



State Borders

## **Radio Frequency Radiation Study and Statement**

The Proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The proposed auxiliary antenna system is a Shively model 6832, 2-bay 0.67 wave spaced antenna, mounted with a center of radiation 26 meters above ground level, and will operate with an effective radiated power of 3.4 Kilowatts in both the horizontal and vertical planes. Assuming a 'worse case Ring Stub' antenna, the microcomputer program "FM Model" finds that at 2 meters above ground, at 4 meters from the base of the tower, the facility will, as a worse case, have a power density of 54.08 microwatts per square centimeter, or 5.41 percent of the allowable ANSI limit for controlled exposure, and 27.04 percent of the allowable limit for uncontrolled exposure. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The tower itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

## TOWAIR Determination Results

A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration.

### \*\*\* NOTICE \*\*\*

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

#### DETERMINATION Results

**PASS SLOPE(100:1)NO FAA REQ - 4412.0 Meters (14474.8 Feet)away & below slope by 15.0 Meters (49.2100 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	4.7	2743.5

**PASS SLOPE(100:1)NO FAA REQ - 5145.0 Meters (16879.7 Feet)away & below slope by 23.0 Meters (75.4599 Feet)**

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	36-53-49.00N	076-12-44.00W	NORFOLK INTL	NORFOLK NORFOLK, VA	4.7	2743.5

#### Your Specifications

##### NAD83 Coordinates

Latitude 36-51-11.6 north

Longitude 076-14-11.9 west

##### Measurements (Meters)

Overall Structure Height (AGL) 30.5

Support Structure Height (AGL) 30.5

Site Elevation (AMSL) 3.0

##### Structure Type

TOWER - Free standing or Guyed Structure used for Communications Purposes

#### [Tower Construction Notifications](#)

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

CLOSE WINDOW