



# PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION  
1919 M STREET N.W.  
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## CRITERIA FOR APPROVAL OF SAMPLE SYSTEMS FOR DIRECTIONAL AM BROADCAST STATIONS

On October 31, 1985, the Commission adopted a Report and Order in MM Docket No. 85-90 concerning antenna sampling systems and proofs of performance for directional AM broadcast stations. The new rules are based upon performance standards in terms of accuracy and stability rather than upon construction specifications. This Notice clarifies the information required for directional AM sampling system approval under the new provisions of Section 73.68(a) of the Rules. As before, stations constructing new antenna systems pursuant to a construction permit must obtain approval of their sample system when filing for a covering license. Existing stations may obtain approval by informal request to the FCC in Washington, D.C.

To obtain antenna system approval, applicants may follow either of the procedures set forth in Paragraphs A or B below:

- A. Demonstrate that the system complies with the provisions of Section 73.68(a) of the Rules in effect prior to January 1, 1986.
- B. Demonstrate stability of operation by submission of the following information:
  - (1) A detailed and complete description of the antenna monitoring system installation.
  - (2) Field strength readings taken on a monthly basis at each of the monitoring points specified in the instrument of authorization for a one year period prior to the date of the application.
  - (3) The following readings taken daily for each directional pattern use during the thirty-day period prior to the filing of the application:
    - (a) Common point current.
    - (b) Base currents and their calculated ratios.
    - (c) Antenna monitor sample current ratios.
    - (d) Antenna monitor phase readings.
    - (e) Final amplifier DC input voltage and current.
  - (4) The results of either a partial proof of performance (Section 73.154) or a full proof (Section 73.186) conducted no longer than 3 months prior to the filing of the application and the common point impedance at the operating frequency measured at the time of the proof.

(over)

Additional sampling system components and configurations found by the Commission to be accurate and stable over a wide range of environmental and operational conditions will be included as acceptable under Paragraph A above and announced periodically via public notice.

Questions concerning sampling system approval may be directed to John Sadler (202) 632-7010 and questions concerning the Report and Order in MM Docket 85-90 may be directed to John Reiser (202) 632-9660.

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