

**REQUEST FOR PROGRAM TEST AUTHORITY/  
APPLICATION FOR NEW STATION LICENSE  
LAZARUS ELIAS FOUNDATION, INC.  
WPDQ-FM RADIO STATION  
CH 209A - 89.7 MHZ - 5.0 KW (DA)  
FREEHOLD TOWNSHIP, NEW JERSEY  
November 2001**

**TECHNICAL STATEMENT**

This Technical Statement was prepared on behalf of Lazarus Elias Foundation, Inc. ("LEFI"), licensee of radio station WPDQ-FM, Channel 209A, Freehold Township, New Jersey. LEFI holds an outstanding construction permit to make minor changes in the facilities of WPDQ-FM, BPED-20001012AAT. LEFI herein requests Program Test Authority with the facilities authorized in the outstanding permit. Attached as Exhibit A is a calculation of the transmitter output power for WPDQ-FM.

The WPDQ-FM construction permit has six conditions. The first condition relates to the reduction in power of the facility for those persons having access to the site with regard to radio frequency radiation levels at the site. LEFI herein restates that it will reduce the power of the WPDQ-FM facilities to ensure that persons having access to the site will not be exposed to radio frequency radiation levels in excess of the rules.

The next four conditions pertain to the use of a directional antenna system. Attached as Exhibit B1 is a report from Electronics Research, Inc. ("ERI") regarding their testing of the WPDQ-FM directional FM antenna system, as well as the procedures utilized to make the measurements of the system. The report indicates that the WPDQ-FM directional antenna system is in compliance with the Commission's rules and regulations. It also includes a

horizontal plane pattern containing the vertical polarization, as well as a tabulation of the vertical polarization. A review of this data indicates this antenna system complies with the envelope pattern submitted in BPED-20001012AAT. Attached as Exhibit B2 is a statement from a surveyor registered in the State of New Jersey attesting to the fact that the ERI P300-2B-DA antenna system is oriented on a true azimuth of 178° degrees true, which is in agreement with the ERI report. Finally, Exhibit B3 is a statement from the engineer that was on site during the assembly and installation of the WPDQ-FM antenna system attesting to the fact that the antenna was installed according to the manufacturer's instructions.

The remaining condition was the use of a specific antenna to comply with the Commissions radio frequency radiation requirements. The permit specified the use of an ERI two bay antenna system. As detailed above, LEFI has installed an ERI two bay antenna. Therefore, based on the foregoing, all of the conditions on the permit have been met.

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**EXHIBIT A**

**WPDQ-FM Transmission System Calculations**

Effective Radiated Power:

Horizontal	0.0 kilowatt
Vertical	5.0 kilowatt

Antenna:

Electronics Research Inc. P300-2B-DA  
2 bay full wavelength - Vertically Polarized  
4.213

Antenna gain

Transmission Line:  
(128 feet)

Andrew HJ7-50B  
1 5/8 inch air dielectric  
96.5% efficiency

Required Transmitter Power Output  
To Reach Effective Radiated Power:

1.23 kilowatts

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Facilities Authorized:

Channel 209A - 89.7 MHz

Effective Radiated Power:

5.0 kilowatts (V)

Geographic Coordinates:

North Latitude	40° 11' 19"
West Longitude	74° 15' 01"

Antenna Center of Radiation:

Above Ground	18.0 meters
Above MSL	64.0 meters
HAAT	27.0 meters

FCC Tower Registration Number:

None Required