

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
INTERNATIONAL BROADCASTING CORPORATION
RADIO STATION WGIT
CANOVANAS, PUERTO RICO

1660 KHZ 10 KW-D, 500 W-N U ND

Technical Narrative

The technical exhibit of which this narrative is part has been prepared on behalf of International Broadcasting Corporation, licensee of AM broadcast station WGIT at Canovanas, Puerto Rico. WGIT is licensed for full time operation on 1660 kilohertz with daytime power of 10 kilowatts and nighttime power of 1.0 kilowatts both operating with the same non-directional antenna. By means of this present application, the licensee proposes to decrease nighttime power to 500 watts while maintaining non-directional operation. **This proposal is contingent upon the grant of two applications concurrently filed by International Broadcasting Corporation, proposed licensee of experimental synchronous station diplexed at WTIL, Mayaguez and experimental synchronous station diplexed at WISO, Ponce.**

The proposed facility will not have a significant environmental impact as defined by 47 CFR 1.1307. The Federal Aviation Administration has not been

notified of the proposal as new tower construction is not proposed.

Proposed Transmitter Location

The location of the proposed WGIT facility will not change. The licensed site will continue to be used for both daytime and nighttime operation.

Nighttime Coverage

The existing Nighttime Interference-Free (NIF) level to WGIT is 2.0 mV/m. This is produced by WWRU, Jersey City, New Jersey - 1.414 mV/m and WCNZ, Marco Island, Florida - 1.393 mV/m. Figure 1 shows the 2.0 mV/m contour totally encompassing the city limits of Canovanas utilizing the proposed facility.

Nighttime Allocation Study

The limiting station for the nighttime non-directional operation of WGIT is co-channel station WCNZ at Marco Island, Florida. The 50 percent RSS limit for WCNZ is produced by WBHE, Charlotte, North Carolina - 2.694 mV/m and WGIT - 1.666 mV/m. Therefore, WGIT is subject to the ratchet clause¹ with the combined RSS calculations of itself and the two proposed contingent experimental synchronous stations, and together must reduce their contribution to WCNZ by 10% or to 1.499 mV/m. The following table shows the RSS calculation from the three proposed facilities:

¹ See Note 1 following 73.182(q)

RSS Calculation to WCNZ

<u>Station</u>	<u>Proposed Power [w]</u>	<u>Contribution [mV/m]</u>
WGIT	500	1.178
Mayaguez	185	0.668
Ponce	185	0.632
	RSS:	1.494

As a result, the proposed nighttime operation of WGIT will afford nighttime protection to all stations and international allotments operating on 1650 kHz, 1660 kHz, and 1670 kHz. Figure 2 contains pertinent calculation data to support a conclusion that this proposal comports with all nighttime interference protection requirements.

Environmental Considerations

The proposed operation is categorically excluded from environmental processing, as it meets all the criteria for such an exclusion as specified in 47 CFR 1.1306. The proposal does not involve construction at a site location as specified under 47 CFR 1.1307(a)(1)-(7) and the human exposure to radiofrequency radiation is predicted to be within the standards specified in 47 CFR 1.1307(b).



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July 11, 2003