

ENGINEERING STATEMENT
RE APPLICATION FOR AUXILIARY OPERATION
ON BEHALF OF
KSLS, INC., DEBTOR-IN-POSSESSION
KIKU-DT, HONOLULU, HAWAII
CHANNEL 19 40.2 KW MAX (H) DA ERP 525 METERS HAAT

APRIL 2012

COHEN, DIPPELL AND EVERIST, P.C.
CONSULTING ENGINEERS
RADIO AND TELEVISION
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington)
) ss
District of Columbia)

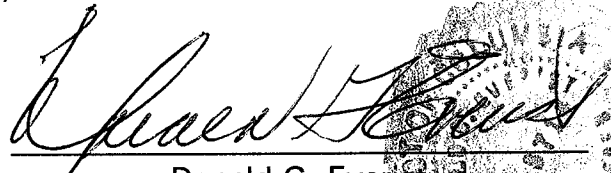
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1420 N Street, N.W., Suite One, Washington, D.C. 20005;

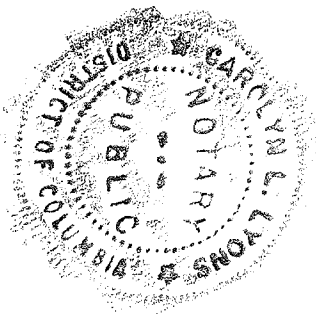
That his qualifications are a matter of record in the Federal Communications Commission;

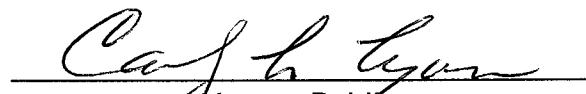
That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.


Donald G. Everist
District of Columbia
Professional Engineer
Registration No. 5714

Subscribed and sworn to before me this 30th day of April, 2012.




Notary Public

My Commission Expires: 2/28/2013

This engineering statement has been prepared in support of an application for auxiliary operation on behalf of KSLS, Inc., Debtor-in-Possession. KIKU-DT is licensed for Honolulu, Hawaii. The purpose of this application is to authorize auxiliary facilities so that the tower supporting the main antenna can be replaced.

KIKU-TV was licensed to operate on NTSC television Channel 20 with a maximum visual ERP of 468 kW directional and a HAAT of 606 meters. KIKU-DT has been allocated DTV Channel 19 with facilities of 60.7 kW directional ERP and HAAT of 606 meters in the final DTV Table of Allotments.¹ These are the facilities for which KIKU-DT is currently licensed. KIKU-DT received a construction permit (FCC File No. BPCDT-20080619ACT) to operate with 215.9 kW (directional) using the existing antenna at its current location.

There are no AM stations located within 3.2 km of the proposed KIKU-DT tower site. There are seven FM stations transmitting from the same site.

The auxiliary DTV antenna will be side-mounted on the new replacement tower.² The existing transmitter site is located on Palikea Ridge, 4 km SE of Palikea, Hawaii. The registration number for the main tower on which the licensed main operation is located is 1031769. The new auxiliary tower will be immediately adjacent to the existing taller tower.

¹“In the Matter of Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service”, MM Docket 87-268, Memorandum Opinion and Order on Reconsideration of the Seventh Report and Order and Eighth Report & Order (FCC 08-72) Appendix B, Released March 6, 2008.

²The current KIKU-DT antenna on the main tower will be removed and relocated later on a new replacement tower. With the side-mounted auxiliary antenna, a total overall structure height above ground of 41.1 meters (135 feet).

The owner of the new auxiliary tower, Cox Radio, Inc. indicates FAA airspace approval is not required.

The geographic coordinates of the proposed site are as follows:

North Latitude: 21° 23' 52.1"

West Longitude: 158° 06' 1.1"

NAD-27

Equipment Data

Antenna: Andrew, Model ALP12M2-ESD-20 elliptically polarized antenna with 0.5° electrical beam tilt. The main lobe is oriented at N 100°E. The vertical plane pattern and other exhibits required by Section 73.625(c) are herein included as Exhibit E-1.

Transmission Line: 50.3 meters (165 ft) of Andrew, Type HJ-50A, 1-5/8" air dielectric coaxial cable (or equivalent)

Power Data

Transmitter output	1.0 kW	0 dBk
Total Transmission line efficiency/loss	83.4%	0.788 dB
Input power to the antenna	0.834 kW	-0.788 dBk
Antenna power gain,		
Main Lobe Horizontal	48.21	16.83 dBk
Vertical	9.64	9.84
Maximum Effective Radiated Power		
Horizontal	40.2 kW	16.04 dBk
Vertical	8.03 kW	9.04 dBk

Elevation Data

Vertical dimension for Channel 19 antenna	9.4 meters 30.8 feet
Overall height above ground of the proposed structure (including appurtenances)	41.1 meters 135 feet
Center of radiation of Channel 19 antenna above ground	36.1 meters 118.5 feet
Elevation of site above mean sea level	688.8 meters 2260 feet
Center of radiation of Channel 19 antenna above mean sea level	724.9 meters 2378.4 feet
Overall height above mean sea level of proposed structure (including appurtenances)	729.9 meters 2395 feet
Antenna height above average terrain	525 meters

Note: Slight height differences may result due to conversion to metric.

Coverage

The average elevation data for 3.2 to 16.1 km along each radial are based upon NGDC 30-second terrain data. The F(50,90) DTV coverage contour has been computed from reference to the propagation data for Channels 14-69, as published by the FCC in Figure 10b and Figure 10c, Section 73.699 of the FCC Rules and Regulations. Utilizing the formula in Section 73.625(b)(2) of the Rules for the effective heights, it is found that the depression angle, A_h , varies from 0.38 to 0.72 degrees. Since the relative vertical field is greater than 90% of the maximum at these depression angles, the maximum power was used in determining the distance to the DTV contour.

Table I includes the distances to the 48 and 41 dBu F(50,90) coverage contours, the average elevation 3.2 to 16.1 km, and the antenna heights above average terrain and the directional ERP of 40.2 kW every 10 degrees beginning with true north. Exhibit E-2 provides the 48 and 41 dBu F(50,90) coverage contours and demonstrates that the community of license is covered by the F(50,90) 48 dBu contour. Also provided (Exhibit E-3) is the licensed operation and that the proposed auxiliary's predicted 41 dBu contour is totally contained within the predicted 41 dBu contour of the licensed main operation.

Allocation

An allocation study from the proposed site has not been performed since the proposed DTV facilities are less than that authorized.

Section 0.121 of the FCC Rules

The proposed operation at 40.2 kW will operate with lower ERP and a lower height than the authorized KIKW-DT licensed 60.7 kW at 606.4 meters HAAT. Therefore, this proposed operation is in compliance with Section 0.121 of the FCC Rules.

Interference Analysis

Out of abundance of caution, a study of predicted interference caused by a proposed KIKU-DT 40.2 kW operation has been performed using a version of the Longley-Rice program as described in OET Bulletin No. 69 (February 6, 2004) and the Public Notice, "Additional Application Processing Guidelines for Digital Television (DTV)" (August 1998). The FCC's FORTRAN-77 code was modified only to the extent necessary (primarily input/output handling) for the program to run

on a WindowsXP platform. Comparison of service/interference areas and population indicates that this model closely matches the FCC's evaluation program. Best efforts have been made to use data and calculation identical to the FCC's program. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 2 sq. km. Using 30-second terrain data sampled approximately every 1.0 km at one-degree azimuth intervals with 2000 census centroids, all studies are based upon data in the current CDBS database update of the FCC's engineering database and the final DTV Table of Allotments. A Longley-Rice study was performed with the proposed KIKU-DT proposed auxiliary facilities operating at 40.2 kW and all relevant stations listed in the FCC database as of April 25, 2012. The study results find no interference, therefore, the proposed auxiliary operation will fully protect all domestically authorized stations.

FCC Rule, Section 1.1307

The proposed operation based upon the current OET Bulletin No. 65, Edition No. 97-01, dated August 1997 and Supplement A is predicted to cause less than eight percent of the radiofrequency (RFF) guideline for controlled access.

However, seven FM stations will be transmitting from the proposed tower using a 14-bay master antenna. The site operator, Cox Radio, Inc., had RFF measurements made at the site in 2005. The licensee states that the measured RFF levels exceed the general public guidelines, but not the controlled access guideline at several points within the restricted fenced area. Cox Radio, Inc. has filed for auxiliary operation (FCC File No. BXPB-20120329AIN). Cox Radio indicates it will make

appropriate broadband measurements across the property and file them with the FM license application for its FM station.

Prior broadband measurements were made with both the analog and DTV transmitters operating at full authorized power. Therefore, it is expected that the total RFF contribution by KIKU will have decreased with cessation of its analog operation.

According to the licensee, the site operator Cox Radio, Inc. has:

- has posted the necessary signage
- notifies and trains all employees and contractors that have access to the site
- has established procedures to prevent public access to the restricted areas

Authorized personnel and rigging contractors in conjunction with the tower owner will be alerted to the potential zone of high field levels on the tower, and if necessary, the station will operate with reduced power or terminate the operation of the transmitter as appropriate when it is necessary for authorized personnel or contractors to perform work on the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.

Environmental Assessment

An environmental assessment ("EA") has been performed for the location of the proposed tower and the applicant understands based on the information supplied by Cox Radio, Inc.

- (a)(1) The proposed tower is not located in an officially designated wilderness area.

- (a)(2) The proposed tower is not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.
- (a)(4) The proposed facilities located on a new tower which was subject to environmental assessment will not affect any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The proposed tower is not located near any known Indian religious sites.
- (a)(6) The proposed tower is not located in a flood plain.
- (a)(7) The installation of the DTV facilities on the proposed tower will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) The tower lighting is not proposed unless required by the FAA.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines contained in OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.

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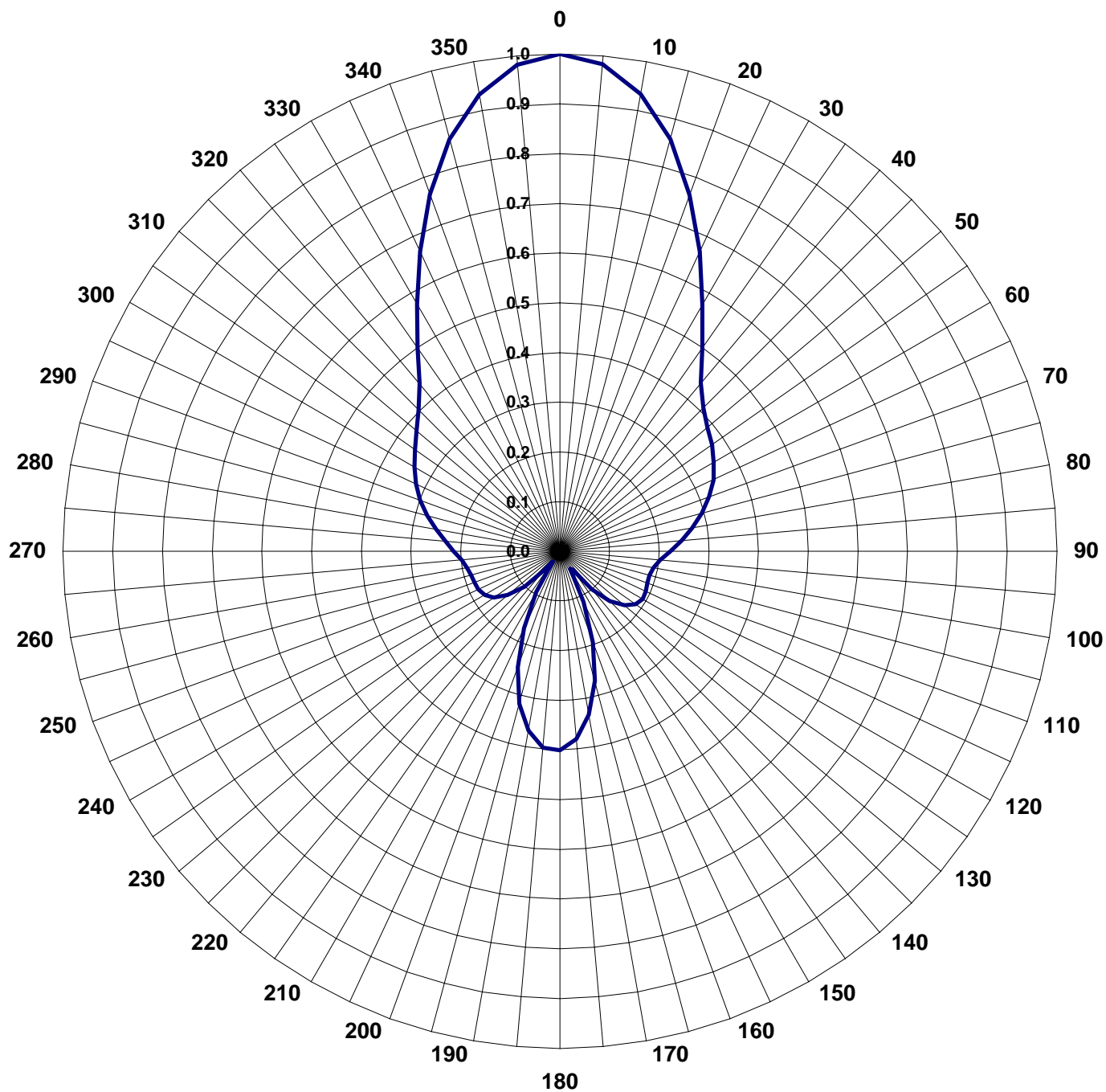
EXHIBIT E-1

ANTENNA MANUFACTURER DATA

KIKU-DT, HONOLULU, HAWAII

AZIMUTH PATTERN**TYPE:****ALP-D****Frequency:****20 (DTV)****Directivity:****Numeric****dB****5.37****7.30****Location:****Honolulu, HI****Polarization:****Horizontal/Vertical****Peak(s) at:**

Note: Simulated pattern. Shape and directivity may vary with actual configuration.



TABULATED DATA FOR AZIMUTH PATTERN

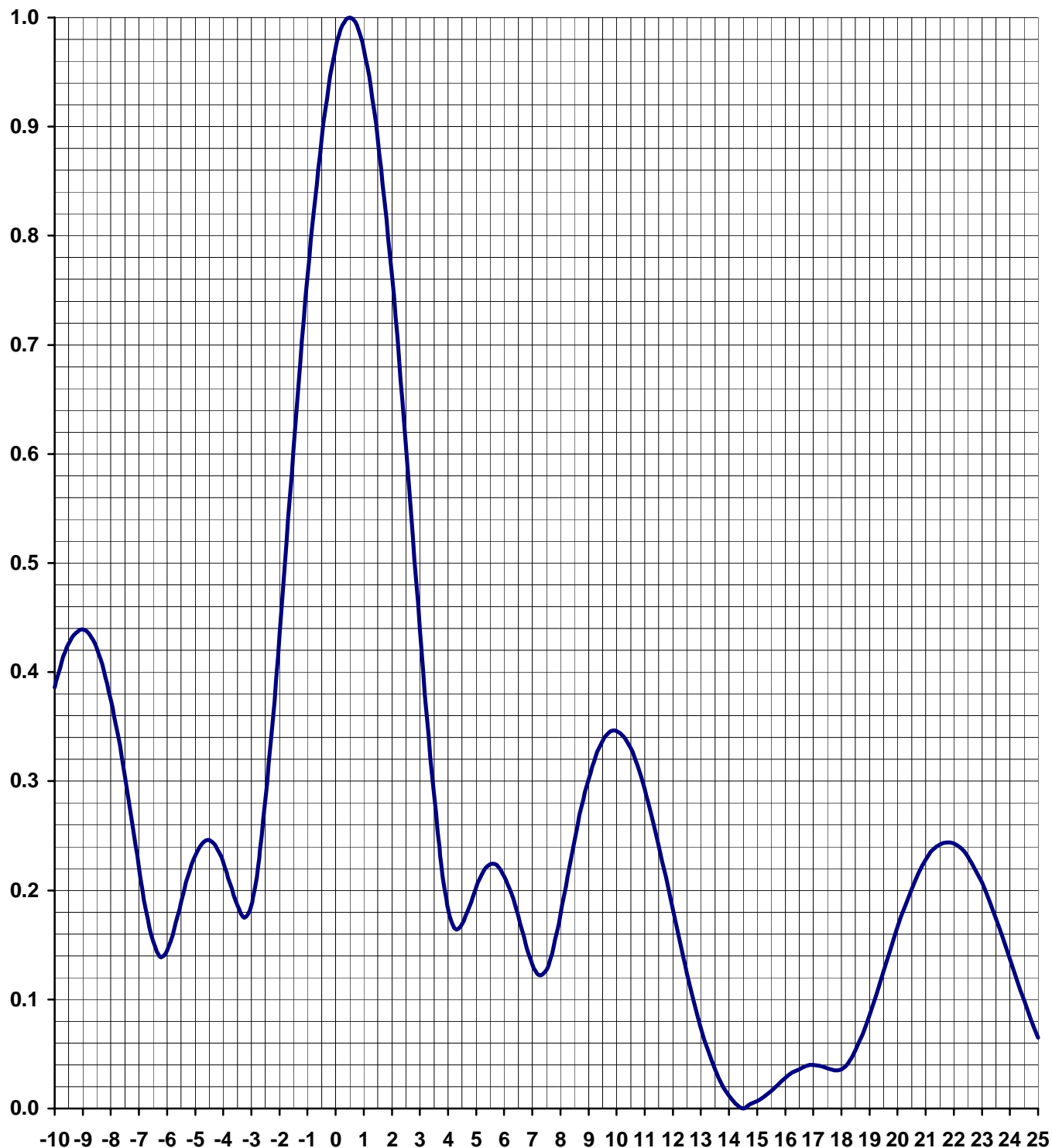
TYPE: ALP-D

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.214	-13.39	184	0.399	-7.98	276	0.236	-12.54
2	0.998	-0.02	94	0.207	-13.68	186	0.392	-8.13	278	0.244	-12.25
4	0.989	-0.10	96	0.200	-13.98	188	0.381	-8.38	280	0.253	-11.94
6	0.975	-0.22	98	0.195	-14.20	190	0.366	-8.73	282	0.262	-11.63
8	0.957	-0.38	100	0.191	-14.38	192	0.348	-9.17	284	0.271	-11.34
10	0.934	-0.59	102	0.189	-14.47	194	0.326	-9.74	286	0.281	-11.03
12	0.905	-0.87	104	0.187	-14.56	196	0.303	-10.37	288	0.290	-10.75
14	0.872	-1.19	106	0.186	-14.61	198	0.277	-11.15	290	0.299	-10.49
16	0.839	-1.52	108	0.186	-14.61	200	0.248	-12.11	292	0.308	-10.23
18	0.802	-1.92	110	0.187	-14.56	202	0.219	-13.19	294	0.316	-10.01
20	0.762	-2.36	112	0.189	-14.47	204	0.187	-14.56	296	0.324	-9.79
22	0.725	-2.79	114	0.190	-14.42	206	0.155	-16.19	298	0.331	-9.60
24	0.685	-3.29	116	0.191	-14.38	208	0.125	-18.06	300	0.338	-9.42
26	0.644	-3.82	118	0.192	-14.33	210	0.094	-20.54	302	0.345	-9.24
28	0.608	-4.32	120	0.192	-14.33	212	0.065	-23.74	304	0.353	-9.04
30	0.573	-4.84	122	0.190	-14.42	214	0.036	-28.87	306	0.360	-8.87
32	0.539	-5.37	124	0.188	-14.52	216	0.017	-35.39	308	0.368	-8.68
34	0.511	-5.83	126	0.184	-14.70	218	0.028	-31.06	310	0.376	-8.50
36	0.485	-6.29	128	0.178	-14.99	220	0.050	-26.02	312	0.385	-8.29
38	0.461	-6.73	130	0.170	-15.39	222	0.071	-22.97	314	0.396	-8.05
40	0.442	-7.09	132	0.160	-15.92	224	0.091	-20.82	316	0.408	-7.79
42	0.426	-7.41	134	0.149	-16.54	226	0.109	-19.25	318	0.423	-7.47
44	0.413	-7.68	136	0.134	-17.46	228	0.124	-18.13	320	0.440	-7.13
46	0.402	-7.92	138	0.117	-18.64	230	0.138	-17.20	322	0.462	-6.71
48	0.394	-8.09	140	0.100	-20.00	232	0.149	-16.54	324	0.486	-6.27
50	0.387	-8.25	142	0.078	-22.16	234	0.158	-16.03	326	0.514	-5.78
52	0.381	-8.38	144	0.057	-24.88	236	0.166	-15.60	328	0.542	-5.32
54	0.377	-8.47	146	0.036	-28.87	238	0.171	-15.34	330	0.574	-4.82
56	0.370	-8.64	148	0.026	-31.70	240	0.175	-15.14	332	0.610	-4.29
58	0.363	-8.80	150	0.040	-27.96	242	0.178	-14.99	334	0.647	-3.78
60	0.357	-8.95	152	0.068	-23.35	244	0.180	-14.89	336	0.686	-3.27
62	0.352	-9.07	154	0.099	-20.09	246	0.182	-14.80	338	0.726	-2.78
64	0.345	-9.24	156	0.130	-17.72	248	0.182	-14.80	340	0.764	-2.34
66	0.337	-9.45	158	0.163	-15.76	250	0.183	-14.75	342	0.801	-1.93
68	0.329	-9.66	160	0.194	-14.24	252	0.183	-14.75	344	0.840	-1.51
70	0.320	-9.90	162	0.223	-13.03	254	0.184	-14.70	346	0.873	-1.18
72	0.311	-10.14	164	0.255	-11.87	256	0.185	-14.66	348	0.904	-0.88
74	0.301	-10.43	166	0.284	-10.93	258	0.187	-14.56	350	0.933	-0.60
76	0.291	-10.72	168	0.311	-10.14	260	0.190	-14.42	352	0.956	-0.39
78	0.282	-11.00	170	0.334	-9.53	262	0.192	-14.33	354	0.975	-0.22
80	0.270	-11.37	172	0.355	-9.00	264	0.197	-14.11	356	0.989	-0.10
82	0.260	-11.70	174	0.371	-8.61	266	0.202	-13.89	358	0.997	-0.03
84	0.251	-12.01	176	0.385	-8.29	268	0.207	-13.68	360	1.000	0.00
86	0.240	-12.40	178	0.394	-8.09	270	0.214	-13.39			
88	0.231	-12.73	180	0.400	-7.96	272	0.221	-13.11			
90	0.222	-13.07	182	0.401	-7.94	274	0.228	-12.84			

ELEVATION PATTERN

TYPE:	ALP12M2H	
Directivity:	Numeric	dBd
Main Lobe:	12.64	11.02
Horizontal:	11.94	10.77

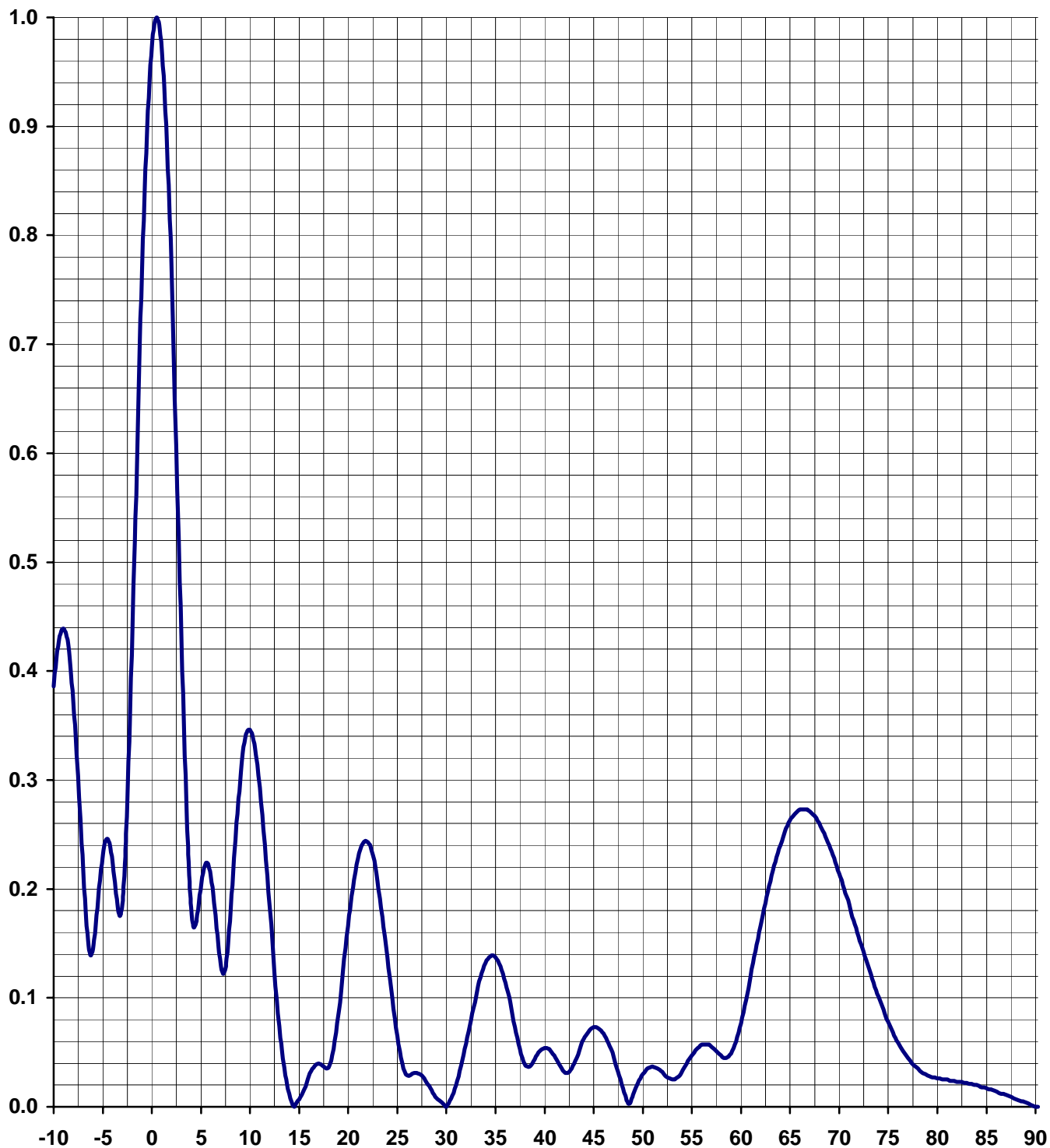
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Location:	Honolulu, HI
Beam Tilt:	0.50
Polarization:	Horizontal



ELEVATION PATTERN

TYPE:	ALP12M2H	
Directivity:	Numeric	dBd
Main Lobe:	12.64	11.02
Horizontal:	11.94	10.77

Frequency:	20 (DTV)
Location:	Honolulu, HI
Beam Tilt:	0.50
Polarization:	Horizontal



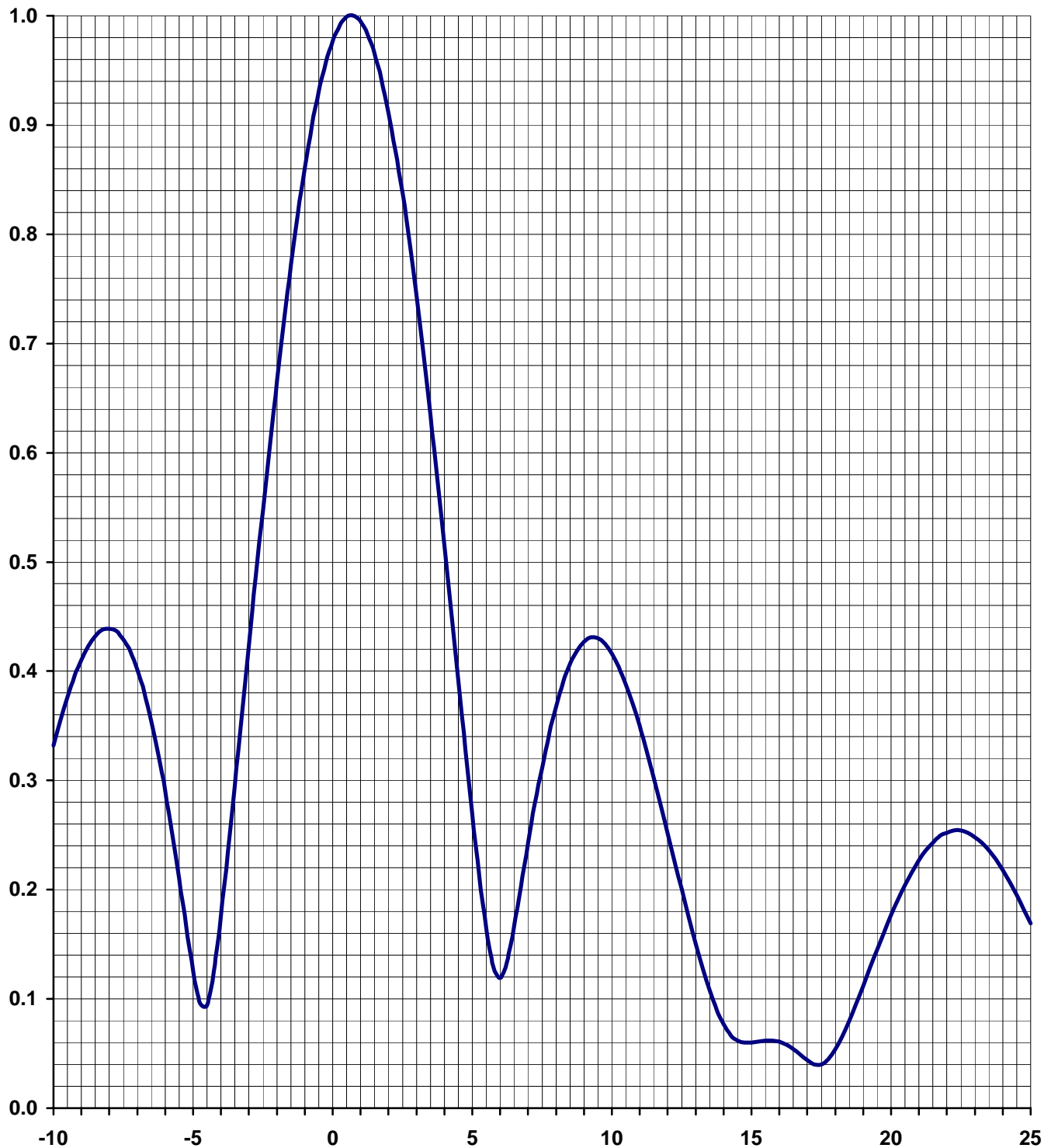
TABULATED DATA FOR ELEVATION PATTERN

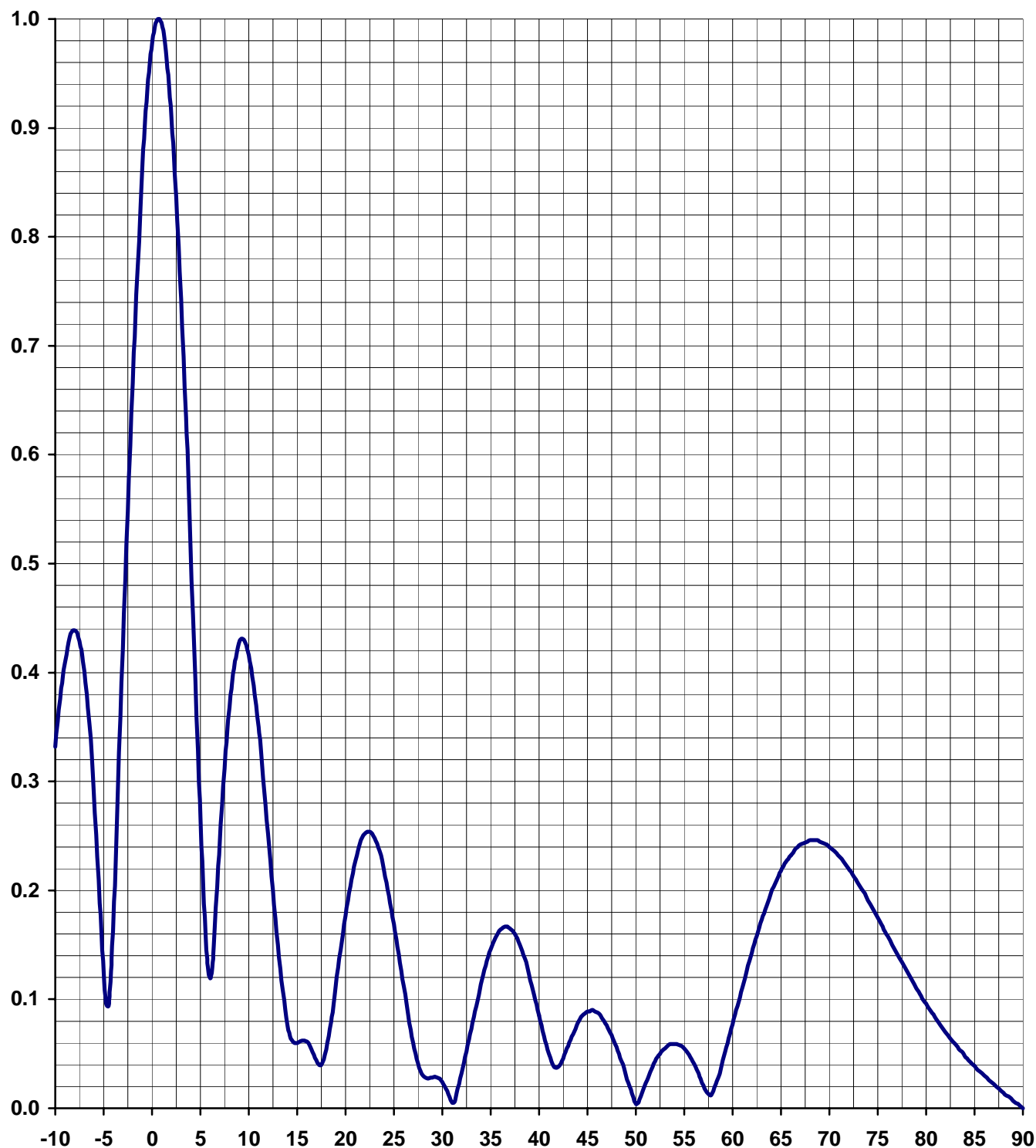
TYPE ALP12M2H			-5 to 10 degrees in 0.25 increments						10 to 90 degrees in 0.50 increments					
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-10.00	0.386	-8.27	2.00	0.763	-2.35	18.00	0.036	-28.87	42.00	0.032	-29.90	66.00	0.273	-11.28
-9.75	0.409	-7.77	2.25	0.688	-3.25	18.50	0.053	-25.51	42.50	0.032	-29.90	66.50	0.273	-11.28
-9.50	0.426	-7.41	2.50	0.607	-4.34	19.00	0.086	-21.31	43.00	0.040	-27.96	67.00	0.271	-11.34
-9.25	0.436	-7.21	2.75	0.524	-5.61	19.50	0.126	-17.99	43.50	0.051	-25.85	67.50	0.267	-11.47
-9.00	0.439	-7.15	3.00	0.440	-7.13	20.00	0.166	-15.60	44.00	0.062	-24.15	68.00	0.260	-11.70
-8.75	0.434	-7.25	3.25	0.360	-8.87	20.50	0.201	-13.94	44.50	0.069	-23.22	68.50	0.251	-12.01
-8.50	0.422	-7.49	3.50	0.287	-10.84	21.00	0.228	-12.84	45.00	0.073	-22.73	69.00	0.240	-12.40
-8.25	0.402	-7.92	3.75	0.225	-12.96	21.50	0.242	-12.32	45.50	0.072	-22.85	69.50	0.228	-12.84
-8.00	0.375	-8.52	4.00	0.183	-14.75	22.00	0.243	-12.29	46.00	0.067	-23.48	70.00	0.214	-13.39
-7.75	0.342	-9.32	4.25	0.165	-15.65	22.50	0.231	-12.73	46.50	0.058	-24.73	70.50	0.200	-13.98
-7.50	0.304	-10.34	4.50	0.169	-15.44	23.00	0.207	-13.68	47.00	0.046	-26.74	71.00	0.186	-14.61
-7.25	0.263	-11.60	4.75	0.185	-14.66	23.50	0.174	-15.19	47.50	0.032	-29.90	71.50	0.171	-15.34
-7.00	0.221	-13.11	5.00	0.203	-13.85	24.00	0.137	-17.27	48.00	0.017	-35.39	72.00	0.156	-16.14
-6.75	0.182	-14.80	5.25	0.217	-13.27	24.50	0.099	-20.09	48.50	0.003	-50.46	72.50	0.142	-16.95
-6.50	0.153	-16.31	5.50	0.224	-13.00	25.00	0.065	-23.74	49.00	0.011	-39.17	73.00	0.128	-17.86
-6.25	0.139	-17.14	5.75	0.223	-13.03	25.50	0.040	-27.96	49.50	0.022	-33.15	73.50	0.114	-18.86
-6.00	0.145	-16.77	6.00	0.213	-13.43	26.00	0.029	-30.75	50.00	0.030	-30.46	74.00	0.101	-19.91
-5.75	0.164	-15.70	6.25	0.197	-14.11	26.50	0.030	-30.46	50.50	0.035	-29.12	74.50	0.089	-21.01
-5.50	0.189	-14.47	6.50	0.176	-15.09	27.00	0.031	-30.17	51.00	0.037	-28.64	75.00	0.078	-22.16
-5.25	0.213	-13.43	6.75	0.152	-16.36	27.50	0.029	-30.75	51.50	0.035	-29.12	75.50	0.068	-23.35
-5.00	0.232	-12.69	7.00	0.132	-17.59	28.00	0.022	-33.15	52.00	0.032	-29.90	76.00	0.059	-24.58
-4.75	0.243	-12.29	7.25	0.122	-18.27	28.50	0.015	-36.48	52.50	0.027	-31.37	76.50	0.051	-25.85
-4.50	0.246	-12.18	7.50	0.127	-17.92	29.00	0.008	-41.94	53.00	0.025	-32.04	77.00	0.045	-26.94
-4.25	0.240	-12.40	7.75	0.148	-16.59	29.50	0.004	-47.96	53.50	0.027	-31.37	77.50	0.039	-28.18
-4.00	0.226	-12.92	8.00	0.178	-14.99	30.00	0.000	---	54.00	0.032	-29.90	78.00	0.035	-29.12
-3.75	0.206	-13.72	8.25	0.212	-13.47	30.50	0.008	-41.94	54.50	0.040	-27.96	78.50	0.031	-30.17
-3.50	0.186	-14.61	8.50	0.245	-12.22	31.00	0.020	-33.98	55.00	0.047	-26.56	79.00	0.029	-30.75
-3.25	0.175	-15.14	8.75	0.276	-11.18	31.50	0.038	-28.40	55.50	0.053	-25.51	79.50	0.027	-31.37
-3.00	0.186	-14.61	9.00	0.302	-10.40	32.00	0.058	-24.73	56.00	0.057	-24.88	80.00	0.026	-31.70
-2.75	0.223	-13.03	9.25	0.323	-9.82	32.50	0.080	-21.94	56.50	0.057	-24.88	80.50	0.025	-32.04
-2.50	0.282	-11.00	9.50	0.337	-9.45	33.00	0.101	-19.91	57.00	0.055	-25.19	81.00	0.025	-32.04
-2.25	0.354	-9.02	9.75	0.345	-9.24	33.50	0.119	-18.49	57.50	0.051	-25.85	81.50	0.024	-32.40
-2.00	0.435	-7.23	10.00	0.346	-9.22	34.00	0.132	-17.59	58.00	0.047	-26.56	82.00	0.023	-32.77
-1.75	0.519	-5.70	10.50	0.330	-9.63	34.50	0.138	-17.20	58.50	0.045	-26.94	82.50	0.023	-32.77
-1.50	0.604	-4.38	11.00	0.293	-10.66	35.00	0.137	-17.27	59.00	0.049	-26.20	83.00	0.022	-33.15
-1.25	0.685	-3.29	11.50	0.241	-12.36	35.50	0.129	-17.79	59.50	0.060	-24.44	83.50	0.021	-33.56
-1.00	0.761	-2.37	12.00	0.182	-14.80	36.00	0.114	-18.86	60.00	0.077	-22.27	84.00	0.020	-33.98
-0.75	0.830	-1.62	12.50	0.124	-18.13	36.50	0.095	-20.45	60.50	0.098	-20.18	84.50	0.018	-34.89
-0.50	0.889	-1.02	13.00	0.074	-22.62	37.00	0.073	-22.73	61.00	0.120	-18.42	85.00	0.017	-35.39
-0.25	0.937	-0.57	13.50	0.036	-28.87	37.50	0.053	-25.51	61.50	0.143	-16.89	85.50	0.016	-35.92
0.00	0.972	-0.25	14.00	0.012	-38.42	38.00	0.039	-28.18	62.00	0.166	-15.60	86.00	0.014	-37.08
0.25	0.993	-0.06	14.50	0.000	---	38.50	0.037	-28.64	62.50	0.187	-14.56	86.50	0.012	-38.42
0.50	1.000	0.00	15.00	0.007	-43.10	39.00	0.044	-27.13	63.00	0.207	-13.68	87.00	0.011	-39.17
0.75	0.993	-0.06	15.50	0.016	-35.92	39.50	0.051	-25.85	63.50	0.225	-12.96	87.50	0.009	-40.92
1.00	0.971	-0.26	16.00	0.028	-31.06	40.00	0.054	-25.35	64.00	0.240	-12.40	88.00	0.007	-43.10
1.25	0.937	-0.57	16.50	0.036	-28.87	40.50	0.053	-25.51	64.50	0.253	-11.94	88.50	0.005	-46.02
1.50	0.889	-1.02	17.00	0.040	-27.96	41.00	0.047	-26.56	65.00	0.263	-11.60	89.00	0.004	-47.96
1.75	0.831	-1.61	17.50	0.037	-28.64	41.50	0.039	-28.18	65.50	0.269	-11.40	89.50	0.002	-53.98
												90.00	0.000	---

ELEVATION PATTERN

TYPE:	ALP12M2V	
Directivity:	Numeric	dBd
Main Lobe:	6.17	7.90
Horizontal:	5.89	7.70

Frequency:	20 (DTV)
Location:	Honolulu, HI
Beam Tilt:	0.50
Polarization:	Vertical



ELEVATION PATTERN**TYPE:****ALP12M2V****Frequency:****20 (DTV)****Directivity:****Numeric****dBd****Location:****Honolulu, HI****Main Lobe:****6.17****7.90****Beam Tilt:****0.50****Horizontal:****5.89****7.70****Polarization:****Vertical**

TABULATED DATA FOR ELEVATION PATTERN

TYPE: ALP12M2V

-5 to 10 degrees in 0.25 increments

10 to 90 degrees in 0.50 increments

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-10.00	0.332	-9.58	2.00	0.912	-0.80	18.00	0.054	-25.35	42.00	0.038	-28.40	66.00	0.232	-12.69
-9.75	0.355	-9.00	2.25	0.877	-1.14	18.50	0.080	-21.94	42.50	0.046	-26.74	66.50	0.238	-12.47
-9.50	0.376	-8.50	2.50	0.837	-1.55	19.00	0.112	-19.02	43.00	0.057	-24.88	67.00	0.242	-12.32
-9.25	0.395	-8.07	2.75	0.792	-2.03	19.50	0.145	-16.77	43.50	0.068	-23.35	67.50	0.244	-12.25
-9.00	0.410	-7.74	3.00	0.743	-2.58	20.00	0.177	-15.04	44.00	0.078	-22.16	68.00	0.246	-12.18
-8.75	0.423	-7.47	3.25	0.690	-3.22	20.50	0.204	-13.81	44.50	0.085	-21.41	68.50	0.246	-12.18
-8.50	0.432	-7.29	3.50	0.634	-3.96	21.00	0.227	-12.88	45.00	0.089	-21.01	69.00	0.245	-12.22
-8.25	0.438	-7.17	3.75	0.575	-4.81	21.50	0.243	-12.29	45.50	0.090	-20.92	69.50	0.243	-12.29
-8.00	0.439	-7.15	4.00	0.515	-5.76	22.00	0.252	-11.97	46.00	0.088	-21.11	70.00	0.240	-12.40
-7.75	0.437	-7.19	4.25	0.453	-6.88	22.50	0.254	-11.90	46.50	0.083	-21.62	70.50	0.236	-12.54
-7.50	0.429	-7.35	4.50	0.391	-8.16	23.00	0.248	-12.11	47.00	0.076	-22.38	71.00	0.231	-12.73
-7.25	0.418	-7.58	4.75	0.329	-9.66	23.50	0.236	-12.54	47.50	0.067	-23.48	71.50	0.226	-12.92
-7.00	0.401	-7.94	5.00	0.269	-11.40	24.00	0.218	-13.23	48.00	0.056	-25.04	72.00	0.220	-13.15
-6.75	0.380	-8.40	5.25	0.213	-13.43	24.50	0.195	-14.20	48.50	0.043	-27.33	72.50	0.213	-13.43
-6.50	0.354	-9.02	5.50	0.165	-15.65	25.00	0.169	-15.44	49.00	0.030	-30.46	73.00	0.206	-13.72
-6.25	0.324	-9.79	5.75	0.130	-17.72	25.50	0.141	-17.02	49.50	0.017	-35.39	73.50	0.199	-14.02
-6.00	0.290	-10.75	6.00	0.119	-18.49	26.00	0.112	-19.02	50.00	0.004	-47.96	74.00	0.191	-14.38
-5.75	0.251	-12.01	6.25	0.134	-17.46	26.50	0.085	-21.41	50.50	0.011	-39.17	74.50	0.183	-14.75
-5.50	0.210	-13.56	6.50	0.166	-15.60	27.00	0.060	-24.44	51.00	0.023	-32.77	75.00	0.175	-15.14
-5.25	0.167	-15.55	6.75	0.203	-13.85	27.50	0.041	-27.74	51.50	0.033	-29.63	75.50	0.167	-15.55
-5.00	0.126	-17.99	7.00	0.242	-12.32	28.00	0.030	-30.46	52.00	0.043	-27.33	76.00	0.158	-16.03
-4.75	0.096	-20.35	7.25	0.279	-11.09	28.50	0.027	-31.37	52.50	0.050	-26.02	76.50	0.150	-16.48
-4.50	0.094	-20.54	7.50	0.312	-10.12	29.00	0.028	-31.06	53.00	0.055	-25.19	77.00	0.142	-16.95
-4.25	0.126	-17.99	7.75	0.343	-9.29	29.50	0.028	-31.06	53.50	0.059	-24.58	77.50	0.134	-17.46
-4.00	0.176	-15.09	8.00	0.368	-8.68	30.00	0.024	-32.40	54.00	0.059	-24.58	78.00	0.126	-17.99
-3.75	0.234	-12.62	8.25	0.390	-8.18	30.50	0.016	-35.92	54.50	0.058	-24.73	78.50	0.118	-18.56
-3.50	0.295	-10.60	8.50	0.407	-7.81	31.00	0.005	-46.02	55.00	0.055	-25.19	79.00	0.110	-19.17
-3.25	0.359	-8.90	8.75	0.419	-7.56	31.50	0.014	-37.08	55.50	0.049	-26.20	79.50	0.103	-19.74
-3.00	0.422	-7.49	9.00	0.427	-7.39	32.00	0.032	-29.90	56.00	0.041	-27.74	80.00	0.096	-20.35
-2.75	0.486	-6.27	9.25	0.431	-7.31	32.50	0.052	-25.68	56.50	0.032	-29.90	80.50	0.089	-21.01
-2.50	0.548	-5.22	9.50	0.430	-7.33	33.00	0.073	-22.73	57.00	0.021	-33.56	81.00	0.082	-21.72
-2.25	0.608	-4.32	9.75	0.425	-7.43	33.50	0.094	-20.54	57.50	0.013	-37.72	81.50	0.076	-22.38
-2.00	0.666	-3.53	10.00	0.416	-7.62	34.00	0.114	-18.86	58.00	0.016	-35.92	82.00	0.070	-23.10
-1.75	0.721	-2.84	10.50	0.388	-8.22	34.50	0.131	-17.65	58.50	0.028	-31.06	82.50	0.064	-23.88
-1.50	0.772	-2.25	11.00	0.350	-9.12	35.00	0.146	-16.71	59.00	0.044	-27.13	83.00	0.059	-24.58
-1.25	0.819	-1.73	11.50	0.303	-10.37	35.50	0.157	-16.08	59.50	0.060	-24.44	83.50	0.053	-25.51
-1.00	0.861	-1.30	12.00	0.252	-11.97	36.00	0.164	-15.70	60.00	0.077	-22.27	84.00	0.048	-26.38
-0.75	0.899	-0.92	12.50	0.200	-13.98	36.50	0.167	-15.55	60.50	0.094	-20.54	84.50	0.043	-27.33
-0.50	0.931	-0.62	13.00	0.150	-16.48	37.00	0.165	-15.65	61.00	0.111	-19.09	85.00	0.039	-28.18
-0.25	0.957	-0.38	13.50	0.108	-19.33	37.50	0.160	-15.92	61.50	0.127	-17.92	85.50	0.034	-29.37
0.00	0.977	-0.20	14.00	0.077	-22.27	38.00	0.150	-16.48	62.00	0.143	-16.89	86.00	0.030	-30.46
0.25	0.991	-0.08	14.50	0.062	-24.15	38.50	0.138	-17.20	62.50	0.158	-16.03	86.50	0.026	-31.70
0.50	0.999	-0.01	15.00	0.060	-24.44	39.00	0.122	-18.27	63.00	0.173	-15.24	87.00	0.022	-33.15
0.75	1.000	0.00	15.50	0.062	-24.15	39.50	0.104	-19.66	63.50	0.186	-14.61	87.50	0.018	-34.89
1.00	0.995	-0.04	16.00	0.061	-24.29	40.00	0.085	-21.41	64.00	0.198	-14.07	88.00	0.014	-37.08
1.25	0.983	-0.15	16.50	0.054	-25.35	40.50	0.066	-23.61	64.50	0.208	-13.64	88.50	0.011	-39.17
1.50	0.966	-0.30	17.00	0.044	-27.13	41.00	0.050	-26.02	65.00	0.218	-13.23	89.00	0.007	-43.10
1.75	0.942	-0.52	17.50	0.040	-27.96	41.50	0.039	-28.18	65.50	0.226	-12.92	89.50	0.004	-47.96
												90.00	0.000	---

TABLE I
CONTOUR DATA
KIKU-DT, HONOLULU, HAWAII
CHANNEL 19 40.2 KW ERP 525 METERS HAAT
APRIL 2012

Radial	Average*		ERP At	<u>Distance to Contour</u>	
<u>Bearing</u>	<u>Elevation</u>	Effective	Radio	F(50/90)	F(50/90)
(N ° E, T)	<u>3.2 to 16.1 km</u>	<u>Height</u>	<u>Horizon</u>	<u>48 dBu</u>	<u>41 dBu</u>
	meters	meters	kW	km	km
0	383.6	341.3	1.451	48.7	57.6
10	352.2	372.7	1.841	51.5	60.4
20	346.9	378.0	2.573	53.6	62.5
30	304.7	420.2	3.594	57.2	66.6
40	285.2	439.7	4.593	59.4	69.3
50	253.3	471.6	5.683	61.8	72.0
60	222.5	502.4	7.783	64.6	75.2
70	182.2	542.7	13.245	69.2	80.6
80	126.2	598.7	23.465	75.2	87.8
90	84.7	640.2	34.994	79.5	92.7
100	71.8	653.1	40.2	81.0	94.4
110	62.4	662.5	35.069	80.2	93.6
120	53.3	671.6	23.342	77.3	90.4
130	59.8	665.1	13.199	73.0	85.4
140	80.6	644.3	7.854	68.8	80.6
150	112.1	612.8	6.021	66.2	77.5
160	141.4	583.5	5.123	64.4	75.3
170	156.9	568.0	4.116	62.6	73.2
180	166.7	558.2	2.931	60.2	70.5
190	181.9	543.0	1.981	57.5	67.3
200	196.0	528.9	1.467	55.3	65.0
210	248.8	476.1	1.406	53.4	63.3
220	239.0	485.9	1.482	54.0	63.9
230	211.0	513.9	1.162	53.5	63.2
240	64.3	660.6	0.402	49.7	60.2
250	53.1	671.8	0.064	38.7	48.4
260	85.8	639.1	1.513	57.8	68.5
270	179.4	545.5	4.485	62.5	72.9
280	110.2	614.7	6.432	66.7	78.1

TABLE I
CONTOUR DATA
KIKU-DT, HONOLULU, HAWAII
CHANNEL 19 40.2 KW ERP 525 METERS HAAT
APRIL 2012

Radial <u>Bearing</u> (N ° E, T)	Average* Elevation <u>3.2 to 16.1 km</u> meters	Effective <u>Height</u> meters	ERP At Radio <u>Horizon</u> kW	<u>Distance to Contour</u>	
				F(50/90) <u>48 dBu</u> km	F(50/90) <u>41 dBu</u> km
290	63.7	661.2	5.385	66.7	78.1
300	50.9	674.0	2.472	61.8	72.7
310	147.2	577.7	0.355	47.7	57.6
320	269.3	455.6	0.101	36.8	46.4
330	347.6	377.3	0.766	46.7	55.8
340	533.2	191.7	1.231	40.1	48.3
350	408.5	316.4	1.346	47.0	55.9

*Based on 30-second NGDC database.

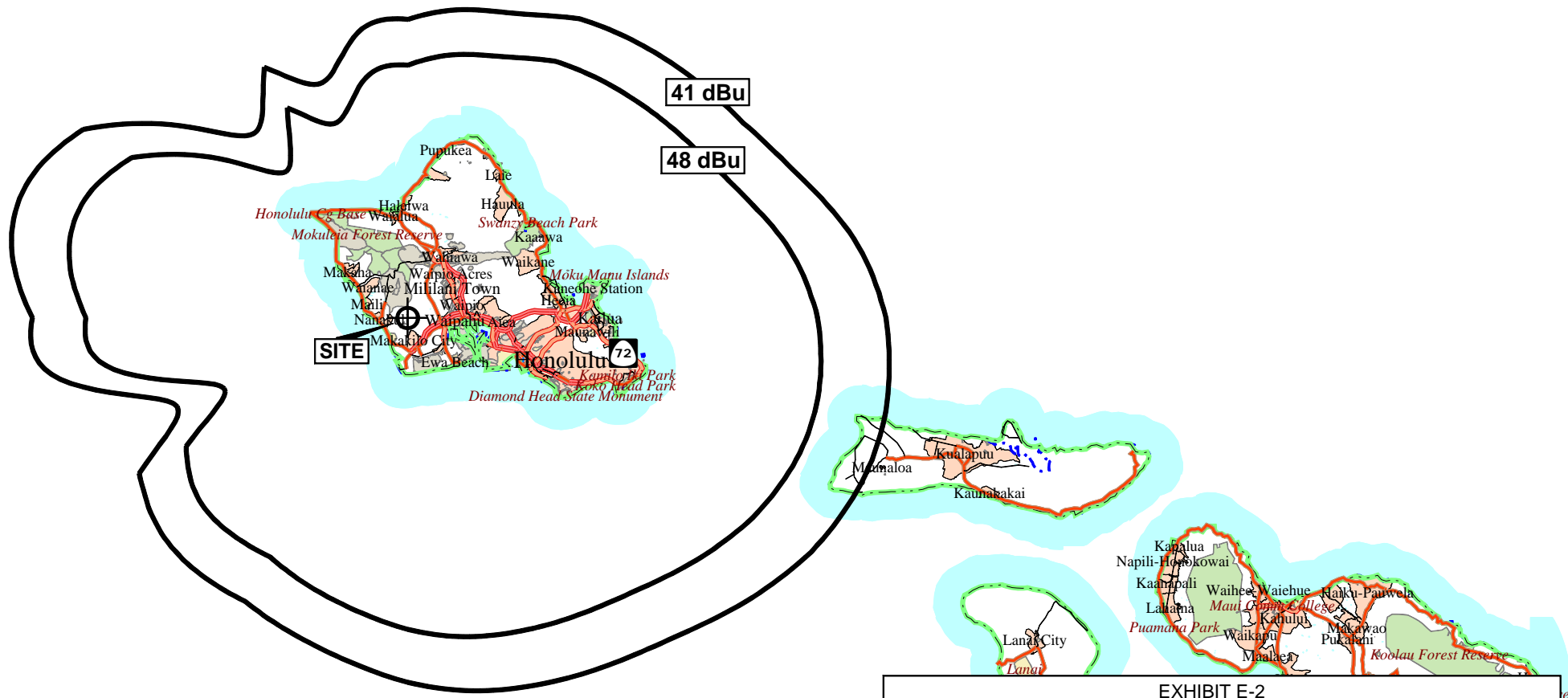


EXHIBIT E-2
COMPUTED 48 dBu AND 41 dBu CONTOURS
FOR THE PROPOSED AUXILIARY OPERATION OF
KIKU-DT, HONOLULU, HAWAII
CHANNEL 19 40.2 kW ERP DA 525 METERS HAAT
APRIL 2012

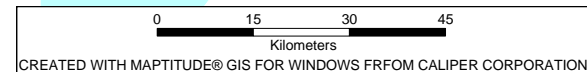


TABLE II
CONTOUR DATA
KIKU-DT, HONOLULU, HAWAII
CHANNEL 19 60.7 KW ERP 606.4 METERS HAAT
APRIL 2012

Radial <u>Bearing</u> (N ° E, T)	Average* Elevation <u>3.2 to 16.1 km</u> meters	Effective <u>Height</u> meters	ERP At Radio <u>Horizon</u> kW	Distance to Contour F(50/90) <u>41 dBu</u> km
0	384.4	384.6	1.593	60.2
10	356.3	412.7	1.967	62.7
20	345.1	423.9	2.885	65.5
30	303.4	465.6	4.327	70.0
40	283.9	485.1	5.985	72.8
50	251.7	517.3	8.131	76.0
60	221.7	547.3	12.401	80.3
70	181.9	587.1	21.417	86.6
80	125.0	644.0	36.646	93.3
90	83.4	685.6	53.179	97.9
100	70.1	698.9	60.7	99.6
110	61.5	707.5	53.179	98.7
120	52.8	716.2	36.646	95.8
130	58.3	710.7	21.417	90.9
140	79.3	689.7	12.401	85.6
150	109.8	659.2	8.131	81.3
160	139.1	629.9	6.023	78.1
170	155.3	613.7	4.327	75.1
180	165.2	603.8	2.885	71.9
190	186.8	582.2	1.967	68.6
200	189.0	580.0	1.593	67.1
210	252.0	517.0	1.402	64.4
220	245.7	523.3	1.058	62.9
230	212.0	557.0	0.571	60.1
240	71.1	697.9	0.289	58.7
250	54.3	714.7	0.351	60.4
260	82.6	686.4	0.933	66.3
270	179.0	590.0	2.033	69.1
280	114.1	654.9	2.651	72.7

TABLE II
CONTOUR DATA
KIKU-DT, HONOLULU, HAWAII
CHANNEL 19 60.7 KW ERP 606.4 METERS HAAT
APRIL 2012

Radial <u>Bearing</u> (N ° E, T)	Average* Elevation <u>3.2 to 16.1 km</u> meters	Effective <u>Height</u> meters	ERP At Radio <u>Horizon</u> kW	Distance to Contour F(50/90) <u>41 dBu</u> km
290	67.6	701.4	2.033	72.0
300	52.6	716.4	0.933	67.0
310	147.3	621.7	0.351	58.5
320	269.0	500.0	0.289	54.4
330	347.7	421.3	0.571	55.9
340	531.3	237.7	1.058	50.2
350	410.0	359.0	1.402	58.3

*Based on 30-second NGDC database.

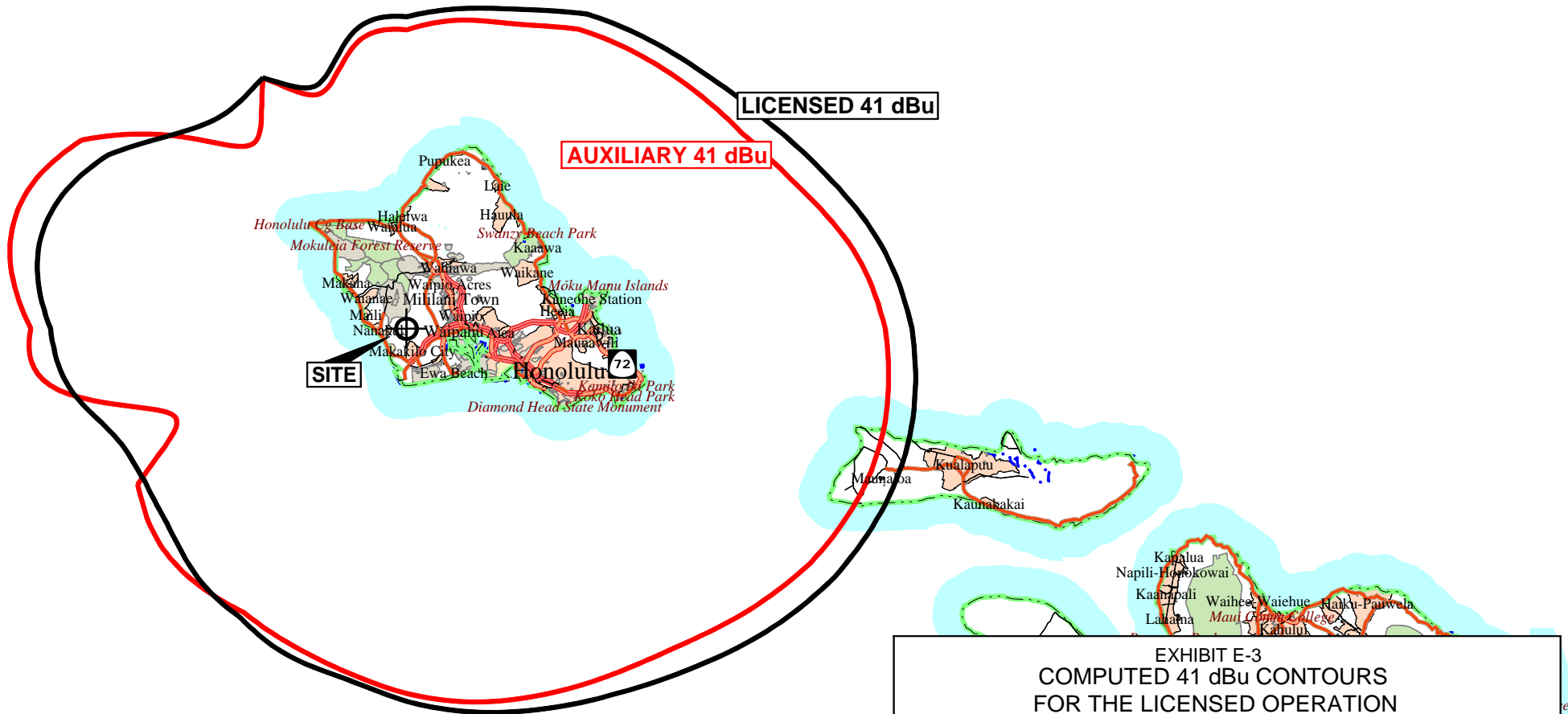


EXHIBIT E-3
COMPUTED 41 dBu CONTOURS
FOR THE LICENSED OPERATION
CHANNEL 19 60.7 kW ERP DA 606.4 METERS HAAT
AND THE PROPOSED AUXILIARY OPERATION
CHANNEL 19 40.2 kW ERP DA 525 METERS HAAT
KIKU-DT, HONOLULU, HAWAII
APRIL 2012

SECTION III - D - DTV Engineering

Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.

Pre-Transition Certification Checklist: An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to modify pre-transition facilities. 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.

Post-Transition Expedited Processing. An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed on or before March 17, 2008 (45 days of the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91).

1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:
 - (a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No
 - (b) It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No
 - (c) It will operate a pre-transition facility 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. ☐ Yes ☐ No
 - (d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"). ☐ Yes ☐ No
☐ N/A
 - (e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B. ☐ Yes ☐ No
☐ N/A
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RIF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. ☐ Yes ☐ No

Applicant must **submit the Exhibit** called for in Item 13.

3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community. ☐ Yes ☐ No
4. 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. ☐ Yes ☐ No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require reregistration 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. ☐ Yes ☐ No

SECTION III - D 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.

TECH BOX

1. Channel Number: DTV _____ Analog TV, if any _____
2. Zone: ☐ I ☐ II ☐ III
3. Antenna Location Coordinates: (NAD 27)
- _____ ° _____ ' _____ " ☐ N ☐ S Latitude
_____ ° _____ ' _____ " ☐ E ☐ W Longitude
4. Antenna Structure Registration Number: _____
- ☐ Not applicable ☐ FAA Notification Filed with FAA
5. Antenna Location Site Elevation Above Mean Sea Level: _____ meters
6. Overall Tower Height Above Ground Level: _____ meters
7. Height of Radiation Center Above Ground Level: _____ meters
8. Height of Radiation Center Above Average Terrain: _____ meters
9. Maximum Effective Radiated Power (average power): _____ kW
10. Antenna Specifications:
- a.

Manufacturer	Model
--------------	-------
- b. Electrical Beam Tilt: _____ degrees ☐ Not Applicable
- c. Mechanical Beam Tilt: _____ degrees toward azimuth _____ degrees True ☐ Not Applicable
- Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). Exhibit No.
- d. Polarization: ☐ Horizontal ☐ Circular ☐ Elliptical

TECH BOX

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		60		120		180		240		300	
10		70		130		190		250		310	
20		80		140		200		260		320	
30		90		150		210		270		330	
40		100		160		220		280		340	
50		110		170		230		290		350	
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.

11. Does the proposed facility satisfy the pre-transition 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.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616?

☐

Yes

☐

No

If "No," attach as an Exhibit justification therefore, 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 therefore. (Applicable only if **Certification Checklist** Item 3 is answered "No.")

Exhibit No.

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

Exhibit No.

- a. If **Certification Checklist 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.

By checking "Yes" to **Certification Checklist 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 radio frequency electromagnetic exposure in excess of FCC guidelines.

If **Certification Checklist Item 2** is answered "No," an Environmental Assessment as required by 47 C.F.R. Section 1.1311.

☐ Yes ☐ No ☐ N/A

10. **Auction Authorization.** If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable.

Exhibit No.

An exhibit is required unless this question is inapplicable.

☐ Yes ☐ No

11. **Anti-Drug Abuse Act Certification.** 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.

☐ Yes ☐ No ☐ N/A

12. **Equal Employment Opportunity (EEO).** 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.

☐ Yes ☐ No ☐ N/A

13. **Petition for Rulemaking/Counterproposal to Add New FM Channel to FM Table of Allotments.** If the application is being submitted concurrently with a Petition for Rulemaking or Counterproposal to Amend the FM Table of Allotments (47 C.F.R. Section 73.202) to add a new FM channel allotment, petitioner/counter-proponent certifies that, if the FM channel allotment requested is allotted, petitioner/counter-proponent will apply to participate in the auction of the channel allotment requested and specified in this application.

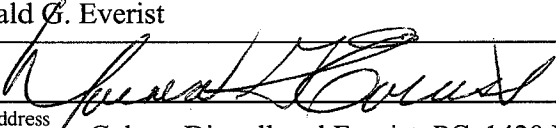
I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in 'good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing	Typed or Printed Title of Person Signing
Signature	Date

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).

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (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 Donald G. Everist		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature 		Date April 30, 2012	
Mailing Address Cohen, Dippell and Everist, PC, 1420 N Street NW, Suite One			
City Washington	State or Country (if foreign address) DC	ZIP Code 20005	
Telephone Number (include area code) 202-898-0111		E-Mail Address (if available) cde@attglobal.net	

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).