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Consulting Engineer

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: W08EJ PROPOSED 3KW, Model: Longley-Rice
Start: 2018.11.27 11:23:56

Study created: 2018.11.25 18:05:58

Study build station data: LMS TV 2018-11-19

Proposal: W08EJ-D D8 LD APP ANASCO, PR
File number: W08EJ APP 3KW 90T
Facility ID: 181399
Station data: User record
Record ID: 470
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	68.7 km
No	W08AB	N8	TX	LIC	GUAYAMA, PR	BLTTV19891030JK	116.6
No	W08EI-D	D8	LD	LIC	GUAYNABO, PR	BLDVL20140602AAJ	114.9
Yes	W08EI-D	D8	LD	CP	GUAYNABO, PR	BLANK0000058332	130.8
Yes	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	68.7
No	W09AT	N9	TX	LIC	FAJARDO, PR	BLTTV4217	161.2
Yes	WSUR-DT	D9	DT	LIC	PONCE, PR	BLCDT20090616ACM	65.9
Yes	WSUR-DT	D9	DT	APP	PONCE, PR	BMPCDT20091113ADM	65.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D8
Mask: Full Service
Latitude: 18 18 45.65 N (NAD83)
Longitude: 67 10 55.88 W
Height AMSL: 386.8 m
HAAT: 335.7 m
Peak ERP: 3.00 kW
Antenna: SCA-DRV SMRADIUS ARRAY
Elev Pattn: Generic
Elec Tilt: 1.50

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.919 kW	363.1 m	57.6 km
45.0	2.56	286.3	60.1
90.0	3.00	229.0	58.0
135.0	2.56	294.5	60.5
180.0	0.919	386.5	59.0
225.0	0.003	386.8	19.6
270.0	0.160	380.2	45.5
315.0	0.003	359.3	18.8

Distance to Canadian border: 2940.5 km

Distance to Mexican border: 3170.1 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 111.7 degrees Distance: 91.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 311.9 degrees Distance: 4364.4 km

Study cell size: 1.00 km

Profile point spacing: 0.14 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

Interference to BLANK0000058332 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W08EI-D	D8	LD	CP	GUAYNABO, PR	BLANK0000058332	
Undesireds:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T	130.8 km
	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	66.0
	W08AB	N8	TX	LIC	GUAYAMA, PR	BLTTV19891030JK	33.3
	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	66.0
	WSUR-DT	D9	DT	LIC	PONCE, PR	BLCDT20090616ACM	68.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
10070.7 2,361,215	9058.8 2,246,687	8665.7 2,216,491	8658.8 2,215,257	0.08 0.06

Undesired	Total IX	Unique IX, before	Unique IX, after
W08EJ-D D8 LD APP	13.8 2,347	6.9 1,234	
WSTE-DT D7 DD LIC	18.7 17,201	7.9 13,927	
W08AB N8 TX LIC	6.9 44	0.0 0	
W08EH-D D8 LD LIC	374.3 11,804	357.6 9,633	
WSUR-DT D9 DT LIC	13.8 5,035	7.9 2,908	

Interference to BLANK0000058332 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W08EI-D	D8	LD	CP	GUAYNABO, PR	BLANK0000058332	
Undesireds:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T	130.8 km
	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	66.0
	W08AB	N8	TX	LIC	GUAYAMA, PR	BLTTV19891030JK	33.3
	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	66.0
	WSUR-DT	D9	DT	APP	PONCE, PR	BMPCDT20091113ADM	68.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
10070.7 2,361,215	9058.8 2,246,687	8656.9 2,213,305	8651.0 2,213,001	0.07 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
W08EJ-D D8 LD APP	13.8 2,347	5.9 304	
WSTE-DT D7 DD LIC	18.7 17,201	7.9 13,927	
W08AB N8 TX LIC	6.9 44	0.0 0	
W08EH-D D8 LD LIC	374.3 11,804	352.6 9,633	
WSUR-DT D9 DT APP	30.5 8,488	16.7 6,094	

Interference to BLANK0000029243 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	

Undesireds:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T	68.7 km
	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	0.1
	W08AB	N8	TX	LIC	GUAYAMA, PR	BLTTV19891030JK	47.9
	W08EI-D	D8	LD	LIC	GUAYNABO, PR	BLDVL20140602AAJ	50.3
	WSUR-DT	D9	DT	LIC	PONCE, PR	BLCDT20090616ACM	3.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
15071.2 1,699,238	13645.9 1,260,423	3476.5 1,228,611	13275.3 1,217,741	1.49 0.88

Undesired	Total IX	Unique IX, before	Unique IX, after
W08EJ-D D8 LD APP	283.9 15,066	201.2 10,870	
WSTE-DT D7 DD LIC	26.6 9,399	18.7 4,443	13.8 3,832
W08AB N8 TX LIC	7.9 7,708	7.9 7,708	7.9 7,708
W08EI-D D8 LD LIC	7.9 5,702	1.0 751	1.0 751
WSUR-DT D9 DT LIC	136.8 15,487	133.9 13,954	57.1 10,374

Interference to BLANK0000029243 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	

Undesireds:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T	68.7 km
	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	0.1
	W08AB	N8	TX	LIC	GUAYAMA, PR	BLTTV19891030JK	47.9
	W08EI-D	D8	LD	LIC	GUAYNABO, PR	BLDVL20140602AAJ	50.3
	WSUR-DT	D9	DT	APP	PONCE, PR	BMPCDT20091113ADM	3.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
15071.2 1,699,238	13645.9 1,260,423	13301.5 1,224,920	13106.1 1,214,050	1.47 0.89

Undesired	Total IX	Unique IX, before	Unique IX, after
W08EJ-D D8 LD APP	283.9 15,066	195.3 10,870	
WSTE-DT D7 DD LIC	26.6 9,399	17.7 4,149	12.8 3,538
W08AB N8 TX LIC	7.9 7,708	7.9 7,708	7.9 7,708
W08EI-D D8 LD LIC	7.9 5,702	1.0 751	1.0 751
WSUR-DT D9 DT APP	312.8 19,472	308.9 17,645	226.3 14,065

Interference to BLANK0000029243 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	

Undesireds:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T	68.7 km
	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	0.1
	W08AB	N8	TX	LIC	GUAYAMA, PR	BLTTV19891030JK	47.9
	W08EI-D	D8	LD	CP	GUAYNABO, PR	BLANK0000058332	66.0
	WSUR-DT	D9	DT	LIC	PONCE, PR	BLCDT20090616ACM	3.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
15071.2 1,699,238	13645.9 1,260,423	13231.6 1,220,148	13036.3 1,209,278	1.48 0.89

Undesired	Total IX	Unique IX, before	Unique IX, after
W08EJ-D D8 LD APP	283.9 15,066	195.3 10,870	
WSTE-DT D7 DD LIC	26.6 9,399	16.8 4,326	11.8 3,715
W08AB N8 TX LIC	7.9 7,708	7.9 7,708	7.9 7,708
W08EI-D D8 LD CP	336.4 19,380	245.9 9,214	240.0 9,214
WSUR-DT D9 DT LIC	136.8 15,487	52.2 8,856	43.4 6,761

Interference to BLANK0000029243 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	
Undesireds:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T	68.7 km
	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	0.1
	W08AB	N8	TX	LIC	GUAYAMA, PR	BLTTV19891030JK	47.9
	W08EI-D	D8	LD	CP	GUAYNABO, PR	BLANK0000058332	66.0
	WSUR-DT	D9	DT	APP	PONCE, PR	BMPCDT20091113ADM	3.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
15071.2	1,699,238	13645.9	1,260,423	13195.2	1,216,457	12999.9 1,205,587	1.48 0.89
Undesired		Total IX		Unique IX, before		Unique IX, after	
W08EJ-D	D8 LD APP	283.9	15,066			195.3 10,870	
WSTE-DT	D7 DD LIC	26.6	9,399	16.8	4,326	11.8 3,715	
W08AB	N8 TX LIC	7.9	7,708	7.9	7,708	7.9 7,708	
W08EI-D	D8 LD CP	336.4	19,380	107.3	9,214	107.3 9,214	
WSUR-DT	D9 DT APP	312.8	19,472	88.6	12,547	79.8 10,452	

Interference to BLCDT20090616ACM LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSUR-DT	D9	DT	LIC	PONCE, PR	BLCDT20090616ACM	
Undesireds:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T	65.9 km
	W10BG-D	D10	DC	LIC	MAYAGUEZ, PR	BLANK0000001598	65.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
51096.5	3,716,156	50661.1	3,655,678	50659.2	3,654,494	50633.5 3,639,236	0.05 0.42
Undesired		Total IX		Unique IX, before		Unique IX, after	
W08EJ-D	D8 LD APP	25.6	15,258			25.6 15,258	
W10BG-D	D10 DC LIC	2.0	1,184	2.0	1,184	2.0 1,184	

Interference to BMPCDT20091113ADM APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSUR-DT	D9	DT	APP	PONCE, PR	BMPCDT20091113ADM	
Undesireds:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T	65.9 km
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
57829.4	3,723,930	57373.5	3,678,231	57373.5	3,678,231	57360.7 3,670,955	0.02 0.20
Undesired		Total IX		Unique IX, before		Unique IX, after	
W08EJ-D	D8 LD APP	12.8	7,276			12.8 7,276	

Interference to proposal scenario 1
4.76% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T	
Undesireds:	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	68.7 km
	W08EI-D	D8	LD	LIC	GUAYNABO, PR	BLDVL20140602AAJ	114.9
	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	68.7
	WSUR-DT	D9	DT	LIC	PONCE, PR	BLCDT20090616ACM	65.9
Service area		Terrain-limited		IX-free		Percent IX	
8345.3	911,002	7850.4	795,091	6543.1	757,258	16.65 4.76	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WSTE-DT	D7 DD LIC	10.8	2,245	0.0	0	0.00 0.00	
W08EH-D	D8 LD LIC	1250.2	17,159	1195.0	11,225	15.22 1.41	
WSUR-DT	D9 DT LIC	111.2	26,608	54.1	19,568	0.69 2.46	

Interference to proposal scenario 2

**MX: 6.89% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T			
Undesireds:	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	68.7 km		
	W08EI-D	D8	LD	LIC	GUAYNABO, PR	BLDVL20140602AAJ	114.9		
	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	68.7		
	WSUR-DT	D9	DT	APP	PONCE, PR	BMPCDT20091113ADM	65.9		
Service area		Terrain-limited			IX-free	Percent IX			
8345.3	911,002	7850.4	795,091	6461.5	740,286	17.69	6.89		
Undesired				Total IX		Unique IX	Prcnt Unique IX		
WSTE-DT	D7	DD	LIC	10.8	2,245	0.0	0	0.00	0.00
W08EH-D	D8	LD	LIC	1250.2	17,159	1068.9	10,693	13.62	1.34
WSUR-DT	D9	DT	APP	319.0	44,112	135.8	36,540	1.73	4.60

Interference to proposal scenario 3

7.19% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T			
Undesireds:	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	68.7 km		
	W08EI-D	D8	LD	CP	GUAYNABO, PR	BLANK0000058332	130.8		
	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	68.7		
	WSUR-DT	D9	DT	LIC	PONCE, PR	BLCDT20090616ACM	65.9		
Service area		Terrain-limited			IX-free	Percent IX			
8345.3	911,002	7850.4	795,091	6303.2	737,933	19.71	7.19		
Undesired				Total IX		Unique IX	Prcnt Unique IX		
WSTE-DT	D7	DD	LIC	10.8	2,245	0.0	0	0.00	0.00
W08EI-D	D8	LD	CP	534.9	42,499	239.9	19,325	3.06	2.43
W08EH-D	D8	LD	LIC	1250.2	17,159	980.8	11,225	12.49	1.41
WSUR-DT	D9	DT	LIC	111.2	26,608	10.8	3,081	0.14	0.39

Interference to proposal scenario 4

**MX: 7.90% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	W08EJ-D	D8	LD	APP	ANASCO, PR	W08EJ APP 3KW 90T			
Undesireds:	WSTE-DT	D7	DD	LIC	PONCE, PR	BLCDT20120720ADV	68.7 km		
	W08EI-D	D8	LD	CP	GUAYNABO, PR	BLANK0000058332	130.8		
	W08EH-D	D8	LD	LIC	PONCE, PR	BLANK0000029243	68.7		
	WSUR-DT	D9	DT	APP	PONCE, PR	BMPCDT20091113ADM	65.9		
Service area		Terrain-limited			IX-free	Percent IX			
8345.3	911,002	7850.4	795,091	6283.5	732,316	19.96	7.90		
Undesired				Total IX		Unique IX	Prcnt Unique IX		
WSTE-DT	D7	DD	LIC	10.8	2,245	0.0	0	0.00	0.00
W08EI-D	D8	LD	CP	534.9	42,499	177.9	7,970	2.27	1.00
W08EH-D	D8	LD	LIC	1250.2	17,159	906.7	10,693	11.55	1.34
WSUR-DT	D9	DT	APP	319.0	44,112	30.5	8,698	0.39	1.09