Client Site Name:** WMAV Oxford

**Engineering Firm Designation:** **TEP Project Number:** 19780.814206

**Site Data:** **Near CR344, Oxford, Lafayette County, MS 38655**  
**Latitude 34° 17' 27.5", Longitude -89° 42' 21.8"**  
**1247.5± Foot - Guyed Tower**

Dear Alicia Harris,

This letter is being written to address the ability of the tower owner to install their proposed tower lighting system prior to the completion of the required tower modifications. Refer to the analysis report by TEP, Project Number 19780.814207, dated March 24, 2023 for the list of components requiring modifications.

The objective of this review is to ensure an adequate level of safety for the proposed tower configuration, considering a reduced wind speed during an established construction period. To achieve this, Non-Operational wind speeds are used to represent the effective 3-second gust wind speed while considering the appropriate Construction Duration Wind Speed as specified in Section 4.5 of the **TIA-322, Standard for Loading, Analysis, and Design Criteria Related to the Installation, Alteration and Maintenance of Communication Structures**.

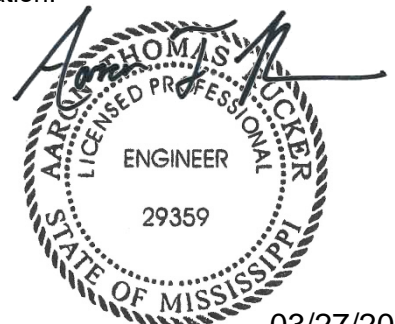
Ultimate Construction Duration Wind Speeds (mph)	Nominal Construction Duration Wind Speeds (mph)	Construction Duration
53	41	Continuous Workday
64	49	Less than 24 hours
71	55	24 hours to less than 1 week
80	62	1 week to 6 weeks
85	66	6 weeks to 6 months
106	82	Greater than 6 months

We have reviewed the structural integrity of the tower using an ultimate Construction Duration 3-second gust wind speed of 85 mph and found that the tower has sufficient capacity to support the proposed and reserved loading with this consideration.

It is therefore acceptable to install the proposed tower lighting system provided the construction of required tower modifications is completed within 6 months of the proposed lighting system installation.

Respectfully submitted by:

Aaron T. Rucker, P.E.



03/27/2023

**Table 1 - Existing, Proposed, and Reserved Antenna and Cable Information**

Existing/ Proposed/ Reserved	Mount Level (ft)	Ant CL (ft)	Qty	Antenna Model	Mount Type	Qty Coax	Coax Size	Coax Location	Owner/ Tenant
<b>Proposed</b>	<b>0 - 1300</b>		-	<b>FAA F4 Lighting System</b>	-	<b>1</b>	<b>1" M.C.</b>	<b>CA-Face</b>	<b>MPB</b>
<i>To Be Removed</i>	0 – 1299		-	Existing Lighting System	-	1	2-1/4" M.C.	CA-Face	MPB
<b>Reserved</b>	<b>1247.5</b>	<b>1274</b>	<b>1</b>	<b>Dielectric TFU-27ETT/VP-R S210</b>	<b>Tower Top</b>	<b>1</b>	<b>6-1/8"</b>	<b>Inside A-Leg</b>	<b>WMAV-TV</b>
<i>To Be Removed</i>	1247.5	1271	1	Dielectric 881-32	Tower Top	1	6-1/8"	Inside A-Leg	WMAV-TV
<i>To Be Removed</i>	1197	1203	1	6" Dia. x 10' Omni	Standoff	1	EW20	B-Leg	Unknown
<i>To Be Removed</i>	1186	1186	1	4.5' Dia. Grid Dish	Direct				
<b>Reserved</b>	<b>1135</b>	<b>1135</b>	<b>1</b>	<b>ERI SHPX-10AC</b>	<b>(10) Standoffs</b>	<b>1</b>	<b>3-1/8"</b>	<b>Inside C-Leg</b>	<b>WMAV-FM</b>
<i>To Be Removed</i>	1149.5	1149.5	1	Jampro JHVP-6	(6) Standoffs	1	3-1/8"	Inside C-Leg	WMAV-FM
<i>To Be Removed</i>	1045	1045	1	Equipment Box 18"x22"x45"	Side Platform	1	1-1/4" M.C.	BC-Face	Unknown
			1	Equipment Box 30"x24"x16"					
<i>To Be Removed</i>	1038	1029	1	20', 4-Element Dipole	Standoff	-	-	-	Unknown
Existing	1008	1008	1	40', 8-Element Dipole	(4) Standoffs	1	7/8	AB-Face	NWS
<b>Reserved</b>	<b>950</b>	<b>950</b>	<b>1</b>	<b>Jampro JHVP-6</b>	<b>(6) Standoffs</b>	<b>1</b>	<b>3"</b>	<b>CA-Face</b>	<b>WMAV-FM</b>
<b>Reserved</b>	<b>900</b>	<b>900</b>	<b>1</b>	<b>Dielectric TFU-8WB-R S230</b>	<b>Direct</b>	<b>1</b>	<b>4-1/16"</b>	<b>Inside CA-Face</b>	<b>WMAV-TV</b>
<b>Reserved</b>	<b>778</b>	<b>778</b>	<b>1</b>	<b>Kathrein Scala PR-TV</b>	<b>Standoff</b>	<b>1</b>	<b>1/2</b>	<b>CA-Face</b>	<b>MPB</b>
<i>To Be Removed</i>	643	-	-	-	Horizontal Pipe	-	-	-	Unknown
<i>To Be Removed</i>	624	-	-	-	Horizontal Pipe	-	-	-	Unknown
<i>To Be Removed</i>	616	616	1	3', 6-Element Yagi	Direct	-	-	-	Unknown
<i>To Be Removed</i>	604	613	1	18', 16-Element Dipole	Standoff	1	7/8	AB-Face	Unknown
Existing	542	552	1	20', 4-Element Dipole	Standoff	1	7/8	Inside AB-Face	FBI
<i>To Be Removed</i>	515	515	2	6' Dia. Grid Dish	Direct	1	1/2	Inside AB-Face	Unknown
<i>To Be Removed</i>	442	442	1	10', Single Element Dipole	Direct	1	1/2	AB-Face	Unknown
Existing	432	432	1	25', 4-Element Dipole	Standoff	1	7/8	AB-Face	FBI
<i>To Be Removed</i>	423	423	1	10', Single Element Dipole	Direct	Shared <sup>1</sup>		AB-Face	Unknown
<i>To Be Removed</i>	394	394	1	20', 4-Element Dipole	(2) Standoffs	1	7/8	AB-Face	Unknown

Existing/ Proposed/ Reserved	Mount Level (ft)	Ant CL (ft)	Qty	Antenna Model	Mount Type	Qty Coax	Coax Size	Coax Location	Owner/ Tenant
Existing	392	392	1	8' Dia. Dish w/ Radome	Pipe	1	EW63	AB-Face	MPB
To Be Removed	356	356	1	10', Single Element Dipole	Direct	Shared <sup>1</sup>		AB-Face	Unknown
Existing	348	348	1	8' Dia. Dish w/ Radome	Standoff	1	EW63	AB-Face	MPB
To Be Removed	214	-	-	-	Face Mount	-	-	-	Unknown
To Be Removed	190	190	1	40" x 32" Grid Panel Antenna	Pipe	1	1/4"	CA-Face	Unknown
To Be Removed	186	186	1	8', 3-Element Yagi	Standoff	-	-	-	Unknown
To Be Removed	183	183	1	10', 10-Element Yagi	Direct	-	-	-	Unknown
To Be Removed	176	176	1	10', 10-Element Yagi	Direct	-	-	-	Unknown
To Be Removed	159	-	-	-	Standoff	-	-	-	Unknown
To Be Removed	155	155	1	4.5', 7-Element Yagi	Tape	-	-	-	Unknown
To Be Removed	145.5	151.5	1	14', 10-Element Yagi	Standoff	-	-	-	Unknown
To Be Removed	138	144	1	14', 10-Element Yagi	Standoff	1	3/8"	CA-Face	Unknown
To Be Removed	95	-	-	-	Standoff	-	-	-	Unknown
To Be Removed	61	-	-	-	Standoff	-	-	-	Unknown
Existing	39	39	1	Compound Light	Standoff	1	5/8"	CA-Face	MPB
Existing	39	39	1	3' x 2' Ice Shield	Standoff	-	-	-	MPB
Existing	34	35	1	Anemometer	Standoff	1	5/16"	Inside A-Leg	MPB
To Be Removed	Multiple abandoned feed lines throughout tower. See note 2.								Unknown

Notes:

- 1) Feed line to 442' is shared with antennas at 423' and 356'.
- 2) For abandoned feed line details, refer to the Tower Mapping Report by Tower Engineering Professionals, dated March 27, 2023, project # 19780.814205.