

BERNARD R. SEGAL, P. E.
CONSULTING ENGINEER
KENSINGTON, MARYLAND

ENGINEERING EXHIBIT
APPLICATION FOR
MODIFICATION OF CONSTRUCTION PERMIT
GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT, ANAHEIM, CALIFORNIA
CH.32 1000 KW (MAX-DA) 937 METERS

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ENGINEERING STATEMENT

The instant Engineering Exhibit has been prepared on behalf of Golden Orange Broadcasting Co., Inc. (hereafter, Golden Orange), the permittee in BMPCDT-20000427ABH for a digital television facility for KDOC-DT, Anaheim, California. The construction permit is for operation on Channel 32 with maximum effective radiated power of 1000 kW and antenna radiation center height of 938 meters above average terrain.

Golden Orange, now, seeks to modify the radiation pattern for its proposed operation. At the same time, a 1 meter lower height for the antenna is specified in order to be consistent with the height specified by other applicants who are proposing to share use of the same antenna.

The Antenna Structure Registration (ASR) number for the tower is 1221073. The site NAD '27 geographic coordinates are: 34° 13' 35" north latitude; 118° 03' 58" west longitude. These coordinates were converted from the NAD'83 coordinates given in the ASR.

The antenna that will be employed is a Radio Frequency Systems (RFS), model PHP30C-(32). This is the same antenna, model PHP30C, that is currently authorized for KDOC-DT use in the outstanding construction permit, but with an added sub-array to better distribute energy for the specific needs of KDOC-DT than was possible for the generic design that was developed for the multiple stations that will be sharing use of the

antenna. The (32) suffix is used to distinguish the antenna with the sub-array from the main generic antenna.

The undersigned was furnished with the tabulated, normalized, vertical plane, relative field, pattern data for the modified antenna, and that information is included in Figure 3. Additional data for bearings that are important for Mexican notification purposes, if needed, were supplied, and are presented in Figure E of the Appendix. The undersigned has prepared the Appendix, which deals solely with a Mexican, Tijuana, Channel 32, allotment protection matter, as a self contained document that may be used for notification purposes, at the FCC's discretion.

Figure 1, Sheet 2, is the composite radiation pattern, based on one degree azimuth intervals, using the maximum relative field (e/e_{\max}) value that occurs in the vertical plane in each direction. The maximum radiation of 1000 kW occurs at a depression angle of 1.4° below the horizontal plane along the 276° true bearing. The power gain is 15.86 dBd.

Figure 1, Sheet 1, is the normalized composite relative field pattern at 10° azimuth intervals for depression angles to the radio horizon. The pattern of Sheet 1 includes additional values at 15° azimuth intervals to permit better definition of the coverage than can be determined from use of only the standard 45° spaced intervals that are called for in the FCC Rules. Unity on the pattern of Sheet 1 corresponds to an effective radiated power of 855 kW.

Figure 2 includes tabulations of data for the patterns of Figure 1, Sheets 1 and 2. Figure 2, also, includes the antenna radiation center height above average terrain in each direction. The depression angle to the radio horizon that is listed for each direction was determined from the antenna radiation center height above the 3.2-16.1 kilometer terrain

average using the empirical equation in Section 73.625(b)(2) of the FCC Rules. The U.S.G.S. 3 arc-second terrain elevation database was the source for the terrain elevation data.

The normalized data in Figure 3 were used to draw the eight vertical plane patterns of Figure 4. The depression angle to the radio horizon is identified on each pattern. These graphs permitted a determination as to whether or not the radiation at the depression angle to the radio horizon was equal to, or greater than, 90% of the maximum in the vertical plane in each radial direction. As required by the FCC Rules, the maximum radiation in the vertical plane was used to determine the distance to the contour if the relative field was equal to, or greater than, 90% of the maximum in a given direction.

The data of Figure 3 were used, also, to determine if the radiation to the radio horizon was equal to, or greater than, 90% of the maximum in the vertical plane for other supplemental radial directions that were used to calculate the distances to the 48 dBu (principal city) and 41 dBu (noise limited) contours that are shown in Figure 6. The tabulation of Figure 5 provides the underlying support information for the contours shown in Figure 6.

Compliance with the FCC requirements for interference protection to domestic NTSC and DTV facilities is achieved with the facilities proposed herein. The studies that were made to determine compliance used a FCC matched computer analysis taking into account the facilities for other NTSC and DTV stations according to the conditions at the time of the original allotments in Appendix B of the Second Memorandum Opinion and Order on Reconsideration of the Fifth and Sixth Report and Orders in MM Docket Number 87-268, and as currently authorized, or proposed, where the current existing or

proposed facilities result in coverage exceeding the then authorized NTSC facilities, or the original DTV allotment facilities.

A Sunblade processor was used with the FCC's TV_Process program. The TV_Process program takes into account all possible interference scenarios in determining compliance with the FCC's interference criteria. The processor output was scanned for any "failed" condition. No report of a failed condition occurred. A "failed" condition would have signified that the proposed KDOC-DT facility would create more than 2%, de minimis, interference to the particular station under review. The NTSC stations that were reviewed were: KCET, Los Angeles, CA, Channel 28; KPXN, San Bernardino, CA, Channel 30; KMEX-TV, Los Angeles, Channel 34; and KTBN-TV, Santa Ana, CA, Channel 40. The DTV stations that were reviewed were: KMCC-DT, Laughlin, AZ (formerly, Lake Havasu City, AZ), Channel 32; KBAK-DT, Bakersfield, CA, Channel 33; and KTLA-DT, Los Angeles, CA, Channel 31.

No television Class A stations are close enough to merit consideration. It is believed that the instant proposal is in compliance with all the Rules governing domestic interference issues.

The allocation concerns with respect to Mexico are reviewed in the accompanying Appendix. The Appendix demonstrates that the operation now proposed for KDOC-DT is configured to avoid increasing radiation toward the Tijuana, BC, Ch. 32, allotment in the Memorandum of Understanding (MOU), over that which had previously been agreed to by Mexico, either, as part of the original MOU Table of DTV Allotments which included Channel 32 at Anaheim when 200 kW ERP was permitted for KDOC-DT, or in the 200 kW (max-DA) granted application (BPCDT-19981028KE) for KDOC-DT operation at Mt. Wilson, or the later granted 1000 kW (max-DA) CP modification application,

(BMPCDT-20000427ABH) for KDOC-DT operation at Mt. Wilson, which the instant proposal seeks to modify. The maximum threshold ERP of 200 kW is not exceeded toward any point of interest along the common boundary.

Since the instant proposal does not increase radiation toward the Tijuana, Channel 32, allotment over that which, already, has been determined by Mexico to be acceptable, it is believed that only notification is required. As indicated in an earlier paragraph, the Appendix may, in an abundance of caution, if deemed necessary, be used as a self-contained package for Mexican notification purposes.

As to environmental impact issues, the only concern for KDOC-DT relates to radio-frequency radiation exposure to persons at uncontrolled and controlled locations. Upon completion of the master antenna installation, and with all the participating stations operating at their authorized power levels, measurements will be conducted in the vicinity of the tower to establish if there are any publicly accessible spots with levels of radiation that exceed the maximum permissible exposure (MPE). Appropriate corrective measures will be taken if it develops that excessive radiation levels are present.

As to the avoidance of overexposure of workers to rfr at controlled locations, the following is germane. The tower is located within a fence-enclosed area. Access within the fence is permitted only to authorized personnel. Radiation hazard warning signs are posted on the fence. Thus, the fence-enclosed area is a controlled work area. The tower owner has instituted procedures that require the cessation of excitation to the master A and B antennas whenever a worker's activities will place him (or, her) so close as to otherwise result in excessive rfr exposure according to the ANSI/IEEE C95.1-1992 adopted standard. Based on the foregoing, both the public and workers will be protected from overexposure to rfr according to the adopted standard.

Engineering Statement
Application for Modification of Construction Permit
KDOC-DT, Anaheim, California

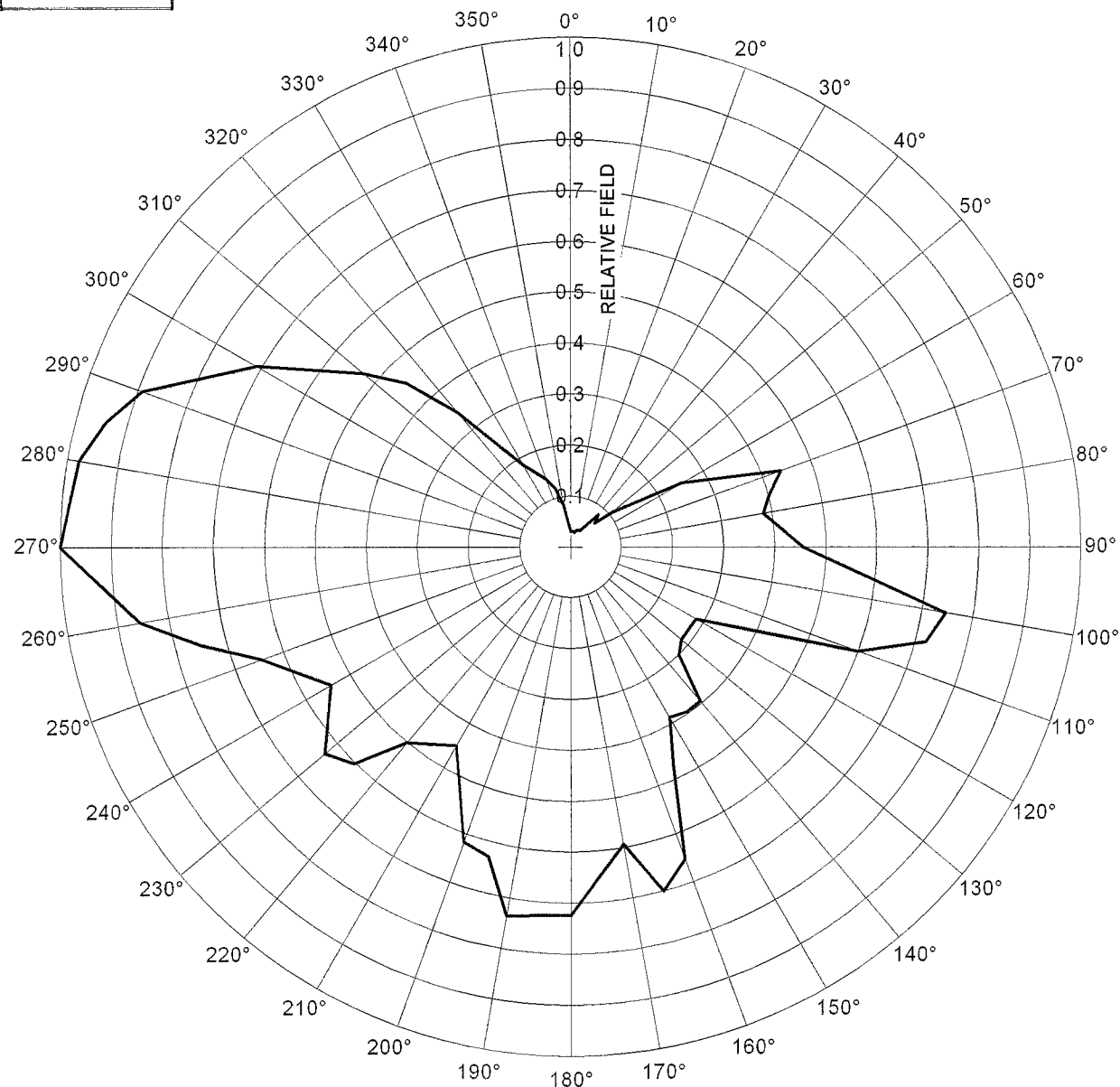
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The instant amendment will not alter the conclusion that no significant impact on the environment will result from implementation of this modification application. An environmental assessment is not required for this proposal.

I declare under penalty of perjury that the foregoing is true and correct. Executed on March 17, 2004.


Bernard R. Segal, P. E.

MARCH 2004



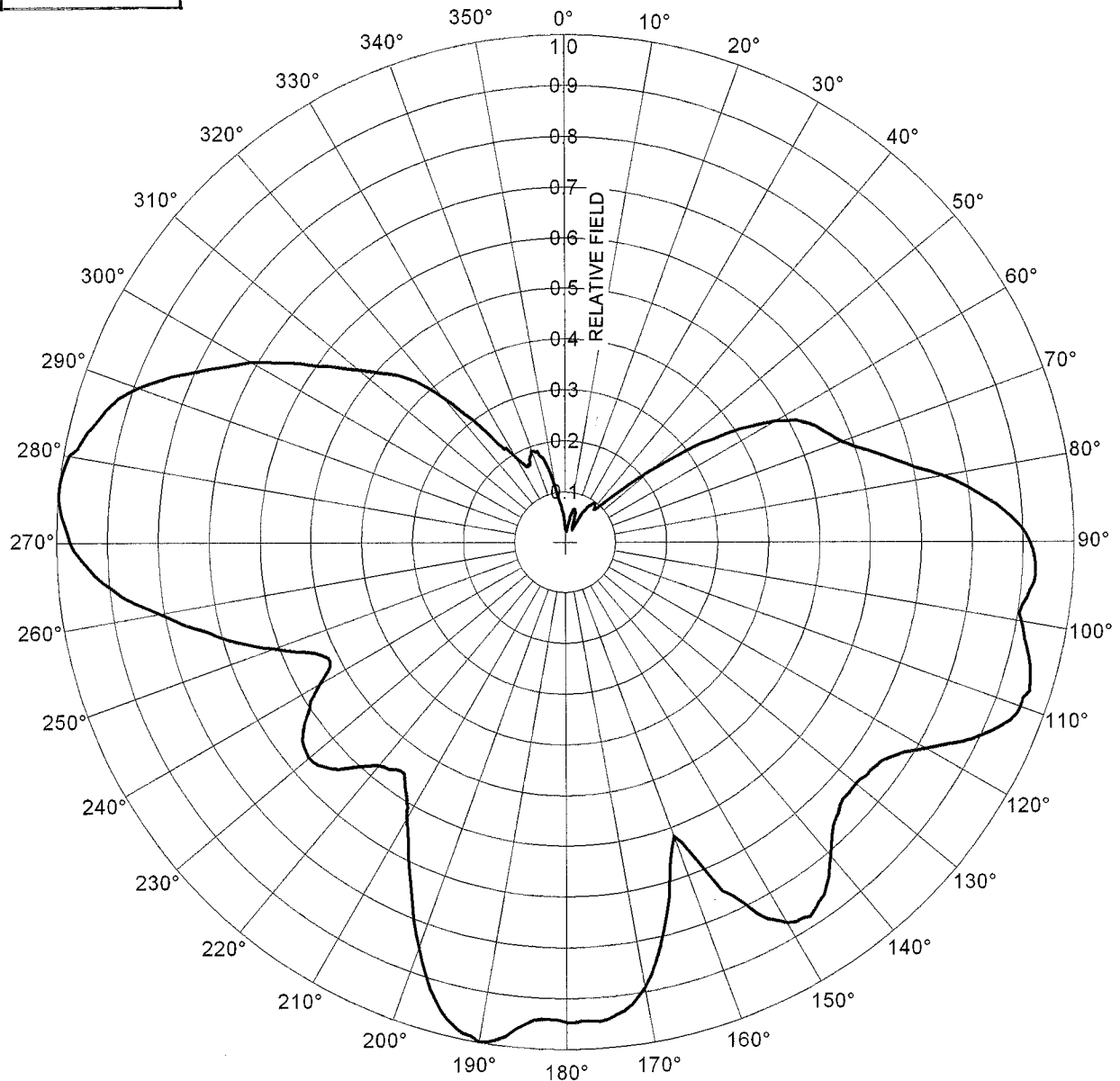
NOTE: COMPOSITE PATTERN MAXIMUM ERP = 855 KW

**COMPOSITE AZIMUTH PATTERN AT
DEPRESSION ANGLES TO THE RADIO HORIZON**

**GOLDEN ORANGE BROADCASTING CO., INC.
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CH. 32 1000 KW (MAX-DA) 937 METERS**

Bernard R. Segal, P. E. Consulting Engineer

MARCH 2004



NOTE: COMPOSITE PATTERN MAXIMUM ERP = 1000 KW

**COMPOSITE AZIMUTH PATTERN USING
MAXIMUM VERTICAL PLANE RADIATION VALUES**

GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT ANAHEIM, CALIFORNIA
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FIGURE 2
Sheet 1 of 2

TABULATION OF DATA FOR KDOC-DT AZIMUTH PATTERNS

Azimuth	Rad. Center Above 3.2-16.1 km Terrain Avg.	Depr. Angle To Radio Horizon	Rel. Field At R.H. Depr. Angle	Fig.1 Sheet 1 Normal- ized Value	Depr. Angle For Max. Radiation	Fig.1, Sht 2 Rel. Field At Depr. Angle For Max. Rad
(Deg. T)	(meters)	(Deg.)			(Deg.)	
0	421	0.6	0.0282	0.031	2.8	0.0310
10	497	0.6	0.0287	0.031	2.7	0.0455
15	398	0.6	0.0272	0.029	2.3	0.0674
20	351	0.5	0.0326	0.035	1.8	0.0565
30	316	0.5	0.0352	0.038	1.8	0.0662
40	372	0.5	0.0774	0.084	1.5	0.0902
45	402	0.6	0.0623	0.067	2.9	0.1190
50	425	0.6	0.0982	0.106	2.7	0.2218
60	687	0.7	0.2327	0.252	2.2	0.4748
70	797	0.8	0.4043	0.437	2.5	0.5780
75	926	0.8	0.3714	0.402	2.6	0.6507
80	998	0.9	0.3536	0.382	2.6	0.7525
90	660	0.7	0.4203	0.455	2.2	0.9122
100	768	0.8	0.6894	0.746	2.6	0.9095
105	900	0.8	0.6652	0.719	2.8	0.9434
110	923	0.8	0.5532	0.598	2.7	0.9495
120	1119	0.9	0.2611	0.282	2.5	0.8143
130	1343	1.0	0.2614	0.283	2.2	0.7416
135	1402	1.0	0.2775	0.300	2.2	0.7548
140	1439	1.1	0.3648	0.395	2.3	0.8054
145	1457	1.1	0.3655	0.395	2.3	0.8641
150	1490	1.1	0.3573	0.386	2.5	0.8658
155	1527	1.1	0.4381	0.474	2.7	0.7685
160	1543	1.1	0.6028	0.652	2.8	0.6171
165	1522	1.1	0.6461	0.699	1.8	0.7599
170	1518	1.1	0.5473	0.592	2.2	0.8894
180	1519	1.1	0.6680	0.723	2.6	0.9460
190	1536	1.1	0.6785	0.734	2.3	0.9989
195	1528	1.1	0.5802	0.628	2.4	0.9542
200	1518	1.1	0.5695	0.616	2.5	0.8489
210	1503	1.1	0.4164	0.450	2.4	0.6264
220	1491	1.1	0.4641	0.502	2.2	0.5737
225	1478	1.1	0.5559	0.601	1.9	0.6310
230	1439	1.1	0.5825	0.630	1.9	0.6589
240	1335	1.0	0.5013	0.542	1.7	0.5570
250	1279	1.0	0.5965	0.645	1.2	0.6089

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FIGURE 2
Sheet 2 of 2

TABULATION OF DATA FOR KDOC-DT AZIMUTH PATTERNS

Azimuth	Rad. Center Above 3.2-16.1 km Terrain Avg.	Depr. Angle To Radio Horizon	Rel. Field At R.H. Depr. Angle	Fig.1 Sheet 1 Normal- ized Value	Depr. Angle For Max. Radiation	Fig.1, Sht 2 Rel. Field At Depr. Angle For Max. Rad
(Deg. T)	(meters)	(Deg.)			(Deg.)	
255	1247	1.0	0.6911	0.747	1.3	0.7103
260	1190	1.0	0.7914	0.856	1.3	0.8083
270	1005	0.9	0.9246	1.000	1.4	0.9927
280	741	0.8	0.9035	0.977	1.4	0.9890
285	753	0.8	0.8713	0.942	1.4	0.9464
290	789	0.8	0.8256	0.893	1.4	0.8907
300	689	0.7	0.6547	0.708	1.3	0.7123
310	564	0.7	0.4900	0.530	1.3	0.5298
315	607	0.7	0.4207	0.455	1.5	0.4669
320	509	0.6	0.3188	0.345	1.6	0.3752
330	597	0.7	0.1709	0.185	1.3	0.1929
340	632	0.7	0.1326	0.143	2.0	0.1920
345	589	0.7	0.1109	0.120	2.1	0.1726
350	563	0.7	0.0778	0.084	2.2	0.1126

Average 937
(Standard eight radials)

Note: Unity at 270° true for Figure 1, Sheet 1, corresponds to 855 kW. The maximum radiation of 1000 kW for Figure 1, Sheet 2 occurs at an azimuth angle of 276° true at a depression angle of 1.4° below the horizontal plane.

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

0	5	10	15
-0.0, 0.7258	-0.0, 1.0000	-0.0, 0.5736	-0.0, 0.3783
-0.3, 0.8419	-0.3, 0.9013	-0.3, 0.6066	-0.3, 0.3783
-0.6, 0.9097	-0.6, 0.7639	-0.6, 0.6308	-0.6, 0.4036
-0.9, 0.8903	-0.9, 0.6223	-0.9, 0.6220	-0.9, 0.4822
-1.2, 0.7903	-1.2, 0.4893	-1.2, 0.5956	-1.2, 0.6142
-1.5, 0.6742	-1.5, 0.3691	-1.5, 0.6022	-1.5, 0.7656
-1.8, 0.6516	-1.8, 0.2446	-1.8, 0.6879	-1.8, 0.8991
-2.1, 0.7613	-2.1, 0.0987	-2.1, 0.8242	-2.1, 0.9822
-2.4, 0.9065	-2.4, 0.0644	-2.4, 0.9429	-2.3, 1.0000
-2.7, 0.9935	-2.7, 0.2146	-2.7, 1.0000	-2.7, 0.9451
-2.8, 1.0000	-3.0, 0.3348	-3.0, 0.9736	-3.0, 0.8427
-3.3, 0.8774	-3.3, 0.3948	-3.3, 0.8725	-3.3, 0.7136
-3.6, 0.7258	-3.6, 0.3948	-3.6, 0.7319	-3.6, 0.5875
-3.9, 0.5871	-3.9, 0.3305	-3.9, 0.5956	-3.9, 0.4807
-4.2, 0.5065	-4.2, 0.2361	-4.2, 0.4923	-4.2, 0.3902
-4.5, 0.4710	-4.5, 0.1545	-4.5, 0.4264	-4.5, 0.3101
-4.8, 0.4323	-4.8, 0.1545	-4.8, 0.3736	-4.8, 0.2389
-5.1, 0.3645	-5.1, 0.1931	-5.1, 0.3121	-5.1, 0.1958
-5.4, 0.2903	-5.4, 0.2017	-5.4, 0.2549	-5.4, 0.2003
-5.7, 0.2645	-5.7, 0.1717	-5.7, 0.2308	-5.7, 0.2240
-6.0, 0.2935	-6.0, 0.1116	-6.0, 0.2462	-6.0, 0.2359
-6.3, 0.3258	-6.3, 0.0429	-6.3, 0.2615	-6.3, 0.2196
-6.6, 0.3226	-6.6, 0.0472	-6.6, 0.2527	-6.6, 0.1810
-6.9, 0.2839	-6.9, 0.0815	-6.9, 0.2176	-6.9, 0.1365
-7.2, 0.2355	-7.2, 0.0901	-7.2, 0.1758	-7.2, 0.1128
-7.5, 0.2065	-7.5, 0.0730	-7.5, 0.1604	-7.5, 0.1187
-7.8, 0.2032	-7.8, 0.0558	-7.8, 0.1714	-7.8, 0.1320
-8.1, 0.2032	-8.1, 0.0773	-8.1, 0.1824	-8.1, 0.1365
-8.4, 0.1839	-8.4, 0.1116	-8.4, 0.1802	-8.4, 0.1350
-8.7, 0.1613	-8.7, 0.1330	-8.7, 0.1626	-8.7, 0.1320
-9.0, 0.1581	-9.0, 0.1245	-9.0, 0.1495	-9.0, 0.1306
-9.3, 0.1839	-9.3, 0.0901	-9.3, 0.1516	-9.3, 0.1261
-9.6, 0.2129	-9.6, 0.0472	-9.6, 0.1604	-9.6, 0.1157
-10.0, 0.2226	-10.0, 0.0300	-10.0, 0.1604	-10.0, 0.0950
-10.5, 0.1806	-10.5, 0.0858	-10.5, 0.1319	-10.5, 0.0846
-11.0, 0.1323	-11.0, 0.0987	-11.0, 0.1011	-11.0, 0.0994
-11.5, 0.1387	-11.5, 0.0644	-11.5, 0.1033	-11.5, 0.1009
-12.0, 0.1645	-12.0, 0.0086	-12.0, 0.1187	-12.0, 0.0801
-12.5, 0.1548	-12.5, 0.0601	-12.5, 0.1209	-12.5, 0.0549
-13.0, 0.1161	-13.0, 0.1030	-13.0, 0.1033	-13.0, 0.0742
-13.5, 0.1194	-13.5, 0.1030	-13.5, 0.1033	-13.5, 0.1128
-14.0, 0.1710	-14.0, 0.0601	-14.0, 0.1319	-14.0, 0.1231

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

20	25	30	35
-0.0, 0.3451	-0.0, 0.9779	-0.0, 0.3202	-0.0, 0.4919
-0.3, 0.4796	-0.2, 1.0000	-0.3, 0.4335	-0.3, 0.6289
-0.6, 0.6265	-0.6, 0.9180	-0.6, 0.5816	-0.6, 0.7659
-0.9, 0.7699	-0.9, 0.7666	-0.9, 0.7387	-0.9, 0.8824
-1.2, 0.8903	-1.2, 0.5710	-1.2, 0.8761	-1.2, 0.9633
-1.5, 0.9717	-1.5, 0.3785	-1.5, 0.9668	-1.5, 0.9989
-1.8, 1.0000	-1.8, 0.2524	-1.8, 1.0000	-1.6, 1.0000
-2.1, 0.9770	-2.1, 0.2271	-2.1, 0.9758	-2.1, 0.9374
-2.4, 0.9097	-2.4, 0.2713	-2.4, 0.9079	-2.4, 0.8576
-2.7, 0.8177	-2.7, 0.3407	-2.7, 0.8218	-2.7, 0.7605
-3.0, 0.7186	-3.0, 0.4227	-3.0, 0.7341	-3.0, 0.6537
-3.3, 0.6230	-3.3, 0.5047	-3.3, 0.6541	-3.3, 0.5415
-3.6, 0.5327	-3.6, 0.5647	-3.6, 0.5801	-3.6, 0.4261
-3.9, 0.4354	-3.9, 0.5773	-3.9, 0.5060	-3.9, 0.3150
-4.2, 0.3292	-4.2, 0.5331	-4.2, 0.4350	-4.2, 0.2255
-4.5, 0.2159	-4.5, 0.4416	-4.5, 0.3792	-4.5, 0.1823
-4.8, 0.1257	-4.8, 0.3312	-4.8, 0.3505	-4.8, 0.1888
-5.1, 0.1150	-5.1, 0.2492	-5.1, 0.3399	-5.1, 0.2093
-5.4, 0.1611	-5.4, 0.2271	-5.4, 0.3308	-5.4, 0.2157
-5.7, 0.1912	-5.7, 0.2461	-5.7, 0.3082	-5.7, 0.2017
-6.0, 0.1894	-6.0, 0.2618	-6.0, 0.2734	-6.0, 0.1704
-6.3, 0.1611	-6.3, 0.2555	-6.3, 0.2387	-6.3, 0.1348
-6.6, 0.1186	-6.6, 0.2397	-6.6, 0.2160	-6.6, 0.1079
-6.9, 0.0779	-6.9, 0.2208	-6.9, 0.2085	-6.9, 0.0982
-7.2, 0.0584	-7.2, 0.1987	-7.2, 0.2054	-7.2, 0.1036
-7.5, 0.0637	-7.5, 0.1735	-7.5, 0.2009	-7.5, 0.1133
-7.8, 0.0779	-7.8, 0.1388	-7.8, 0.1949	-7.8, 0.1219
-8.1, 0.0920	-8.1, 0.1199	-8.1, 0.1888	-8.1, 0.1251
-8.4, 0.1062	-8.4, 0.1420	-8.4, 0.1858	-8.4, 0.1208
-8.7, 0.1133	-8.7, 0.1830	-8.7, 0.1828	-8.7, 0.1079
-9.0, 0.1097	-9.0, 0.2114	-9.0, 0.1767	-9.0, 0.0906
-9.3, 0.0920	-9.3, 0.2177	-9.3, 0.1677	-9.3, 0.0787
-9.6, 0.0619	-9.6, 0.1987	-9.6, 0.1631	-9.6, 0.0820
-10.0, 0.0230	-10.0, 0.1388	-10.0, 0.1631	-10.0, 0.1025
-10.5, 0.0637	-10.5, 0.0852	-10.5, 0.1647	-10.5, 0.1165
-11.0, 0.0956	-11.0, 0.1230	-11.0, 0.1480	-11.0, 0.1003
-11.5, 0.0903	-11.5, 0.1640	-11.5, 0.1178	-11.5, 0.0583
-12.0, 0.0531	-12.0, 0.1609	-12.0, 0.1057	-12.0, 0.0388
-12.5, 0.0071	-12.5, 0.1136	-12.5, 0.1299	-12.5, 0.0831
-13.0, 0.0637	-13.0, 0.0726	-13.0, 0.1571	-13.0, 0.1187
-13.5, 0.0991	-13.5, 0.1009	-13.5, 0.1601	-13.5, 0.1219
-14.0, 0.0973	-14.0, 0.1293	-14.0, 0.1360	-14.0, 0.0971

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

40	45	50	55
-0.0, 0.7095	-0.0, 0.5244	-0.0, 0.3197	-0.0, 0.2828
-0.3, 0.8038	-0.3, 0.5109	-0.3, 0.3634	-0.3, 0.3340
-0.6, 0.8858	-0.6, 0.5235	-0.6, 0.4427	-0.6, 0.4142
-0.9, 0.9479	-0.9, 0.5739	-0.9, 0.5365	-0.9, 0.5192
-1.2, 0.9867	-1.2, 0.6504	-1.2, 0.6321	-1.2, 0.6424
-1.5, 1.0000	-1.5, 0.7336	-1.5, 0.7290	-1.5, 0.7704
-1.8, 0.9889	-1.8, 0.8143	-1.8, 0.8255	-1.8, 0.8848
-2.1, 0.9601	-2.1, 0.8882	-2.1, 0.9134	-2.1, 0.9661
-2.4, 0.9169	-2.4, 0.9513	-2.4, 0.9766	-2.4, 1.0000
-2.7, 0.8603	-2.7, 0.9916	-2.7, 1.0000	-2.7, 0.9826
-3.0, 0.7894	-2.9, 1.0000	-3.0, 0.9743	-3.0, 0.9192
-3.3, 0.6984	-3.3, 0.9538	-3.3, 0.8999	-3.3, 0.8213
-3.6, 0.5865	-3.6, 0.8639	-3.6, 0.7890	-3.6, 0.7064
-3.9, 0.4568	-3.9, 0.7345	-3.9, 0.6610	-3.9, 0.5883
-4.2, 0.3215	-4.2, 0.5882	-4.2, 0.5361	-4.2, 0.4771
-4.5, 0.1996	-4.5, 0.4513	-4.5, 0.4319	-4.5, 0.3789
-4.8, 0.1231	-4.8, 0.3521	-4.8, 0.3566	-4.8, 0.3030
-5.1, 0.1275	-5.1, 0.3042	-5.1, 0.3102	-5.1, 0.2606
-5.4, 0.1619	-5.4, 0.2950	-5.4, 0.2890	-5.4, 0.2543
-5.7, 0.1818	-5.7, 0.2983	-5.7, 0.2858	-5.7, 0.2666
-6.0, 0.1807	-6.0, 0.3008	-6.0, 0.2894	-6.0, 0.2734
-6.3, 0.1619	-6.3, 0.2950	-6.3, 0.2863	-6.3, 0.2626
-6.6, 0.1330	-6.6, 0.2782	-6.6, 0.2687	-6.6, 0.2344
-6.9, 0.0987	-6.9, 0.2487	-6.9, 0.2376	-6.9, 0.1983
-7.2, 0.0665	-7.2, 0.2092	-7.2, 0.2024	-7.2, 0.1684
-7.5, 0.0499	-7.5, 0.1731	-7.5, 0.1781	-7.5, 0.1559
-7.8, 0.0643	-7.8, 0.1588	-7.8, 0.1740	-7.8, 0.1579
-8.1, 0.0898	-8.1, 0.1714	-8.1, 0.1812	-8.1, 0.1633
-8.4, 0.1075	-8.4, 0.1908	-8.4, 0.1867	-8.4, 0.1653
-8.7, 0.1109	-8.7, 0.1992	-8.7, 0.1830	-8.7, 0.1622
-9.0, 0.0976	-9.0, 0.1899	-9.0, 0.1722	-9.0, 0.1553
-9.3, 0.0710	-9.3, 0.1672	-9.3, 0.1592	-9.3, 0.1459
-9.6, 0.0421	-9.6, 0.1412	-9.6, 0.1497	-9.6, 0.1354
-10.0, 0.0455	-10.0, 0.1261	-10.0, 0.1452	-10.0, 0.1246
-10.5, 0.0920	-10.5, 0.1462	-10.5, 0.1479	-10.5, 0.1255
-11.0, 0.1120	-11.0, 0.1681	-11.0, 0.1492	-11.0, 0.1340
-11.5, 0.0942	-11.5, 0.1597	-11.5, 0.1393	-11.5, 0.1289
-12.0, 0.0466	-12.0, 0.1210	-12.0, 0.1177	-12.0, 0.1050
-12.5, 0.0200	-12.5, 0.0790	-12.5, 0.0992	-12.5, 0.0811
-13.0, 0.0765	-13.0, 0.0891	-13.0, 0.1023	-13.0, 0.0908
-13.5, 0.1098	-13.5, 0.1261	-13.5, 0.1231	-13.5, 0.1212
-14.0, 0.1098	-14.0, 0.1479	-14.0, 0.1411	-14.0, 0.1363

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

60	65	70	75
-0.0, 0.2403	-0.0, 0.3714	-0.0, 0.4907	-0.0, 0.4403
-0.3, 0.3229	-0.3, 0.4621	-0.3, 0.5531	-0.3, 0.4706
-0.6, 0.4425	-0.6, 0.5809	-0.6, 0.6379	-0.6, 0.5251
-0.9, 0.5851	-0.9, 0.7106	-0.9, 0.7301	-0.9, 0.5935
-1.2, 0.7306	-1.2, 0.8299	-1.2, 0.8142	-1.2, 0.6702
-1.5, 0.8580	-1.5, 0.9221	-1.5, 0.8829	-1.5, 0.7549
-1.8, 0.9499	-1.8, 0.9789	-1.8, 0.9362	-1.8, 0.8446
-2.1, 0.9956	-2.1, 1.0000	-2.1, 0.9756	-2.1, 0.9273
-2.2, 1.0000	-2.4, 0.9900	-2.4, 0.9978	-2.4, 0.9845
-2.7, 0.9507	-2.7, 0.9557	-2.5, 1.0000	-2.6, 1.0000
-3.0, 0.8783	-3.0, 0.8992	-3.0, 0.9567	-3.0, 0.9633
-3.3, 0.7854	-3.3, 0.8181	-3.3, 0.8770	-3.3, 0.8772
-3.6, 0.6805	-3.6, 0.7132	-3.6, 0.7602	-3.6, 0.7558
-3.9, 0.5676	-3.9, 0.5881	-3.9, 0.6204	-3.9, 0.6196
-4.2, 0.4513	-4.2, 0.4557	-4.2, 0.4789	-4.2, 0.4902
-4.5, 0.3441	-4.5, 0.3384	-4.5, 0.3623	-4.5, 0.3850
-4.8, 0.2666	-4.8, 0.2651	-4.8, 0.2919	-4.8, 0.3112
-5.1, 0.2390	-5.1, 0.2479	-5.1, 0.2663	-5.1, 0.2677
-5.4, 0.2498	-5.4, 0.2588	-5.4, 0.2626	-5.4, 0.2500
-5.7, 0.2647	-5.7, 0.2654	-5.7, 0.2609	-5.7, 0.2505
-6.0, 0.2633	-6.0, 0.2560	-6.0, 0.2543	-6.0, 0.2566
-6.3, 0.2420	-6.3, 0.2329	-6.3, 0.2415	-6.3, 0.2550
-6.6, 0.2085	-6.6, 0.2039	-6.6, 0.2213	-6.6, 0.2377
-6.9, 0.1750	-6.9, 0.1758	-6.9, 0.1939	-6.9, 0.2061
-7.2, 0.1523	-7.2, 0.1539	-7.2, 0.1654	-7.2, 0.1712
-7.5, 0.1443	-7.5, 0.1426	-7.5, 0.1478	-7.5, 0.1506
-7.8, 0.1468	-7.8, 0.1448	-7.8, 0.1498	-7.8, 0.1523
-8.1, 0.1533	-8.1, 0.1553	-8.1, 0.1631	-8.1, 0.1640
-8.4, 0.1586	-8.4, 0.1644	-8.4, 0.1723	-8.4, 0.1695
-8.7, 0.1586	-8.7, 0.1638	-8.7, 0.1680	-8.7, 0.1634
-9.0, 0.1510	-9.0, 0.1504	-9.0, 0.1502	-9.0, 0.1483
-9.3, 0.1356	-9.3, 0.1271	-9.3, 0.1254	-9.3, 0.1316
-9.6, 0.1171	-9.6, 0.1044	-9.6, 0.1073	-9.6, 0.1208
-10.0, 0.1034	-10.0, 0.0990	-10.0, 0.1100	-10.0, 0.1199
-10.5, 0.1186	-10.5, 0.1269	-10.5, 0.1341	-10.5, 0.1282
-11.0, 0.1356	-11.0, 0.1419	-11.0, 0.1413	-11.0, 0.1314
-11.5, 0.1255	-11.5, 0.1232	-11.5, 0.1206	-11.5, 0.1200
-12.0, 0.0906	-12.0, 0.0807	-12.0, 0.0837	-12.0, 0.0964
-12.5, 0.0638	-12.5, 0.0610	-12.5, 0.0706	-12.5, 0.0796
-13.0, 0.0908	-13.0, 0.0970	-13.0, 0.0971	-13.0, 0.0874
-13.5, 0.1247	-13.5, 0.1258	-13.5, 0.1190	-13.5, 0.1079
-14.0, 0.1302	-14.0, 0.1245	-14.0, 0.1216	-14.0, 0.1223

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

80	85	90	95
-0.0, 0.3143	-0.0, 0.1652	-0.0, 0.1719	-0.0, 0.3193
-0.3, 0.3374	-0.3, 0.2139	-0.3, 0.2655	-0.3, 0.4136
-0.6, 0.3895	-0.6, 0.3123	-0.6, 0.4052	-0.6, 0.5518
-0.9, 0.4699	-0.9, 0.4524	-0.9, 0.5716	-0.9, 0.7057
-1.2, 0.5785	-1.2, 0.6143	-1.2, 0.7366	-1.2, 0.8429
-1.5, 0.7066	-1.5, 0.7722	-1.5, 0.8736	-1.5, 0.9405
-1.8, 0.8342	-1.8, 0.9003	-1.8, 0.9637	-1.8, 0.9907
-2.1, 0.9367	-2.1, 0.9791	-2.1, 0.9997	-2.0, 1.0000
-2.4, 0.9934	-2.4, 1.0000	-2.2, 1.0000	-2.4, 0.9787
-2.6, 1.0000	-2.7, 0.9674	-2.7, 0.9386	-2.7, 0.9449
-3.0, 0.9401	-3.0, 0.8952	-3.0, 0.8716	-3.0, 0.9002
-3.3, 0.8439	-3.3, 0.7998	-3.3, 0.7927	-3.3, 0.8361
-3.6, 0.7253	-3.6, 0.6958	-3.6, 0.7025	-3.6, 0.7446
-3.9, 0.6033	-3.9, 0.5896	-3.9, 0.5971	-3.9, 0.6249
-4.2, 0.4897	-4.2, 0.4816	-4.2, 0.4785	-4.2, 0.4897
-4.5, 0.3903	-4.5, 0.3751	-4.5, 0.3615	-4.5, 0.3679
-4.8, 0.3088	-4.8, 0.2854	-4.8, 0.2758	-4.8, 0.2948
-5.1, 0.2549	-5.1, 0.2383	-5.1, 0.2494	-5.1, 0.2814
-5.4, 0.2391	-5.4, 0.2423	-5.4, 0.2656	-5.4, 0.2921
-5.7, 0.2517	-5.7, 0.2654	-5.7, 0.2817	-5.7, 0.2927
-6.0, 0.2664	-6.0, 0.2752	-6.0, 0.2766	-6.0, 0.2753
-6.3, 0.2642	-6.3, 0.2608	-6.3, 0.2506	-6.3, 0.2471
-6.6, 0.2407	-6.6, 0.2275	-6.6, 0.2155	-6.6, 0.2197
-6.9, 0.2035	-6.9, 0.1892	-6.9, 0.1846	-6.9, 0.1976
-7.2, 0.1684	-7.2, 0.1612	-7.2, 0.1650	-7.2, 0.1798
-7.5, 0.1516	-7.5, 0.1507	-7.5, 0.1558	-7.5, 0.1661
-7.8, 0.1538	-7.8, 0.1517	-7.8, 0.1537	-7.8, 0.1619
-8.1, 0.1609	-8.1, 0.1555	-8.1, 0.1576	-8.1, 0.1688
-8.4, 0.1629	-8.4, 0.1583	-8.4, 0.1648	-8.4, 0.1788
-8.7, 0.1583	-8.7, 0.1592	-8.7, 0.1687	-8.7, 0.1803
-9.0, 0.1502	-9.0, 0.1563	-9.0, 0.1629	-9.0, 0.1674
-9.3, 0.1410	-9.3, 0.1465	-9.3, 0.1453	-9.3, 0.1419
-9.6, 0.1318	-9.6, 0.1301	-9.6, 0.1207	-9.6, 0.1151
-10.0, 0.1209	-10.0, 0.1083	-10.0, 0.1001	-10.0, 0.1081
-10.5, 0.1175	-10.5, 0.1100	-10.5, 0.1205	-10.5, 0.1404
-11.0, 0.1254	-11.0, 0.1314	-11.0, 0.1453	-11.0, 0.1576
-11.5, 0.1252	-11.5, 0.1336	-11.5, 0.1378	-11.5, 0.1375
-12.0, 0.1070	-12.0, 0.1072	-12.0, 0.0991	-12.0, 0.0918
-12.5, 0.0815	-12.5, 0.0704	-12.5, 0.0627	-12.5, 0.0699
-13.0, 0.0788	-13.0, 0.0766	-13.0, 0.0893	-13.0, 0.1060
-13.5, 0.1062	-13.5, 0.1154	-13.5, 0.1268	-13.5, 0.1341
-14.0, 0.1277	-14.0, 0.1324	-14.0, 0.1320	-14.0, 0.1292

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

100	105	110	115
-0.0, 0.4745	-0.0, 0.5192	-0.0, 0.4978	-0.0, 0.4530
-0.3, 0.5610	-0.3, 0.5790	-0.3, 0.5256	-0.3, 0.4489
-0.6, 0.6791	-0.6, 0.6575	-0.6, 0.5619	-0.6, 0.4475
-0.9, 0.7975	-0.9, 0.7289	-0.9, 0.5929	-0.9, 0.4537
-1.2, 0.8892	-1.2, 0.7795	-1.2, 0.6255	-1.2, 0.4989
-1.5, 0.9447	-1.5, 0.8169	-1.5, 0.6823	-1.5, 0.6057
-1.8, 0.9716	-1.8, 0.8588	-1.8, 0.7739	-1.8, 0.7512
-2.1, 0.9856	-2.1, 0.9140	-2.1, 0.8806	-2.1, 0.8890
-2.4, 0.9964	-2.4, 0.9696	-2.4, 0.9661	-2.4, 0.9787
-2.6, 1.0000	-2.7, 0.9999	-2.7, 1.0000	-2.6, 1.0000
-3.0, 0.9758	-2.8, 1.0000	-3.0, 0.9681	-3.0, 0.9452
-3.3, 0.9097	-3.3, 0.9047	-3.3, 0.8745	-3.3, 0.8358
-3.6, 0.7986	-3.6, 0.7804	-3.6, 0.7420	-3.6, 0.7005
-3.9, 0.6556	-3.9, 0.6333	-3.9, 0.6015	-3.9, 0.5711
-4.2, 0.5082	-4.2, 0.4959	-4.2, 0.4812	-4.2, 0.4664
-4.5, 0.3922	-4.5, 0.3962	-4.5, 0.3941	-4.5, 0.3848
-4.8, 0.3321	-4.8, 0.3399	-4.8, 0.3321	-4.8, 0.3134
-5.1, 0.3150	-5.1, 0.3082	-5.1, 0.2831	-5.1, 0.2508
-5.4, 0.3073	-5.4, 0.2837	-5.4, 0.2491	-5.4, 0.2168
-5.7, 0.2922	-5.7, 0.2655	-5.7, 0.2407	-5.7, 0.2255
-6.0, 0.2728	-6.0, 0.2584	-6.0, 0.2519	-6.0, 0.2516
-6.3, 0.2554	-6.3, 0.2567	-6.3, 0.2602	-6.3, 0.2622
-6.6, 0.2401	-6.6, 0.2476	-6.6, 0.2493	-6.6, 0.2451
-6.9, 0.2208	-6.9, 0.2243	-6.9, 0.2181	-6.9, 0.2063
-7.2, 0.1965	-7.2, 0.1927	-7.2, 0.1805	-7.2, 0.1654
-7.5, 0.1765	-7.5, 0.1698	-7.5, 0.1583	-7.5, 0.1462
-7.8, 0.1730	-7.8, 0.1688	-7.8, 0.1605	-7.8, 0.1511
-8.1, 0.1835	-8.1, 0.1801	-8.1, 0.1705	-8.1, 0.1589
-8.4, 0.1924	-8.4, 0.1851	-8.4, 0.1709	-8.4, 0.1557
-8.7, 0.1872	-8.7, 0.1748	-8.7, 0.1584	-8.7, 0.1437
-9.0, 0.1662	-9.0, 0.1527	-9.0, 0.1408	-9.0, 0.1331
-9.3, 0.1380	-9.3, 0.1313	-9.3, 0.1302	-9.3, 0.1311
-9.6, 0.1197	-9.6, 0.1250	-9.6, 0.1312	-9.6, 0.1339
-10.0, 0.1299	-10.0, 0.1386	-10.0, 0.1389	-10.0, 0.1326
-10.5, 0.1590	-10.5, 0.1537	-10.5, 0.1378	-10.5, 0.1189
-11.0, 0.1615	-11.0, 0.1455	-11.0, 0.1259	-11.0, 0.1108
-11.5, 0.1316	-11.5, 0.1190	-11.5, 0.1121	-11.5, 0.1114
-12.0, 0.0911	-12.0, 0.0947	-12.0, 0.1018	-12.0, 0.1074
-12.5, 0.0885	-12.5, 0.0968	-12.5, 0.0977	-12.5, 0.0932
-13.0, 0.1192	-13.0, 0.1119	-13.0, 0.0961	-13.0, 0.0782
-13.5, 0.1337	-13.5, 0.1177	-13.5, 0.1013	-13.5, 0.0911
-14.0, 0.1261	-14.0, 0.1190	-14.0, 0.1174	-14.0, 0.1195

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

120	125	130	135
-0.0, 0.3866	-0.0, 0.3064	-0.0, 0.2438	-0.0, 0.1930
-0.3, 0.3473	-0.3, 0.2328	-0.3, 0.1447	-0.3, 0.0930
-0.6, 0.3108	-0.6, 0.1783	-0.6, 0.0881	-0.6, 0.0714
-0.9, 0.3206	-0.9, 0.2658	-0.9, 0.2739	-0.9, 0.2882
-1.2, 0.4280	-1.2, 0.4620	-1.2, 0.5097	-1.2, 0.5268
-1.5, 0.6031	-1.5, 0.6767	-1.5, 0.7325	-1.5, 0.7468
-1.8, 0.7850	-1.8, 0.8580	-1.8, 0.9021	-1.8, 0.9107
-2.1, 0.9256	-2.1, 0.9715	-2.1, 0.9907	-2.1, 0.9927
-2.4, 0.9950	-2.3, 1.0000	-2.2, 1.0000	-2.2, 1.0000
-2.5, 1.0000	-2.7, 0.9478	-2.7, 0.9134	-2.7, 0.9110
-3.0, 0.9030	-3.0, 0.8381	-3.0, 0.7940	-3.0, 0.7989
-3.3, 0.7788	-3.3, 0.7061	-3.3, 0.6702	-3.3, 0.6888
-3.6, 0.6467	-3.6, 0.5869	-3.6, 0.5717	-3.6, 0.6031
-3.9, 0.5335	-3.9, 0.4946	-3.9, 0.4970	-3.9, 0.5330
-4.2, 0.4437	-4.2, 0.4165	-4.2, 0.4221	-4.2, 0.4536
-4.5, 0.3630	-4.5, 0.3324	-4.5, 0.3305	-4.5, 0.3537
-4.8, 0.2806	-4.8, 0.2408	-4.8, 0.2338	-4.8, 0.2512
-5.1, 0.2095	-5.1, 0.1749	-5.1, 0.1812	-5.1, 0.1991
-5.4, 0.1884	-5.4, 0.1833	-5.4, 0.2086	-5.4, 0.2272
-5.7, 0.2201	-5.7, 0.2315	-5.7, 0.2565	-5.7, 0.2731
-6.0, 0.2543	-6.0, 0.2610	-6.0, 0.2755	-6.0, 0.2884
-6.3, 0.2601	-6.3, 0.2533	-6.3, 0.2551	-6.3, 0.2646
-6.6, 0.2331	-6.6, 0.2137	-6.6, 0.2071	-6.6, 0.2148
-6.9, 0.1867	-6.9, 0.1623	-6.9, 0.1561	-6.9, 0.1643
-7.2, 0.1455	-7.2, 0.1273	-7.2, 0.1294	-7.2, 0.1383
-7.5, 0.1324	-7.5, 0.1233	-7.5, 0.1297	-7.5, 0.1367
-7.8, 0.1395	-7.8, 0.1305	-7.8, 0.1334	-7.8, 0.1383
-8.1, 0.1438	-8.1, 0.1301	-8.1, 0.1297	-8.1, 0.1354
-8.4, 0.1379	-8.4, 0.1238	-8.4, 0.1268	-8.4, 0.1366
-8.7, 0.1294	-8.7, 0.1229	-8.7, 0.1338	-8.7, 0.1479
-9.0, 0.1280	-9.0, 0.1302	-9.0, 0.1454	-9.0, 0.1603
-9.3, 0.1321	-9.3, 0.1359	-9.3, 0.1485	-9.3, 0.1610
-9.6, 0.1331	-9.6, 0.1306	-9.6, 0.1362	-9.6, 0.1444
-10.0, 0.1203	-10.0, 0.1055	-10.0, 0.1017	-10.0, 0.1045
-10.5, 0.0974	-10.5, 0.0815	-10.5, 0.0824	-10.5, 0.0856
-11.0, 0.1012	-11.0, 0.1031	-11.0, 0.1145	-11.0, 0.1216
-11.5, 0.1149	-11.5, 0.1214	-11.5, 0.1311	-11.5, 0.1384
-12.0, 0.1100	-12.0, 0.1087	-12.0, 0.1106	-12.0, 0.1150
-12.5, 0.0828	-12.5, 0.0680	-12.5, 0.0614	-12.5, 0.0621
-13.0, 0.0586	-13.0, 0.0487	-13.0, 0.0554	-13.0, 0.0599
-13.5, 0.0889	-13.5, 0.0989	-13.5, 0.1123	-13.5, 0.1192
-14.0, 0.1244	-14.0, 0.1312	-14.0, 0.1390	-14.0, 0.1449

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

140	145	150	155
-0.0, 0.1368	-0.0, 0.1567	-0.0, 0.3339	-0.0, 0.5879
-0.3, 0.0489	-0.3, 0.0995	-0.3, 0.2954	-0.3, 0.5840
-0.6, 0.1013	-0.6, 0.1276	-0.6, 0.2763	-0.6, 0.5768
-0.9, 0.3023	-0.9, 0.2862	-0.9, 0.3232	-0.9, 0.5650
-1.2, 0.5282	-1.2, 0.4914	-1.2, 0.4575	-1.2, 0.5727
-1.5, 0.7406	-1.5, 0.6981	-1.5, 0.6371	-1.5, 0.6347
-1.8, 0.9029	-1.8, 0.8685	-1.8, 0.8114	-1.8, 0.7508
-2.1, 0.9892	-2.1, 0.9737	-2.1, 0.9401	-2.1, 0.8792
-2.3, 1.0000	-2.3, 1.0000	-2.4, 0.9979	-2.4, 0.9724
-2.7, 0.9269	-2.7, 0.9541	-2.5, 1.0000	-2.7, 1.0000
-3.0, 0.8238	-3.0, 0.8588	-3.0, 0.8966	-3.0, 0.9528
-3.3, 0.7172	-3.3, 0.7455	-3.3, 0.7759	-3.3, 0.8420
-3.6, 0.6289	-3.6, 0.6416	-3.6, 0.6499	-3.6, 0.6981
-3.9, 0.5533	-3.9, 0.5532	-3.9, 0.5411	-3.9, 0.5568
-4.2, 0.4693	-4.2, 0.4674	-4.2, 0.4511	-4.2, 0.4461
-4.5, 0.3673	-4.5, 0.3717	-4.5, 0.3673	-4.5, 0.3701
-4.8, 0.2630	-4.8, 0.2725	-4.8, 0.2825	-4.8, 0.3109
-5.1, 0.2046	-5.1, 0.2051	-5.1, 0.2125	-5.1, 0.2553
-5.4, 0.2255	-5.4, 0.2090	-5.4, 0.1931	-5.4, 0.2134
-5.7, 0.2697	-5.7, 0.2496	-5.7, 0.2214	-5.7, 0.2060
-6.0, 0.2871	-6.0, 0.2733	-6.0, 0.2499	-6.0, 0.2237
-6.3, 0.2663	-6.3, 0.2618	-6.3, 0.2503	-6.3, 0.2349
-6.6, 0.2188	-6.6, 0.2208	-6.6, 0.2197	-6.6, 0.2215
-6.9, 0.1680	-6.9, 0.1701	-6.9, 0.1721	-6.9, 0.1853
-7.2, 0.1389	-7.2, 0.1355	-7.2, 0.1329	-7.2, 0.1459
-7.5, 0.1353	-7.5, 0.1298	-7.5, 0.1245	-7.5, 0.1316
-7.8, 0.1383	-7.8, 0.1368	-7.8, 0.1363	-7.8, 0.1457
-8.1, 0.1383	-8.1, 0.1406	-8.1, 0.1447	-8.1, 0.1612
-8.4, 0.1414	-8.4, 0.1420	-8.4, 0.1436	-8.4, 0.1614
-8.7, 0.1520	-8.7, 0.1471	-8.7, 0.1395	-8.7, 0.1472
-9.0, 0.1629	-9.0, 0.1544	-9.0, 0.1391	-9.0, 0.1303
-9.3, 0.1627	-9.3, 0.1551	-9.3, 0.1401	-9.3, 0.1230
-9.6, 0.1460	-9.6, 0.1432	-9.6, 0.1358	-9.6, 0.1261
-10.0, 0.1063	-10.0, 0.1103	-10.0, 0.1165	-10.0, 0.1295
-10.5, 0.0847	-10.5, 0.0836	-10.5, 0.0896	-10.5, 0.1165
-11.0, 0.1191	-11.0, 0.1082	-11.0, 0.0953	-11.0, 0.0980
-11.5, 0.1366	-11.5, 0.1266	-11.5, 0.1101	-11.5, 0.0910
-12.0, 0.1147	-12.0, 0.1116	-12.0, 0.1045	-12.0, 0.0938
-12.5, 0.0638	-12.5, 0.0696	-12.5, 0.0785	-12.5, 0.0959
-13.0, 0.0600	-13.0, 0.0586	-13.0, 0.0641	-13.0, 0.0916
-13.5, 0.1180	-13.5, 0.1091	-13.5, 0.0978	-13.5, 0.0962
-14.0, 0.1449	-14.0, 0.1391	-14.0, 0.1287	-14.0, 0.1150

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

160	165	170	175
-0.0, 0.7399	-0.0, 0.3560	-0.0, 0.1094	-0.0, 0.3341
-0.3, 0.8141	-0.3, 0.4632	-0.3, 0.1882	-0.3, 0.3572
-0.6, 0.8979	-0.6, 0.6078	-0.6, 0.3236	-0.6, 0.4021
-0.9, 0.9619	-0.9, 0.7627	-0.9, 0.4952	-0.9, 0.4755
-1.2, 0.9844	-1.2, 0.8939	-1.2, 0.6755	-1.2, 0.5835
-1.5, 0.9682	-1.5, 0.9762	-1.5, 0.8346	-1.5, 0.7157
-1.8, 0.9409	-1.8, 1.0000	-1.8, 0.9470	-1.8, 0.8469
-2.1, 0.9362	-2.1, 0.9738	-2.1, 0.9975	-2.1, 0.9481
-2.4, 0.9632	-2.4, 0.9195	-2.2, 1.0000	-2.4, 0.9971
-2.7, 0.9955	-2.7, 0.8616	-2.7, 0.9244	-2.5, 1.0000
-2.8, 1.0000	-3.0, 0.8098	-3.0, 0.8365	-3.0, 0.9183
-3.3, 0.9274	-3.3, 0.7535	-3.3, 0.7406	-3.3, 0.8124
-3.6, 0.8012	-3.6, 0.6759	-3.6, 0.6470	-3.6, 0.6911
-3.9, 0.6378	-3.9, 0.5681	-3.9, 0.5526	-3.9, 0.5746
-4.2, 0.4793	-4.2, 0.4395	-4.2, 0.4514	-4.2, 0.4719
-4.5, 0.3729	-4.5, 0.3204	-4.5, 0.3474	-4.5, 0.3833
-4.8, 0.3338	-4.8, 0.2549	-4.8, 0.2620	-4.8, 0.3085
-5.1, 0.3225	-5.1, 0.2560	-5.1, 0.2272	-5.1, 0.2563
-5.4, 0.2998	-5.4, 0.2752	-5.4, 0.2418	-5.4, 0.2384
-5.7, 0.2622	-5.7, 0.2733	-5.7, 0.2629	-5.7, 0.2475
-6.0, 0.2288	-6.0, 0.2449	-6.0, 0.2616	-6.0, 0.2573
-6.3, 0.2141	-6.3, 0.2029	-6.3, 0.2336	-6.3, 0.2490
-6.6, 0.2090	-6.6, 0.1667	-6.6, 0.1904	-6.6, 0.2196
-6.9, 0.1956	-6.9, 0.1474	-6.9, 0.1507	-6.9, 0.1789
-7.2, 0.1719	-7.2, 0.1400	-7.2, 0.1319	-7.2, 0.1467
-7.5, 0.1557	-7.5, 0.1374	-7.5, 0.1332	-7.5, 0.1394
-7.8, 0.1653	-7.8, 0.1421	-7.8, 0.1413	-7.8, 0.1503
-8.1, 0.1886	-8.1, 0.1563	-8.1, 0.1495	-8.1, 0.1612
-8.4, 0.2014	-8.4, 0.1721	-8.4, 0.1574	-8.4, 0.1643
-8.7, 0.1914	-8.7, 0.1777	-8.7, 0.1635	-8.7, 0.1611
-9.0, 0.1601	-9.0, 0.1654	-9.0, 0.1626	-9.0, 0.1557
-9.3, 0.1227	-9.3, 0.1365	-9.3, 0.1504	-9.3, 0.1493
-9.6, 0.1055	-9.6, 0.1013	-9.6, 0.1281	-9.6, 0.1406
-10.0, 0.1279	-10.0, 0.0838	-10.0, 0.0966	-10.0, 0.1247
-10.5, 0.1559	-10.5, 0.1195	-10.5, 0.0962	-10.5, 0.1090
-11.0, 0.1429	-11.0, 0.1380	-11.0, 0.1196	-11.0, 0.1095
-11.5, 0.0987	-11.5, 0.1148	-11.5, 0.1190	-11.5, 0.1100
-12.0, 0.0694	-12.0, 0.0650	-12.0, 0.0888	-12.0, 0.0984
-12.5, 0.1047	-12.5, 0.0621	-12.5, 0.0602	-12.5, 0.0840
-13.0, 0.1395	-13.0, 0.1155	-13.0, 0.0899	-13.0, 0.0902
-13.5, 0.1386	-13.5, 0.1428	-13.5, 0.1305	-13.5, 0.1172
-14.0, 0.1168	-14.0, 0.1273	-14.0, 0.1372	-14.0, 0.1342

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
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AZIMUTH IDENTIFIED IN COLUMN HEADING)

180	185	190	195
-0.0, 0.4495	-0.0, 0.3807	-0.0, 0.2327	-0.0, 0.2758
-0.3, 0.5037	-0.3, 0.4602	-0.3, 0.3128	-0.3, 0.3248
-0.6, 0.5792	-0.6, 0.5759	-0.6, 0.4341	-0.6, 0.4088
-0.9, 0.6577	-0.9, 0.7046	-0.9, 0.5803	-0.9, 0.5215
-1.2, 0.7303	-1.2, 0.8209	-1.2, 0.7287	-1.2, 0.6513
-1.5, 0.7996	-1.5, 0.9094	-1.5, 0.8569	-1.5, 0.7819
-1.8, 0.8700	-1.8, 0.9659	-1.8, 0.9485	-1.8, 0.8944
-2.1, 0.9372	-2.1, 0.9941	-2.1, 0.9947	-2.1, 0.9709
-2.4, 0.9862	-2.3, 1.0000	-2.3, 1.0000	-2.4, 1.0000
-2.6, 1.0000	-2.7, 0.9850	-2.7, 0.9603	-2.7, 0.9797
-3.0, 0.9647	-3.0, 0.9459	-3.0, 0.8980	-3.0, 0.9164
-3.3, 0.8800	-3.3, 0.8751	-3.3, 0.8154	-3.3, 0.8215
-3.6, 0.7588	-3.6, 0.7718	-3.6, 0.7175	-3.6, 0.7102
-3.9, 0.6225	-3.9, 0.6437	-3.9, 0.6065	-3.9, 0.5947
-4.2, 0.4959	-4.2, 0.5086	-4.2, 0.4879	-4.2, 0.4830
-4.5, 0.3987	-4.5, 0.3933	-4.5, 0.3764	-4.5, 0.3825
-4.8, 0.3362	-4.8, 0.3227	-4.8, 0.2949	-4.8, 0.3038
-5.1, 0.2988	-5.1, 0.2988	-5.1, 0.2626	-5.1, 0.2597
-5.4, 0.2760	-5.4, 0.2951	-5.4, 0.2672	-5.4, 0.2518
-5.7, 0.2632	-5.7, 0.2880	-5.7, 0.2760	-5.7, 0.2606
-6.0, 0.2564	-6.0, 0.2703	-6.0, 0.2690	-6.0, 0.2629
-6.3, 0.2470	-6.3, 0.2452	-6.3, 0.2436	-6.3, 0.2475
-6.6, 0.2276	-6.6, 0.2178	-6.6, 0.2079	-6.6, 0.2157
-6.9, 0.1975	-6.9, 0.1909	-6.9, 0.1737	-6.9, 0.1778
-7.2, 0.1666	-7.2, 0.1680	-7.2, 0.1513	-7.2, 0.1494
-7.5, 0.1521	-7.5, 0.1562	-7.5, 0.1448	-7.5, 0.1420
-7.8, 0.1603	-7.8, 0.1613	-7.8, 0.1510	-7.8, 0.1507
-8.1, 0.1762	-8.1, 0.1769	-8.1, 0.1630	-8.1, 0.1626
-8.4, 0.1840	-8.4, 0.1900	-8.4, 0.1740	-8.4, 0.1697
-8.7, 0.1784	-8.7, 0.1908	-8.7, 0.1781	-8.7, 0.1700
-9.0, 0.1629	-9.0, 0.1768	-9.0, 0.1713	-9.0, 0.1637
-9.3, 0.1457	-9.3, 0.1524	-9.3, 0.1536	-9.3, 0.1514
-9.6, 0.1349	-9.6, 0.1288	-9.6, 0.1298	-9.6, 0.1355
-10.0, 0.1328	-10.0, 0.1188	-10.0, 0.1071	-10.0, 0.1161
-10.5, 0.1340	-10.5, 0.1353	-10.5, 0.1151	-10.5, 0.1114
-11.0, 0.1262	-11.0, 0.1415	-11.0, 0.1312	-11.0, 0.1204
-11.5, 0.1080	-11.5, 0.1202	-11.5, 0.1219	-11.5, 0.1165
-12.0, 0.0912	-12.0, 0.0855	-12.0, 0.0890	-12.0, 0.0944
-12.5, 0.0943	-12.5, 0.0833	-12.5, 0.0700	-12.5, 0.0767
-13.0, 0.1113	-13.0, 0.1174	-13.0, 0.1015	-13.0, 0.0946
-13.5, 0.1251	-13.5, 0.1396	-13.5, 0.1344	-13.5, 0.1258
-14.0, 0.1300	-14.0, 0.1354	-14.0, 0.1373	-14.0, 0.1366

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

200	205	210	215
-0.0, 0.3728	-0.0, 0.3456	-0.0, 0.2968	-0.0, 0.3862
-0.3, 0.4282	-0.3, 0.4110	-0.3, 0.3534	-0.3, 0.4321
-0.6, 0.5105	-0.6, 0.5146	-0.6, 0.4499	-0.6, 0.5081
-0.9, 0.6056	-0.9, 0.6360	-0.9, 0.5755	-0.9, 0.6088
-1.2, 0.7036	-1.2, 0.7537	-1.2, 0.7095	-1.2, 0.7219
-1.5, 0.7993	-1.5, 0.8534	-1.5, 0.8313	-1.5, 0.8321
-1.8, 0.8867	-1.8, 0.9286	-1.8, 0.9254	-1.8, 0.9236
-2.1, 0.9563	-2.1, 0.9775	-2.1, 0.9824	-2.1, 0.9825
-2.4, 0.9955	-2.4, 0.9990	-2.4, 1.0000	-2.4, 1.0000
-2.5, 1.0000	-2.5, 1.0000	-2.7, 0.9816	-2.7, 0.9751
-3.0, 0.9492	-3.0, 0.9530	-3.0, 0.9322	-3.0, 0.9119
-3.3, 0.8619	-3.3, 0.8793	-3.3, 0.8554	-3.3, 0.8184
-3.6, 0.7459	-3.6, 0.7746	-3.6, 0.7562	-3.6, 0.7057
-3.9, 0.6180	-3.9, 0.6490	-3.9, 0.6400	-3.9, 0.5839
-4.2, 0.4961	-4.2, 0.5191	-4.2, 0.5153	-4.2, 0.4618
-4.5, 0.3958	-4.5, 0.4069	-4.5, 0.3981	-4.5, 0.3507
-4.8, 0.3258	-4.8, 0.3321	-4.8, 0.3105	-4.8, 0.2655
-5.1, 0.2863	-5.1, 0.2990	-5.1, 0.2706	-5.1, 0.2235
-5.4, 0.2699	-5.4, 0.2905	-5.4, 0.2698	-5.4, 0.2232
-5.7, 0.2656	-5.7, 0.2857	-5.7, 0.2778	-5.7, 0.2378
-6.0, 0.2618	-6.0, 0.2740	-6.0, 0.2738	-6.0, 0.2423
-6.3, 0.2489	-6.3, 0.2536	-6.3, 0.2529	-6.3, 0.2275
-6.6, 0.2241	-6.6, 0.2264	-6.6, 0.2197	-6.6, 0.1956
-6.9, 0.1911	-6.9, 0.1962	-6.9, 0.1837	-6.9, 0.1556
-7.2, 0.1615	-7.2, 0.1695	-7.2, 0.1553	-7.2, 0.1228
-7.5, 0.1498	-7.5, 0.1565	-7.5, 0.1434	-7.5, 0.1129
-7.8, 0.1581	-7.8, 0.1617	-7.8, 0.1489	-7.8, 0.1248
-8.1, 0.1726	-8.1, 0.1769	-8.1, 0.1643	-8.1, 0.1427
-8.4, 0.1805	-8.4, 0.1893	-8.4, 0.1786	-8.4, 0.1554
-8.7, 0.1775	-8.7, 0.1904	-8.7, 0.1844	-8.7, 0.1585
-9.0, 0.1659	-9.0, 0.1786	-9.0, 0.1777	-9.0, 0.1513
-9.3, 0.1502	-9.3, 0.1580	-9.3, 0.1593	-9.3, 0.1351
-9.6, 0.1365	-9.6, 0.1371	-9.6, 0.1349	-9.6, 0.1138
-10.0, 0.1266	-10.0, 0.1240	-10.0, 0.1105	-10.0, 0.0908
-10.5, 0.1257	-10.5, 0.1321	-10.5, 0.1157	-10.5, 0.0937
-11.0, 0.1251	-11.0, 0.1372	-11.0, 0.1319	-11.0, 0.1108
-11.5, 0.1132	-11.5, 0.1212	-11.5, 0.1244	-11.5, 0.1072
-12.0, 0.0938	-12.0, 0.0924	-12.0, 0.0926	-12.0, 0.0782
-12.5, 0.0879	-12.5, 0.0860	-12.5, 0.0704	-12.5, 0.0513
-13.0, 0.1054	-13.0, 0.1128	-13.0, 0.0980	-13.0, 0.0771
-13.5, 0.1268	-13.5, 0.1359	-13.5, 0.1320	-13.5, 0.1144
-14.0, 0.1346	-14.0, 0.1379	-14.0, 0.1392	-14.0, 0.1266

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
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220	225	230	235
-0.0, 0.5224	-0.0, 0.5155	-0.0, 0.4691	-0.0, 0.4646
-0.3, 0.5879	-0.3, 0.6176	-0.3, 0.5875	-0.3, 0.5880
-0.6, 0.6669	-0.6, 0.7250	-0.6, 0.7101	-0.6, 0.7122
-0.9, 0.7527	-0.9, 0.8257	-0.9, 0.8232	-0.9, 0.8256
-1.2, 0.8370	-1.2, 0.9087	-1.2, 0.9144	-1.2, 0.9167
-1.5, 0.9118	-1.5, 0.9672	-1.5, 0.9750	-1.5, 0.9766
-1.8, 0.9683	-1.8, 0.9970	-1.8, 0.9998	-1.8, 1.0000
-2.1, 0.9977	-1.9, 1.0000	-1.9, 1.0000	-2.1, 0.9849
-2.2, 1.0000	-2.4, 0.9612	-2.4, 0.9407	-2.4, 0.9337
-2.7, 0.9495	-2.7, 0.8960	-2.7, 0.8637	-2.7, 0.8538
-3.0, 0.8703	-3.0, 0.8029	-3.0, 0.7638	-3.0, 0.7543
-3.3, 0.7609	-3.3, 0.6868	-3.3, 0.6484	-3.3, 0.6447
-3.6, 0.6331	-3.6, 0.5583	-3.6, 0.5275	-3.6, 0.5369
-3.9, 0.4999	-3.9, 0.4298	-3.9, 0.4134	-3.9, 0.4419
-4.2, 0.3758	-4.2, 0.3170	-4.2, 0.3202	-4.2, 0.3695
-4.5, 0.2752	-4.5, 0.2379	-4.5, 0.2620	-4.5, 0.3246
-4.8, 0.2125	-4.8, 0.2044	-4.8, 0.2409	-4.8, 0.3036
-5.1, 0.1923	-5.1, 0.2040	-5.1, 0.2402	-5.1, 0.2934
-5.4, 0.1980	-5.4, 0.2100	-5.4, 0.2395	-5.4, 0.2817
-5.7, 0.2064	-5.7, 0.2070	-5.7, 0.2281	-5.7, 0.2626
-6.0, 0.2039	-6.0, 0.1913	-6.0, 0.2052	-6.0, 0.2362
-6.3, 0.1860	-6.3, 0.1650	-6.3, 0.1759	-6.3, 0.2078
-6.6, 0.1551	-6.6, 0.1345	-6.6, 0.1486	-6.6, 0.1851
-6.9, 0.1196	-6.9, 0.1098	-6.9, 0.1325	-6.9, 0.1736
-7.2, 0.0945	-7.2, 0.1013	-7.2, 0.1308	-7.2, 0.1723
-7.5, 0.0948	-7.5, 0.1101	-7.5, 0.1383	-7.5, 0.1749
-7.8, 0.1126	-7.8, 0.1247	-7.8, 0.1462	-7.8, 0.1753
-8.1, 0.1297	-8.1, 0.1339	-8.1, 0.1481	-8.1, 0.1710
-8.4, 0.1365	-8.4, 0.1326	-8.4, 0.1421	-8.4, 0.1618
-8.7, 0.1314	-8.7, 0.1211	-8.7, 0.1292	-8.7, 0.1502
-9.0, 0.1168	-9.0, 0.1029	-9.0, 0.1138	-9.0, 0.1403
-9.3, 0.0974	-9.3, 0.0853	-9.3, 0.1026	-9.3, 0.1355
-9.6, 0.0807	-9.6, 0.0775	-9.6, 0.1008	-9.6, 0.1368
-10.0, 0.0744	-10.0, 0.0857	-10.0, 0.1096	-10.0, 0.1419
-10.5, 0.0882	-10.5, 0.0998	-10.5, 0.1167	-10.5, 0.1395
-11.0, 0.0957	-11.0, 0.0946	-11.0, 0.1031	-11.0, 0.1190
-11.5, 0.0807	-11.5, 0.0674	-11.5, 0.0732	-11.5, 0.0916
-12.0, 0.0493	-12.0, 0.0418	-12.0, 0.0603	-12.0, 0.0890
-12.5, 0.0431	-12.5, 0.0635	-12.5, 0.0870	-12.5, 0.1143
-13.0, 0.0770	-13.0, 0.0952	-13.0, 0.1135	-13.0, 0.1351
-13.5, 0.1034	-13.5, 0.1073	-13.5, 0.1178	-13.5, 0.1336
-14.0, 0.1056	-14.0, 0.0949	-14.0, 0.0985	-14.0, 0.1120

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

240	245	250	255
-0.0, 0.5474	-0.0, 0.6732	-0.0, 0.6781	-0.0, 0.6983
-0.3, 0.6688	-0.3, 0.8003	-0.3, 0.7972	-0.3, 0.8037
-0.6, 0.7808	-0.6, 0.9022	-0.6, 0.8988	-0.6, 0.8941
-0.9, 0.8761	-0.9, 0.9700	-0.9, 0.9699	-0.9, 0.9611
-1.2, 0.9478	-1.2, 0.9989	-1.2, 1.0000	-1.2, 0.9965
-1.5, 0.9901	-1.3, 1.0000	-1.5, 0.9847	-1.3, 1.0000
-1.7, 1.0000	-1.8, 0.9493	-1.8, 0.9258	-1.8, 0.9514
-2.1, 0.9732	-2.1, 0.8813	-2.1, 0.8299	-2.1, 0.8692
-2.4, 0.9140	-2.4, 0.7929	-2.4, 0.7088	-2.4, 0.7539
-2.7, 0.8294	-2.7, 0.6928	-2.7, 0.5776	-2.7, 0.6180
-3.0, 0.7303	-3.0, 0.5910	-3.0, 0.4516	-3.0, 0.4774
-3.3, 0.6296	-3.3, 0.5007	-3.3, 0.3472	-3.3, 0.3510
-3.6, 0.5404	-3.6, 0.4361	-3.6, 0.2817	-3.6, 0.2617
-3.9, 0.4711	-3.9, 0.4031	-3.9, 0.2629	-3.9, 0.2271
-4.2, 0.4230	-4.2, 0.3926	-4.2, 0.2753	-4.2, 0.2353
-4.5, 0.3908	-4.5, 0.3871	-4.5, 0.2927	-4.5, 0.2547
-4.8, 0.3673	-4.8, 0.3733	-4.8, 0.2979	-4.8, 0.2648
-5.1, 0.3456	-5.1, 0.3467	-5.1, 0.2844	-5.1, 0.2585
-5.4, 0.3214	-5.4, 0.3110	-5.4, 0.2539	-5.4, 0.2361
-5.7, 0.2943	-5.7, 0.2742	-5.7, 0.2151	-5.7, 0.2027
-6.0, 0.2659	-6.0, 0.2451	-6.0, 0.1813	-6.0, 0.1685
-6.3, 0.2408	-6.3, 0.2286	-6.3, 0.1655	-6.3, 0.1468
-6.6, 0.2239	-6.6, 0.2238	-6.6, 0.1697	-6.6, 0.1461
-6.9, 0.2165	-6.9, 0.2252	-6.9, 0.1811	-6.9, 0.1587
-7.2, 0.2147	-7.2, 0.2252	-7.2, 0.1880	-7.2, 0.1699
-7.5, 0.2122	-7.5, 0.2197	-7.5, 0.1849	-7.5, 0.1712
-7.8, 0.2052	-7.8, 0.2064	-7.8, 0.1718	-7.8, 0.1606
-8.1, 0.1937	-8.1, 0.1880	-8.1, 0.1521	-8.1, 0.1416
-8.4, 0.1808	-8.4, 0.1699	-8.4, 0.1325	-8.4, 0.1216
-8.7, 0.1713	-8.7, 0.1610	-8.7, 0.1217	-8.7, 0.1098
-9.0, 0.1682	-9.0, 0.1644	-9.0, 0.1250	-9.0, 0.1118
-9.3, 0.1707	-9.3, 0.1758	-9.3, 0.1380	-9.3, 0.1233
-9.6, 0.1749	-9.6, 0.1863	-9.6, 0.1516	-9.6, 0.1359
-10.0, 0.1759	-10.0, 0.1874	-10.0, 0.1580	-10.0, 0.1428
-10.5, 0.1621	-10.5, 0.1633	-10.5, 0.1380	-10.5, 0.1267
-11.0, 0.1341	-11.0, 0.1253	-11.0, 0.0980	-11.0, 0.0909
-11.5, 0.1122	-11.5, 0.1114	-11.5, 0.0828	-11.5, 0.0729
-12.0, 0.1206	-12.0, 0.1358	-12.0, 0.1143	-12.0, 0.1011
-12.5, 0.1447	-12.5, 0.1604	-12.5, 0.1430	-12.5, 0.1311
-13.0, 0.1576	-13.0, 0.1620	-13.0, 0.1432	-13.0, 0.1356
-13.5, 0.1492	-13.5, 0.1414	-13.5, 0.1158	-13.5, 0.1119
-14.0, 0.1264	-14.0, 0.1179	-14.0, 0.0854	-14.0, 0.0779

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

260	265	270	275
-0.0, 0.7101	-0.0, 0.6728	-0.0, 0.6390	-0.0, 0.6297
-0.3, 0.8195	-0.3, 0.7932	-0.3, 0.7622	-0.3, 0.7488
-0.6, 0.9084	-0.6, 0.8940	-0.6, 0.8702	-0.6, 0.8558
-0.9, 0.9696	-0.9, 0.9643	-0.9, 0.9505	-0.9, 0.9392
-1.2, 0.9981	-1.2, 0.9976	-1.2, 0.9939	-1.2, 0.9888
-1.3, 1.0000	-1.3, 1.0000	-1.4, 1.0000	-1.4, 1.0000
-1.8, 0.9521	-1.8, 0.9512	-1.8, 0.9585	-1.8, 0.9679
-2.1, 0.8781	-2.1, 0.8778	-2.1, 0.8853	-2.1, 0.8988
-2.4, 0.7741	-2.4, 0.7782	-2.4, 0.7842	-2.4, 0.7988
-2.7, 0.6478	-2.7, 0.6599	-2.7, 0.6658	-2.7, 0.6793
-3.0, 0.5109	-3.0, 0.5322	-3.0, 0.5404	-3.0, 0.5525
-3.3, 0.3797	-3.3, 0.4072	-3.3, 0.4198	-3.3, 0.4318
-3.6, 0.2768	-3.6, 0.3029	-3.6, 0.3193	-3.6, 0.3325
-3.9, 0.2258	-3.9, 0.2411	-3.9, 0.2565	-3.9, 0.2700
-4.2, 0.2262	-4.2, 0.2295	-4.2, 0.2387	-4.2, 0.2492
-4.5, 0.2447	-4.5, 0.2439	-4.5, 0.2483	-4.5, 0.2546
-4.8, 0.2554	-4.8, 0.2551	-4.8, 0.2589	-4.8, 0.2631
-5.1, 0.2495	-5.1, 0.2505	-5.1, 0.2557	-5.1, 0.2602
-5.4, 0.2284	-5.4, 0.2295	-5.4, 0.2358	-5.4, 0.2419
-5.7, 0.1979	-5.7, 0.1986	-5.7, 0.2046	-5.7, 0.2119
-6.0, 0.1665	-6.0, 0.1672	-6.0, 0.1717	-6.0, 0.1786
-6.3, 0.1449	-6.3, 0.1459	-6.3, 0.1490	-6.3, 0.1542
-6.6, 0.1407	-6.6, 0.1409	-6.6, 0.1437	-6.6, 0.1472
-6.9, 0.1501	-6.9, 0.1484	-6.9, 0.1510	-6.9, 0.1539
-7.2, 0.1612	-7.2, 0.1578	-7.2, 0.1601	-7.2, 0.1631
-7.5, 0.1648	-7.5, 0.1615	-7.5, 0.1632	-7.5, 0.1661
-7.8, 0.1569	-7.8, 0.1555	-7.8, 0.1571	-7.8, 0.1599
-8.1, 0.1394	-8.1, 0.1403	-8.1, 0.1427	-8.1, 0.1456
-8.4, 0.1188	-8.4, 0.1204	-8.4, 0.1241	-8.4, 0.1275
-8.7, 0.1052	-8.7, 0.1051	-8.7, 0.1088	-8.7, 0.1128
-9.0, 0.1063	-9.0, 0.1034	-9.0, 0.1053	-9.0, 0.1089
-9.3, 0.1184	-9.3, 0.1144	-9.3, 0.1142	-9.3, 0.1166
-9.6, 0.1314	-9.6, 0.1282	-9.6, 0.1277	-9.6, 0.1288
-10.0, 0.1381	-10.0, 0.1370	-10.0, 0.1378	-10.0, 0.1388
-10.5, 0.1217	-10.5, 0.1222	-10.5, 0.1253	-10.5, 0.1279
-11.0, 0.0868	-11.0, 0.0865	-11.0, 0.0901	-11.0, 0.0941
-11.5, 0.0695	-11.5, 0.0664	-11.5, 0.0667	-11.5, 0.0691
-12.0, 0.0965	-12.0, 0.0930	-12.0, 0.0916	-12.0, 0.0912
-12.5, 0.1251	-12.5, 0.1224	-12.5, 0.1226	-12.5, 0.1228
-13.0, 0.1301	-13.0, 0.1279	-13.0, 0.1297	-13.0, 0.1318
-13.5, 0.1095	-13.5, 0.1079	-13.5, 0.1098	-13.5, 0.1130
-14.0, 0.0776	-14.0, 0.0776	-14.0, 0.0786	-14.0, 0.0811

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

280	285	290	295
-0.0, 0.6426	-0.0, 0.6551	-0.0, 0.6606	-0.0, 0.6731
-0.3, 0.7577	-0.3, 0.7699	-0.3, 0.7771	-0.3, 0.7913
-0.6, 0.8603	-0.6, 0.8699	-0.6, 0.8774	-0.6, 0.8908
-0.9, 0.9401	-0.9, 0.9460	-0.9, 0.9516	-0.9, 0.9616
-1.2, 0.9883	-1.2, 0.9903	-1.2, 0.9927	-1.2, 0.9967
-1.4, 1.0000	-1.4, 1.0000	-1.4, 1.0000	-1.3, 1.0000
-1.8, 0.9712	-1.8, 0.9699	-1.8, 0.9661	-1.8, 0.9559
-2.1, 0.9052	-2.1, 0.9048	-2.1, 0.9003	-2.1, 0.8847
-2.4, 0.8069	-2.4, 0.8081	-2.4, 0.8045	-2.4, 0.7858
-2.7, 0.6869	-2.7, 0.6890	-2.7, 0.6868	-2.7, 0.6668
-3.0, 0.5576	-3.0, 0.5590	-3.0, 0.5573	-3.0, 0.5368
-3.3, 0.4339	-3.3, 0.4322	-3.3, 0.4292	-3.3, 0.4082
-3.6, 0.3327	-3.6, 0.3268	-3.6, 0.3203	-3.6, 0.2987
-3.9, 0.2699	-3.9, 0.2611	-3.9, 0.2506	-3.9, 0.2305
-4.2, 0.2496	-4.2, 0.2409	-4.2, 0.2294	-4.2, 0.2148
-4.5, 0.2549	-4.5, 0.2477	-4.5, 0.2381	-4.5, 0.2292
-4.8, 0.2627	-4.8, 0.2566	-4.8, 0.2488	-4.8, 0.2425
-5.1, 0.2596	-5.1, 0.2538	-5.1, 0.2469	-5.1, 0.2406
-5.4, 0.2419	-5.4, 0.2365	-5.4, 0.2298	-5.4, 0.2222
-5.7, 0.2128	-5.7, 0.2083	-5.7, 0.2018	-5.7, 0.1929
-6.0, 0.1804	-6.0, 0.1766	-6.0, 0.1707	-6.0, 0.1617
-6.3, 0.1555	-6.3, 0.1519	-6.3, 0.1466	-6.3, 0.1392
-6.6, 0.1473	-6.6, 0.1434	-6.6, 0.1382	-6.6, 0.1332
-6.9, 0.1536	-6.9, 0.1493	-6.9, 0.1442	-6.9, 0.1406
-7.2, 0.1631	-7.2, 0.1591	-7.2, 0.1540	-7.2, 0.1510
-7.5, 0.1665	-7.5, 0.1631	-7.5, 0.1586	-7.5, 0.1555
-7.8, 0.1604	-7.8, 0.1575	-7.8, 0.1537	-7.8, 0.1503
-8.1, 0.1456	-8.1, 0.1429	-8.1, 0.1393	-8.1, 0.1354
-8.4, 0.1272	-8.4, 0.1239	-8.4, 0.1200	-8.4, 0.1153
-8.7, 0.1127	-8.7, 0.1090	-8.7, 0.1044	-8.7, 0.0994
-9.0, 0.1095	-9.0, 0.1060	-9.0, 0.1010	-9.0, 0.0969
-9.3, 0.1173	-9.3, 0.1144	-9.3, 0.1101	-9.3, 0.1075
-9.6, 0.1291	-9.6, 0.1267	-9.6, 0.1232	-9.6, 0.1217
-10.0, 0.1385	-10.0, 0.1360	-10.0, 0.1329	-10.0, 0.1313
-10.5, 0.1275	-10.5, 0.1247	-10.5, 0.1214	-10.5, 0.1183
-11.0, 0.0945	-11.0, 0.0917	-11.0, 0.0881	-11.0, 0.0836
-11.5, 0.0698	-11.5, 0.0675	-11.5, 0.0642	-11.5, 0.0617
-12.0, 0.0909	-12.0, 0.0889	-12.0, 0.0864	-12.0, 0.0871
-12.5, 0.1220	-12.5, 0.1196	-12.5, 0.1169	-12.5, 0.1168
-13.0, 0.1316	-13.0, 0.1289	-13.0, 0.1255	-13.0, 0.1234
-13.5, 0.1138	-13.5, 0.1115	-13.5, 0.1081	-13.5, 0.1044
-14.0, 0.0817	-14.0, 0.0799	-14.0, 0.0770	-14.0, 0.0733

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

300	305	310	315
-0.0, 0.6754	-0.0, 0.6851	-0.0, 0.6889	-0.0, 0.6839
-0.3, 0.7959	-0.3, 0.8064	-0.3, 0.8080	-0.3, 0.7907
-0.6, 0.8961	-0.6, 0.9050	-0.6, 0.9035	-0.6, 0.8792
-0.9, 0.9655	-0.9, 0.9708	-0.9, 0.9677	-0.9, 0.9447
-1.2, 0.9978	-1.2, 0.9989	-1.2, 0.9975	-1.2, 0.9850
-1.3, 1.0000	-1.3, 1.0000	-1.3, 1.0000	-1.5, 1.0000
-1.8, 0.9513	-1.8, 0.9492	-1.8, 0.9639	-1.8, 0.9878
-2.1, 0.8795	-2.1, 0.8796	-2.1, 0.9054	-2.1, 0.9445
-2.4, 0.7818	-2.4, 0.7855	-2.4, 0.8207	-2.4, 0.8676
-2.7, 0.6650	-2.7, 0.6721	-2.7, 0.7127	-2.7, 0.7597
-3.0, 0.5373	-3.0, 0.5468	-3.0, 0.5883	-3.0, 0.6293
-3.3, 0.4099	-3.3, 0.4207	-3.3, 0.4600	-3.3, 0.4909
-3.6, 0.3007	-3.6, 0.3130	-3.6, 0.3482	-3.6, 0.3662
-3.9, 0.2323	-3.9, 0.2471	-3.9, 0.2763	-3.9, 0.2780
-4.2, 0.2170	-4.2, 0.2329	-4.2, 0.2537	-4.2, 0.2390
-4.5, 0.2316	-4.5, 0.2458	-4.5, 0.2592	-4.5, 0.2356
-4.8, 0.2446	-4.8, 0.2555	-4.8, 0.2643	-4.8, 0.2405
-5.1, 0.2415	-5.1, 0.2494	-5.1, 0.2567	-5.1, 0.2386
-5.4, 0.2220	-5.4, 0.2280	-5.4, 0.2365	-5.4, 0.2266
-5.7, 0.1921	-5.7, 0.1982	-5.7, 0.2093	-5.7, 0.2060
-6.0, 0.1614	-6.0, 0.1690	-6.0, 0.1821	-6.0, 0.1803
-6.3, 0.1401	-6.3, 0.1490	-6.3, 0.1616	-6.3, 0.1551
-6.6, 0.1346	-6.6, 0.1436	-6.6, 0.1523	-6.6, 0.1388
-6.9, 0.1419	-6.9, 0.1497	-6.9, 0.1550	-6.9, 0.1379
-7.2, 0.1519	-7.2, 0.1587	-7.2, 0.1629	-7.2, 0.1471
-7.5, 0.1564	-7.5, 0.1626	-7.5, 0.1676	-7.5, 0.1551
-7.8, 0.1513	-7.8, 0.1572	-7.8, 0.1631	-7.8, 0.1536
-8.1, 0.1366	-8.1, 0.1420	-8.1, 0.1482	-8.1, 0.1409
-8.4, 0.1164	-8.4, 0.1214	-8.4, 0.1276	-8.4, 0.1212
-8.7, 0.1000	-8.7, 0.1048	-8.7, 0.1110	-8.7, 0.1041
-9.0, 0.0973	-9.0, 0.1028	-9.0, 0.1082	-9.0, 0.0990
-9.3, 0.1082	-9.3, 0.1142	-9.3, 0.1182	-9.3, 0.1060
-9.6, 0.1226	-9.6, 0.1282	-9.6, 0.1312	-9.6, 0.1174
-10.0, 0.1321	-10.0, 0.1368	-10.0, 0.1391	-10.0, 0.1264
-10.5, 0.1182	-10.5, 0.1217	-10.5, 0.1251	-10.5, 0.1178
-11.0, 0.0834	-11.0, 0.0871	-11.0, 0.0931	-11.0, 0.0904
-11.5, 0.0626	-11.5, 0.0683	-11.5, 0.0732	-11.5, 0.0660
-12.0, 0.0887	-12.0, 0.0934	-12.0, 0.0934	-12.0, 0.0784
-12.5, 0.1178	-12.5, 0.1210	-12.5, 0.1202	-12.5, 0.1064
-13.0, 0.1237	-13.0, 0.1263	-13.0, 0.1278	-13.0, 0.1197
-13.5, 0.1045	-13.5, 0.1078	-13.5, 0.1127	-13.5, 0.1099
-14.0, 0.0741	-14.0, 0.0788	-14.0, 0.0849	-14.0, 0.0814

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

320	325	330	335
-0.0, 0.6786	-0.0, 0.6509	-0.0, 0.5925	-0.0, 0.5699
-0.3, 0.7689	-0.3, 0.7405	-0.3, 0.7284	-0.3, 0.7103
-0.6, 0.8497	-0.6, 0.8316	-0.6, 0.8543	-0.6, 0.8314
-0.9, 0.9179	-0.9, 0.9146	-0.9, 0.9497	-0.9, 0.9219
-1.2, 0.9693	-1.2, 0.9754	-1.2, 0.9969	-1.2, 0.9765
-1.5, 0.9973	-1.5, 1.0000	-1.3, 1.0000	-1.5, 0.9988
-1.6, 1.0000	-1.8, 0.9785	-1.8, 0.9264	-1.6, 1.0000
-2.1, 0.9510	-2.1, 0.9073	-2.1, 0.8227	-2.1, 0.9677
-2.4, 0.8673	-2.4, 0.7932	-2.4, 0.6957	-2.4, 0.9189
-2.7, 0.7481	-2.7, 0.6501	-2.7, 0.5640	-2.7, 0.8467
-3.0, 0.6069	-3.0, 0.4967	-3.0, 0.4422	-3.0, 0.7521
-3.3, 0.4598	-3.3, 0.3514	-3.3, 0.3396	-3.3, 0.6404
-3.6, 0.3276	-3.6, 0.2322	-3.6, 0.2644	-3.6, 0.5282
-3.9, 0.2311	-3.9, 0.1565	-3.9, 0.2265	-3.9, 0.4336
-4.2, 0.1855	-4.2, 0.1388	-4.2, 0.2271	-4.2, 0.3719
-4.5, 0.1831	-4.5, 0.1607	-4.5, 0.2478	-4.5, 0.3414
-4.8, 0.1956	-4.8, 0.1865	-4.8, 0.2633	-4.8, 0.3243
-5.1, 0.2042	-5.1, 0.1995	-5.1, 0.2587	-5.1, 0.3061
-5.4, 0.2015	-5.4, 0.1934	-5.4, 0.2312	-5.4, 0.2820
-5.7, 0.1852	-5.7, 0.1676	-5.7, 0.1897	-5.7, 0.2556
-6.0, 0.1578	-6.0, 0.1300	-6.0, 0.1503	-6.0, 0.2321
-6.3, 0.1266	-6.3, 0.0957	-6.3, 0.1332	-6.3, 0.2133
-6.6, 0.1058	-6.6, 0.0877	-6.6, 0.1415	-6.6, 0.1998
-6.9, 0.1077	-6.9, 0.1057	-6.9, 0.1576	-6.9, 0.1921
-7.2, 0.1223	-7.2, 0.1246	-7.2, 0.1664	-7.2, 0.1910
-7.5, 0.1335	-7.5, 0.1319	-7.5, 0.1659	-7.5, 0.1927
-7.8, 0.1335	-7.8, 0.1261	-7.8, 0.1560	-7.8, 0.1910
-8.1, 0.1215	-8.1, 0.1111	-8.1, 0.1405	-8.1, 0.1827
-8.4, 0.1029	-8.4, 0.0927	-8.4, 0.1223	-8.4, 0.1669
-8.7, 0.0864	-8.7, 0.0784	-8.7, 0.1068	-8.7, 0.1486
-9.0, 0.0802	-9.0, 0.0746	-9.0, 0.1026	-9.0, 0.1381
-9.3, 0.0856	-9.3, 0.0815	-9.3, 0.1125	-9.3, 0.1387
-9.6, 0.0959	-9.6, 0.0938	-9.6, 0.1275	-9.6, 0.1469
-10.0, 0.1066	-10.0, 0.1065	-10.0, 0.1400	-10.0, 0.1545
-10.5, 0.1034	-10.5, 0.1019	-10.5, 0.1249	-10.5, 0.1445
-11.0, 0.0786	-11.0, 0.0704	-11.0, 0.0835	-11.0, 0.1175
-11.5, 0.0490	-11.5, 0.0396	-11.5, 0.0643	-11.5, 0.0969
-12.0, 0.0602	-12.0, 0.0681	-12.0, 0.1011	-12.0, 0.1075
-12.5, 0.0930	-12.5, 0.1046	-12.5, 0.1337	-12.5, 0.1298
-13.0, 0.1098	-13.0, 0.1157	-13.0, 0.1343	-13.0, 0.1392
-13.5, 0.1005	-13.5, 0.0946	-13.5, 0.1032	-13.5, 0.1298
-14.0, 0.0677	-14.0, 0.0519	-14.0, 0.0679	-14.0, 0.1093

TABULATION OF KDOC-DT VERTICAL PLANE RADIATION DATA
(DEGREES BELOW HORIZONTAL PLANE AND RELATIVE FIELD AT
AZIMUTH IDENTIFIED IN COLUMN HEADING)

340	345	350	355
-0.0, 0.4552	-0.0, 0.3917	-0.0, 0.4849	-0.0, 0.4236
-0.3, 0.5516	-0.3, 0.4861	-0.3, 0.5604	-0.3, 0.4347
-0.6, 0.6557	-0.6, 0.6020	-0.6, 0.6563	-0.6, 0.5000
-0.9, 0.7599	-0.9, 0.7242	-0.9, 0.7593	-0.9, 0.5844
-1.2, 0.8563	-1.2, 0.8378	-1.2, 0.8535	-1.2, 0.6592
-1.5, 0.9344	-1.5, 0.9282	-1.5, 0.9272	-1.5, 0.7182
-1.8, 0.9854	-1.8, 0.9838	-1.8, 0.9751	-1.8, 0.7771
-2.0, 1.0000	-2.1, 1.0000	-2.1, 0.9982	-2.1, 0.8503
-2.4, 0.9734	-2.4, 0.9768	-2.2, 1.0000	-2.4, 0.9268
-2.7, 0.9073	-2.7, 0.9189	-2.7, 0.9725	-2.7, 0.9857
-3.0, 0.8094	-3.0, 0.8349	-3.0, 0.9218	-2.9, 1.0000
-3.3, 0.6906	-3.3, 0.7300	-3.3, 0.8401	-3.3, 0.9490
-3.6, 0.5661	-3.6, 0.6130	-3.6, 0.7282	-3.6, 0.8455
-3.9, 0.4490	-3.9, 0.4913	-3.9, 0.5950	-3.9, 0.7102
-4.2, 0.3510	-4.2, 0.3737	-4.2, 0.4556	-4.2, 0.5732
-4.5, 0.2813	-4.5, 0.2764	-4.5, 0.3357	-4.5, 0.4634
-4.8, 0.2448	-4.8, 0.2190	-4.8, 0.2611	-4.8, 0.3949
-5.1, 0.2339	-5.1, 0.2080	-5.1, 0.2416	-5.1, 0.3535
-5.4, 0.2344	-5.4, 0.2202	-5.4, 0.2478	-5.4, 0.3232
-5.7, 0.2313	-5.7, 0.2271	-5.7, 0.2522	-5.7, 0.3041
-6.0, 0.2177	-6.0, 0.2178	-6.0, 0.2442	-6.0, 0.2962
-6.3, 0.1932	-6.3, 0.1929	-6.3, 0.2247	-6.3, 0.2946
-6.6, 0.1646	-6.6, 0.1605	-6.6, 0.1980	-6.6, 0.2866
-6.9, 0.1427	-6.9, 0.1315	-6.9, 0.1679	-6.9, 0.2611
-7.2, 0.1359	-7.2, 0.1159	-7.2, 0.1403	-7.2, 0.2229
-7.5, 0.1417	-7.5, 0.1165	-7.5, 0.1261	-7.5, 0.1911
-7.8, 0.1495	-7.8, 0.1269	-7.8, 0.1323	-7.8, 0.1831
-8.1, 0.1510	-8.1, 0.1367	-8.1, 0.1492	-8.1, 0.1943
-8.4, 0.1443	-8.4, 0.1402	-8.4, 0.1616	-8.4, 0.2054
-8.7, 0.1318	-8.7, 0.1344	-8.7, 0.1616	-8.7, 0.2022
-9.0, 0.1172	-9.0, 0.1205	-9.0, 0.1474	-9.0, 0.1879
-9.3, 0.1052	-9.3, 0.1008	-9.3, 0.1226	-9.3, 0.1704
-9.6, 0.1000	-9.6, 0.0834	-9.6, 0.0995	-9.6, 0.1624
-10.0, 0.1042	-10.0, 0.0811	-10.0, 0.0933	-10.0, 0.1672
-10.5, 0.1130	-10.5, 0.1020	-10.5, 0.1181	-10.5, 0.1720
-11.0, 0.1078	-11.0, 0.1101	-11.0, 0.1297	-11.0, 0.1608
-11.5, 0.0859	-11.5, 0.0910	-11.5, 0.1128	-11.5, 0.1417
-12.0, 0.0651	-12.0, 0.0550	-12.0, 0.0737	-12.0, 0.1242
-12.5, 0.0760	-12.5, 0.0498	-12.5, 0.0560	-12.5, 0.1194
-13.0, 0.1021	-13.0, 0.0857	-13.0, 0.0870	-13.0, 0.1226
-13.5, 0.1141	-13.5, 0.1083	-13.5, 0.1146	-13.5, 0.1322
-14.0, 0.1010	-14.0, 0.1031	-14.0, 0.1181	-14.0, 0.1513

PROPOSED KDOC-DT
NORMALIZED VERTICAL PLANE PATTERNS
AT STANDARD 45° INTERVALS

GOLDEN ORANGE BROADCASTING CO., INC.
ANAHEIM, CALIFORNIA

Bernard R. Segal, P. E. Consulting Engineer

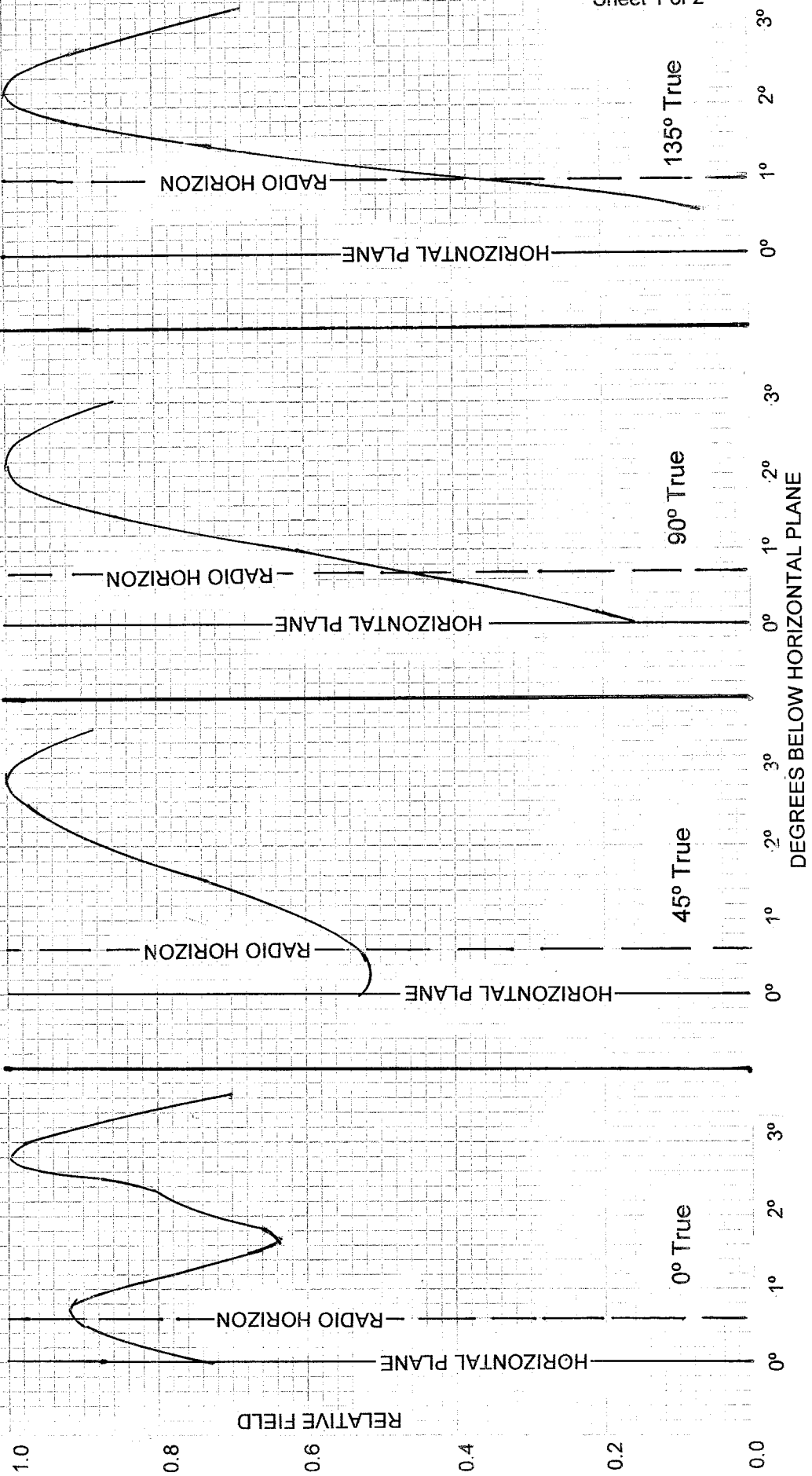


FIGURE 4
Sheet 1 of 2

PROPOSED KDOC-DT
NORMALIZED VERTICAL PLANE PATTERNS
AT STANDARD 45° INTERVALS

GOLDEN ORANGE BROADCASTING CO., INC.
ANAHEIM, CALIFORNIA

Bernard R. Segal, P. E. Consulting Engineer

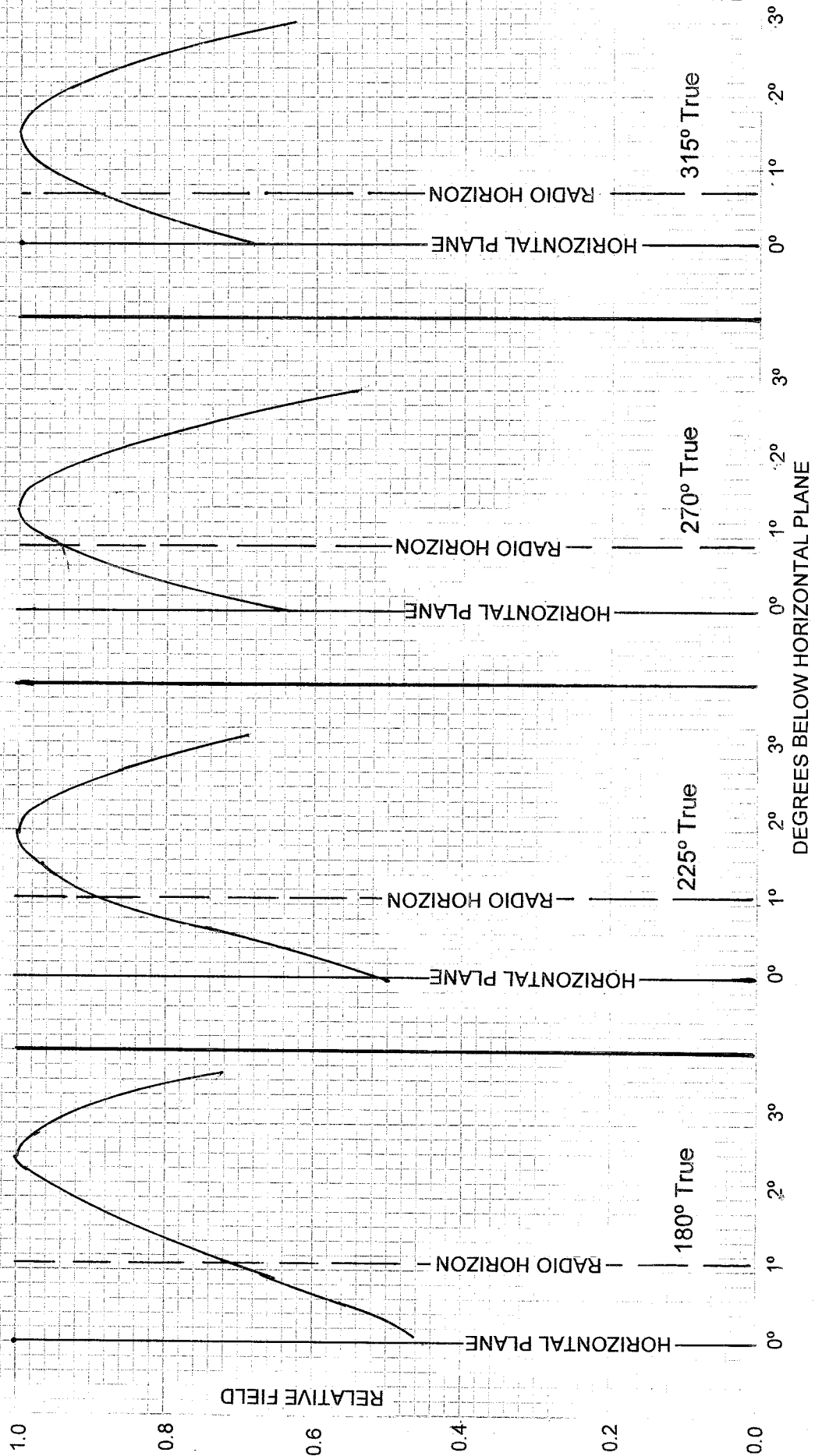


FIGURE 4
Sheet 2 of 2

Figure 5

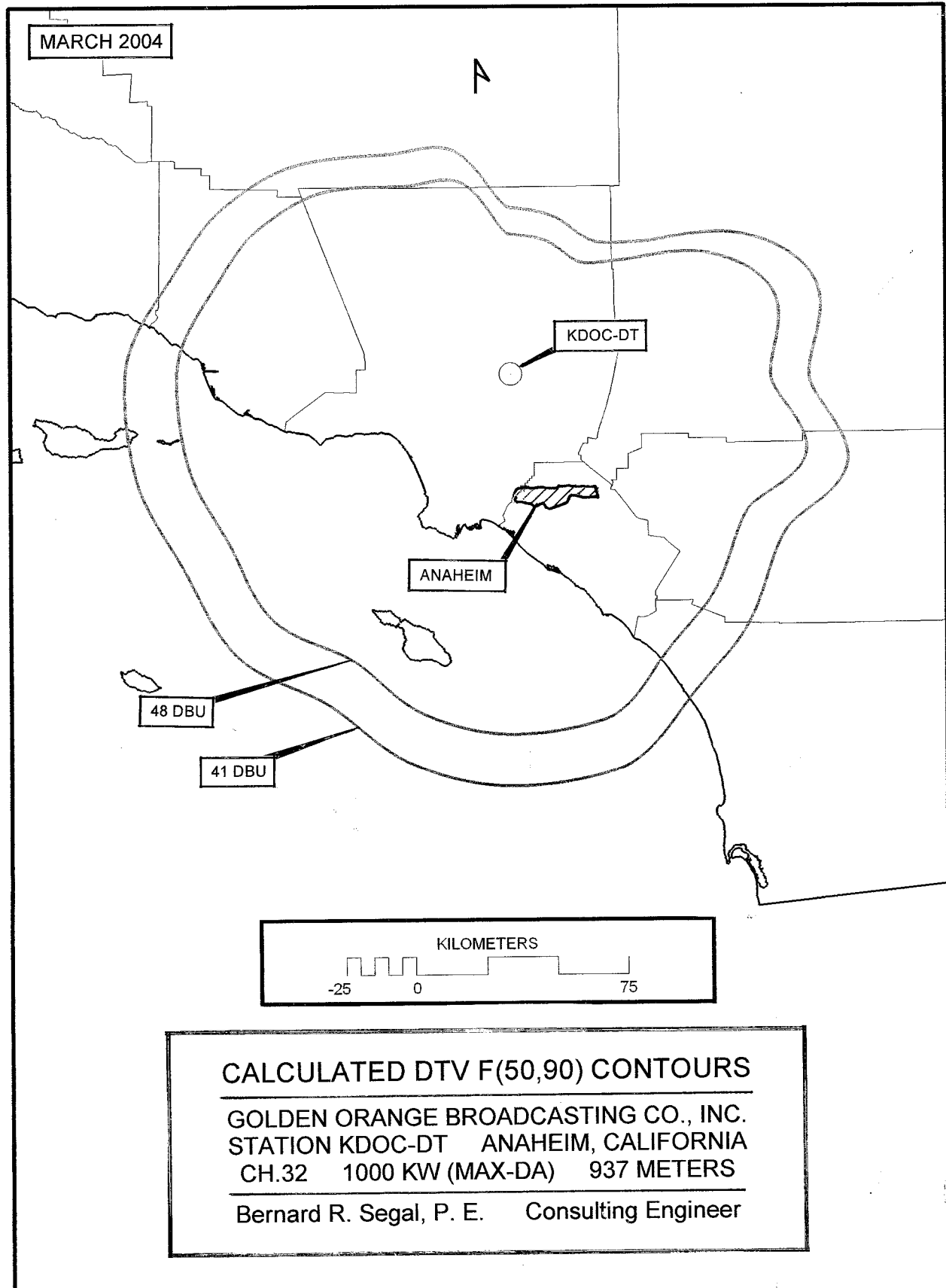
TABULATION OF DATA AND DISTANCES
TO THE KDOC-DT F(50,90) CONTOURS

Azimuth Angle (degrees)	Radiation Center Above Average Terrain (meters)	Depression Angle To Radio Horizon (degrees)	Vertical Plane Rel. Field At Depression Angle To Radio Horizon	ERP Employed (kW)	Distance To	
					48 dBu Contour (km)	41 dBu Contour (km)
0	421	0.6	0.028	0.96*	49.4	58.9
15	398	0.6	0.027	0.73	47.1	56.4
30	316	0.5	0.035	1.22	46.4	55.2
45	402	0.6	0.062	3.84	56.9	66.0
60	687	0.7	0.233	54.3	84.4	98.1
75	926	0.8	0.371	138	99.2	114.7
90	660	0.7	0.420	176	93.4	107.2
105	900	0.8	0.665	442	109.7	124.9
120	1119	0.9	0.261	68.1	97.5	113.0
135	1402	1.0	0.278	77.3	105.0	121.9
150	1490	1.1	0.357	127	112.2	130.2
165	1522	1.1	0.646	417	126.4	144.5
180	1519	1.1	0.668	446	127.1	145.3
195	1528	1.1	0.580	336	124.0	141.9
210	1503	1.1	0.416	173	115.9	133.9
225	1478	1.1	0.556	309	121.7	139.9
240	1335	1.0	0.501	310*	117.5	136.1
255	1247	1.0	0.691	504*	120.2	139.4
270	1005	0.9	0.925	947*	119.8	138.3
285	753	0.8	0.871	895*	111.3	127.1
300	689	0.7	0.655	507*	103.6	118.5
315	607	0.7	0.421	218*	93.3	106.9
330	597	0.7	0.171	29.2	76.7	89.5
345	589	0.7	0.111	12.3	70.4	82.2

Notes:1) The terrain elevation source used to establish the antenna radiation center height above the terrain average from 3.2 – 16.1 kilometers was the USGS 3 arc-second database. The antenna radiation center height above mean sea level that was used is 1826 meters. The radiation center height above average terrain for the standard eight radials is 937 meters

2) For a vertical plane relative field value at the depression angle to the radio horizon that was 90% or more of the maximum radiation occurring in a given direction, the maximum radiation in the vertical plane was used for the contour distance determinations as prescribed by Section 73.625(b)(2) of the FCC Rules. The radiation value denoted by an asterisk is the maximum in the vertical plane used for the contour distance calculations.

FIGURE 6



APPENDIX

MEXICAN ALLOCATION CONSIDERATIONS

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Figure B	Tijuana, BC, Ch. 32, Allotment Protection Geometry
Figure C	Tijuana, BC, Ch. 32, Allotment Protection Study Points
Figure D	Depression Angles To Tijuana, Ch 32, Allotment Protection Study Points
Figure E	Tabulation of KDOC-DT Vertical Plane Relative Field Data
Figure F	Tabulation of Data for Previous CP and Proposed KDOC-DT Vertical Plane Radiation Patterns
Figure G	CP and Proposed KDOC-DT Vertical Plane Radiation Patterns
Figure I	KDOC-DT Azimuth Pattern For CH. 32, 200 kW (MAX-DA), 960 Meters, CP
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MEXICAN ALLOCATION CONSIDERATIONS

EXPLANATORY STATEMENT

This Appendix to the application for modification of the outstanding construction permit (CP) for KDOC-DT demonstrates that the proposed KDOC-DT operation will not result in radiation in excess of 200 kW toward the Mexican DTV reservation allotment at Tijuana, BC, Channel 32. The 200 kW radiation level was tacitly sanctioned when the Anaheim, CA, Channel 32, allotment was set forth in the Memorandum of Understanding (MOU), dated July 22, 1998. At that time, the FCC permitted stations with allotments that were less than 200 kW to submit proposals for powers up to 200 kW.

The original construction permit application for KDOC-DT, FCC File No. BPCDT-19981028KE, which subsequently was granted, specified a maximum effective radiated power of 200 kW toward a portion of the Tijuana, Channel 32, allotment protection zone of interest. The happenstance of the antenna radiation pattern directionality resulted in slightly less than 200 kW radiation to a portion of the area of interest for the Tijuana, Channel 32, allotment. A subsequently filed modification application, FCC File No. BMPCDT-20000427ABH, for an increase in maximum effective radiated power for KDOC-DT to 1000 kW, with a directional antenna, maintained the radiation toward the area of interest below 200 kW. This application, too, was granted. The instant application seeks to modify the KDOC-DT radiation pattern while continuing to restrict radiation toward the Tijuana, Channel 32, allotment to 200 kW, or less.

Figure A compares the important parameters for the previously authorized and now proposed KDOC-DT facilities. The significant difference between the outstanding

KDOC-DT, Anaheim, California
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construction permit, and the instant proposed modification, is in the antenna radiation pattern. The new pattern concentrates more energy at steep depression angles toward populous areas in the Los Angeles basin, while yet restricting radiation at depression angles toward the Tijuana, Channel 32, protection zone to 200 kW, or less, just as for the already granted applications for KDOC-DT.

Figure B depicts the locations of the KDOC-DT and Tijuana transmitters. The MOU includes a less than 275 kilometer distance from the common border for the touchstone for mutual notification of facility proposals and modifications. A ray from KDOC-DT to the Mexican border that corresponds to the 275-kilometer notification distance is shown. The bearing from KDOC-DT to this point on the Mexican border is 129° True. The distance to this point from the Tijuana, Channel 32, allotment site is 118 kilometers. This distance is greater than, normally, can be expected for service from a UHF DTV station. Nevertheless, the studies prepared for KDOC-DT demonstrate that no radiation exceeding 200 kW toward the common boundary, anywhere from 129° True westward to the Pacific Ocean, will result.

The map of Figure C shows the initial study point (Point A) on the Mexican border and additional study points along the border at 5° azimuthal intervals beginning with 135° True and extending to 155° True. Geographic coordinates were determined for the study points to assist in the ensuing calculations.

The depression angles from the KDOC-DT radiation center to the identified boundary points have been calculated using the formula given in the FCC, Office of the

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Chief Engineer, Research Division, Report No. R-6410, entitled, "Elevation and Depression Angle Tables". The publication date is September 15, 1964. The calculation results are included in Figure D. The depression angles vary from 0.9° to 1.3° below the horizontal plane. The terrain elevations for the study locations were obtained from the U. S. Geological Survey 3-arcsecond terrain elevation database.

Figure E consists of a tabulation of proposed KDOC-DT vertical plane relative field data for the study point radial directions that are identified in Figure C. The data in Figure E were converted to effective radiated power in terms of megawatts (MW), and the results are presented in Figure F, Sheet 2 of 2. Figure F, Sheet 1 of 2 presents previously furnished similar information for the original KDOC-DT CP in BPCDT-19981028KE, and for the outstanding construction permit in BMPCDT-20000427ABH. The information was provided in BMPCDT-20000427ABH as part of a similar Appendix presentation as is now furnished, here.

The data of Figure F were used to plot the patterns of Figure G. The graphs of Figure G compare the vertical plane radiations for the original and currently authorized KDOC-DT operations with the operation that is now proposed toward the Tijuana allotment, Channel 32, study points that are shown in Figure C. Each graph, also, shows the horizontal plane and the depression angle below the horizontal plane to the particular study point that is under review. In each instance, the radiation proposed is equal to, or less than, 200 kW. The proposed radiation exceeds the 200 kW threshold, only, within U.S. territory.

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Figures H and I are copies of the azimuth pattern and the vertical plane pattern, respectively, for the KDOC-DT, original, 200 kW (max-DA), CP operation. Figure J is the tabulation of relative field data for the pattern of Figure I. This material was used to prepare the vertical plane graphs for the original CP operation that are shown in Figure G. The material is presented for convenience in reviewing the work effort.

FIGURE A

SUMMARY OF PREVIOUS AND PROPOSED KDOC-DT PARAMETERS

	Original Construction Permit	Outstanding Construction Permit	Proposed C.P. Modification
Site Coordinates: (N. Lat./W. Long.)	34° 13' 37" 118° 03' 58"	34° 13' 35" 118° 03' 58"	34° 13' 35" 118° 03' 58"
Channel	32	32	32
Maximum ERP	200 kW	1000 kW	1000 kW
Antenna Radiation Center			
a) AMSL (meters)	1847	1827	1826
b) AAT (meters)	960	938	937
Antenna Type	slotted coaxial	custom panel	custom panel

FIGURE B

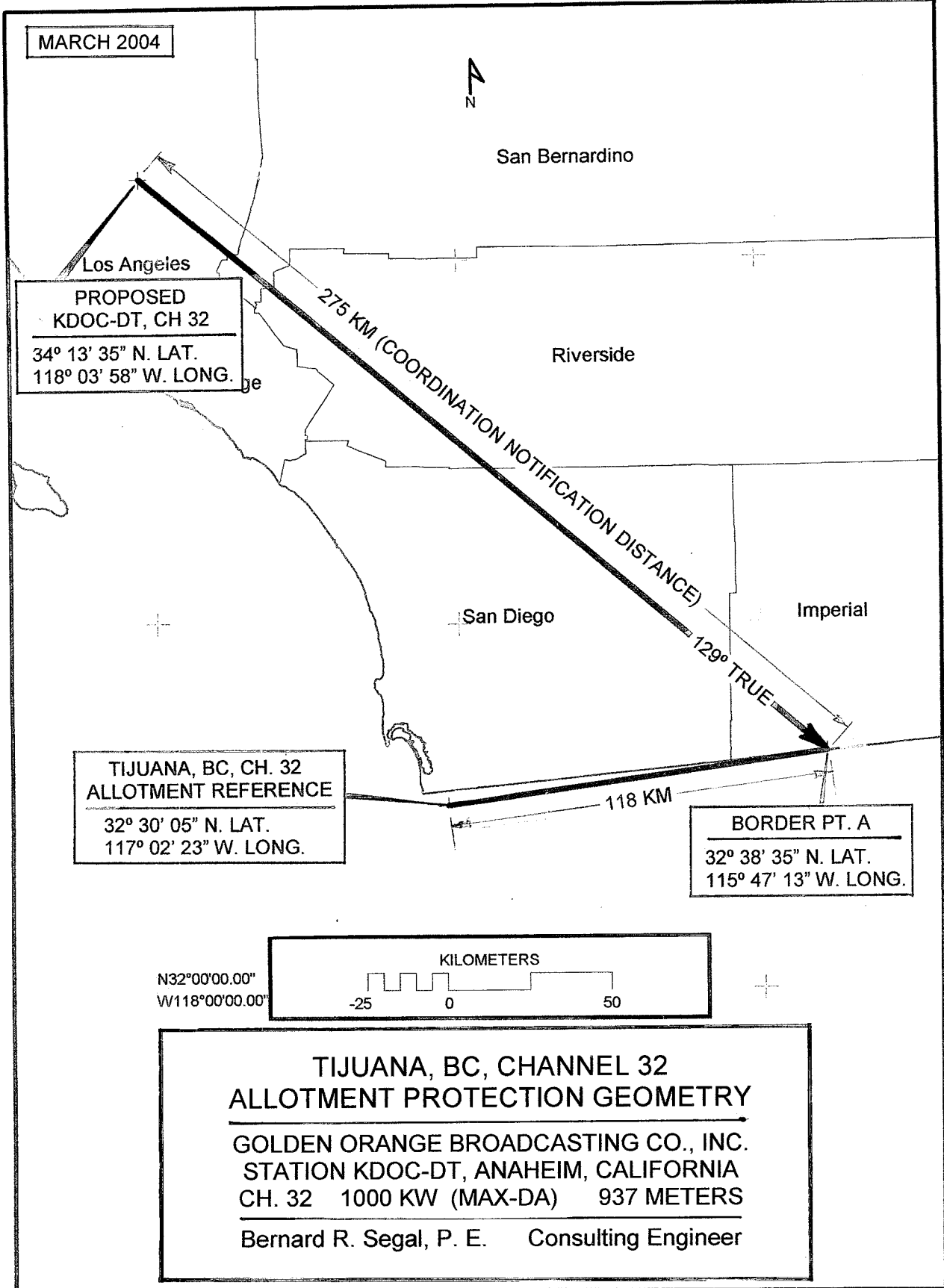
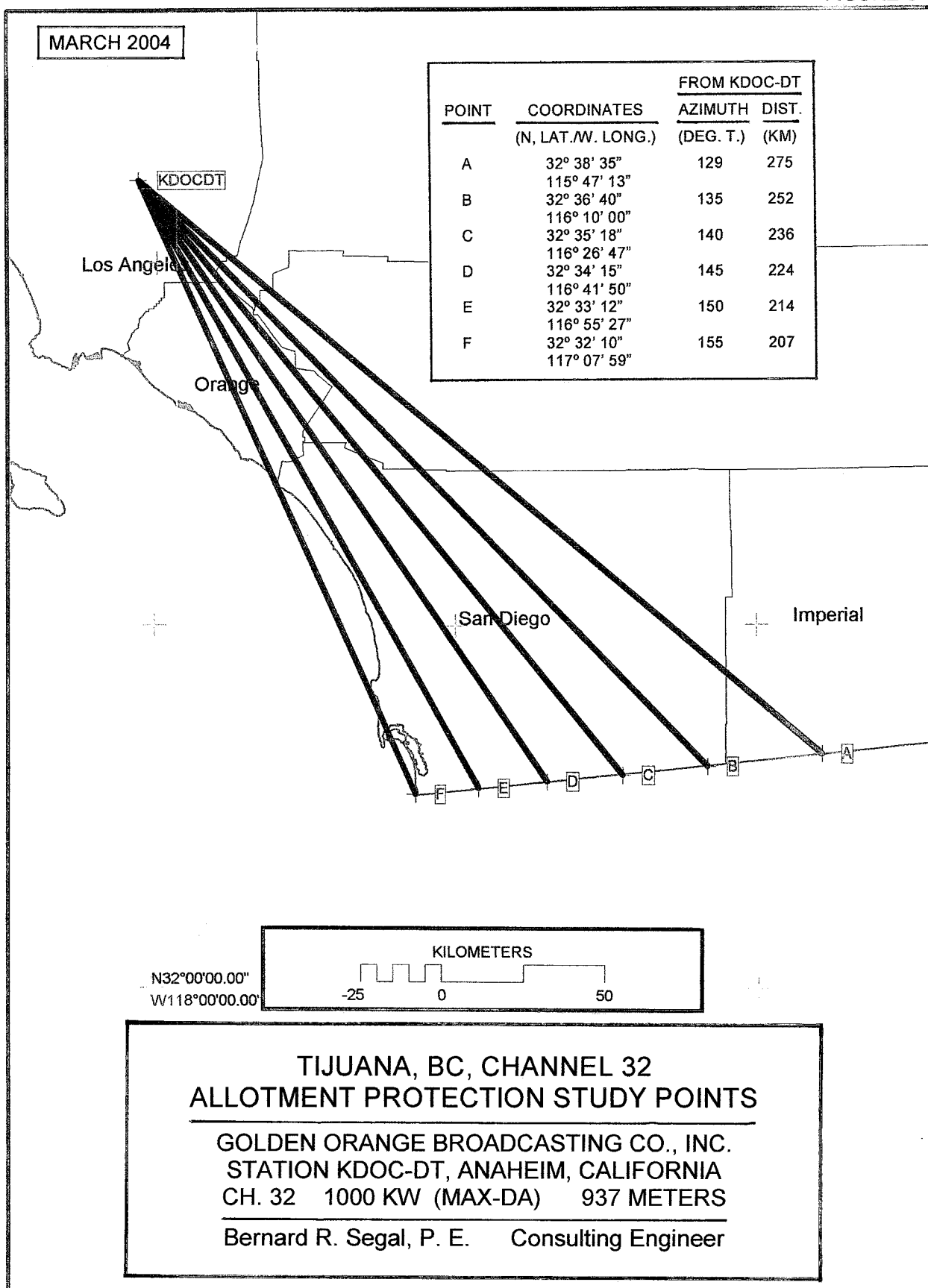


FIGURE C



BERNARD R. SEGAL, P. E.
CONSULTING ENGINEER
KENSINGTON, MARYLAND

FIGURE D

DEPRESSION ANGLES TO TIJUANA, CH. 32,
ALLOTMENT PROTECTION STUDY POINTS

POINT	GEOGRAPHIC COORDINATES	FROM KDOC-DT AZIMUTH	DISTANCE	ELEVATION AT POINT	POINT HEIGHT DIFFERENTIAL	DEPRESSION ANGLE
	(N. L./ W. L.)	(DEG. T)	(KM)	(mAMSL)	(meters)	(degrees)
A	32° 38' 35" 115° 47' 13"	129	275	73.2	-1752.6	1.3
B	32° 36' 40" 116° 10' 00"	135	252	871.1	-972.9	1.1
C	32° 35' 18" 116° 26' 47"	140	236	976.0	-849.8	1.0
D	32° 34' 15" 116° 55' 27"	145	224	1018.0	-807.7	0.9
E	32° 33' 12" 116° 55' 27"	150	214	166.1	-1659.6	1.2
F	32° 32' 10" 117° 07' 59"	155	207	0.0	-1825.8	1.2

Notes: The formula used for determining the depression angles is the one given in the FCC, Office of the Chief Engineer, Research Division, Report No. R-6410, entitled, "Elevation and Depression Angle Tables" The publication date is September 15, 1964. The formula is given in English units using a 4/3 earth's radius of 5280 miles. The metric values given in the above tabulation were converted from the English values, thereby resulting in some small rounding errors. The KDOC-DT antenna radiation center height used is 1826 meters (5990 feet) above mean sea level.

BERNARD R. SEGAL, P. E.
CONSULTING ENGINEER
KENSINGTON, MARYLAND

FIGURE E

TABULATION OF KDOC-DT VERTICAL PLANE RELATIVE FIELD DATA
(MAXIMUM ERP = 1000 KW)

VERTICAL DEPRESSION ANGLE	AZIMUTH - DEGREES TRUE					
	129	135	140	145	150	155
0	0.1881	0.1457	0.1102	0.1354	0.2891	0.4518
0.1	0.1677	0.1256	0.0913	0.1184	0.2773	0.4504
0.2	0.1443	0.1006	0.0679	0.1013	0.2661	0.4496
0.3	0.1184	0.0702	0.0394	0.086	0.2558	0.4488
0.4	0.0927	0.0343	0.0093	0.0781	0.247	0.4476
0.5	0.0746	0.0083	0.0368	0.0855	0.2408	0.4458
0.6	0.0783	0.0539	0.0816	0.1103	0.2392	0.4433
0.7	0.1074	0.1049	0.1317	0.1482	0.244	0.4402
0.8	0.1513	0.1597	0.1859	0.1947	0.2573	0.4369
0.9	0.2028	0.2175	0.2435	0.2473	0.2798	0.4342
1	0.2583	0.2772	0.3035	0.3041	0.3114	0.433
1.1	0.3159	0.3376	0.3644	0.3637	0.3506	0.4346
1.2	0.3739	0.3976	0.4254	0.4246	0.3961	0.4401
1.3	0.4312	0.456	0.4852	0.4857	0.4459	0.4505
1.4	0.4865	0.5118	0.5426	0.5456	0.4983	0.4664
1.5	0.5385	0.5637	0.5965	0.6032	0.5516	0.4878
1.6	0.5863	0.6109	0.6458	0.6572	0.6044	0.5141
1.7	0.629	0.6523	0.6896	0.7067	0.6551	0.5443
1.8	0.6656	0.6874	0.7272	0.7505	0.7025	0.577
1.9	0.6957	0.7155	0.7578	0.7881	0.7455	0.6108
2	0.7187	0.7363	0.7812	0.8186	0.783	0.6442
2.1	0.734	0.7493	0.7967	0.8414	0.8139	0.6757
2.2	0.742	0.7548	0.8047	0.8566	0.838	0.704
2.3	0.7426	0.7532	0.8054	0.8641	0.8548	0.7282
2.4	0.7363	0.7449	0.7992	0.8641	0.864	0.7473
2.5	0.7236	0.7306	0.7868	0.8571	0.8658	0.7607
2.6	0.7052	0.7112	0.7689	0.8544	0.8603	0.7678
2.7	0.6819	0.6876	0.7465	0.8244	0.8479	0.7685
2.8	0.6549	0.6609	0.7208	0.8004	0.8292	0.7626
2.9	0.625	0.6324	0.6927	0.7726	0.8051	0.7504
3	0.5936	0.603	0.6635	0.7421	0.7763	0.7322
3.5	0.4466	0.4747	0.5284	0.5827	0.5981	0.5745
4	0.3483	0.3839	0.4246	0.4538	0.4413	0.3964
4.5	0.2437	0.267	0.2958	0.3212	0.318	0.2844
5	0.1395	0.1562	0.1733	0.1907	0.2009	0.2101
5.5	0.1637	0.1841	0.1942	0.1917	0.1727	0.1588
6	0.2021	0.2177	0.2312	0.2362	0.2164	0.1719
6.5	0.1667	0.1757	0.1904	0.2046	0.2015	0.1759
7	0.1062	0.1148	0.1249	0.1344	0.1357	0.1316

BERNARD R. SEGAL, P. E.
CONSULTING ENGINEER
KENSINGTON, MARYLAND

FIGURE F
SHEET 1 OF 2

TABULATION OF DATA FOR KDOC-DT PREVIOUS
VERTICAL PLANE RADIATION PATTERNS

DEPRES- SION ANGLE (Degrees)	129° T.		135° T.		140° T.		145° T.		150° T.		155° T.	
	ERP		ERP		ERP		ERP		ERP		ERP	
	ORIG.	PRES.	ORIG.	PRES.	ORIG.	PRES.	ORIG.	PRES.	ORIG.	PRES.	ORIG.	PRES.
	C.P.	C.P.	C.P.	C.P.	C.P.	C.P.	C.P.	C.P.	C.P.	C.P.	C.P.	C.P.
	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
-4.0	0.003	0.007	0.003	0.007	0.003	0.008	0.003	0.008	0.003	0.008	0.003	0.009
-3.5		0.012		0.013		0.015		0.016		0.017		0.016
-3.0	0.010	0.014	0.010	0.015	0.010	0.018	0.010	0.020	0.009	0.022	0.009	0.021
-2.5		0.013		0.013		0.015		0.018		0.019		0.019
-2.0	0.057	0.013	0.057	0.013	0.056	0.014	0.054	0.016	0.053	0.018	0.051	0.018
-1.5		0.020		0.020		0.022		0.024		0.025		0.025
-1.0	0.117	0.029	0.117	0.030	0.114	0.033	0.111	0.037	0.108	0.039	0.106	0.038
-0.5		0.036		0.036		0.039		0.044		0.048		0.047
0.0	0.176	0.044	0.176	0.043	0.172	0.044	0.168	0.047	0.163	0.050	0.159	0.051
0.5		0.070		0.072		0.070		0.070		0.069		0.069
0.9		0.114		0.126		0.129		0.126		0.119		0.112
1.0	0.200	0.129	0.200	0.145	0.195	0.150	0.191	0.147	0.185	0.138	0.181	0.129
1.1		0.146		0.166		0.174		0.171		0.160		0.148
1.2		0.163		0.188		0.199		0.197		0.184		0.169
1.3		0.182		0.186		0.212		0.225		0.226		0.191
1.5		0.221		0.262		0.285		0.287		0.268		0.242
2.0	0.179	0.314	0.179	0.383	0.175	0.434	0.171	0.448	0.166	0.422	0.162	0.376
2.5		0.364		0.451		0.526		0.557		0.529		0.469
3.0	0.125	0.343	0.125	0.431	0.122	0.516	0.119	0.557	0.116	0.533	0.113	0.472
3.5		0.261		0.334		0.409		0.373		0.432		0.381
4.0	0.067	0.160	0.067	0.209	0.065	0.262	0.064	0.291	0.062	0.281	0.060	0.246
5.0	0.026	0.042	0.026	0.058	0.025	0.074	0.025	0.082	0.024	0.077	0.023	0.066
6.0	0.009	0.030	0.009	0.040	0.009	0.050	0.009	0.055	0.008	0.053	0.008	0.046
7.0		0.014		0.019		0.025		0.028		0.027		0.023
8.0		0.010		0.013		0.016		0.017		0.015		0.013
9.0		0.010		0.013		0.017		0.019		0.018		0.016
10.0		0.002		0.003		0.005		0.005		0.005		0.004

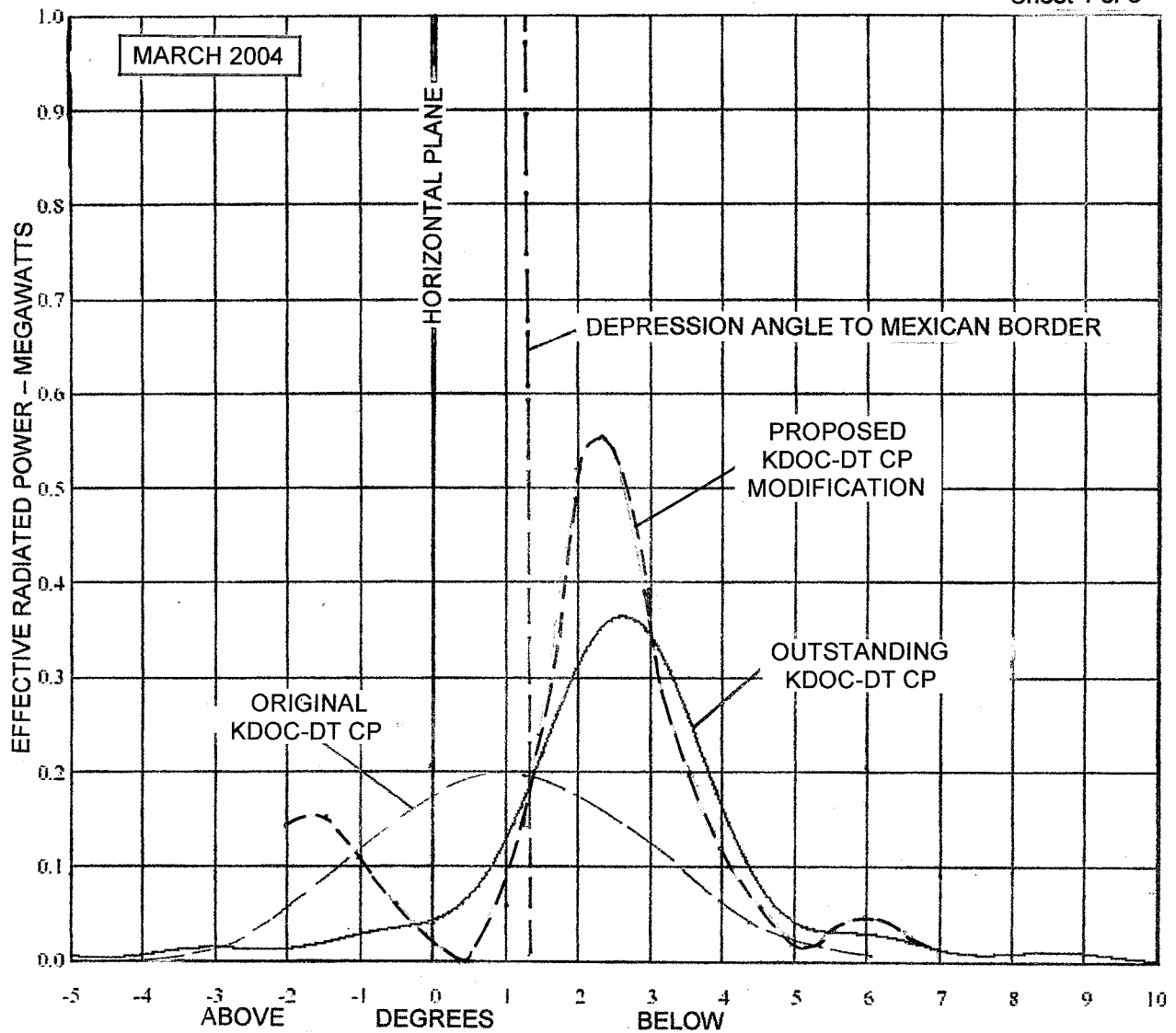
BERNARD R. SEGAL, P. E.
CONSULTING ENGINEER
KENSINGTON, MARYLAND

FIGURE F
SHEET 2 OF 2

TABULATION OF DATA FOR KDOC-DT PROPOSED
VERTICAL PLANE RADIATION PATTERNS

DEPRES- SION ANGLE (degrees)	129° T. <u>ERP</u> (MW)	135° T. <u>ERP</u> (MW)	140° T. <u>ERP</u> (MW)	145° T. <u>ERP</u> (MW)	150° T. <u>ERP</u> (MW)	155° T. <u>ERP</u> (MW)
-2.0	0.142	0.125	0.130	0.158	0.180	0.130
-1.5	0.146	0.118	0.120	0.161	0.216	0.197
-1.0	0.108	0.074	0.070	0.110	0.194	0.236
-0.5	0.067	0.041	0.030	0.050	0.131	0.222
0.0	0.035	0.021	0.012	0.018	0.084	0.204
0.5	0.006	0.000	0.001	0.007	0.058	0.199
0.9	0.041	0.047	0.059	0.061	0.078	0.189
1.0	0.067	0.077	0.092	0.092	0.097	0.187
1.1	0.100	0.114	0.133	0.132	0.123	0.189
1.2	0.140	0.158	0.181	0.180	0.157	0.194
1.3	0.186	0.208	0.235	0.236	0.199	0.203
1.4	0.237	0.262	0.294	0.298	0.248	0.218
1.5	0.290	0.318	0.356	0.364	0.304	0.238
1.6	0.344	0.373	0.416	0.432	0.365	0.264
2.0	0.517	0.542	0.610	0.670	0.613	0.415
2.5	0.524	0.534	0.618	0.735	0.750	0.579
3.0	0.352	0.364	0.440	0.551	0.603	0.536
3.5	0.199	0.225	0.279	0.340	0.358	0.330
4.0	0.121	0.147	0.180	0.206	0.195	0.157
4.5	0.059	0.071	0.087	0.103	0.101	0.081
5.0	0.019	0.024	0.030	0.036	0.040	0.044
5.5	0.027	0.034	0.038	0.037	0.030	0.025
6.0	0.041	0.047	0.053	0.056	0.047	0.030
6.5	0.028	0.031	0.036	0.042	0.041	0.031
7.0	0.011	0.013	0.015	0.018	0.018	0.017

FIGURE G
Sheet 1 of 6



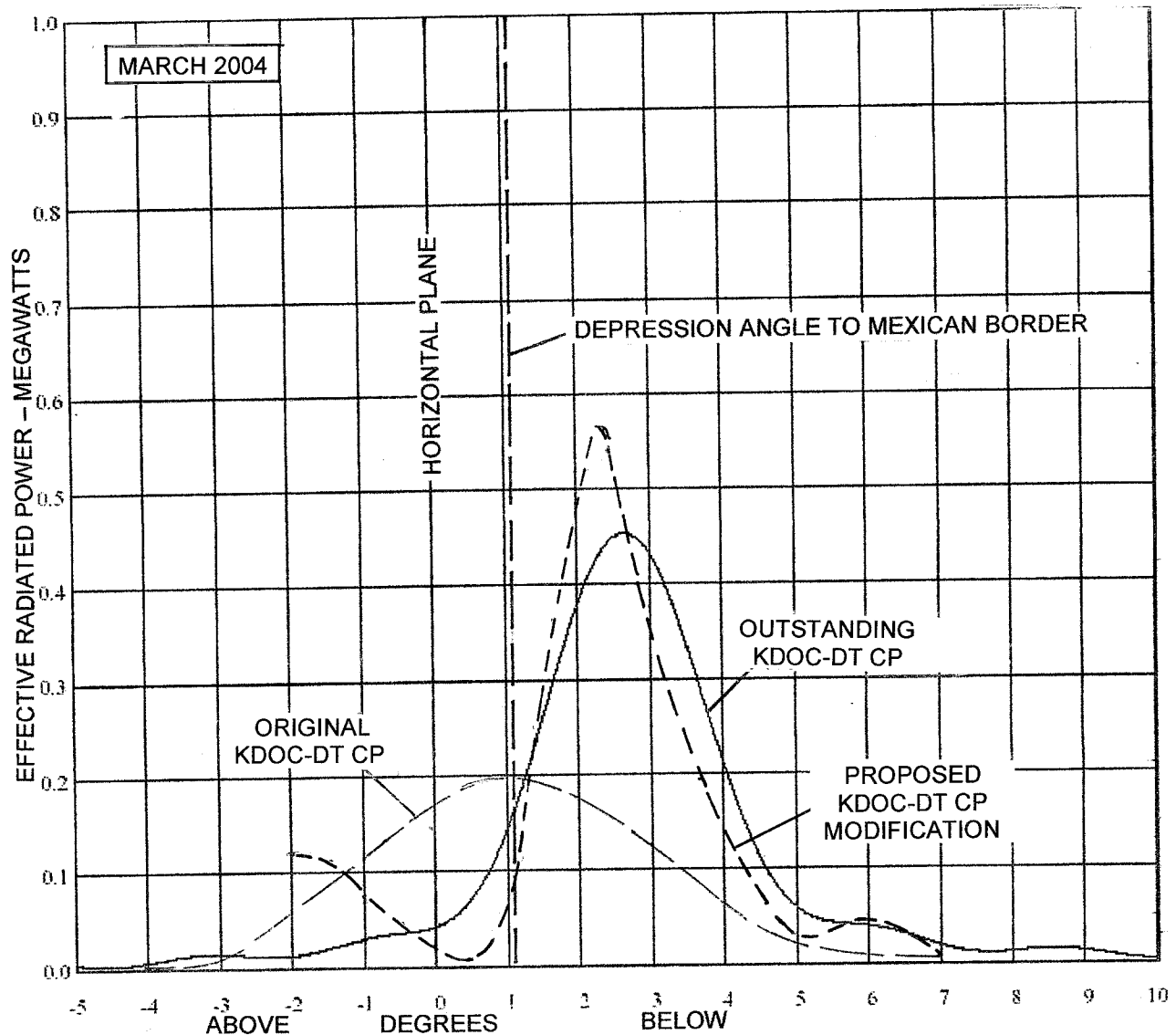
**CP AND PROPOSED KDOC-DT VERTICAL
PLANE RADIATION PATTERNS AT 129° TRUE**

GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT, ANAHEIM, CALIFORNIA
CH. 32 1000 KW AVG. (MAX-DA) 938 METERS

Bernard R. Segal, P. E.

Consulting Engineer

FIGURE G
Sheet 2 of 6



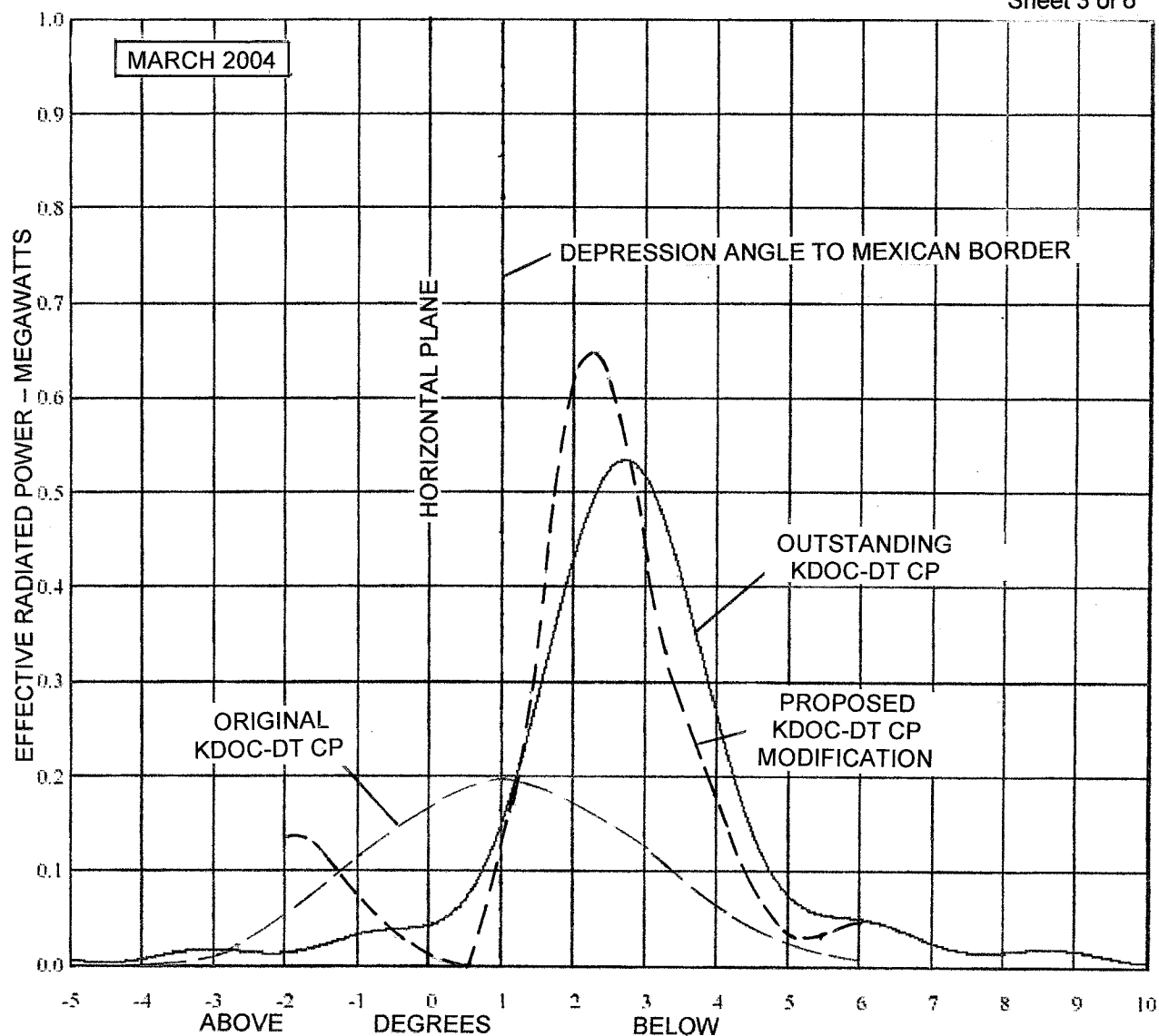
**CP AND PROPOSED KDOC-DT VERTICAL
PLANE RADIATION PATTERNS AT 135° TRUE**

GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT, ANAHEIM, CALIFORNIA
CH. 32 1000 KW AVG. (MAX-DA) 938 METERS

Bernard R. Segal, P. E.

Consulting Engineer

FIGURE G
Sheet 3 of 6



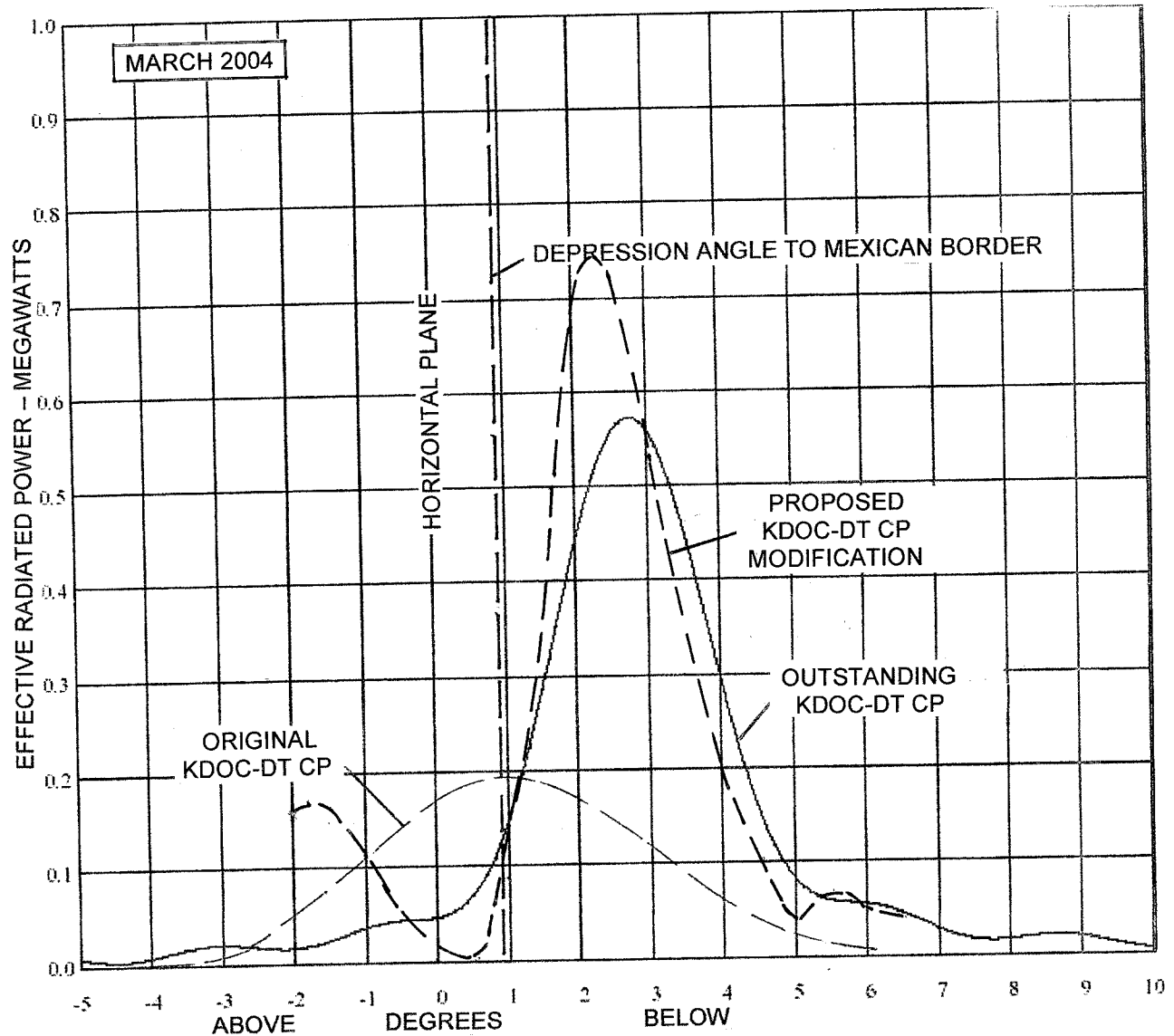
**CP AND PROPOSED KDOC-DT VERTICAL
PLANE RADIATION PATTERNS AT 140° TRUE**

GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT, ANAHEIM, CALIFORNIA
CH. 32 1000 KW AVG. (MAX-DA) 938 METERS

Bernard R. Segal, P. E.

Consulting Engineer

FIGURE G
Sheet 4 of 6



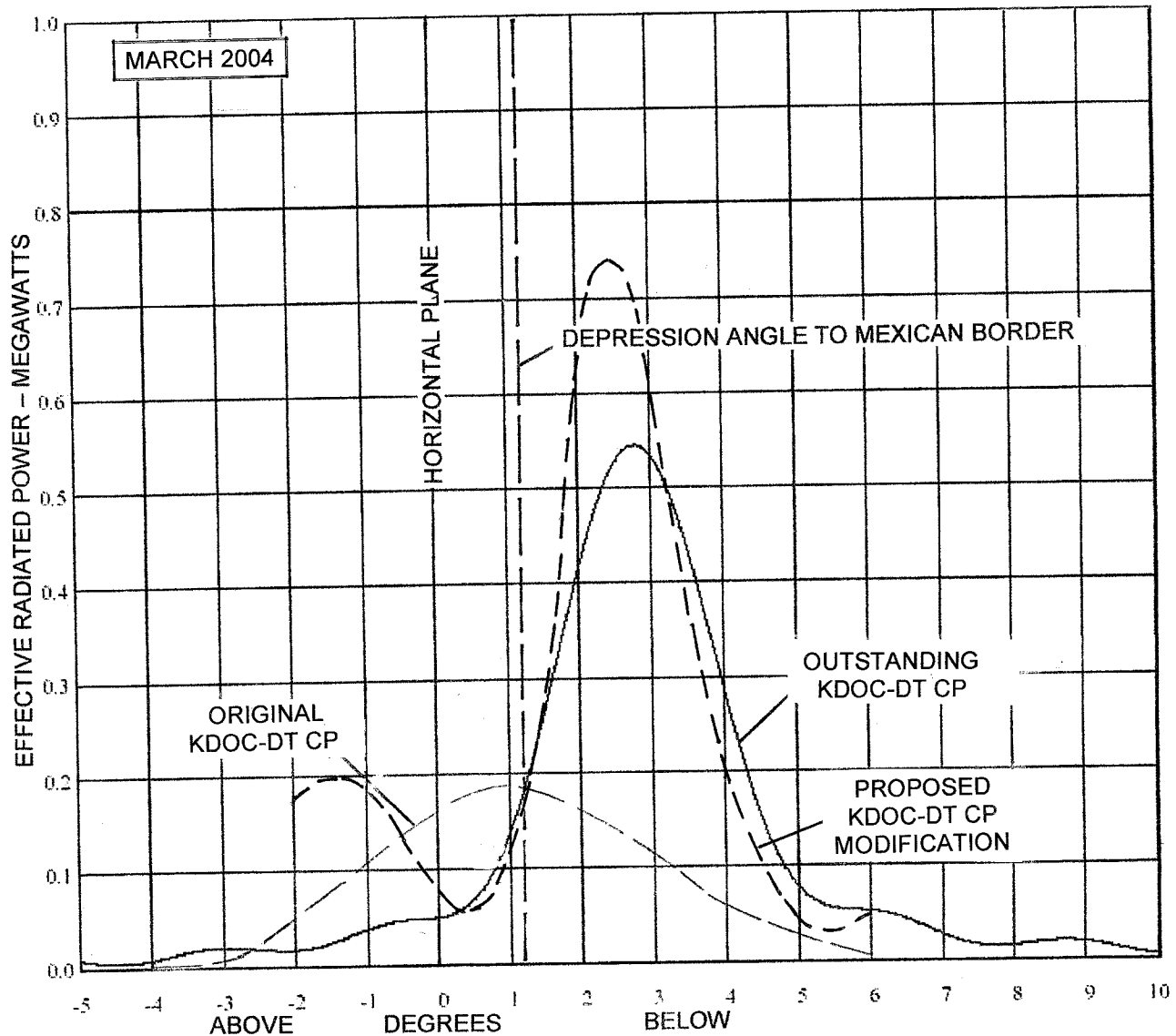
**CP AND PROPOSED KDOC-DT VERTICAL
PLANE RADIATION PATTERNS AT 145° TRUE**

GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT, ANAHEIM, CALIFORNIA
CH. 32 1000 KW AVG. (MAX-DA) 938 METERS

Bernard R. Segal, P. E.

Consulting Engineer

FIGURE G
Sheet 5 of 6



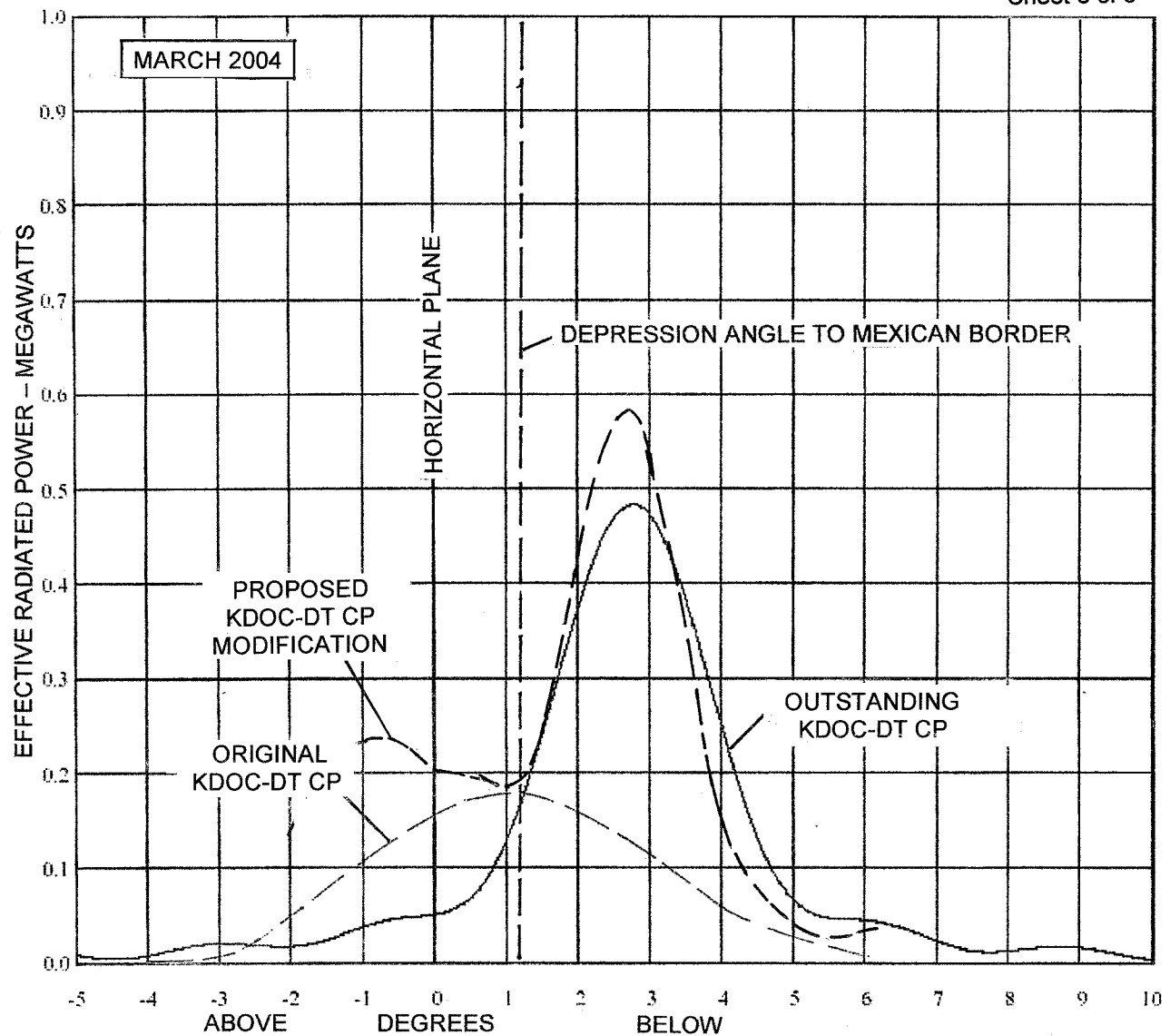
**CP AND PROPOSED KDOC-DT VERTICAL
PLANE RADIATION PATTERNS AT 150° TRUE**

GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT, ANAHEIM, CALIFORNIA
CH. 32 1000 KW AVG. (MAX-DA) 938 METERS

Bernard R. Segal, P. E.

Consulting Engineer

FIGURE G
Sheet 6 of 6



**CP AND PROPOSED KDOC-DT VERTICAL
PLANE RADIATION PATTERNS AT 155° TRUE**

GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT, ANAHEIM, CALIFORNIA
CH. 32 1000 KW AVG. (MAX-DA) 938 METERS

Bernard R. Segal, P. E.

Consulting Engineer

**KDOC-DT AZIMUTH PATTERN FOR
CH. 32, 200 KW (MAX-DA), 960 METERS, CP
(RELATIVE FIELD)**

**GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT ANAHEIM, CALIFORNIA
CH. 32 1000 KW (MAX-DA) 937 METERS**

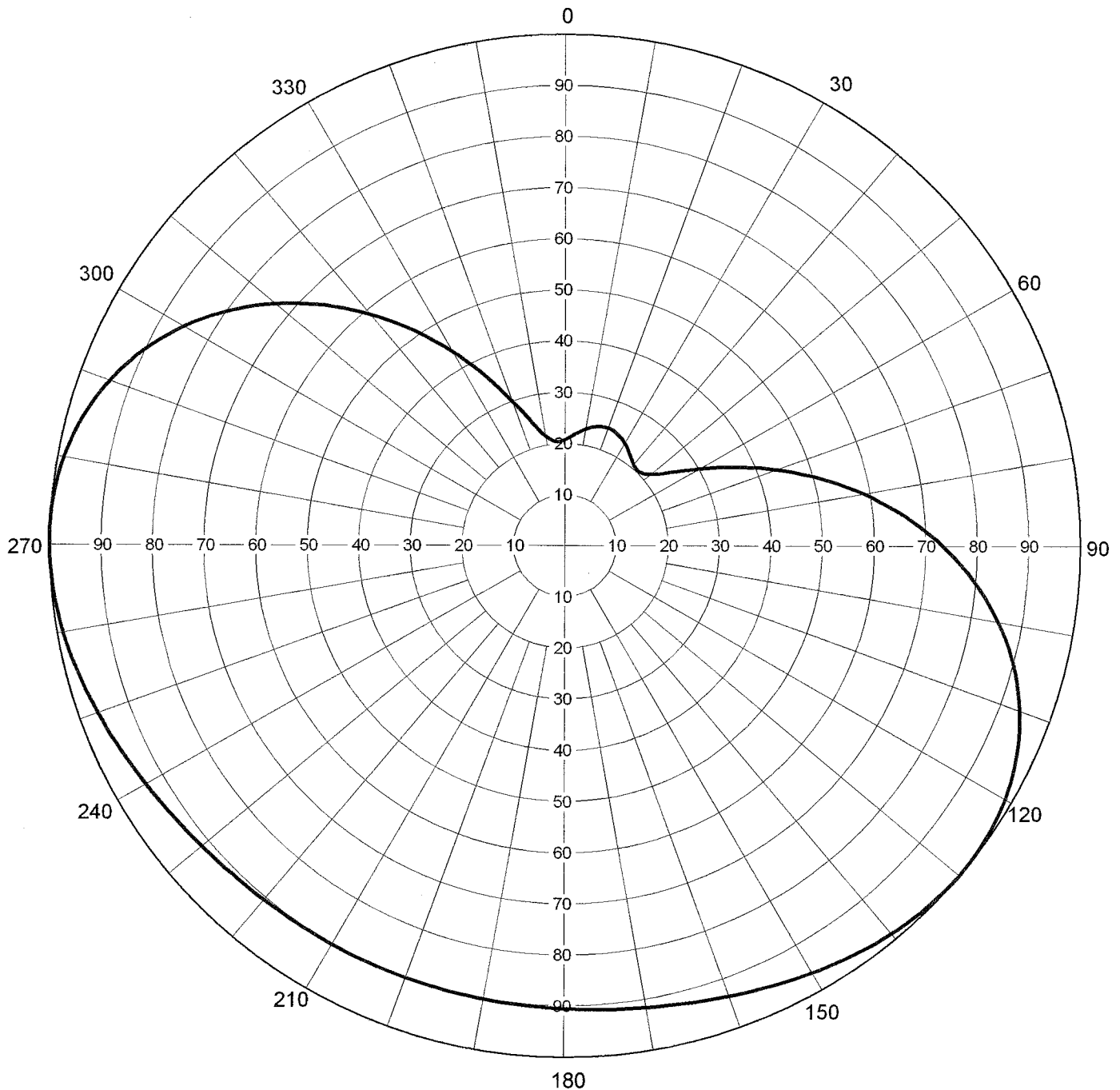
Bernard. R. Segal, P. E. Consulting Engineer

RMS Gain at Main Lobe
Calculated / Measured

1.70 (2.30 dB)
Calculated

Frequency
Drawing #

581 MHz
TFU-C170



Remarks:

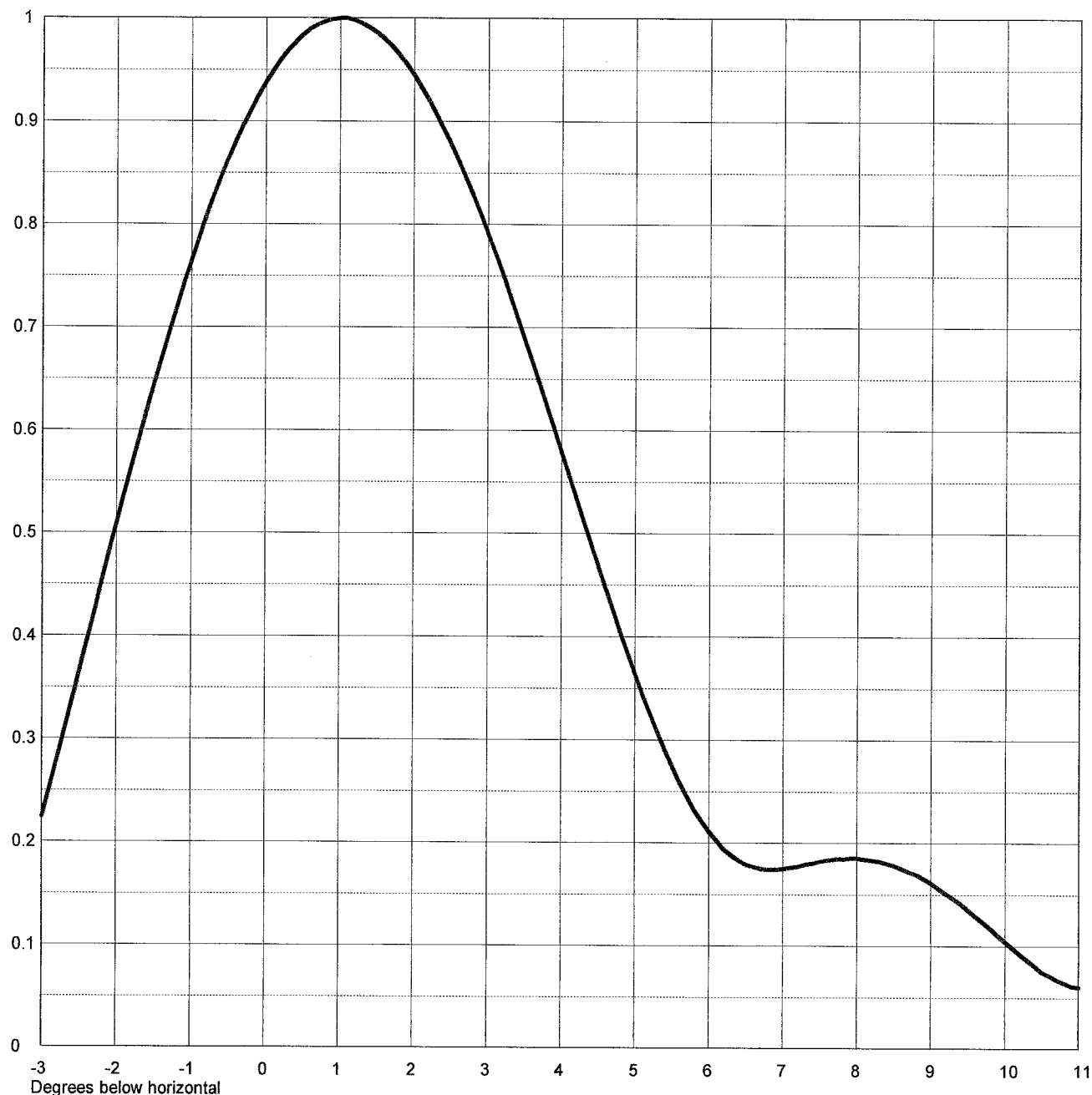
KDOC-DT VERTICAL PLANE PATTERN FOR
CH. 32, 200 KW (MAX-DA), 960 METERS, CP
(RELATIVE FIELD)

GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT ANAHEIM, CALIFORNIA
CH. 32 1000 KW (MAX-DA) 937 METERS

Bernard. R. Segal, P. E. Consulting Engineer

RMS Gain at Main Lobe **9.5 (9.78 dB)**
RMS Gain at Horizontal **8.4 (9.24 dB)**
Calculated / Measured **Calculated**

Beam Tilt **1.00 Degrees**
Frequency **581.00 MHz**
Drawing # **10Q095100**



Remarks:

Dielectric

FIGURE J

TABULATION OF VERTICAL PLANE DATA FOR
KDOC-DT, CH. 32, 200 KW (MAX-DA), 960 METERS, CP

GOLDEN ORANGE BROADCASTING CO., INC.
STATION KDOC-DT ANAHEIM, CALIFORNIA
CH. 32 1000 KW (MAX-DA) 937 METERS

Bernard. R. Segal, P. E. Consulting Engineer

Elevation Pattern Drawing # **10Q095100**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.251	2.4	0.893	10.6	0.071	30.5	0.171	51.0	0.075	71.5	0.042
-9.5	0.296	2.6	0.862	10.8	0.064	31.0	0.171	51.5	0.076	72.0	0.048
-9.0	0.344	2.8	0.828	11.0	0.060	31.5	0.167	52.0	0.077	72.5	0.053
-8.5	0.392	3.0	0.791	11.5	0.067	32.0	0.159	52.5	0.078	73.0	0.058
-8.0	0.432	3.2	0.752	12.0	0.084	32.5	0.147	53.0	0.080	73.5	0.062
-7.5	0.461	3.4	0.710	12.5	0.101	33.0	0.133	53.5	0.083	74.0	0.065
-7.0	0.473	3.6	0.668	13.0	0.112	33.5	0.117	54.0	0.086	74.5	0.067
-6.5	0.466	3.8	0.624	13.5	0.115	34.0	0.100	54.5	0.091	75.0	0.069
-6.0	0.436	4.0	0.579	14.0	0.110	34.5	0.085	55.0	0.098	75.5	0.070
-5.5	0.383	4.2	0.535	14.5	0.100	35.0	0.071	55.5	0.105	76.0	0.070
-5.0	0.307	4.4	0.490	15.0	0.089	35.5	0.059	56.0	0.113	76.5	0.070
-4.5	0.212	4.6	0.446	15.5	0.083	36.0	0.050	56.5	0.121	77.0	0.070
-4.0	0.114	4.8	0.404	16.0	0.087	36.5	0.043	57.0	0.130	77.5	0.068
-3.5	0.106	5.0	0.364	16.5	0.101	37.0	0.038	57.5	0.138	78.0	0.067
-3.0	0.224	5.2	0.326	17.0	0.119	37.5	0.034	58.0	0.145	78.5	0.065
-2.8	0.280	5.4	0.291	17.5	0.136	38.0	0.032	58.5	0.151	79.0	0.063
-2.6	0.337	5.6	0.259	18.0	0.150	38.5	0.034	59.0	0.156	79.5	0.060
-2.4	0.395	5.8	0.232	18.5	0.157	39.0	0.040	59.5	0.160	80.0	0.057
-2.2	0.452	6.0	0.211	19.0	0.157	39.5	0.050	60.0	0.162	80.5	0.054
-2.0	0.509	6.2	0.194	19.5	0.150	40.0	0.062	60.5	0.162	81.0	0.051
-1.8	0.564	6.4	0.183	20.0	0.137	40.5	0.075	61.0	0.161	81.5	0.048
-1.6	0.618	6.6	0.177	20.5	0.118	41.0	0.087	61.5	0.158	82.0	0.044
-1.4	0.669	6.8	0.174	21.0	0.096	41.5	0.099	62.0	0.153	82.5	0.041
-1.2	0.718	7.0	0.175	21.5	0.071	42.0	0.110	62.5	0.147	83.0	0.037
-1.0	0.764	7.2	0.177	22.0	0.046	42.5	0.118	63.0	0.140	83.5	0.034
-0.8	0.807	7.4	0.180	22.5	0.023	43.0	0.124	63.5	0.132	84.0	0.030
-0.6	0.846	7.6	0.183	23.0	0.005	43.5	0.128	64.0	0.122	84.5	0.027
-0.4	0.881	7.8	0.184	23.5	0.013	44.0	0.128	64.5	0.112	85.0	0.023
-0.2	0.911	8.0	0.185	24.0	0.022	44.5	0.127	65.0	0.101	85.5	0.020
0.0	0.938	8.2	0.183	24.5	0.026	45.0	0.122	65.5	0.090	86.0	0.017
0.2	0.960	8.4	0.180	25.0	0.026	45.5	0.116	66.0	0.078	86.5	0.014
0.4	0.977	8.6	0.175	25.5	0.022	46.0	0.109	66.5	0.067	87.0	0.011
0.6	0.990	8.8	0.169	26.0	0.024	46.5	0.101	67.0	0.055	87.5	0.008
0.8	0.997	9.0	0.161	26.5	0.036	47.0	0.093	67.5	0.044	88.0	0.006
1.0	1.000	9.2	0.151	27.0	0.054	47.5	0.085	68.0	0.034	88.5	0.004
1.2	0.998	9.4	0.141	27.5	0.076	48.0	0.079	68.5	0.025	89.0	0.002
1.4	0.991	9.6	0.129	28.0	0.099	48.5	0.075	69.0	0.019	89.5	0.001
1.6	0.980	9.8	0.117	28.5	0.120	49.0	0.072	69.5	0.019	90.0	0.000
1.8	0.964	10.0	0.104	29.0	0.139	49.5	0.072	70.0	0.023		
2.0	0.945	10.2	0.092	29.5	0.154	50.0	0.072	70.5	0.029		
2.2	0.921	10.4	0.081	30.0	0.165	50.5	0.073	71.0	0.036		

Remarks: