

Federal Communications Commission Washington, D.C. 20554  <b>FCC 340</b>	Approved by OMB 3060-0034 (March 2001)  FOR FCC USE ONLY
<b>APPLICATION FOR CONSTRUCTION PERMIT          FOR RESERVED CHANNEL          NONCOMMERCIAL EDUCATIONAL BROADCAST          STATION</b>  Read INSTRUCTIONS Before Filling Out Form	FOR COMMISSION USE ONLY FILE NO. -

**Section I - General Information**

1.	Legal Name of the Licensee/Permittee PUERTO RICO PUBLIC BROADCASTING CORPORATION		
	Mailing Address PO BOX 190909		
	City HATO REY	State or Country (if foreign address) PR	Zip Code 00919 - 0909
	Telephone Number (include area code) 7877660505	E-Mail Address (if available)	
	FCC Registration Number:	Call Sign WIPR-DT	Facility Identifier 53859
	2. Contact Representative (if other than licensee/Permittee) ELIZABETH HAMMOND		Firm or Company Name DRINKER BIDDLE & REATH LLP
	Telephone Number (include area code) 2028428843		E-Mail Address (if available) EHAMMOND@DBR.COM
	3. Is this application being filed in response to a window? If Yes, specify closing date and/or window number:		<input type="radio"/> Yes <input checked="" type="radio"/> No
	4 <b>Application Purpose</b> <div style="display: flex; justify-content: space-between;"> <div> <input type="radio"/> New station  <input type="radio"/> Major Change in licensed facility  <input type="radio"/> Minor Change in licensed facility         </div> <div> <input type="radio"/> Major Modification of construction permit  <input checked="" type="radio"/> Minor Modification of construction permit  <input type="radio"/> Major Amendment to pending application  <input type="radio"/> Minor Amendment to pending application         </div> </div> <p>(a) File number of original construction permit: BPEDT-20000426ABF</p> <p>(b) Service Type: <input type="radio"/> FM <input type="radio"/> TV <input checked="" type="radio"/> DTV</p> <p>(c) Community of License:          City: SAN JUAN      State: PR</p> <p>(d) Facility Type <input checked="" type="radio"/> Main <input type="radio"/> Auxiliary</p> <p>If an amendment, <b>submit as an Exhibit</b> a listing by Section and Question Number the portions of the pending application that are being revised. <span style="float: right;">[Exhibit 1]</span></p>		

**NOTE: The failure to include an explanatory providing full particulars in connection with a "No" response may**

**result in dismissal of the application. See Instructions, paragraph L for additional information regarding completion of explanatory exhibits.**

## SECTION II - Legal and Financial

1.	<b>Certification.</b> Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets.	<input checked="" type="radio"/> Yes <input type="radio"/> No
2.	<b>Eligibility.</b> Each application must answer "Yes" to one and "No" to two of the three following certifications. An applicant should not submit an explanatory exhibit in connection with these Question 2 "No" responses.  The applicant certifies that it is: a. a nonprofit educational institution; or b. a governmental entity other than a school; or c. a nonprofit educational organization, other than described in a. or b.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> No
3.	For applicants checking "Yes" to question 2(c) and applying for a new noncommercial educational television station only, the applicant certifies that the applicant's officers, directors and members of its governing board are broadly representative of the educational, cultural, and civic segments of the principal community to be served.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
4.	a. The applicant certifies that the Commission has previously granted a broadcast application identified here by file number that found this applicant qualified as a noncommercial educational entity with a qualifying educational program, and that the applicant will use the proposed station to advance a program similar to that the Commission has found qualifying in applicant's previous application.  b. Applicants who answered "No" to Question 4(a), must include an exhibit that describes the applicant's educational objective and how the proposed station will be used to advance an educational program that will further that objective according to 47 C.F.R. Section 73.503 (for radio applicants) and 47 C.F.R. Section 73.621 (for television applicants).	<input type="radio"/> Yes <input type="radio"/> No FCC FileNumber -  [Exhibit 2]
5.	The applicant certifies that its governing documents (e.g., articles of incorporation, by-laws, charter, enabling statute, and/or other pertinent organizational document) permit the applicant to advance an educational program and that there is no provision in any of those documents that would restrict the applicant from advancing an educational program or complying with any Commission rule, policy, or provision of the Communications Act of 1934, as amended.	<input type="radio"/> Yes <input type="radio"/> No
6.	a. <b>Parties to the Application.</b> List separately each party to the application including, as applicable, the applicant, its officers, directors, five percent or greater stockholders, non-insulated partners, members, and all other persons and entities with attributable interests. If another entity hold an attributable interest in the applicant, list separately, as applicable, its officers, directors, five percent or greater stockholders, non-insulated partners, and board members. Create a separate row for each individual or entity. Attach additional pages if necessary.  [Enter Parties/Owners Information] <hr/> <hr/> b. Applicant certifies that equity and financial interests not set forth above are non-attributable pursuant to 47 C.F.R. Section 73.3555 and that there are no agreements or understandings with any non-party that would give influence over the applicant's programming, personnel, or finances to that non-party.	<input type="radio"/> Yes <input type="radio"/> No [Exhibit 3]
7.	<b>Other Authorizations.</b> List call signs, locations, and facility identifiers of all other broadcast	<input type="checkbox"/> N/A

	stations in which applicant or any party to the application has an attributable interest pursuant to the notes to 47 C.F.R. Section 73.3555.	[Exhibit 4]
8.	<b>Character Issues.</b> Applicant certifies that neither applicant nor any party to the application has or has had any interest in or connection with: <ul style="list-style-type: none"> <li>a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or</li> <li>b. any pending broadcast application in which character issues have been raised.</li> </ul>	<input type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 5]
9.	<b>Adverse Findings.</b> Applicant certifies that, with respect to the applicant, any party to the application, and any non-party equity owner in the applicant, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any law related to any of the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another government unit; or discrimination.  If the answer is "No," attach as an Exhibit a full disclosure concerning the persons and matters involved, including an identification of the the court or administrative body and the proceeding (by dates and file numbers), and a description of the disposition of the matter. Where the requisite information has been earlier disclosed in connection with another application or as required by 47 C.F.R. Section 1.65, the applicant need only provide: (i) an identification of that previous submission by reference to the file number in the case of an application, the call letters of the station regarding which the application or Section 1.65 information was filed, and the date of filing; and (ii) the disposition of the previously reported matter.	<input type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 6]
10.	<b>Alien Ownership and Control.</b> Applicant certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.	<input type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 7]
11.	<b>Program Service Certification.</b> Applicant certifies that it is cognizant of and will comply with its obligations as a commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.	<input type="radio"/> Yes <input type="radio"/> No
12.	<b>Local Public Notice.</b> Applicant certifies compliance with the public notice requirements of 47 C.F.R. Section 73.3580.	<input type="radio"/> Yes <input type="radio"/> No
13.	<b>Anti-Drug Abuse Act Certification.</b> Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.	<input checked="" type="radio"/> Yes <input type="radio"/> No
14.	<b>Equal Employment Opportunity (EEO).</b> If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report on FCC Form 396-A.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
<b>QUESTIONS 15, 16 AND 17 APPLY ONLY TO APPLICANTS FOR NEW STATIONS. OTHER APPLICANTS CAN PROCEED TO QUESTION 18.</b>		
15.	<b>Financial.</b> The applicant certifies that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without revenue.  If "No" to 15., answer question 16. and 17.	<input type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 8]
16.	Is this application contingent upon receipt of a grant from the National Telecommunications and Information Administration?	<input type="radio"/> Yes <input type="radio"/> No
17.	Is this application contingent upon receipt of a grant from a charitable organization, the approval of the budget of a school or university, or an appropriation from a state, county, municipality or other political subdivision?	<input type="radio"/> Yes <input type="radio"/> No
NOTE: If Yes to 16. or 17., the application cannot be granted unconditionally until all of the necessary funds are committed or appropriated. In the case of grants from the National Telecommunications and Information Administration, no further		

action on the applicant's part is required. If the applicant relies on funds from a source specified in Question 17., **the applicant must advise the Commission when the funds are committed or appropriated.** This should be accomplished by letter amendment to the application. Applicants should take note that the Commission's construction period is not considered "tolled" by funding difficulties and that any permit granted conditionally on funding will expire if the station is not constructed for any reason, including lack of funding.

**QUESTIONS 18 AND 19 DO NOT APPLY TO APPLICATIONS FOR NEW STATIONS. APPLICANTS FOR NEW FM STATIONS CAN PROCEED TO SECTION III. APPLICANTS FOR NEW TV STATIONS CAN PROCEED TO SECTION IV.**

**Holding Period.**

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|-----|--|
| 18. | <p>Applicant certifies that this application does not propose a modification to an authorization that was awarded on the basis of a preference for fair distribution of service pursuant to 47 U.S.C. Section 307(b). <span style="float: right;"><input type="radio"/> Yes <input type="radio"/> No</span></p> <p>If "No," answer a. and b. below. If applicant answers "No" to 18. above and cannot answer "Yes" to either a. or b. below, the application is unacceptable.</p> <p>a. Applicant certifies that the proposed modification will not downgrade service to the area on which the Section 307(b) preference was based. <span style="float: right;"><input type="radio"/> Yes <input type="radio"/> No</span></p> <p>b. Applicant certifies that although it proposes to downgrade service to the area on which the Section 307(b) preference was based, applicant has provided full service to that area for a period of four years of on-air operations. <span style="float: right;"><input type="radio"/> Yes <input type="radio"/> No</span></p> |
| 19. | <p>Applicant certifies that this application does not propose a modification to an authorized station that received a credit for superior technical parameters under the point system selection method in 47 C.F.R. Section 73.7003. <span style="float: right;"><input type="radio"/> Yes <input type="radio"/> No</span></p> <p>If "No," applicant must be able to answer "Yes" to a. below or provide an exhibit that makes a compelling showing that the downgrade would be in the public interest.</p> <p>a. Applicant certifies that the population and area within the proposed service contour (60 dBu (FM) or grade B (TV)) are greater than or equivalent to those authorized. <span style="float: right;"><input type="radio"/> Yes <input type="radio"/> No<br/>[Exhibit 9]</span></p>   |

**Section III**

**Fair Distribution of Service Pursuant to 47 U.S.C. Section 307(b) (New and Major Changes to FM Radio Only)** (Other applicants can proceed to Section IV).

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|----|---|
| 1. | Applicant certifies that the proposed station will provide a first noncommercial educational aural service to (a) at least 10 percent of the people residing within the station's 60 dBu (1mV/m) service contour <b>and</b> (b) to a minimum of 2,000 people. Applicants answering "Yes" must provide an Exhibit. <span style="float: right;"><input type="radio"/> Yes <input type="radio"/> No<br/>[Exhibit 10]</span>  |
| 2. | Applicant certifies that the proposed station will provide a second noncommercial educational aural service to (a) at least 10 percent of the people residing within the station's 60 dBu (1mV/m) service contour <b>and</b> (b) to a minimum of 2,000 people. Applicants answering "Yes" must provide an Exhibit. <span style="float: right;"><input type="radio"/> Yes <input type="radio"/> No<br/>[Exhibit 11]</span> |

**Section IV Point System Factors - New and Major Change Applications Only** (used to select among mutually exclusive radio and television applications for new stations and major modifications) **NOTE:** Applicants will not receive any additional points for amendments made after the close of the application filing window.

- |    |   |
|----|---|
| 1. | <b>Established Local Applicant:</b> Applicant certifies that for at least the 24 months immediately prior to application, and continuing through the present, it qualifies as a local applicant pursuant to 47 C.F.R. Section 73.7000, that its governing documents require that such localism be maintained, and that it has placed documentation of its qualifications as an established local applicant in a local public inspection file and has submitted to the Commission copies of the documentation. <span style="float: right;"><input type="radio"/> Yes <input type="radio"/> No</span> |
| 2. | <b>Diversity of Ownership:</b> (a) Applicant certifies that the principal community (city grade) contour of the proposed station does not overlap the principal community contour of any other authorized <span style="float: right;"><input type="radio"/> Yes <input type="radio"/> No</span>   |

## Section VI -- Certification

## Section VII Preparer's Certification

I certify that I have prepared Section VII (Engineering Data) on behalf of the applicant, and that after such preparation, I have

examined and found it to be accurate and true to the best of my knowledge and belief.

Name GRAFTON OLIVERA		Relationship to Applicant (e.g., Consulting Engineer) TECHNICAL CONSULTANT	
Signature		Date 6/26/2006	
Mailing Address DU TREIL, LUNDIN & RACKLEY, INC. 201 FLETCHER AVENUE			
City SARASOTA	State or Country (if foreign address) FL	Zip Code 34237-6019	
Telephone Number (include area code) 9413296000	E-Mail Address (if available) GRAFTON@DLR.COM		

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

<b>SECTION VII - DTV Engineering</b>	
<b>Complete Questions 1-5 of the Certification Checklist and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.</b>	
<b>Certification Checklist:</b> A correct answer of "Yes" to all of the questions below will ensure an expeditious grant of a construction permit. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.	
1.	<p>The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:</p> <p>(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622. <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>(b) It will operate from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this location as established in 47 C.F.R. Section 73.622. <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>(c) It will operate with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622. <input checked="" type="radio"/> Yes <input type="radio"/> No</p>
2.	<p>The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Applicant must <b>submit the Exhibit</b> called for in Item 13.</p>
3.	<p>Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community. <input checked="" type="radio"/> Yes <input type="radio"/> No</p>
4.	<p>The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable. <input checked="" type="radio"/> Yes <input type="radio"/> No</p>
5.	<p>The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7. <input checked="" type="radio"/> Yes <input type="radio"/> No</p>



**SECTION VII - DTV Engineering****TECHNICAL SPECIFICATIONS**

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

<b>TECH BOX</b>	
1.	Channel Number: DTV 55 Analog TV, if any 6
2.	Zone: <input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27)  Latitude: Degrees 18 Minutes 6 Seconds 42 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 66 Minutes 3 Seconds 5 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1010730 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 901 meters
6.	Overall Tower Height Above Ground Level: 332 meters
7.	Height of Radiation Center Above Ground Level: 222 meters
8.	Height of Radiation Center Above Average Terrain (HAAT): 776 meters
9.	Maximum Effective Radiated Power (average power): 39 kW
10.	<p>Antenna Specifications:</p> <p>a. Manufacturer DIE Model TFU-30DSC-R CT170SP</p> <p>b. Electrical Beam Tilt: 1.5 degrees <input type="checkbox"/> Not Applicable</p> <p>c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable Attach as an Exhibit all data specified in 47 C.F.R. Section 73.685(c). [Exhibit 32]</p> <p>d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical</p> <p>e. Directional Antenna Relative Field Values: <input type="checkbox"/> Not applicable (Nondirectional)</p> <p>[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values]</p> <hr/> <p style="text-align: center;"><b>10e. Directional Antenna Relative Field Values</b></p> <p style="text-align: center;">[Fill in this subform for a composite directional (not off-the-shelf) antenna, only.]</p>

e. Directional Antenna Relative Field Values:											
Rotation (Degrees): 0 <input checked="" type="checkbox"/> No Rotation											
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	0.839	10	0.841	20	0.878	30	0.932	40	0.978	50	0.999
60	0.989	70	0.943	80	0.857	90	0.722	100	0.535	110	0.315
120	0.185	130	0.322	140	0.478	150	0.538	160	0.478	170	0.322
180	0.185	190	0.315	200	0.535	210	0.722	220	0.857	230	0.943
240	0.989	250	0.999	260	0.978	270	0.932	280	0.878	290	0.841
300	0.839	310	0.865	320	0.896	330	0.909	340	0.896	350	0.865
Additional Azimuths		51	1	247	1						
<a href="#">Relative Field Polar Plot</a>											
<p>If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. <b>Exhibit required.</b> [Exhibit 33]</p>											
11.	<p>Does the proposed facility satisfy the interference protection provisions of 47 C.F.R. Section 73.623(a)? (Applicable only if <b>Certification Checklist</b> items 1(a), (b), or (c) are answered "No".)</p> <p>If "No", attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.</p>										<p><input type="radio"/> Yes <input type="radio"/> No</p> <p>[Exhibit 34]</p>
12.	<p>If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefor. (Applicable only if <b>Certification Checklist</b> item 3 is answered "No".)</p>										[Exhibit 35]
13.	<p><b>Environmental Protection Act. Submit in an Exhibit</b> the following:</p> <p>a. If <b>Certification Checklist</b> Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.</p> <p>By checking "Yes" to <b>Certification Checklist</b> Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.</p> <p>If <b>Certification Checklist</b> Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.</p>										[Exhibit 36]
<b>PREPARERS CERTIFICATION ON PAGE 8 MUST BE COMPLETED AND SIGNED.</b>											

## Exhibits

### Exhibit 36

**Description:** SEE ATTACHED TECHNICAL EXHIBIT

THE ATTACHED TECHNICAL EXHIBIT WAS PREPARED IN SUPPORT FOR A REQUEST FOR SPECIAL TEMPORARY AUTHORITY (STA), WHICH WAS GRANTED BY THE FCC ON FEBRUARY 13, 2003. THE APPLICANT HEREBY PROPOSES TO MODIFY ITS CONSTRUCTION PERMIT TO CONFORM TO THE AUTHORIZED STA FACILITY PARAMETERS.

EVEN THOUGH THE INSTANT APPLICATION PROPOSES THE REDUCTION OF THE STATION'S EFFECTIVE RADIATED POWER, THE LICENSEE HAS SENT A NOTIFICATION TO THE ARECIBO OBSERVATORY



REGARDING THIS APPLICATION OUT OF AN ABUNDANCE OF CAUTION. THE LICENSEE WILL AMEND THE APPLICATION IN THE EVENT THAT THE OBSERVATORY ISSUES A RESPONSE.

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**Attachment 36**

Description
<u>TECHNICAL EXHIBIT</u>

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TECHNICAL EXHIBIT  
REQUEST FOR SPECIAL TEMPORARY  
AUTHORITY  
TELEVISION STATION WIPR-DT (STA)  
SAN JUAN, PUERTO RICO

December 11, 2002

CHANNEL 55 39 KW(MAX-DA) 776 M

TECHNICAL EXHIBIT  
REQUEST FOR SPECIAL TEMPORARY AUTHORITY  
TELEVISION STATION WIPR-DT (STA)  
SAN JUAN, PUERTO RICO  
CHANNEL 55 39 KW(MAX-DA) 776 M

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TECHNICAL EXHIBIT  
REQUEST FOR SPECIAL TEMPORARY AUTHORITY  
TELEVISION STATION WIPR-DT (STA)  
SAN JUAN, PUERTO RICO  
CHANNEL 55 39 KW(MAX-DA) 776 M

Technical Statement

This Technical Statement was prepared on behalf of WIPR-DT, San Juan, Puerto Rico (Channel 55) concerning a request for Special Temporary Authority (STA). WIPR-DT was allotted Channel 55 as its digital television transitional channel with a maximum effective radiated power (ERP) of 977.2 kW and an antenna height above average terrain (HAAT) of 825 m.\* WIPR-DT has an application pending to operate on Channel 55 with a maximum ERP of 1000 kW and an antenna HAAT of 776 m.† This request is made pursuant to the DTV STA provisions outlined in the FCC *Memorandum Opinion and Order on Reconsideration, In the Matter of Review of the Commission's Rules and Policies Affecting the Conversion to Digital Television*, MM Docket No. 00-39, Released: November 15, 2001.

The proposed WIPR-DT STA facility is to operate with the same facility as proposed in the WIPR-DT application for construction permit, but using a lower maximum directional ERP of 39 kW. The specifications of the proposed WIPR-DT STA operation are summarized in the attached Appendix 3. There will be no change in the overall height of the existing antenna structure as a result of the proposed operation.

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\* See *Memorandum Opinion and Order on Reconsideration of Sixth Report and Order* in MM Docket No. 87-268.

† See FCC File No. BPEDT-20000426ABF.

The 41 dBu, f(50,90) noise limited contour of the proposed WIPR-DT STA facility is located entirely within the predicted noise limited contour of the WIPR-DT allotment facility. Figure 1 is a map illustrating the predicted coverage contours for the proposed WIPR-DT STA operation and the WIPR-DT allotment facility. Also, as indicated in Figure 1, the predicted 48 dBu, f(50,90) contour fully encompasses the city limits of San Juan, as required.

There are other broadcast and non-broadcast facilities to be located in proximity to the proposed facility. No adverse electromagnetic impact is expected with respect to these facilities. However, the applicant recognizes its responsibility to correct objectionable electromagnetic interference problems that result from its proposed operation.

The WIPR-DT allotment facility, which is identical to the proposed WIPR-DT STA facility with the exception ERP, was coordinated with the Arecibo Observatory in Puerto Rico in May, 2000. The Arecibo Observatory did not object to the WIPR-DT 1000 kW application facility. Inasmuch as the proposed STA facility will operate identically except for a reduction in ERP to 39 kW, the proposal is presumed to meet the requirements for protection of the Arecibo Observatory. The Arecibo Observatory Coordination Letter is attached hereto at Appendix 2.

Concerning the FCC Monitoring Station in Santa Isabel, the proposed WIPR-DT STA power level has been specified at 39 kW in order to meet the 10-mV/m protection requirement over the Santa Isabel station. The proposed STA facility produces an electric field of less than 10 mV/m at the Santa Isabel Monitoring Station. Therefore, the proposed STA facility meets the requirements of Section 73.1030(c) of the FCC Rules concerning protection of FCC Monitoring Stations.

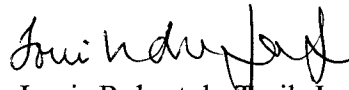
With respect to the potential for human exposure to radio frequency (RF) radiation, calculations prepared in accordance with FCC Bulletin OET-65 (Edition

97-01) indicate that the proposal will not result in human exposure to RF radiation at ground level in excess of FCC standards. Power density calculations were conducted at 2-m above ground<sup>‡</sup> based on the following conservative assumptions, with the following results:

Call Sign	Channel	Peak Visual ERP or Average ERP (kW)	Aural ERP (kW)	Relative Field Factor <sup>§</sup>	FCC Limit <sup>**</sup> (mW/cm <sup>2</sup> )	Percentage of Limit
WIPR-DT	55	39	--	0.15	0.479	0.13%

As indicated above, the exposure to RF radiation at 2-m above ground level will not exceed 0.13% of the FCC limit for general population / uncontrolled exposure.

Therefore, the proposal complies with the FCC limits for human exposure to RF radiation and it is categorically excluded from environmental processing. The applicant shall reduce power or cease operation as necessary to protect persons having access to the tower or antenna from radio frequency radiation in excess of the FCC guidelines.



Louis Robert du Treil, Jr.

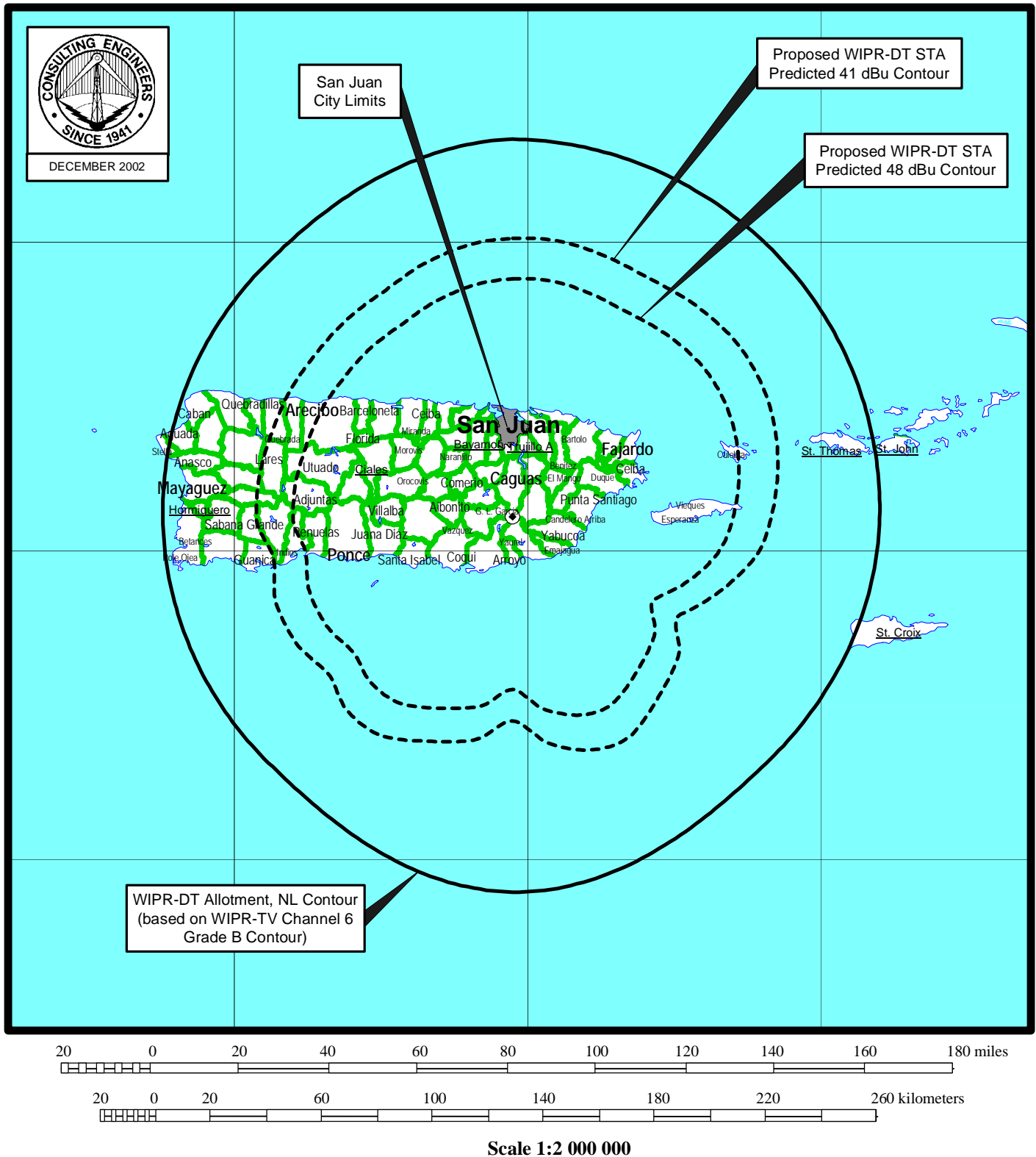
December 11, 2002

<sup>‡</sup> The radiation center height above ground is 222 m.

<sup>§</sup> This is a conservative estimate of the elevation pattern relative field toward ground level. See elevation pattern at Appendix 2.

<sup>\*\*</sup> for general population/uncontrolled environments





## PREDICTED COVERAGE CONTOURS

TELEVISION STATION WIPR-DT (STA)  
SAN JUAN, PUERTO RICO  
CHANNEL 55 39 KW(MAX-DA) 776 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

TECHNICAL EXHIBIT  
REQUEST FOR SPECIAL TEMPORARY AUTHORITY  
TELEVISION STATION WIPR-DT (STA)  
SAN JUAN, PUERTO RICO  
CHANNEL 55 39 KW(MAX-DA) 776 M

Transmitting Antenna  
Manufacturer's Pattern Data

(four pages follow)

# Dielectric

PROPOSAL NUMBER  
Proposal Number

PROPOSAL NUMBER  
DCA-5555

Date

7-Feb-00

Call Letters

WIPR-DT

Channel

55

Location

San Juan, PR

Customer

Antenna Type

TFU-30DSC-R CT170SP

## AZIMUTH PATTERN

Gain  
Calculated / Measured

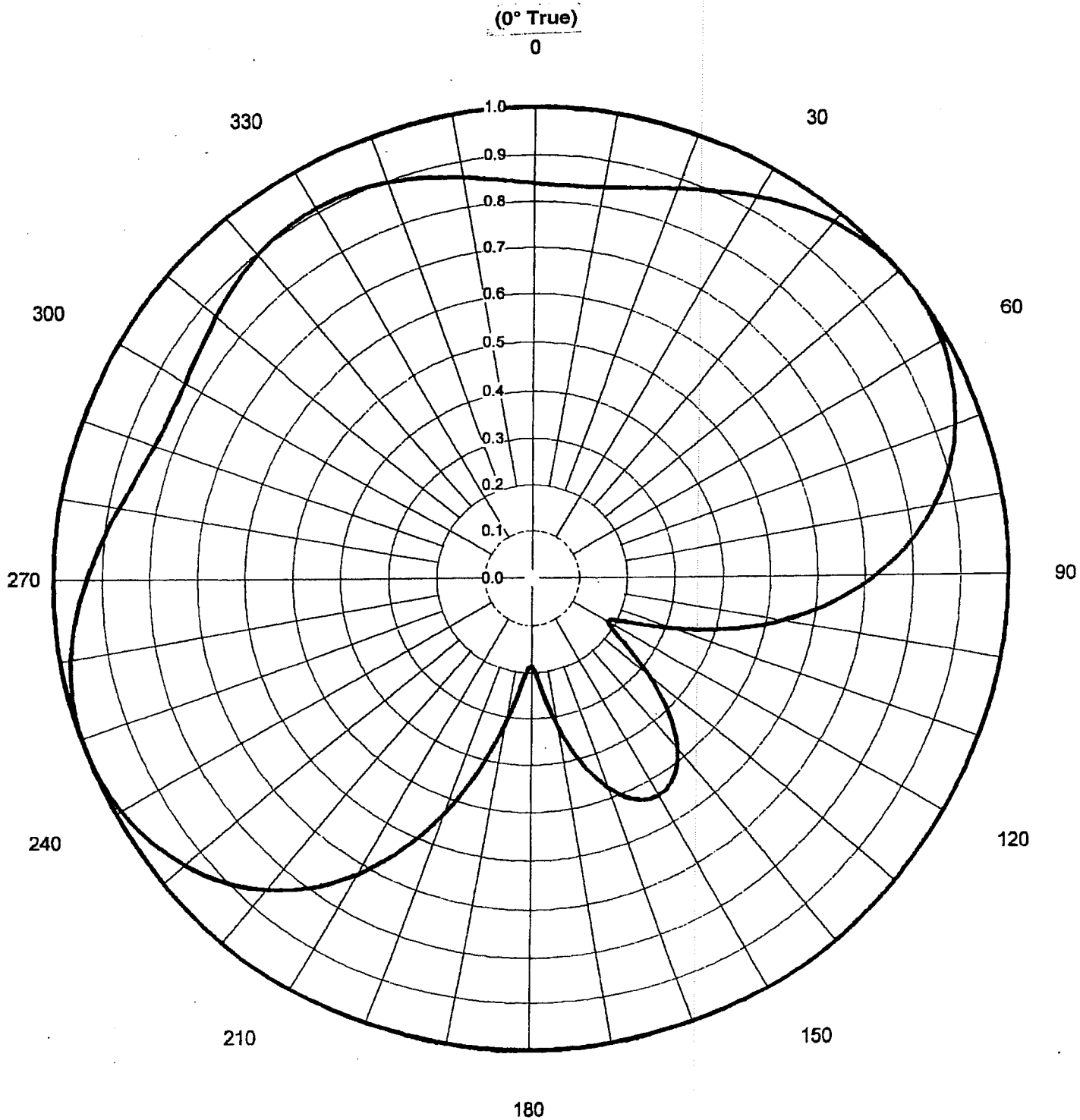
1.70

( 2.30 dB)  
Calculated

Frequency  
Drawing #

719.00 MHz

TFU-CT170-55



# Dielectric

Proposal Number

**DCA-8595**

Date

**7-FEB-00**

Call Letters

**WIPR-DT**

Channel

**55**

Location

**San Juan, PR**

Customer

Antenna Type

**TFU-30DSC-R CT170SP**

## TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TFU-CT170-55**

* Angle	* Field	* Angle	* Field	* Angle	* Field	* Angle	* Field	* Angle	* Field	* Angle	* Field	* Angle	* Field	* Angle	* Field
0	0.839	45	0.992	90	0.722	135	0.408	180	0.185	225	0.905	270	0.932	315	0.882
1	0.838	46	0.995	91	0.705	136	0.424	181	0.187	226	0.914	271	0.926	316	0.885
2	0.837	47	0.996	92	0.688	137	0.438	182	0.189	227	0.922	272	0.921	317	0.888
3	0.836	48	0.998	93	0.671	138	0.453	183	0.198	228	0.929	273	0.915	318	0.891
4	0.836	49	0.999	94	0.653	139	0.465	184	0.207	229	0.936	274	0.909	319	0.893
5	0.836	50	0.999	95	0.634	140	0.478	185	0.222	230	0.943	275	0.904	320	0.896
6	0.836	51	1.000	96	0.615	141	0.488	186	0.237	231	0.949	276	0.898	321	0.898
7	0.837	52	1.000	97	0.596	142	0.499	187	0.255	232	0.955	277	0.893	322	0.901
8	0.838	53	1.000	98	0.576	143	0.507	188	0.274	233	0.960	278	0.888	323	0.903
9	0.839	54	0.999	99	0.555	144	0.516	189	0.295	234	0.966	279	0.883	324	0.904
10	0.841	55	0.998	100	0.535	145	0.522	190	0.315	235	0.970	280	0.878	325	0.906
11	0.844	56	0.997	101	0.513	146	0.528	191	0.337	236	0.975	281	0.873	326	0.907
12	0.846	57	0.995	102	0.492	147	0.532	192	0.359	237	0.979	282	0.868	327	0.908
13	0.849	58	0.994	103	0.470	148	0.535	193	0.381	238	0.983	283	0.864	328	0.909
14	0.852	59	0.991	104	0.448	149	0.537	194	0.404	239	0.986	284	0.860	329	0.909
15	0.856	60	0.989	105	0.426	150	0.538	195	0.426	240	0.989	285	0.856	330	0.909
16	0.860	61	0.986	106	0.404	151	0.537	196	0.448	241	0.991	286	0.852	331	0.909
17	0.864	62	0.983	107	0.381	152	0.535	197	0.470	242	0.994	287	0.849	332	0.909
18	0.868	63	0.979	108	0.359	153	0.532	198	0.492	243	0.995	288	0.846	333	0.908
19	0.873	64	0.975	109	0.337	154	0.528	199	0.513	244	0.997	289	0.844	334	0.907
20	0.878	65	0.970	110	0.315	155	0.522	200	0.535	245	0.998	290	0.841	335	0.906
21	0.883	66	0.966	111	0.295	156	0.518	201	0.555	246	0.999	291	0.839	336	0.904
22	0.888	67	0.960	112	0.274	157	0.507	202	0.576	247	1.000	292	0.838	337	0.903
23	0.893	68	0.955	113	0.255	158	0.499	203	0.596	248	1.000	293	0.837	338	0.901
24	0.898	69	0.949	114	0.237	159	0.488	204	0.615	249	1.000	294	0.836	339	0.898
25	0.904	70	0.943	115	0.222	160	0.478	205	0.634	250	0.999	295	0.836	340	0.896
26	0.909	71	0.936	116	0.207	161	0.465	206	0.653	251	0.999	296	0.836	341	0.893
27	0.915	72	0.929	117	0.198	162	0.453	207	0.671	252	0.998	297	0.836	342	0.891
28	0.921	73	0.922	118	0.189	163	0.438	208	0.688	253	0.996	298	0.837	343	0.888
29	0.926	74	0.914	119	0.187	164	0.424	209	0.705	254	0.995	299	0.838	344	0.885
30	0.932	75	0.905	120	0.185	165	0.408	210	0.722	255	0.992	300	0.839	345	0.882
31	0.937	76	0.897	121	0.191	166	0.392	211	0.738	256	0.990	301	0.841	346	0.878
32	0.942	77	0.887	122	0.196	167	0.375	212	0.753	257	0.987	302	0.843	347	0.875
33	0.947	78	0.878	123	0.208	168	0.357	213	0.768	258	0.985	303	0.845	348	0.872
34	0.952	79	0.867	124	0.220	169	0.340	214	0.782	259	0.981	304	0.847	349	0.868
35	0.957	80	0.857	125	0.235	170	0.322	215	0.796	260	0.978	305	0.850	350	0.865
36	0.962	81	0.845	126	0.251	171	0.303	216	0.809	261	0.974	306	0.853	351	0.862
37	0.966	82	0.834	127	0.268	172	0.285	217	0.822	262	0.970	307	0.856	352	0.859
38	0.970	83	0.822	128	0.285	173	0.268	218	0.834	263	0.966	308	0.859	353	0.856
39	0.974	84	0.809	129	0.303	174	0.251	219	0.845	264	0.962	309	0.862	354	0.853
40	0.978	85	0.796	130	0.322	175	0.235	220	0.857	265	0.957	310	0.865	355	0.850
41	0.981	86	0.782	131	0.340	176	0.220	221	0.867	266	0.952	311	0.868	356	0.847
42	0.985	87	0.768	132	0.357	177	0.208	222	0.878	267	0.947	312	0.872	357	0.845
43	0.987	88	0.753	133	0.375	178	0.196	223	0.887	268	0.942	313	0.875	358	0.843
44	0.990	89	0.738	134	0.392	179	0.191	224	0.897	269	0.937	314	0.878	359	0.841

\* (Referenced to 0°T)



Proposal Number

**DCA-5555**

Date

**7-Feb-00**

Call Letters

**WIPR-DT**Channel **55**

Location

**San Juan, PR**

Customer

Antenna Type

**TFU-30DSC-R CT170SP****ELEVATION PATTERN**RMS Gain at Main Lobe **19.00 (12.79 dB)**RMS Gain at Horizontal **1.80 (2.55 dB)**Calculated / Measured **Calculated**

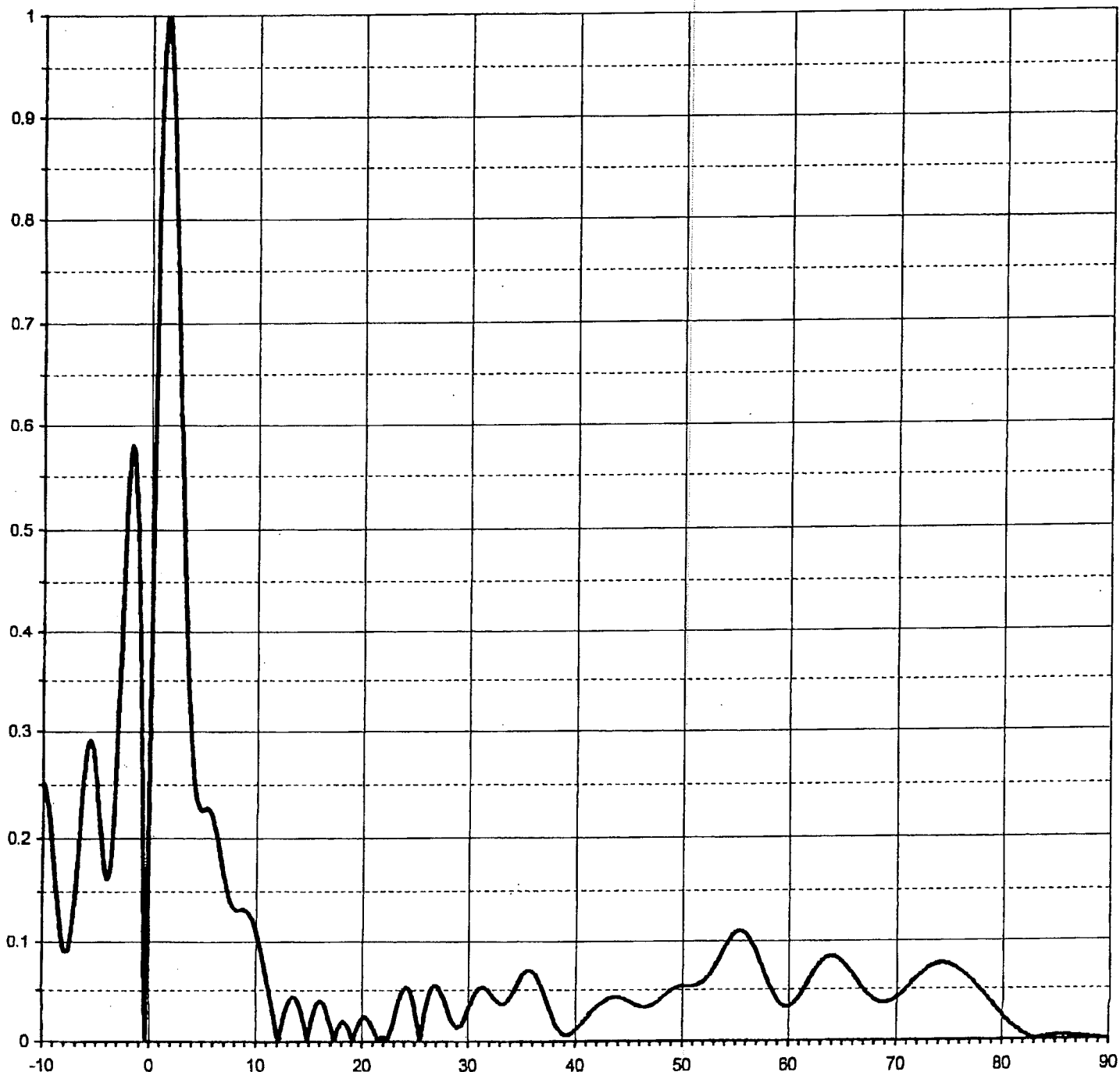
Beam Tilt

**1.50 deg**

Frequency

**719.00 MHz**

Drawing #

**30Q190150-90**

Degrees Below Horizontal



PROPOSAL NUMBER **HPX-3465**  
 Proposal Number **30Q-0000**

Date **7-Feb-00**  
 Call Letters **WIPR-DT** Channel **55**  
 Location **San Juan, PR**  
 Customer  
 Antenna Type **TFU-30DSC-R CT170SP**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **30Q190150-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.252	2.4	0.784	10.6	0.086	30.5	0.041	51.0	0.054	71.5	0.058
-9.5	0.230	2.6	0.702	10.8	0.076	31.0	0.051	51.5	0.055	72.0	0.063
-9.0	0.180	2.8	0.620	11.0	0.065	31.5	0.053	52.0	0.058	72.5	0.068
-8.5	0.124	3.0	0.539	11.5	0.037	32.0	0.048	52.5	0.064	73.0	0.072
-8.0	0.090	3.2	0.465	12.0	0.009	32.5	0.041	53.0	0.072	73.5	0.075
-7.5	0.100	3.4	0.400	12.5	0.015	33.0	0.036	53.5	0.082	74.0	0.077
-7.0	0.153	3.6	0.346	13.0	0.034	33.5	0.036	54.0	0.092	74.5	0.077
-6.5	0.224	3.8	0.303	13.5	0.042	34.0	0.042	54.5	0.101	75.0	0.075
-6.0	0.279	4.0	0.271	14.0	0.037	34.5	0.053	55.0	0.108	75.5	0.073
-5.5	0.288	4.2	0.249	14.5	0.019	35.0	0.063	55.5	0.110	76.0	0.069
-5.0	0.250	4.4	0.236	15.0	0.006	35.5	0.070	56.0	0.108	76.5	0.064
-4.5	0.192	4.6	0.229	15.5	0.027	36.0	0.069	56.5	0.100	77.0	0.059
-4.0	0.162	4.8	0.227	16.0	0.038	36.5	0.062	57.0	0.089	77.5	0.053
-3.5	0.200	5.0	0.227	16.5	0.034	37.0	0.049	57.5	0.076	78.0	0.047
-3.0	0.312	5.2	0.227	17.0	0.017	37.5	0.034	58.0	0.062	78.5	0.041
-2.8	0.370	5.4	0.228	17.5	0.003	38.0	0.021	58.5	0.049	79.0	0.035
-2.6	0.429	5.6	0.226	18.0	0.017	38.5	0.011	59.0	0.039	79.5	0.029
-2.4	0.485	5.8	0.222	18.5	0.017	39.0	0.006	59.5	0.033	80.0	0.023
-2.2	0.533	6.0	0.215	19.0	0.006	39.5	0.006	60.0	0.032	80.5	0.018
-2.0	0.565	6.2	0.206	19.5	0.010	40.0	0.010	60.5	0.035	81.0	0.014
-1.8	0.580	6.4	0.196	20.0	0.021	40.5	0.015	61.0	0.042	81.5	0.010
-1.6	0.571	6.6	0.184	20.5	0.022	41.0	0.021	61.5	0.051	82.0	0.006
-1.4	0.537	6.8	0.173	21.0	0.014	41.5	0.027	62.0	0.061	82.5	0.003
-1.2	0.476	7.0	0.162	21.5	0.003	42.0	0.032	62.5	0.070	83.0	0.001
-1.0	0.389	7.2	0.152	22.0	0.004	42.5	0.036	63.0	0.078	83.5	0.001
-0.8	0.279	7.4	0.144	22.5	0.003	43.0	0.040	63.5	0.083	84.0	0.002
-0.6	0.148	7.6	0.138	23.0	0.018	43.5	0.042	64.0	0.084	84.5	0.003
-0.4	0.002	7.8	0.134	23.5	0.038	44.0	0.042	64.5	0.083	85.0	0.004
-0.2	0.154	8.0	0.132	24.0	0.051	44.5	0.041	65.0	0.078	85.5	0.004
0.0	0.312	8.2	0.131	24.5	0.050	45.0	0.038	65.5	0.072	86.0	0.004
0.2	0.466	8.4	0.131	25.0	0.033	45.5	0.035	66.0	0.064	86.5	0.003
0.4	0.609	8.6	0.132	25.5	0.004	46.0	0.033	66.5	0.056	87.0	0.003
0.6	0.736	8.8	0.132	26.0	0.027	46.5	0.032	67.0	0.049	87.5	0.002
0.8	0.841	9.0	0.131	26.5	0.048	47.0	0.033	67.5	0.043	88.0	0.002
1.0	0.921	9.2	0.129	27.0	0.055	47.5	0.036	68.0	0.038	88.5	0.001
1.2	0.973	9.4	0.126	27.5	0.048	48.0	0.040	68.5	0.036	89.0	0.001
1.4	0.998	9.6	0.122	28.0	0.033	48.5	0.045	69.0	0.036	89.5	0.000
1.6	0.996	9.8	0.119	28.5	0.020	49.0	0.049	69.5	0.038	90.0	0.000
1.8	0.969	10.0	0.113	29.0	0.013	49.5	0.052	70.0	0.042		
2.0	0.922	10.2	0.105	29.5	0.017	50.0	0.054	70.5	0.046		
2.2	0.859	10.4	0.096	30.0	0.028	50.5	0.054	71.0	0.052		



TECHNICAL EXHIBIT  
REQUEST FOR SPECIAL TEMPORARY AUTHORITY  
TELEVISION STATION WIPR-DT (STA)  
SAN JUAN, PUERTO RICO  
CHANNEL 55 39 KW(MAX-DA) 776 M

Arecibo Observatory Coordination Letter

(one pages follow)

NATIONAL ASTRONOMY AND IONOSPHERE CENTER  
ARECIBO OBSERVATORY



May 24, 2000

Mr. Jerome J. Manarchuck  
du Treil, Lundin & Rackley, Inc.  
201 Fletcher Ave.  
Sarasota, Florida 34237

Re: WIPM-DT Ch. 35 at Mayaguez, PR and the other station  
WIPR-DT Ch55 at San Juan

Dear : Jerome J. Manarchuck

Thank you very much for the copy of your FCC application sent to us in accordance with the Puerto Rico Coordination zone agreements. We have considered the technical aspects of your application and find that your installation is unlikely to cause harmful interference to the passive use of the Radio Astronomy bands at the Observatory. We therefore have no objection to your proposed installation.

Sincerely yours,



Dr. Daniel Altschuler  
Director



Eng. Zachariah Barnes  
Local Spectrum Coordinator

ZB:ws

Cc: FCC  
PRCZ files [File #0005001]

TECHNICAL EXHIBIT  
REQUEST FOR SPECIAL TEMPORARY AUTHORITY  
TELEVISION STATION WIPR-DT (STA)  
SAN JUAN, PUERTO RICO  
CHANNEL 55 39 KW(MAX-DA) 776 M

FCC Form 301, Section III-D, Tech Box

(two pages follow)

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

7 H BOX

1. Channel Number:	DTV <u>55</u>	Analog TV, if any <u>6</u>	WIPR-DT, San Juan, PR				
2. Zone:	<input type="checkbox"/> I	<input checked="" type="checkbox"/> II	<input type="checkbox"/> III				
3. Antenna Location Coordinates: (NAD 27)							
	<u>18</u> ° <u>06</u> ' <u>42</u> " <input checked="" type="checkbox"/> N <input type="checkbox"/> S	Latitude					
	<u>66</u> ° <u>03</u> ' <u>05</u> " <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Longitude					
4. Antenna Structure Registration Number:	<u>1010730</u>						
	<input type="checkbox"/> Not applicable	<input type="checkbox"/> FAA Notification Filed with FAA					
5. Antenna Location Site Elevation Above Mean Sea Level:	<u>901</u> meters						
6. Overall Tower Height Above Ground Level:	<u>332</u> meters						
7. Height of Radiation Center Above Ground Level:	<u>222</u> meters						
8. Height of Radiation Center Above Average Terrain:	<u>776</u> meters						
Maximum Effective Radiated Power (average power):	<u>39</u> kW						
10. Antenna Specifications:							
a.	<table><tr><td>Manufacturer</td><td>Model</td></tr><tr><td>DIE</td><td>TFU-30DSC-R CT170SP</td></tr></table>			Manufacturer	Model	DIE	TFU-30DSC-R CT170SP
Manufacturer	Model						
DIE	TFU-30DSC-R CT170SP						
b. Electrical Beam Tilt:	<u>1.5</u> degrees <input type="checkbox"/> Not Applicable						
c. Mechanical Beam Tilt:	<input checked="" type="checkbox"/> Not Applicable						
Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).							
d. Polarization:	<input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Circular <input type="checkbox"/> Elliptical						

e. Directional Antenna Relative Field Values: ☐ Not applicable (Nondirectional)  
Rotation \_\_\_\_\_° ☒ No rotation

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.839	60	0.989	120	0.185	180	0.185	240	0.989	300	0.839
10	0.841	70	0.943	130	0.322	190	0.315	250	0.999	310	0.865
20	0.878	80	0.857	140	0.478	200	0.535	260	0.978	320	0.896
30	0.932	90	0.722	150	0.538	210	0.722	270	0.932	330	0.909
40	0.978	100	0.535	160	0.478	220	0.857	280	0.878	340	0.896
50	0.999	110	0.315	170	0.322	230	0.943	290	0.841	350	0.865
Additional Azimuths											

If a directional antenna is proposed, the requirements of 47 C.F.R. Section 73.625(c) must be satisfied. **Exhibit required.**

Exhibit No.  
**Tech. Exhibit**

11. Does the proposed facility satisfy the interference protection provisions of 47 C.F.R. Section 73.623(a)? (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered “No.”) ☐ Yes ☐ No

If “No,” attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.

Exhibit No.

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefor. (Applicable only if **Certification Checklist** Item 3 is answered “No.”)

Exhibit No.

13. **Environmental Protection Act. Submit in an Exhibit** the following:

Exhibit No.  
**Tech. Exhibit**

a. If **Certification Checklist** Item 3 is answered “Yes,” a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.

By checking “Yes” to **Certification Checklist** Item 3, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

If **Certification Checklist** Item 3 is answered “No,” an Environmental Assessment as required by 47 C.F.R. Section 1.1311.

APPLICANT'S CERTIFICATION IN SECTION III MUST BE COMPLETED AND SIGNED.