

## FCC 320

### BASIC SIGNAL LEAKAGE PERFORMANCE REPORT

#### INSTRUCTIONS

At least once each calendar year, each cable television system utilizing aeronautical frequencies must conduct measurements of its signal leakage. A performance report (FCC 320), which demonstrates the results of its tests, must be filed each calendar year in accordance with 47 C.F.R. Section 76.615. Completed forms should be returned to the FEDERAL COMMUNICATIONS COMMISSION, MEDIA BUREAU, WASHINGTON, DC 20554.

#### Section I - General Information

The information in this Section is preprinted based on the most current data on file with the Commission. The information should be reviewed and revised, if not accurate and complete.

#### Section II - local System Information

1. Provide the name, address and telephone number of the person(s) at the local system by whom or under whose direction the report was prepared
2. Where the reporting cable television system does not utilize the aeronautical frequency bands (i.e., 108-137 or 225-400 MHz), the system owner should so indicate in response to Question 2 of Section II, complete Section IV, and return this form to the Commission.
3. Include as an attachment and identify as Exhibit A, a list of all the precisely offsetted aeronautical frequencies used by this community unit.
4. Test Results - Show compliance with one of the following basic signal leakage criteria:
  - a) For ground-based measurements, the determination of 10Log loo and 10Log 13000 shall be based upon methods, parameters and formulae as prescribed in 47 C.F.R. Section 76.611 (a)(1 ). Provide the results here  
Note: If 10Log loo IS equal to or less than 64 or if 10Log 13000 is equal to or less than -7, the system has passed the signal leakage test
  - b) If airspace measurements are used, use calibration methods, parameters and techniques as prescribed in 47 C.FR Section 76611 (a)(2) Indicate whether the system passed or failed the signal leakage test.

#### Section III - Leakage Performance Criteria

For operators electing to conduct measurements on geographical areas that contain more than one community unit, fill in the requested measurement information on this form. However, the submission of the accompanying exhibits, either B or C, may be Incorporated by reference to the filing of another community unit that had undergone the same measurement tests as this community unit, that community unit is identified by its community unit code number in response to Question (2) or (4) of Section III

##### 1. Ground-Based Measurements (if used)

- a. Provide the name and telephone number of person(s), who is responsible for conducting the ground-based measurements
- b. Indicate the number of miles of cable plant tested for signal leakage and calculate the percentage of overall cable plant that was tested for signal leakage.  
**Note:** A minimum of 75% of cable plant, which includes oldest portion of the system, must be sampled for this test
- c. Show the time period of the test, including the actual starting and ending dates.
- d. Provide the name and make of the leakage measurement equipment used and the test frequency used. As an alternative, provide information as to the sensitivity and accuracy of the leakage measurement equipment and the test frequency used  
**Note:** The equipment used must be capable of measuring leaks of 20 uV/m @ 3 m or its equivalent, and the test frequency must be within the VHF aeronautical band 108-137 MHz or a frequency in which the results can be correlated to that band  
Additionally, the test signal used shall have an average power equal to the average power level of the strongest carrier on the system

- e. Attach as Exhibit B, the actual calculations performed in accordance with 47 C.F.R. Section 76611 (a)(1) for the entire geographical area tested. Identify in this Exhibit all leaks 50 uV/m or greater that were detected during the test and include their repair dates, if any. The geographical area tested may include more than one community unit. Use the same information and results for each community unit.

## 2. Airspace Measurements (if used)

- a. Provide the name and telephone number of person/ company performing the airspace measurements.
- b. Indicate the date(s) that the airspace tests were performed and the test frequency used during these airspace measurements.
- c. Attach as Exhibit C, a full description of the airspace measurement procedure, a list of the equipment used and a detailed description of the geographical area covered by these airspace measurements. Additionally, include the graph or chart of the data points collected and the associated technical analysis for these measurements. Use the same results for each community unit included in this test. For all leaks detected during the airspace measurements that were subsequently repaired, specify the date of repair.
- d. Recorded data and its analysis
  - i. If analog recordings are used, include a graph of the curves and the result (in uV/m) of the analysis of the peak values of these curves when smoothed out, in accordance with good engineering practices.  
**Note:** This smoothed curve must be below 10 uV/m.
  - ii. If digitized data is used, indicate the percentage of these digitized points below 10 uV/m.  
**Note:** 90% of data points must be below 10 uV/m.

## Section IV – Certification

This report must be certified by the individual owning the reporting cable system, if individually owned; by a partner, if a partnership; by an officer of the corporation, if a corporation; or by a member who is an officer, if an unincorporated association. It may also be signed by the cable system owner's attorney in case of the owner's physical disability or absence from the United States. The attorney shall, in that event, separately set forth the reasons why the report was not signed by the owner. In addition, if any matter is stated on the basis of the attorney's belief only (rather than personal knowledge), the attorney shall separately set forth the reasons for believing that such statements are true.

### FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information required in this Report is authorized by the Communications Act of 1934, as amended. The Commission will use this information to determine eligibility to use the aeronautical frequency spectrum in the provision of Cable Television Service. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in the form to another government agency. In addition, all information provided on this form is available for public inspection. If information requested on this form is not provided, processing of the Report may be delayed while a request is made to provide the missing information. Your response is required to obtain the requested benefit. Respondents are not required to respond to this collection of information unless it displays a currently valid OMB control number. This collection has been assigned an OMB control number of 3060-0433. The burden estimate for this collection is 20 hours per response.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 95-579, DECEMBER 31, 1974, 5 U.S.C. 552(e)(3) AND THE PAPERWORK REDUCTION ACT OF 1995, P.L. 104-13, MAY 22, 1995, 47 U.S.C. 3507.