

## APPENDIX C-4



March 29, 2023

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**Subject: Temporary Load Letter**

**Client Designation:** *Mississippi Public Broadcasting Reconfiguration*  
**FCC ASR Number:** 1041037  
**Client Site Name:** WMAW Rose Hill

**Engineering Firm Designation:** **TEP Project Number:** 327679.814194

**Site Data:** **2315 County Road 20, Louin, Jasper County, MS 39338**  
**Latitude 32° 08' 19.13", Longitude -89° 05' 37.15"**  
**997.5± 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 reconfiguration of antenna loading. Refer to Table 1 for the final loading configuration.

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
58	45	Continuous Workday
70	54	Less than 24 hours
78	60	24 hours to less than 1 week
87	67	1 week to 6 weeks
93	72	6 weeks to 6 months
116	90	Greater than 6 months

We have reviewed the structural integrity of the tower using an ultimate Construction Duration 3-second gust wind speed of 93 mph and found that the tower has sufficient capacity to support the proposed loading with this consideration.

It is therefore acceptable to install the proposed tower lighting system provided the antennas and feed lines are reconfigured as listed in Table 1 within 6 months of the proposed lighting system installation.

Respectfully submitted by:

Aaron T. Rucker, P.E.



03/29/2023

**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 - 1054</b>		-	<b>FAA F3 Lighting System</b>	-	<b>1</b>	<b>1" M.C.</b>	<b>CA-Face</b>	<b>MPB</b>
<i>To Be Removed</i>	0 – 1054		-	Existing Lighting System	-	1	2-1/4" M.C.	CA-Face	MPB
<b>Reserved</b>	<b>997.5</b>	<b>1025</b>	<b>1</b>	<b>Dielectric TFU-28ETT/VP-R O4</b>	<b>Tower Top</b>	<b>1</b>	<b>6-1/8"</b>	<b>Inside A-Leg</b>	<b>WMAW- TV</b>
<i>To Be Removed</i>	997.5	1025	1	Dielectric TUF-O4-14/56H-1-T	Tower Top	1	6-1/8"	Inside A-Leg	WMAW- TV
<b>Reserved</b>	<b>876</b>	<b>876</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>WMAW- FM</b>
<i>To Be Removed</i>	876	876	1	Jampro JHPC-10	(10) Standoffs	1	3-1/8"	Inside C-Leg	WMAW- FM
<i>To Be Removed</i>	798	808	1	21', 4-Element Dipole	Side Platform	1	1-1/4" M.C.	AB-Face	Unknown
		804	1	1" Dia. x 7' Omni					
		800	1	Equipment Box 19"x26"x10"					
			1	Equipment Box 16"x24"x31"					
		798	1	Equipment Box 24"x24"x8"					
<i>To Be Removed</i>	765	767	1	5.5' x 3' Grid Dish	Standoff	-	-	-	Unknown
		763	1	5.5' x 3' Grid Dish					
<i>To Be Removed</i>	747	-	-	-	Standoff	-	-	-	Unknown
<b>Reserved</b>	<b>730</b>	<b>730</b>	<b>1</b>	<b>Kathrein Scala PR-TV</b>	<b>Pipe</b>	<b>1</b>	<b>1/2</b>	<b>CA-Face</b>	<b>MPB</b>
Existing	697	697	1	44', 8-Element Dipole	(4) Standoffs	1	7/8	AB-Face	NWS
<b>Reserved</b>	<b>654</b>	<b>654</b>	<b>1</b>	<b>Dielectric TFU-8WB-R C160</b>	<b>Standoff</b>	<b>1</b>	<b>4-1/16"</b>	<b>Inside CA-Face</b>	<b>WMAW- TV</b>
Existing	616	626	1	21', 4-Element Dipole	Standoff	1	7/8	AB-Face	FBI
<b>Reserved</b>	<b>525</b>	<b>525</b>	<b>1</b>	<b>Jampro JHPC-10</b>	<b>(10) Standoffs</b>	<b>1</b>	<b>3"</b>	<b>CA-Face</b>	<b>WMAW- FM</b>
<i>To Be Removed</i>	520.5	520.5	1	20', 4-Element Dipole	(2) Standoffs	1	7/8	AB-Face	Unknown
<i>To Be Removed</i>	496	496	1	10', Single Element Dipole	Direct	1	1/2	AB-Face	Unknown
	482	482	1	10', Single Element Dipole	Direct				
<i>To Be Removed</i>	465	465	1	8' Dia. Dish	Direct	-	-	-	Unknown
Existing	392	402	1	21', 4-Element Dipole	Standoff	1	7/8	AB-Face	FBI
<i>To Be Removed</i>	392	392	1	20', 4-Element Dipole	(2) Standoffs	1	7/8	AB-Face	Unknown
Existing	370	370	1	8' Dia. Dish w/ Radome	Standoff	1	EW63	CA-Face	MPB
<i>To Be Removed</i>	348	-	-	-	(2) Face- Mounted Angles	-	-	-	Unknown
	342								
Existing	331	331	1	8' Dia. Dish w/ Radome	Pipe	1	EW63	CA-Face	MPB

Existing/ Proposed/ Reserved	Mount Level (ft)	Ant CL (ft)	Qty	Antenna Model	Mount Type	Qty Coax	Coax Size	Coax Location	Owner/ Tenant
<i>To Be Removed</i>	213	215	1	<i>Damaged 10', 5-Element Yagi</i>	<i>Standoff</i>	1	1/4"	CA-Face	<i>Unknown</i>
<i>To Be Removed</i>	190	196	1	<i>40" x 32" Grid Panel Antenna</i>	<i>Standoff</i>	1 1 1	1/8" 3/8" 1/2"	AB-Face	<i>Unknown</i>
<i>To Be Removed</i>	132	129	1	<i>Damaged 6-Element Yagi</i>	<i>Standoff</i>	-	-	-	<i>Unknown</i>
Existing	34	34	1	Compound Light	Standoff	1	5/8"	C-Leg	MPB
Existing	34	34	1	1.7' x 2' Ice Shield	Standoff	-	-	-	MPB
Existing	31	32	1	Anemometer	Standoff	1	5/16"	Inside A-Leg	MPB
<i>To Be Removed</i>	<i>Multiple abandoned feed lines throughout tower. See note 1.</i>								<i>Unknown</i>

Notes:

- 1) For abandoned feed line details, refer to the Tower Mapping Report by Tower Engineering Professionals, dated March 28, 2023, project # 327679.814193.