**FLAG RADIO, INC.**
**NEW AM RADIO STATION**
**1550 kHz - 0.45/10.0 kW DAN**
**BUNNELL, FLORIDA**
**January 2000**

## EXHIBIT #5

### Radio Frequency and Environmental Assessment

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. §1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997 ("Bulletin"), regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby stations and utilizes the appropriate formulas contained in the Bulletin.

### Environmental Analysis

The proposed tower system does not involve the use of high intensity white lighting (strobes) in a residential neighborhood. The structures will not be located in an officially designated wilderness area or wildlife preserve, nor will they threaten the existence or habitat of endangered species. The facility does not affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed in the National Register of Historic Places, or are eligible for listing, nor does it affect Indian religious sites. Further, the site is not located in a floodplain and does not, to the knowledge of the licensee, or at the time of construction will not, require significant change in surface features (wetland fill, deforestation or water diversion).

## Radio Frequency Radiation Study

This radio frequency radiation study is being conducted to determine whether this proposal is in compliance with OET Bulletin Number 65 and Number 65A, both dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby contributing stations and utilizes the appropriate formulas contained in the OET Bulletin.

The proposed two tower antenna system is analyzed with the assumption that the station's full (10.0 kilowatts) power is radiated from each tower structure. The tower structure(s) are electrically 90.7°. By reference to Table 2, Page 4 of OET 65-A, a tower radiating 10.0 kilowatts should be in compliance with the radiation guidelines for controlled and non-controlled environments (at 1550 kHz) if protected from trespass at a distance not less than 2.0 meters. Therefore, Flag Radio, Inc., proposes to limit access to the tower structures to a distance not less than 2.0 meters from each tower base.

This proposal is, then, believed to be in compliance with the radio frequency radiation exposure limits as is required by the Federal Communications Commission. Further, Flag Radio, Inc., will post warning signs in the vicinity of the towers warning of potential radio frequency radiation hazards at the site. In addition, Flag Radio, Inc., will reduce the power of the proposed facility or cease operation, in cooperation and coordination with other tower users, as necessary, to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines. Based on the above factors, this proposal is categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

## RF WORKSHEET #2 : AM

**PLEASE COPY THIS WORKSHEET PRIOR TO USING. IN THE CASE OF A MULTIPLE TOWER ARRAY, A COPY IS NECESSARY FOR EACH TOWER LISTED IN RF WORKSHEET #2A. See AM instruction b. to "How to Use RF Worksheets" on page 25.**
**SINGLE TOWER**

Enter the transmitted power ..... **10.0** kW (1)
Enter the distance from the tower to the nearest point of the fence or other restrictive barrier enclosing the tower ..... **2.0** m (2)

### DETERMINATION OF WAVELENGTH

**Method 1 Electrical Height**

The tower height in wavelength may be obtained from the electrical height in degrees of the radiator.

| | | |
|---|---|---|
| Electrical height of the radiator | **90.7** degrees | (3a) |
| Divide Line (3a) by 360 degrees | **0.25** wavelength | (3b) |

**Method 2: Physical Height**

Alternatively, the wavelength may be obtained from the physical height of the radiator above the tower base and the frequency of the station.

| | | |
|---|---|---|
| Overall height of the radiator above the tower base | _____meters | (4a) |
| List the station's frequency ..... | _____kilohertz | (4b) |
| Divide 300,000 by Line (4b) ..... | _____meters | (4c) |
| Divide Line (4a) by Line (4c) ..... | ____wavelength | (4d) |

### REQUIRED RESTRICTION DISTANCE

Use the appropriate AM fence distance table based on the wavelength determined in either Line (3b) or Line (4d) above. If the transmitted power is not listed in the table, use next highest value (e.g. if the transmitted power is 2.5 kW, use the fence value in the 5 kW column).

List the fence distance obtained from the appropriate table ..... **2.0** meters (5)
Is the value listed in Line (5) less than or equal to the value listed in line (2)?

Yes **XX** No (6)

If Line (6) is "Yes", are warning signs posted at appropriate intervals which describe the nature of the potential hazard? Yes **XX** No ____ (7)

IF EITHER LINE (6) OR LINE (7) WAS ANSWERED "NO
Assessment. However, in order to determine the need for such an
If after consideration of such factors as the antenna radiation pat
restrict access you conclude that an Environmental Assessment is
entitled "Environmental Assessment."

IF BOTH LINE (6) AND LINE (7) WERE ANSWERED "YES
FCC guidelines with respect to the general public. Please
requirements with respect to "on-tower" or other exposure by workers at the site (including RF fields caused by other facilities on the tower, or RF fields caused by facilities on another tower or towers). These requirements include, but are not limited to the reduction or cessation of transmitter power when person have access to the site, tower, or antenna. See OET Bulletin 65 for more details.

EXHIBIT #5A
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