

ENGINEERING STATEMENT
RE REQUEST FOR
SPECIAL TEMPORARY AUTHORITY FOR TRANSITION
KSCI-DT, LONG BEACH, CALIFORNIA
CH.18, 180 H & 36 KW V ERP MAX DA 899 METERS HAAT

MAY 2009

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

COHEN, DIPPELL AND EVERIST, P. C.

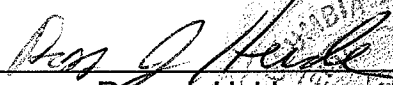
City of Washington)
) ss
District of Columbia)

Ross J. Heide, being duly sworn upon his oath, deposes and states that:

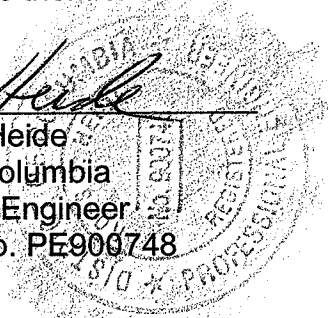
He is a graduate of the Massachusetts Institute of Technology in Operations Research and Management Science, a Registered Professional Engineer in the District of Columbia, and employed by Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

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

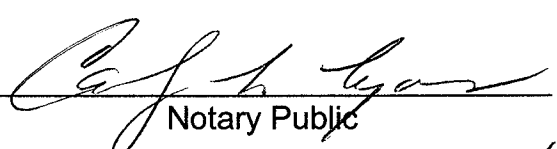
That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.



Ross J. Heide
District of Columbia
Professional Engineer
Registration No. PE900748

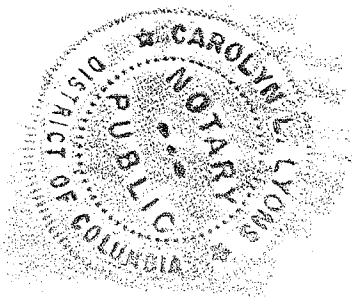


Subscribed and sworn to before me this 13th day of August, 2009.



Notary Public

My Commission Expires: 2/28/2013



This engineering statement has been prepared in support of an application for special temporary authority to operate during the transition on behalf of KSLS, Inc., licensee of KSCI(TV), Long Beach, California. The purpose of this application is to permit continuity of service pending action by the Federal Communications Commission of its pending application (FCC File No. BMPCDT-20080619ACW) and many viewers as possible in the currently licensed Grade B service with the KSCI-DT post-transition facilities using 180 kW directional effective radiated power (“ERP”) from the current top-mounted NTSC antenna at the authorized antenna height above average terrain (“HAAT”) at 899 meters.

KSCI-TV is licensed to operate on NTSC television Channel 18 with a maximum visual ERP of 2583 kW and a HAAT of 899 meters. KSCI-DT has been allocated DTV Channel 18 with facilities of 110.86 kW directional ERP and HAAT of 889 meters in the final DTV Table of Allotments.¹ KSCI-DT has been authorized in its outstanding construction permit (FCC File No. BPCDT-20080311ADB) to construct DTV facilities of 110.9 kW (directional) at a HAAT of 885.8 meters with 1.5° electrical beam tilt and 0.8° mechanical tilt at a bearing of N 230° E, T, resulting in a characteristically directional radiation pattern toward the horizontal. As indicated above, KSCI-DT has a pending application (FCC File No. BMPCDT-20080619ACW) that is awaiting FCC action. In the interim, KSCI-DT proposes herein to operate with a post-transition Special Temporary Authority to operate with 180 kW (directional) at HAAT of 899 meters using

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.

the existing analog antenna. The proposed interim facilities are intended to avoid as much of a reduction of service from the current Grade B contour as possible. No other changes are proposed.

Transmitter Site

There are no AM stations located within 3.2 km of the proposed KSCI-DT tower site. There are two FM and five full-service DTV facilities in addition to the proposed operation at or within 100 meters of the proposed KSCI-DT site.

The DTV antenna is top-mounted on the existing tower. The KSCI-DT antenna is located on an existing tower having a total overall structure height above ground of 60.9 meters (200 feet). The existing transmitter site is located on Mt. Harvard. The registration number for the existing tower is 1213941.

Since there will be no change in overall height, FAA airspace approval is not required. Exhibit E-1 is a vertical sketch of the existing tower and the proposed transmitting antenna.

The geographic coordinates of the proposed site are as follows:

North Latitude: 34° 12' 47.8"

West Longitude: 118° 03' 41.0"

NAD-27

Equipment Data
(unchanged)

Antenna: Andrew, Model ATW26H6-ETC-18S (or equivalent) antenna with 1.6° electrical beam tilt and 1.6° mechanical tilt at a bearing of N 220° E, T. The vertical plane pattern and other exhibits required by Section 73.625(c) are herein included as Exhibit E-2.

COHEN, DIPPELL AND EVERIST, P.C.

ENGINEERING STATEMENT
KSCI-DT, LONG BEACH, CALIFORNIA

PAGE 3

Transmission Line: 85.3 meters (280 ft) of Andrew, Type ACX675, 6-1/8" air dielectric
(or equivalent)

Power Data

Transmitter output	4.45 kW	6.48 dBk
Total Transmission line efficiency/loss	93.7%	0.283 dB
Input power to the antenna	4.17 kW	6.20 dBk
Antenna peak power gain,		
Horizontal Polarization	43.13	16.35 dB
Vertical Polarization (RH elliptical, v/h ratio = 0.2)	8.63	9.36 dB
Maximum Effective Radiated Power		
Horizontal Polarization	180 kW	22.55 dBk
Vertical Polarization	36 kW	15.56 dBk

Elevation Data
(unchanged)

Vertical dimension for Channel 18 antenna	18.7 meters 61.3 feet
Overall height above ground of the existing antenna structure (including beacon and lightning rod)	60.9 meters 199.8 feet
Center of radiation of Channel 18 antenna above ground	50 meters 164 feet
Elevation of site above mean sea level	1654.8 meters 5429.1 feet
Center of radiation of Channel 18 antenna above mean sea level	1704.8 meters 5593.2 feet

Overall height above mean sea level of existing tower and stacked antenna (including beacon)	1715.7 meters 5628.9 feet
Antenna height above average terrain	899 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 3-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 0.43 to 1.077 degrees. Table I includes the distances along the radials to the predicted F(50,90) 48 dBu and 41 dBu contours, the average elevation 3.2 to 16.1 km and the effective antenna heights, using the resultant relative horizontal plane radiation pattern and the corresponding 180 kW maximum ERP at horizontal with electrical and mechanical tilt in accordance with Section 73.625(c) of the FCC Rules. The maximum ERP does not occur in the horizontal plane and based on informal guidance from the FCC staff, the horizontal relative field pattern has been normalized due to the use of combination of mechanical and electrical tilt. Table I provides the distances along each radial to the limits of the F(50,90) 48 dBu and 41 dBu contours using the resultant relative field and electrical and mechanical tilt and 180 kW maximum ERP at the radio horizon as specified in Section 73.625(b). This is within the current FCC policy and many

filings have been by this and other firms and have received FCC grants. The normalized relative field values given in the directional pattern as filed were used in determining the distance to the DTV contour. Table I also includes the average elevation 3.2 to 16.1 km, and the antenna heights above average terrain and the directional ERP every 10 degrees beginning with True North. The map of Exhibit E-3 shows the 48 dBu 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.

Allocation

An allocation study from the proposed site has been performed as the predicted F(50,90) 41 dBu contour of the proposed DTV facilities at the currently authorized site are not entirely within the predicted F(50,90) 41 dBu contour of the KSCI-DT facility in the final DTV Table of Allotments in the Memorandum Opinion and Order. The proposed operation does not exceed the 0.5% additional interference standard to any potentially affected station in the final DTV Table of Allotments in the Memorandum Opinion and Order (see Table II).

The proposed operation is predicted to serve approximately 14,188,162 persons in an area of 21,211 square kilometers, which is approximately 100.6% of the population served by the KSCI-DT facility in the final DTV Table of Allotments in the Memorandum Opinion and Order. The map of Exhibit E-4 shows the proposed service contour in relation to those of authorized and applied for facilities.

Interference Analysis

A study of predicted interference caused by the proposed KSCI-DT service 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 Windows XP platform. Comparison of service/interference areas and populations indicates that this model closely matches the FCC's evaluation program. Best efforts have been made to use data and calculations identical to the FCC's program. Any slight differences are attributable to compiler, operating system and/or processor characteristics. The effect of any variance in calculated population values versus the FCC's program is minimized when differencing a given model's results, such as calculating new interference as total interference less baseline interference. Any variance effect is further reduced when using ratios of calculated population values such as measuring the incremental population affected as a percent of the total population served. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 4 km² using 3-second terrain data sampled approximately every 1.0 km at one degree azimuth intervals with 2000 census centroids.

International Coordination

The proposed STA KSCI site is within the 275 km coordination zone for Mexico. However, Commission staff indicates that KSCI has been prior coordinated with Mexico for 200 kW ERP

non-directional from this site. Therefore with the maximum directional ERP of 180 kW, the proposed STA operation conforms to this coordination.

Other Licensed and Broadcast Facilities

There are no AM facilities within 3.22 km of the authorized site. There are two licensed FM stations and five authorized DTV stations, in addition to the proposed KSCI-DT STA facilities, within 0.1 km of the existing transmitter site. Since this proposal is for post-transition operation, the predicted radiofrequency field ("RFF") levels for analog TV stations will not be included in the following analysis. No adverse technical effect is anticipated by the proposed DTV operation to any other FCC authorized facility.

FCC Rule, Section 1.1307

The proposed post-transition operation has been analyzed based upon the current OET Bulletin No. 65, Edition No. 97-01, dated August 1997 and Supplement A. The following equations from OET Bulletin No. 65 have been used to calculate the predicted radiofrequency fields at 2 meters above ground at the base of the tower:

Formula for FM and Digital Television Broadcast Stations

$$S = [(33.4)(F^2)(ERP^2)]/R^2$$

S = Power Density in Microwatts/sq. cm ($\mu\text{W}/\text{cm}^2$)

F = Relative Field Factor in the downward direction of interest (-60° to -90° elevation)

ERP = Power in Watts (horizontal and vertical)

R = Distance from 2 meters above ground to center of radiation in meters

The radio frequency field analysis of the post-transition STA operation is shown in the following table:

COHEN, DIPPELL AND EVERIST, P.C.

ENGINEERING STATEMENT
KSCI-DT, LONG BEACH, CALIFORNIA

PAGE 8

<u>Station</u>	<u>Status</u>	<u>ERP</u> (kW)	<u>Frequency</u> (MHz)	<u>Ch</u>	<u>RCAGL</u> (m)	Relative <u>Field</u>	<u>S</u> ($\mu\text{W}/\text{cm}^2$)	<u>RFF (%)</u>	
								<u>General</u>	<u>Controlled</u>
KSCI-DT	Proposed	180 H 36 V	494-500	18	50	0.06	11.3	3.4	0.7
KBEH-DT	Licensed	85	530-536	24	97.5	0.23	16.5	4.7	0.9
KPXN-DT	Licensed	1000	614-620	38	52.6	0.1	135.5	31.9	6.4
KVEA-DT	Licensed	54	620-626	39	57.2	0.12	34.1	8.3	1.7
KWHY-DT	Licensed	486	638-644	42	38	0.12	180.4	42.4	8.5
KRCA-DT	Allotment	670	656-662	45	54	0.1	82.8	19.5	3.9
KUSC(FM)	Licensed	39 H 39 V	91.5	218B	35	0.4	382.8	191.4	38.3
KLOS(FM)	Licensed	61 H 61 V	95.5	238B	49	0.2	73.8	36.9	7.4
Total								333.5%	67.8%

For the post-transition operation, KSCI-DT proposes to use an Andrew, Type ATW26H6-ETC-18S or equivalent antenna. The manufacturer's elevation pattern for this antenna indicates a maximum relative downward field of less than 0.06 towards the ground in the vicinity of the tower. Using this relative field factor and the procedures prescribed in OET Bulletin 65, the maximum RFF resulting from the proposed STA KSCI operation is less than $12 \mu\text{W}/\text{cm}^2$. This is less than 3.4% of the $329 \mu\text{W}/\text{cm}^2$ maximum human exposure to RFF recommended by the current FCC guidelines for the general population.

Although the method of OET Bulletin 65 indicates potential RFF levels to be in excess of the guideline for the general population, actual measurements taken in May 2005 indicate that this is not the case. The licensee accepts these measurement as valid and more definitive than the theoretical prediction using OET 69, which is typically worst case.

Moreover, the site is on a steep mountaintop, accessible only through a series of three locked gates. Post-transition, the total RFF contribution at the site from television stations will diminish as the analog stations cease operation. Total television RFF contribution is expected to be less after the transition, even if all of the DTV stations maximize. Therefore, post-transition, it is expected that the proposed operation at the site will continue to meet the RFF guidelines. Nevertheless, it is strongly recommended to conduct a new RFF survey post-transition with the new complement of facilities.

Authorized personnel and rigging contractors 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") is categorically excluded under Section 1.1306 of the FCC Rules and Regulations as the tower was constructed prior to the requirements specified in WT Docket No. 03-128 and the permittee indicates:

- (a)(1) The existing tower is not located in an officially designated wilderness area.
- (a)(2) The existing 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 tower which was built prior to the adoption of WT Docket No. 03-128 and is grandfathered and has not affected any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing tower is not located near any known Indian religious sites.
- (a)(6) The existing tower is not located in a flood plain.
- (a)(7) The installation of the DTV facilities on an existing self-supporting tower will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) It is not proposed to modify the tower lighting 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.

ABOVE GROUND

ABOVE MEAN SEA LEVEL

60.9 m (199.8')

1715.7 m (5628.9')

C/R 50 m (164.0')

1704.8 m (5593.2') C/R

CURRENT KSCI(TV) ANTENNA
CHANNEL 18
FOR DTV STA OPERATION

30.5 m (100.1')

REG # 1213941

PAINTING AND LIGHTING ARE IN
ACCORDANCE WITH F.A.A. RULES
AND REGULATIONS.

SELF-SUPPORTING TOWER

0 m (0')

1654.8 m (5429.1')

NOT TO SCALE

EXHIBIT E - 1
VERTICAL SKETCH
FOR THE PROPOSED STA OPERATION OF
KSCI-DT, LONG BEACH, CALIFORNIA
APRIL 2009

COHEN, DIPPELL and EVERIST, P.C. Consulting Engineers

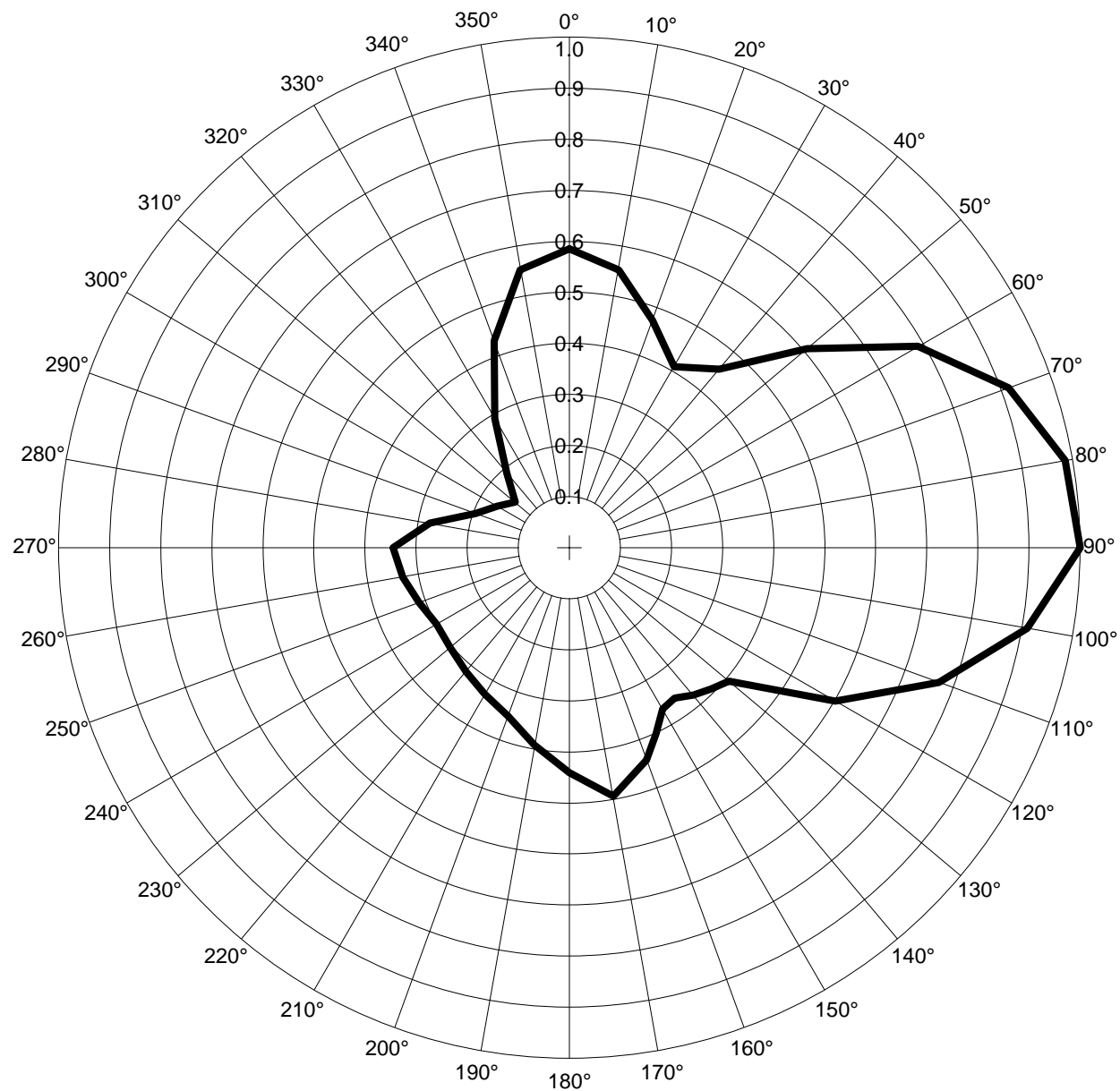
COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-2

ANTENNA MANUFACTURER DATA

KSCI-DT, LONG BEACH, CALIFORNIA

HORIZONTAL PLANE PATTERN



Relative Intensity

Pattern file: KSCI 1dot6 mech tilt at 220.pat

EXHIBIT A

ANDREW
AZIMUTH PATTERN

Type: CH18AZH
Numeric dBd

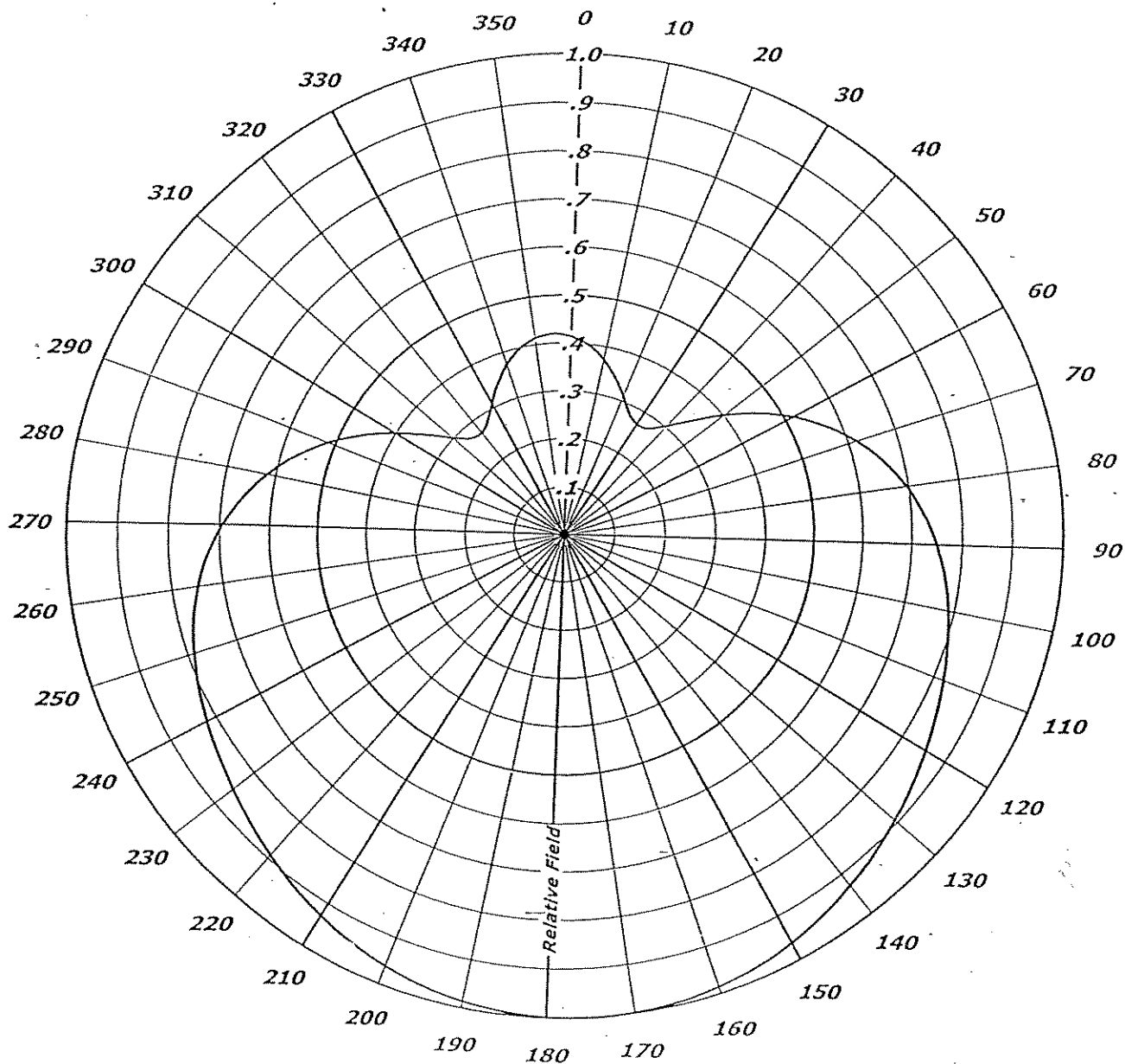
Directivity: _____

Peak(s) At: _____

Polarization: Horizontal

Channel: 18

Location: LOS ANGELES, CA.



ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

EXHIBIT B

ANDREW AZIMUTH PATTERN CH18AZV

Type: _____
Numeric dBd

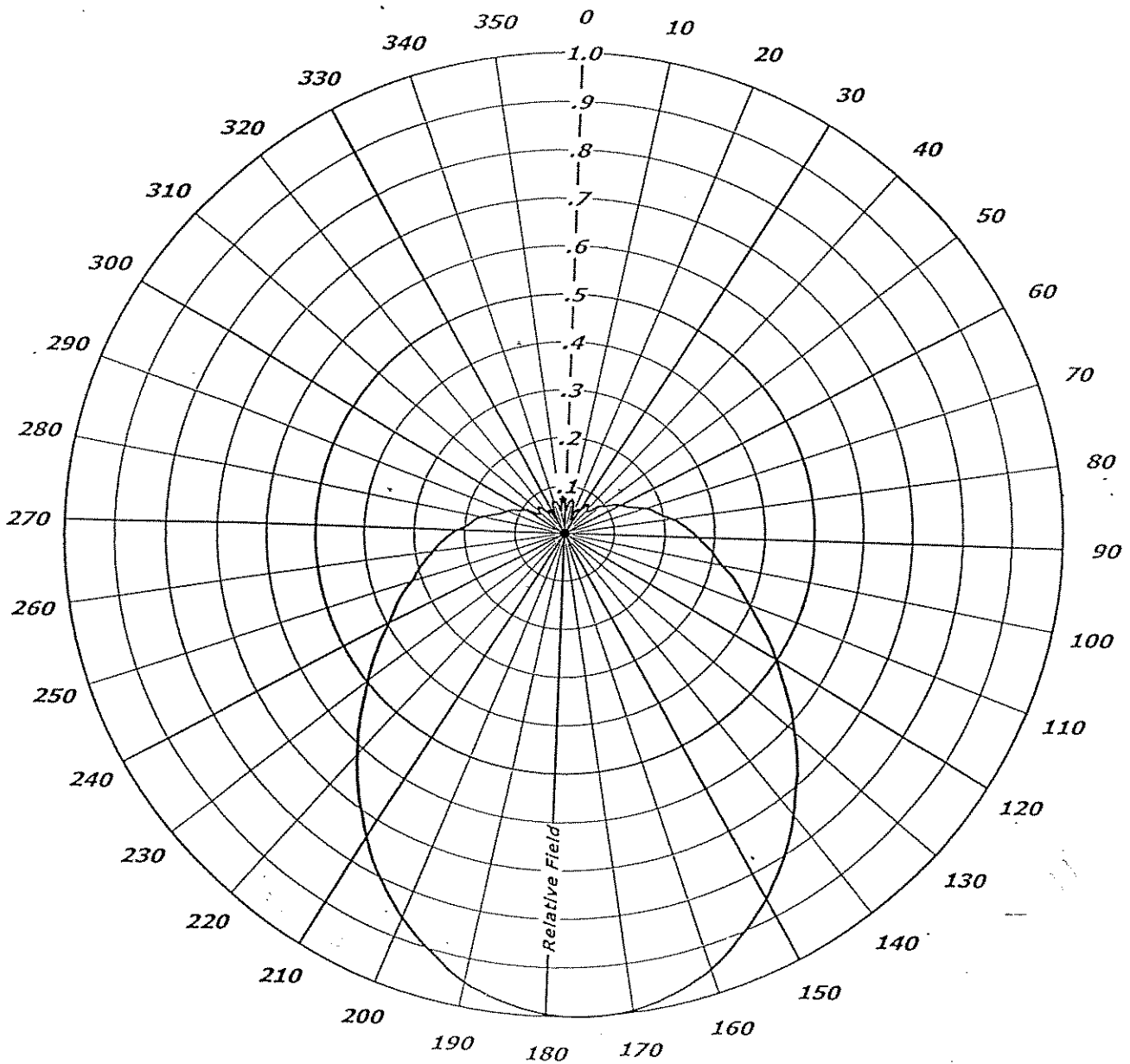
Directivity: _____

Peak(s) At: _____

Polarization: _____ Vertical

Channel: _____ 18

Location: LOS ANGELES, CA.



ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

EXHIBIT C

1.0

Relative Field

.9

.8

.7

.6

.5

.4

.3

.2

.1

.0

Above

Angle From Horizontal, Degrees

Below

5

4

3

2

1

0

1

2

3

4

5

6

7

8

9

10



ANDREW ELEVATION PATTERN

CH18ELH

Type:

Directivity:

Numeric

dBd

Main Lobe:

Horizontal:

Beam Tilt:

Polarization:

HORIZONTAL

Channel: ---

18

Location:

LOS ANGELES, CA.

EXHIBIT D

ANDREW ELEVATION PATTERN

Type: CH18ELV
 Directivity: Numeric dBd
 Main Lobe:
 Horizontal:
 Beam Tilt:
 Polarization: VERTICAL
 Channel: 18
 Location: LOS ANGELES, CA.

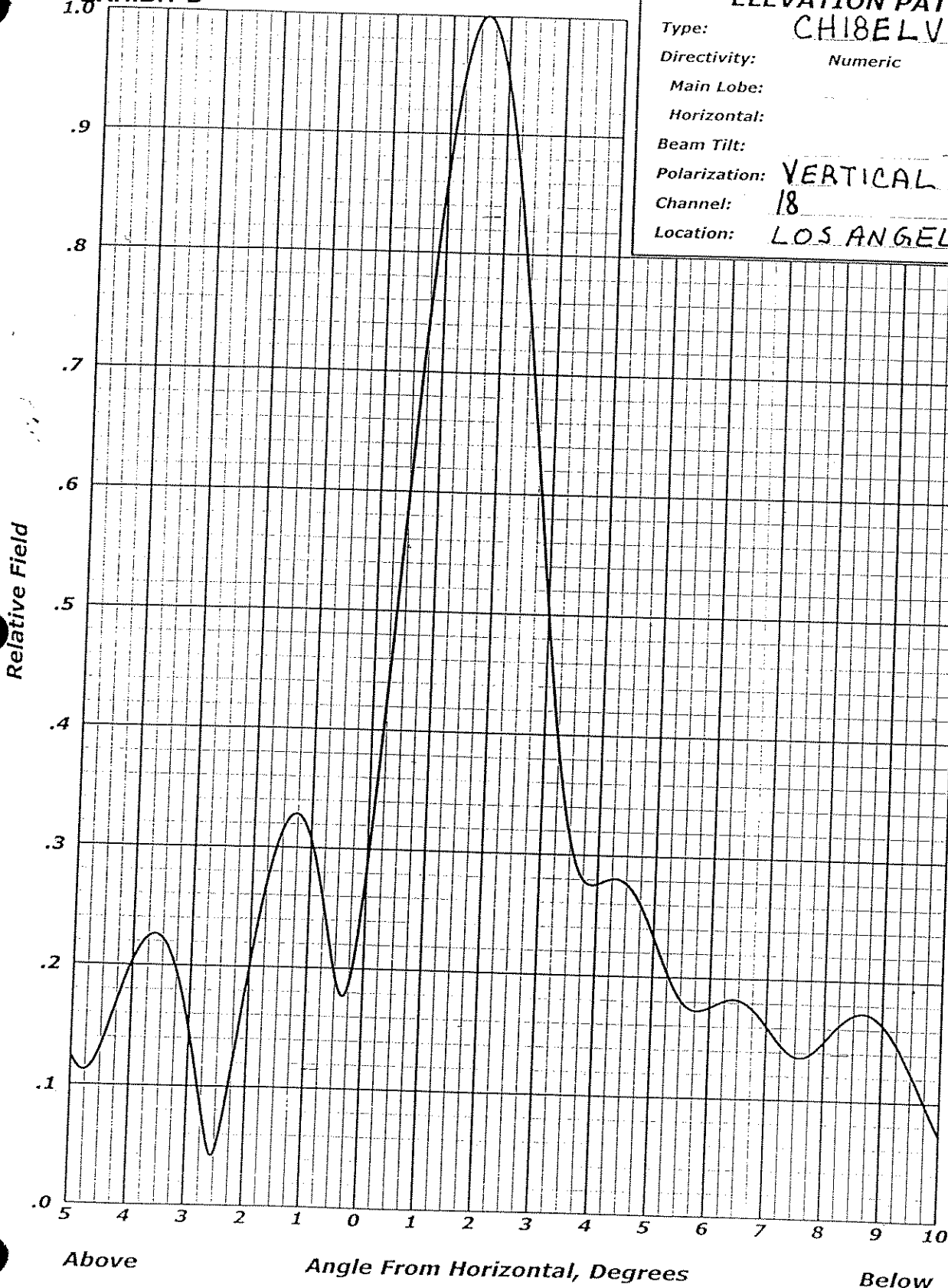


TABLE I
COMPUTED COVERAGE DATA
FOR PROPOSED DTV OPERATION OF
KSCI, LONG BEACH, CALIFORNIA
CHANNEL 18 180 KW ERP 927 METERS HAAT
MAY 2009

<u>Radial</u> N ° E, T	<u>Average*</u> <u>Elevation</u> meters	<u>Effective</u> <u>Height</u> meters	<u>Depression</u> <u>Angle</u> degrees	<u>ERP</u> kW	<u>Distance to Contour F(50,90)</u>	
					<u>48 dBu</u>	<u>41 dBu</u>
					<u>City Grade</u> km	<u>Noise-Limited</u> km
0	1293.1	411.7	0.562	80.8	75.9	86.4
10	1338.2	366.6	0.530	78.4	72.4	83.3
20	1460.9	243.9	0.433	60.6	63.1	70.7
30	1396.6	308.2	0.486	43.2	65.2	73.9
40	1311.1	393.7	0.550	41.5	70.2	81.0
50	1210.8	494.0	0.616	62.7	78.1	89.2
60	1036.0	668.8	0.716	104.0	89.3	103.1
70	865.1	839.7	0.803	149.1	97.7	112.8
80	1008.2	696.6	0.731	176.4	94.8	108.8
90	1054.3	650.5	0.706	176.4	93.2	106.9
100	882.8	822.0	0.794	162.5	98.0	113.0
110	718.1	986.7	0.870	133.1	100.4	115.9
120	506.3	1198.5	0.959	104.0	103.3	119.2
130	333.9	1370.9	1.026	78.4	104.4	121.1
140	266.3	1438.5	1.051	54.5	102.4	119.1
150	222.7	1482.1	1.066	39.8	100.2	116.9
160	189.0	1515.8	1.078	30.3	98.2	114.7
170	197.3	1507.5	1.076	23.3	95.5	111.7
180	196.9	1507.9	1.076	22.1	94.9	111.1
190	210.9	1493.9	1.071	23.3	95.3	111.3
200	223.1	1481.7	1.066	23.3	95.0	111.0
210	244.5	1460.3	1.059	22.1	94.1	109.9
220	286.9	1417.9	1.043	20.8	92.8	108.3
230	317.2	1387.6	1.032	18.4	91.2	106.4
240	360.1	1344.7	1.016	16.2	89.3	104.2
250	414.6	1290.2	0.995	14.1	87.2	101.7
260	502.0	1202.8	0.961	14.1	85.7	99.8
270	629.9	1074.9	0.908	16.2	84.0	98.0
280	886.2	818.6	0.793	19.6	79.4	93.3

TABLE I
COMPUTED COVERAGE DATA
FOR PROPOSED DTV OPERATION OF
KSCI, LONG BEACH, CALIFORNIA
CHANNEL 18 180 KW ERP 927 METERS HAAT
MAY 2009
 (continued)

<u>Radial</u> N ° E, T	<u>Average*</u> <u>Elevation</u> meters	<u>Effective</u> <u>Height</u> meters	<u>Depression</u> <u>Angle</u> degrees	<u>ERP</u> kW	<u>Distance to Contour F(50,90)</u>	
					<u>48 dBu</u> <u>City Grade</u> km	<u>41 dBu</u> <u>Noise-Limited</u> km
290	1099.2	605.6	0.682	20.8	74.6	87.1
300	1110.8	594.0	0.675	20.8	74.2	86.6
310	1273.1	431.7	0.576	17.3	67.0	77.5
320	1282.9	421.9	0.569	15.1	65.7	76.1
330	1255.3	449.5	0.587	22.1	69.5	79.9
340	1186.5	518.3	0.631	39.8	75.9	87.4
350	1229.5	475.3	0.604	62.7	77.4	88.0

*Based on data from FCC 3-second data base.

DTV Channel 18 (494-500 MHz)
 Average Elevation 3.2 to 16.1 km 777.8 meters AMSL
 Center of Radiation 1704.8 meters AMSL
 Antenna Height Above Average Terrain 927 meters
 Effective Radiated Power 180 kW (22.55 dBk) Max

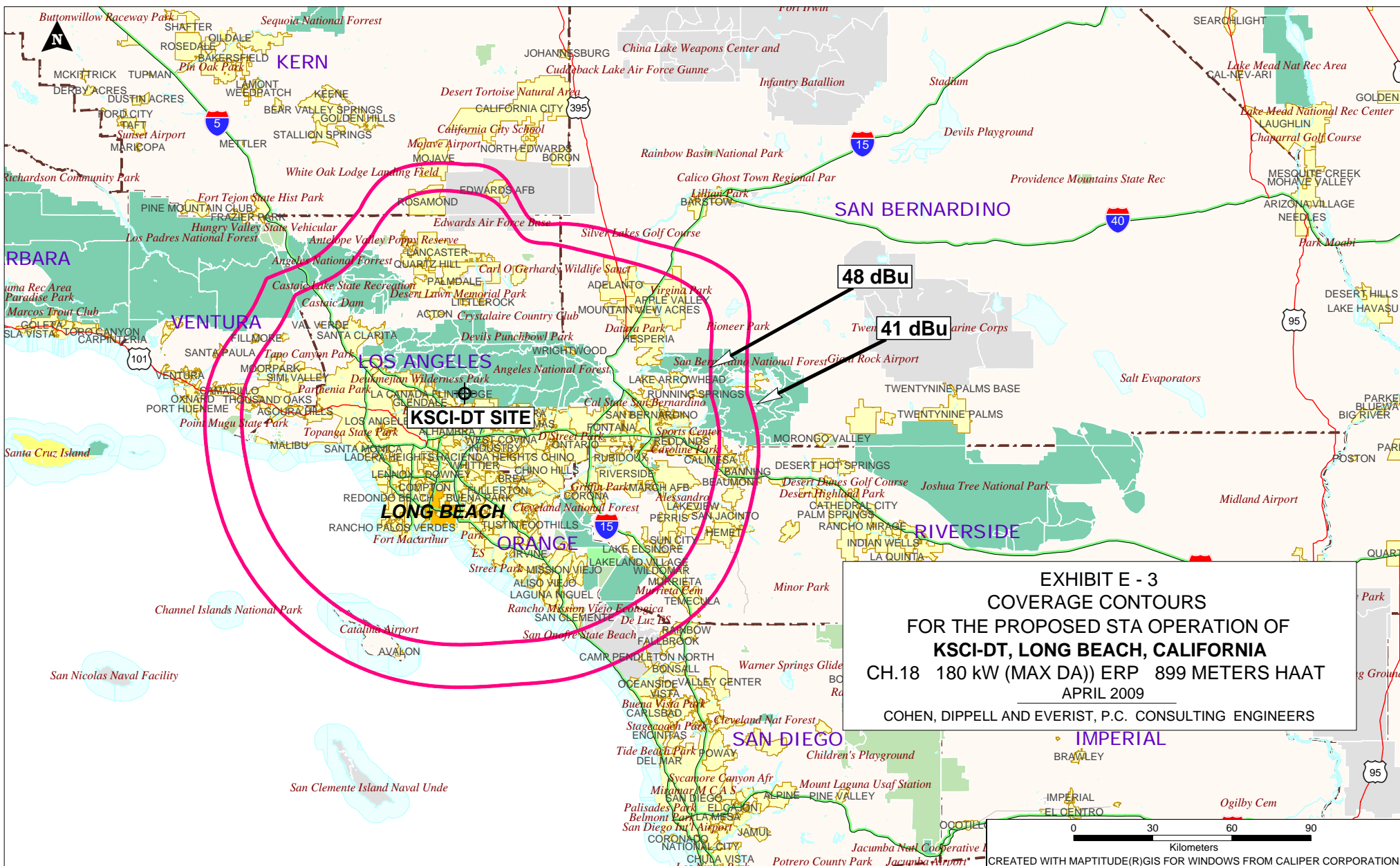
North Latitude: 34° 12' 48"
 West Longitude: 118° 03' 41"

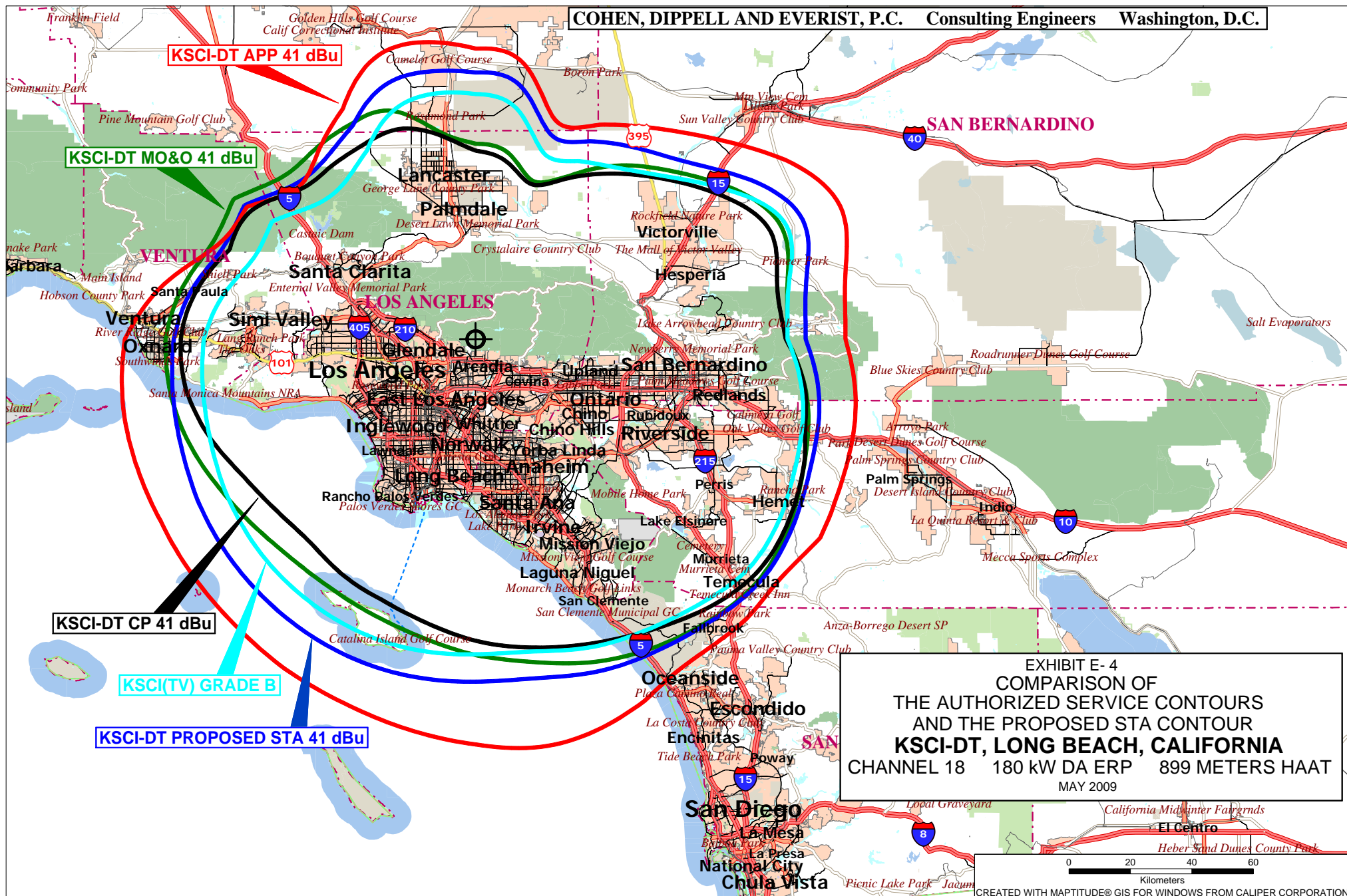
(NAD-27)

COHEN, DIPPELL AND EVERIST, P.C.

TABLE II
POST-TRANSITION LONGLEY-RICE (OET 69) INTERFERENCE ANALYSIS
FOR THE PROPOSED OPERATION OF
KSCI-DT, LONG BEACH, CALIFORNIA
CHANNEL 18 180 KW H 36 KW V MAX ERP 899 METERS HAAT ELLIPTICAL
MAY 2009

<u>Channel</u>	<u>Call</u>	<u>City/State</u>	<u>Dist(km)</u>	<u>Status</u>	<u>FCC File No.</u>	<u>Result</u>
17	K17DI	SAN DIEGO CA	190	LIC	BLTTL-19971121IF	No interference
17	KBNT-CA	SAN DIEGO CA	188.1	APP	BPTTA-20080801APJ	No interference
17	KSBB-LP	SANTA BARBARA CA	152.7	LIC	BLTTL-20010710AAX	No interference
18	KUSI-DT	SAN DIEGO CA	198.3	LIC	BLCDT-20060515ADM	0.02%
18	KUSI-TV	SAN DIEGO CA	198.3	PLN	DTVPLN-DTVPLN10238	0.02%
18	KMMA-LP	SAN LUIS OBISPO CA	269	LIC	BLTT-19980320JC	No interference
19	KAZB-CA	BAKERSFIELD CA	146	LIC	BLTTA-20030710ABR	No interference
19	KSWB-DT	SAN DIEGO CA	198.3	LIC	BLCDT-20040722AAO	0.05%
19	KSWB-TV	SAN DIEGO CA	198.3	PLN	DTVPLN-DTVPLN58827	0.05%
19	KSWB-TV	SAN DIEGO CA	198.3	APP	BPCDT-20080620ADN	-0.09%
19	KCOY-DT	SANTA MARIA CA	209.3	LIC	BLCDT-20030604ACM	No interference
19	KCOY-TV	SANTA MARIA CA	209.3	PLN	DTVPLN-DTVPLN63165	No interference
25	KNET-LP	LOS ANGELES CA	0.1	LIC	BLTTA-20060925AGZ	0.00%
25	KNET-LP	LOS ANGELES CA	0	APP	BPTTA-20070202ABA	No interference
25	K25GV	OXNARD CA	89.2	LIC	BLTTA-20030507ACF	No interference





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.

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.

☐ Yes **KSCI-DT STA**

Exhibit No.

An exhibit is required unless this question is inapplicable.

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

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.

☐ Yes ☐ No ☐ N/A

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 Ross J. Heide	Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature <i>Ross J. Heide</i>	Date August 13, 2009	
Mailing Address Cohen, Dippell and Everist, P.C., 1300 L Street, N.W., Suite 1100		
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).