



Federal Aviation Administration  
Southern Regional Office  
1701 Columbia Avenue-ASO-520  
College Park, GA 30337

Aeronautical Study No.  
2005-ASO-1655-OE  
Prior Study No.  
2004-ASO-5512-OE

Issued Date: 6/6/2005

ROSS M. MASON  
FTS OF NORTH CAROLINA, INC  
2005 FRANCIS STREET  
HIGH POINT, NC 27263

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure Type: Antenna Tower  
Location: SOPHIA, NC  
Latitude: 35-48-46.49 NAD 83  
Longitude: 79-50-28.07  
Heights: 1248 feet above ground level (AGL)  
2033 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does exceed obstruction standards but would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure should be marked and/or lighted in accordance with FAA Advisory Circular ~~70/7460-1~~ AC 70/7460-1K Change 1, Obstruction Marking and Lighting, 24-hr. hi-strobes - Chapters 4, 7 (HIWOL), & 12.

It is required that the enclosed FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

At least 10 days prior to start of construction  
(7460-2, Part I)

Within 5 days after the construction reaches its greatest height  
(7460-2, Part II)

As a result of this structure being critical to flight safety, it is required that the FAA be kept apprised as to the status of the project. Failure to respond to periodic FAA inquiries could invalidate this determination.

See attachment for additional information.

This determination expires on 12/6/2006 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION

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MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission if the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (404)305-5614. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2005-ASO-1655-OE.

Signature Control No: 417686-376265

(EBO)

Richard E Biscomb  
Specialist

Attachment(s)  
Additional Information  
Frequency Data

7460-2 Attached

Additional Information for ASN 2005-ASO-1655-OE

ATTACHMENT AERONAUTICAL STUDY  
NO. 05-ASO-1655-OE

SPURIOUS EMISSION:

Evaluation of this proposal predicts in-band signals as indicated below for various frequency ranges. The additional attenuation required to reduce in-band spurious signal levels is also tabulated to reduce the maximum allowable level to -104 dBm. This level was established and agreed upon by the FCC and FAA in 1981 to eliminate the harmful interference to FAA facilities. The last column shows the total amount by which the spurious radiation must be attenuated below the unmodulated R.F. carrier for the frequency range specified.

Location: Asheville, NC

Frequency Range MHz: 119.275 MHz

Spurious Level: -90.9 dBm

Additional Attenuation Required: 13.1 dB

Total Attenuation Required Below R.F. Carrier: 93.1 dB

This determination of No Hazard is granted provided the following conditional statement is included in the proponent's construction permit or license to radiate:

Upon receipt of notification from the Federal Communications Commissions that harmful interference is being caused by the licensee's (permittee's) transmitter, the licensee (permittee) shall either immediately reduce the power to the point of no interference, cease operation, or take such immediate corrective action as is necessary to eliminate the harmful interference. This condition expires after one year of interference-free operation.

//////////END OF COMMENTS//////////