

WORO-DT, San Juan, PR, OET-69 Post-Transition Interference Analysis

Percent allowed new interference: 0.500
Percent allowed new interference to Class A: 0.500
TW Census data selected 2000
Post Transition Data Base Selected /export/home/cdb/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-13-2008 Time: 14:54:06

Record Selected for Analysis

WORO USERRECORD-01 FAJARDO PR US
Channel 13 ERP 38. kW HAAT 855. m RCAMSL 01061 m
Latitude 018-18-36 Longitude 0065-47-41
Status APP Zone 2 Border
Dir Antenna Make CDB Model 00000000085646 Beam tilt N Ref Azimuth 330.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility does not meet maximum height/power limits
Channel 13 ERP = 38.00 HAAT = 855.

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	37.207	1028.3	137.8
45.0	35.046	988.0	136.0
90.0	18.272	850.0	125.2
135.0	7.954	704.8	113.7
180.0	9.453	863.5	118.7
225.0	24.932	643.7	123.1
270.0	37.565	756.7	131.5
315.0	36.861	1007.2	137.1

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
13	WORO	FAJARDO PR	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WOLE-TV	AGUADILLA PR	126.7	PLN	DTVPLN -DTVP0402
12	WOLE-TV	AGUADILLA PR	126.7	CP	BPCDT -20080317AIC
12	WOLE	AGUADILLA PR	126.7	APP	USERRECORD-02

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
12	WOLE-TV	AGUADILLA PR	DTVPLN -DTVP0402

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
11	WLII	CAGUAS PR	93.1	PLN	DTVPLN -DTVP0344
11	WLII	CAGUAS PR	93.1	CP	BPCDT -20080603ADB
13	WORO-TV	FAJARDO PR	126.7	PLN	DTVPLN -DTVP0469
13	WORO	FAJARDO PR	126.7	APP	USERRECORD-01

Total scenarios = 2

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 12A PR AGUADILLA DTVPLN DTVP0402 PLN
HAAT 665.0 m, ATV ERP 7.3 kW
POPULATION AREA (sq km)
within Noise Limited Contour 1832509 36613.3

not affected by terrain losses	1595695	36004.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	34663	72.1
lost to ATV IX only	34663	72.1
lost to all IX	34663	72.1

Potential Interfering Stations Included in above Scenario 1

11A PR CAGUAS	DTVPLN	DTVP0344	PLN
13A PR FAJARDO	DTVPLN	DTVP0469	PLN

After Analysis

Results for: 12A PR AGUADILLA DTVPLN DTVP0402 PLN
 HAAT 665.0 m, ATV ERP 7.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1832509	36613.3
not affected by terrain losses	1595695	36004.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	108107	300.3
lost to ATV IX only	108107	300.3
lost to all IX	108107	300.3

Potential Interfering Stations Included in above Scenario 1

11A PR CAGUAS	DTVPLN	DTVP0344	PLN
13A PR FAJARDO	DTVPLN	DTVP0469	PLN
13A PR FAJARDO	USERRECORD01		APP

The following station failed the de minimis interference criteria.
 13D PR FAJARDO USERRECORD01
 ERP 38.00 kW HAAT 855.0 m RCAMSL 1061.0 m
 Antenna CDB 00000000085646

Due to interference to the following station and scenario: 1
 12D PR AGUADILLA DTVPLN DTVP0402
 ERP 7.31 kW HAAT 665.0 m RCAMSL 972.0 m
 Antenna CDB 00000000074705

Percent new interference from proposal: 4.7048 to DTVPLN DTVP0402

Result key: 2
 Scenario 2 Affected station 1
 Before Analysis

Results for: 12A PR AGUADILLA DTVPLN DTVP0402 PLN
 HAAT 665.0 m, ATV ERP 7.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1832509	36613.3
not affected by terrain losses	1595695	36004.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	40651	92.1
lost to ATV IX only	40651	92.1
lost to all IX	40651	92.1

Potential Interfering Stations Included in above Scenario 2

11A PR CAGUAS	BPCDT	20080603ADB	CP
13A PR FAJARDO	DTVPLN	DTVP0469	PLN

After Analysis

Results for: 12A PR AGUADILLA DTVPLN DTVP0402 PLN

HAAT 665.0 m, ATV ERP 7.3 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1832509	36613.3
not affected by terrain losses	1595695	36004.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	108107	300.3
lost to ATV IX only	108107	300.3
lost to all IX	108107	300.3

Potential Interfering Stations Included in above Scenario 2

11A PR CAGUAS	BPCDT	20080603ADB	CP
13A PR FAJARDO	DTVPLN	DTVP0469	PLN
13A PR FAJARDO	USERRECORD01		APP

The following station failed the de minimis interference criteria.

13D PR FAJARDO USERRECORD01
 ERP 38.00 kW HAAT 855.0 m RCAMSL 1061.0 m
 Antenna CDB 00000000085646

Due to interference to the following station and scenario: 2

12D PR AGUADILLA DTVPLN DTVP0402
 ERP 7.31 kW HAAT 665.0 m RCAMSL 972.0 m
 Antenna CDB 00000000074705

Percent new interference from proposal: 4.3379 to DTVPLN DTVP0402

Worst case new IX 4.7048% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WOLE-TV	AGUADILLA PR	BPCDT	-20080317AIC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WLII	CAGUAS PR	93.1	PLN	DTVPLN	-DTVP0344
11	WLII	CAGUAS PR	93.1	CP	BPCDT	-20080603ADB
13	WORO-TV	FAJARDO PR	126.7	PLN	DTVPLN	-DTVP0469
13	WORO	FAJARDO PR	126.7	APP	USERRECORD-01	

Total scenarios = 2

Result key: 3
Scenario 1 Affected station 2
Before Analysis

Results for: 12A PR AGUADILLA BPCDT 20080317AIC CP
HAAT 661.0 m, ATV ERP 7.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2144889	37916.6
not affected by terrain losses	1741612	37295.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	60223	108.1
lost to ATV IX only	60223	108.1
lost to all IX	60223	108.1

Potential Interfering Stations Included in above Scenario 1

11A PR CAGUAS	DTVPLN	DTVP0344	PLN
13A PR FAJARDO	DTVPLN	DTVP0469	PLN

After Analysis

Results for: 12A PR AGUADILLA BPCDT 20080317AIC CP
HAAT 661.0 m, ATV ERP 7.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2144889	37916.6
not affected by terrain losses	1741612	37295.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	134425	368.4
lost to ATV IX only	134425	368.4
lost to all IX	134425	368.4

Potential Interfering Stations Included in above Scenario 1

11A PR CAGUAS	DTVPLN	DTVP0344	PLN
13A PR FAJARDO	DTVPLN	DTVP0469	PLN
13A PR FAJARDO	USERRECORD01		APP

The following station failed the de minimis interference criteria.

13D PR FAJARDO USERRECORD01
ERP 38.00 kW HAAT 855.0 m RCAMSL 1061.0 m
Antenna CDB 00000000085646

Due to interference to the following station and scenario: 1
12D PR AGUADILLA BPCDT 20080317AIC
ERP 7.30 kW HAAT 661.0 m RCAMSL 968.0 m
Antenna CDB 99999999999999

Percent new interference from proposal: 4.4131 to BPCDT 20080317AIC

Result key: 4
Scenario 2 Affected station 2
Before Analysis

Results for: 12A PR AGUADILLA BPCDT 20080317AIC CP
HAAT 661.0 m, ATV ERP 7.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2144889	37916.6
not affected by terrain losses	1741612	37295.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	57132	124.1
lost to ATV IX only	57132	124.1
lost to all IX	57132	124.1

Potential Interfering Stations Included in above Scenario 2

11A PR CAGUAS	BPCDT	20080603ADB	CP
13A PR FAJARDO	DTVPLN	DTVP0469	PLN

After Analysis

Results for: 12A PR AGUADILLA BPCDT 20080317AIC CP
HAAT 661.0 m, ATV ERP 7.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2144889	37916.6
not affected by terrain losses	1741612	37295.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	132498	364.4
lost to ATV IX only	132498	364.4
lost to all IX	132498	364.4

Potential Interfering Stations Included in above Scenario 2

11A PR CAGUAS	BPCDT	20080603ADB	CP
13A PR FAJARDO	DTVPLN	DTVP0469	PLN
13A PR FAJARDO	USERRECORD01		APP

The following station failed the de minimis interference criteria.

13D PR FAJARDO USERRECORD01
ERP 38.00 kW HAAT 855.0 m RCAMSL 1061.0 m
Antenna CDB 00000000085646

Due to interference to the following station and scenario: 2

12D PR AGUADILLA BPCDT 20080317AIC
ERP 7.30 kW HAAT 661.0 m RCAMSL 968.0 m
Antenna CDB 99999999999999

Percent new interference from proposal: 4.4741 to BPCDT 20080317AIC

Worst case new IX 4.4741% Scenario 2

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
12	WOLE	AGUADILLA PR	USERRECORD-02

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WLII	CAGUAS PR	93.1	PLN	DTVPLN	-DTVP0344
11	WLII	CAGUAS PR	93.1	CP	BPCDT	-20080603ADB
13	WORO-TV	FAJARDO PR	126.7	PLN	DTVPLN	-DTVP0469
13	WORO	FAJARDO PR	126.7	APP	USERRECORD-01	

Total scenarios = 2

Result key: 5
Scenario 1 Affected station 3
Before Analysis

Results for: 12A PR AGUADILLA USERRECORD02 APP
HAAT 661.0 m, ATV ERP 47.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2984609	51876.9
not affected by terrain losses	2378935	51096.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	459157	240.3
lost to ATV IX only	459157	240.3
lost to all IX	459157	240.3

Potential Interfering Stations Included in above Scenario 1

11A PR CAGUAS	DTVPLN	DTVP0344	PLN
13A PR FAJARDO	DTVPLN	DTVP0469	PLN

After Analysis

Results for: 12A PR AGUADILLA USERRECORD02 APP
HAAT 661.0 m, ATV ERP 47.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2984609	51876.9
not affected by terrain losses	2378935	51096.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	549854	524.6
lost to ATV IX only	549854	524.6
lost to all IX	549854	524.6

Potential Interfering Stations Included in above Scenario 1

11A PR CAGUAS	DTVPLN	DTVP0344	PLN
13A PR FAJARDO	DTVPLN	DTVP0469	PLN
13A PR FAJARDO	USERRECORD01		APP

The following station failed the de minimis interference criteria.

13D PR FAJARDO USERRECORD01
ERP 38.00 kW HAAT 855.0 m RCAMSL 1061.0 m
Antenna CDB 00000000085646

Due to interference to the following station and scenario: 1

12D PR AGUADILLA USERRECORD02
ERP 47.00 kW HAAT 661.0 m RCAMSL 968.0 m
Antenna none

Percent new interference from proposal: 4.7243 to USERRECORD02

Result key: 6
Scenario 2 Affected station 3
Before Analysis

Results for: 12A PR AGUADILLA USERRECORD02 APP
HAAT 661.0 m, ATV ERP 47.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2984609	51876.9
not affected by terrain losses	2378935	51096.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	513669	384.4
lost to ATV IX only	513669	384.4
lost to all IX	513669	384.4

Potential Interfering Stations Included in above Scenario 2

11A PR CAGUAS	BPCDT	20080603ADB	CP
13A PR FAJARDO	DTVPLN	DTVP0469	PLN

After Analysis

Results for: 12A PR AGUADILLA USERRECORD02 APP
HAAT 661.0 m, ATV ERP 47.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2984609	51876.9
not affected by terrain losses	2378935	51096.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	550218	528.6
lost to ATV IX only	550218	528.6
lost to all IX	550218	528.6

Potential Interfering Stations Included in above Scenario 2

11A PR CAGUAS	BPCDT	20080603ADB	CP
13A PR FAJARDO	DTVPLN	DTVP0469	PLN
13A PR FAJARDO	USERRECORD01		APP

The following station failed the de minimis interference criteria.

13D PR FAJARDO USERRECORD01
ERP 38.00 kW HAAT 855.0 m RCAMSL 1061.0 m
Antenna CDB 00000000085646

Due to interference to the following station and scenario: 2

12D PR AGUADILLA USERRECORD02
ERP 47.00 kW HAAT 661.0 m RCAMSL 968.0 m
Antenna none

Percent new interference from proposal: 1.9595 to USERRECORD02

Worst case new IX 4.7243% Scenario 1

Proposed station is MX

13A PR FAJARDO	USERRECORD01	APP
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12A PR AGUADILLA USERRECORD02 APP

Proposal MX with USERRECORD02 scenario 1 of station 3

Proposed station is MX

13A PR FAJARDO USERRECORD01 APP

12A PR AGUADILLA USERRECORD02 APP

Proposal MX with USERRECORD02 scenario 2 of station 3

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	WORO	FAJARDO PR	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WOLE-TV	AGUADILLA PR	126.7	PLN	DTVPLN -DTVP0402
12	WOLE-TV	AGUADILLA PR	126.7	CP	BPCDT -20080317AIC
12	WOLE	AGUADILLA PR	126.7	APP	USERRECORD-02

Total scenarios = 3

Result key: 7

Scenario 1 Affected station 4

Before Analysis

Results for: 13A PR FAJARDO USERRECORD01 APP

HAAT 855.0 m, ATV ERP 38.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3398874	51727.8
not affected by terrain losses	3201725	50904.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	32186	527.8
lost to ATV IX only	32186	527.8
lost to all IX	32186	527.8

Potential Interfering Stations Included in above Scenario 1

12A PR AGUADILLA DTVPLN DTVP0402 PLN

Result key: 8

Scenario 2 Affected station 4

Before Analysis

Results for: 13A PR FAJARDO USERRECORD01 APP

HAAT 855.0 m, ATV ERP 38.0 kW

POPULATION	AREA (sq km)
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within Noise Limited Contour	3398874	51727.8
not affected by terrain losses	3201725	50904.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	36702	651.7
lost to ATV IX only	36702	651.7
lost to all IX	36702	651.7

Potential Interfering Stations Included in above Scenario 2

12A PR AGUADILLA BPCDT 20080317AIC CP

Result key: 9
 Scenario 3 Affected station 4
 Before Analysis

Results for: 13A PR FAJARDO USERRECORD01 APP
 HAAT 855.0 m, ATV ERP 38.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3398874	51727.8
not affected by terrain losses	3201725	50904.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	73429	1987.1
lost to ATV IX only	73429	1987.1
lost to all IX	73429	1987.1

Potential Interfering Stations Included in above Scenario 3

12A PR AGUADILLA USERRECORD02 APP

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

DTV MAXIMIZATION AGREEMENT

Western Broadcasting Corporation of Puerto Rico, licensee of WOLE-TV and the Catholic, Apostolic & Roman Church in Puerto Rico, licensee of WORO-TV, hereby agree to accept the additional mutual interference beyond the normal FCC standards caused by the proposed maximization of their respective DTV facilities, as outlined below:

WOLE-DT:

Channel: 12

Site NAD27 Coordinates: 18-09-00 / 66-59-00

Antenna RCAMSL: 968 meters

ERP: 47 kW

Antenna type: non-directional

WORO-DT:

Channel 13

Site NAD27 Coordinates: 18-18-36 / 65-47-41

Antenna RCAMSL: 1061 meters

ERP: 38 kW

Antenna type: directional

Antenna rotation: 330°

Antenna Pattern:

0°: 0.990	10°: 0.990	20°: 0.990	30°: 0.995	40°: 0.995	50°: 1.000	60°: 0.995	70°: 0.980	80°: 0.950
90°: 0.905	100°: 0.995	110°: 0.845	120°: 0.775	130°: 0.615	140°: 0.550	150°: 0.500	160°: 0.465	170°: 0.450
180°: 0.445	190°: 0.450	200°: 0.465	210°: 0.500	220°: 0.550	230°: 0.615	240°: 0.695	250°: 0.775	260°: 0.845
270°: 0.905	280°: 0.950	290°: 0.980	300°: 0.995	310°: 1.000	320°: 0.995	330°: 0.995	340°: 0.990	350°: 0.990

Signed in San Juan, Puerto Rico on the 13th day of June, 2008,

For WOLE-TV

For WORO-TV

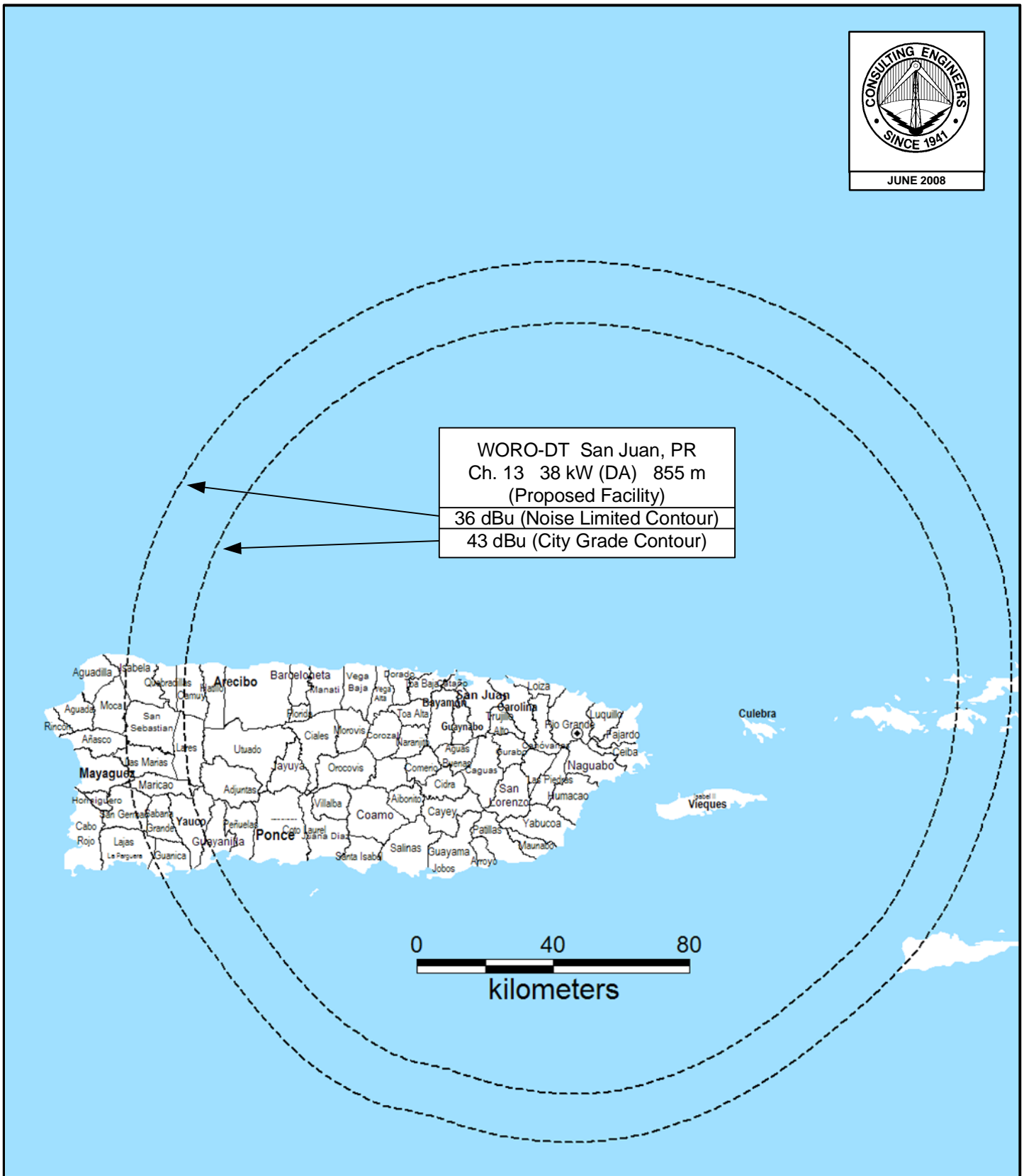
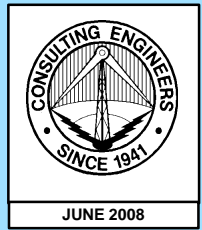


Alfonso Giménez Porrata
Vice-President
Western Broadcasting Corp. of Puerto Rico



Fr. Milton A. Rivera Vigo
Vicar for Social Communications
Archdioceses of San Juan,
Catholic, Apostolic & Roman Church in
Puerto Rico

Figure 1

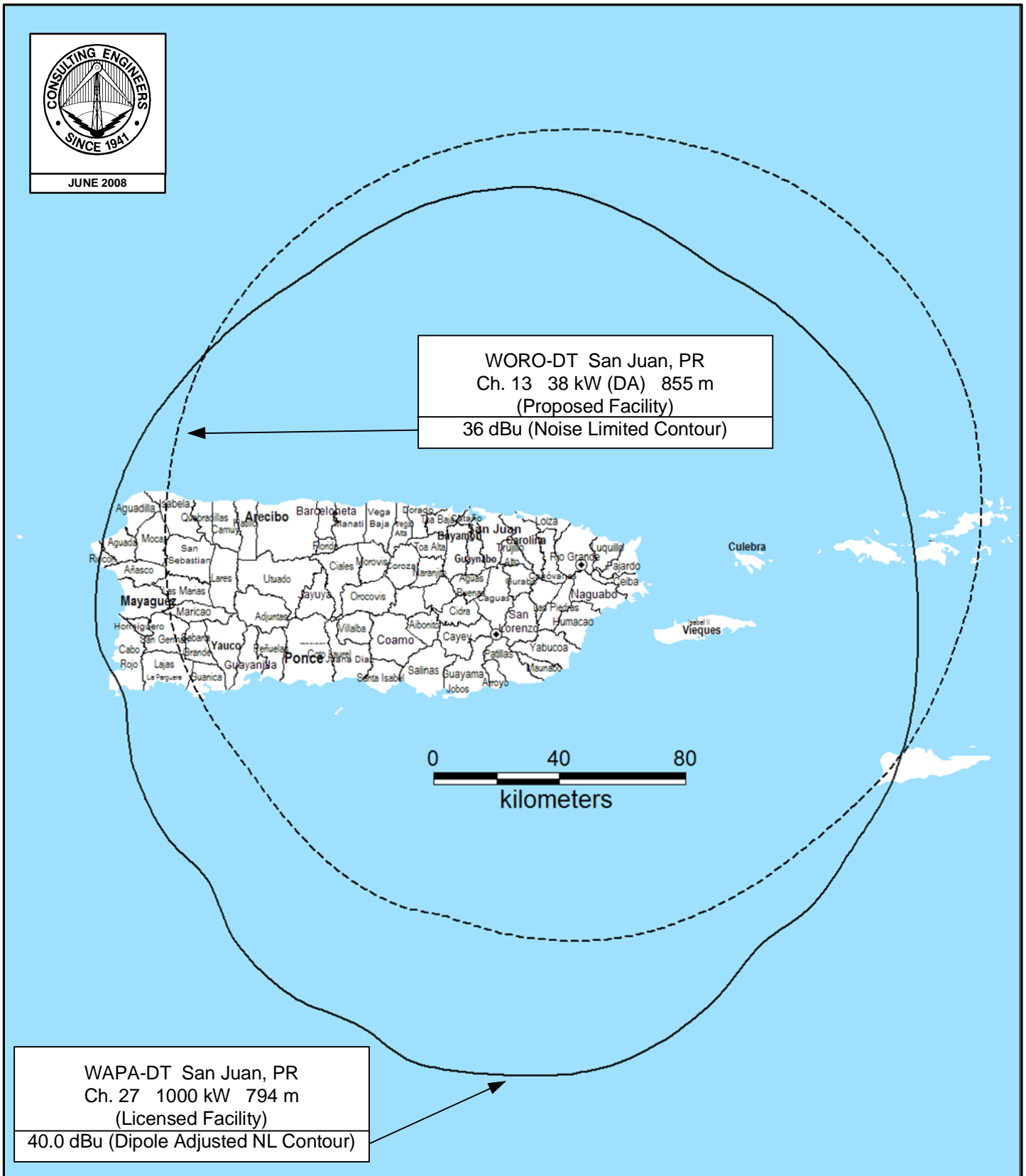


FCC PREDICTED COVERAGE CONTOURS

DTV STATION WORO-DT
SAN JUAN, PUERTO RICO
CH 13 38 KW (DA) 855 M

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

Figure 2



SECTION 73.622(f)(5) COMPLIANCE

DTV STATION WORO-DT
SAN JUAN, PUERTO RICO
CH 13 38 KW (DA) 855 M

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



201 Fletcher Ave.
Sarasota, FL 34237-6019
941-329-6000
941-329-6031 FAX

Grafton Olivera
Direct Dial 941-329-6001
e-mail: grifton@dlr.com

June 17, 2008

Via email (prcz@naic.edu)

Reinaldo Velez, Spectrum Manager
National Astronomy and Ionosphere Center
Arecibo Observatory
HC3 Box 53995
Arecibo, PR 00612

Gentlemen:

On behalf of our client, Television Station WORO-DT, applicant for post transition digital television station on Channel 13, Fajardo, Puerto Rico, in accordance with Section 73.1030 of the FCC Rules, we are hereby notifying you of the proposed facility. The particulars of the proposal are as follows:

Proposed Facility

Geographical coordinates of antenna location (NAD83): 18-18-28.8 / 65-47-39.6
Antenna height: 48 m AGL; 1053 m AMSL
Antenna directivity: 12.15 dBi
Antenna orientation: 330° true
Proposed channel: 13 (210-216 MHz)
Type of emission: 6M00D7W
Effective isotropic radiated power: 62.3 kW (Maximum, Circular polarization)

Please note that the proposed facility is for a digital television station on Channel 13 that will begin operation after the DTV transition date of February 17, 2009. The current analog television operations of Channel 13 (WORO-TV) will be discontinued at that date.

Should you find any adverse effect from this proposal, please communicate via email (<mailto:grifton@dlr.com>), fax (941-329-6031) or regular mail, so appropriate action can be taken.

Very truly yours,

Grafton Olivera, P.E.