

ENGINEERING NARRATIVE – APPLICATIONS FOR NEW AUXILIARY FACILITY

WVKL(FM) CH 239 B FAC ID 4672 NORFOLK, VA

WPTE(FM) CH 235 B FAC ID 64004 VIRGINIA BEACH, VA

WWDE-FM CH 267 B FAC ID 40753 HAMPTON, VIRGINIA

1.75 kW ERP ND H&V RC 40.2 M AMSL

SEPTEMBER 2023

Audacy License, LLC herein proposes new FM auxiliary facilities for the three FM stations specified above. This is the same facility to be proposed as a minor modification to FCC license BXLH-20001026AAR for WVKL(FM). The applications specify use of an existing 36.6 meter (120 foot) self-supporting lattice tower. A new Nicom two bay, full wave spaced, antenna, model BKG77, will be installed with a RC 33.5 meters (110 feet) AGL. The coordinates have been obtained using satellite data found in Google Earth Professional.

Towair analysis results are found herein on page 2 and indicate that FAA filing is not required. Also on page 2 is a map depicting the proposed auxiliary contour which lies wholly inside the licensed FM station contours. No station combining equipment is proposed at this time.

The FCC FM Model online tool has been employed, using the Nicom Type 2 antenna, to confirm OET-65 guideline compliance. The calculated power density for an ERP of 1.75 kW H&V is 22.15 microwatts per centimeter squared which is 11.1 percent of the public exposure guideline. The applicant will reduce power or cease operation as required to meet OET-65 worker guidelines.

The foregoing was prepared on behalf of Audacy License, LLC by Clarence M. Beverage of Communications Technologies, Medford, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



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for Communications Technologies  
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# **DETERMINATION Results**

PASS SLOPE(100:1)NO FAA REQ - 5955.0 Meters (19537.1 Feet)away & below slope by 21.0 Meters (68.9000 Feet)

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	36-53-9.00N	076-12-30.00W	NORFOLK INTL	NORFOLK NORFOLK, VA	4.6	2743.5

PASS SLOPE(100:1)NO FAA REQ - 5663.0 Meters (18579.1 Feet)away & below slope by 18.0 Meters (59.0499 Feet)

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	36-53-18.00N	076-11-56.00W	NORFOLK INTL	NORFOLK NORFOLK, VA	4.6	2743.5

## **Your Specifications**

### **NAD83 Coordinates**

Latitude	36-50-44.4 north
Longitude	076-09-50.5 west

### **Measurements (Meters)**

Overall Structure Height (AGL)	36.6
Support Structure Height (AGL)	36.6
Site Elevation (AMSL)	6.7

### **Structure Type**

LTOWER - Lattice Tower

