

Radio Station KDIA • 1640 kHz, Class B • Vallejo, California

Interference Protection FCC Form 301 §III-A, Question 10.b.

The proposed facility meets all FCC Standard Band Rules pertaining to skywave protection of all existing stations, permits, and applications, as summarized below.

RSS Calculations

The proposed facility enters into the 50% RSS of two other stations (KDZR and KBJA), but its contributions do not increase over those now authorized, as shown in the following Exhibit 16B. Radio Station XEUT-AM, 1630 kHz, has been allotted to Tijuana, Mexico, and an application has been filed for that station. Prior approval was given by FCC staff to include XEUT-AM in all nighttime RSS studies.

As shown in the table below, two stations make up the 50% RSS of the proposed facility, giving an interference-free contour level of 5.46 mV/m:

To KDIA 1640 kHz proposed

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KDZR	1640	814	179.3	47.9	8.2	14.5	0.0583	8.2	367.0	4.28	4.28
KBJA	1640	945	255.7	46.6	6.5	12.1	0.0474	6.5	358.3	3.39	5.46
KFOX	1650	586	322.5	42.7	12.5	20.9	0.0993	12.5	256.4	0.51	
WTNI	1640	3179	294.7	44.4	0.0	0.0	0.0054	0.0	420.0	0.45	
XEUT_AM	1630	795	323.1	42.1	8.5	14.9	0.0653	8.5	283.8	0.37	
KFNY	1640	2192	283.3	46.0	0.0	1.3	0.0108	1.3	157.4	0.34	
WKSH	1640	2920	270.9	50.6	0.0	0.0	0.0045	0.0	301.9	0.27	

“Clipping” Study

The proposed facility provides the required nighttime protections along the nighttime interference-free contours of all stations entitled to protection.

Preclusion Study

The directional pattern, Exhibit 11E, indicates that the proposed nighttime radiation in the main beam of the KDIA pattern would exceed the licensed non-directional radiation value of 333.0 mV/m @1 km through an arc beginning at 146°T through 326°T. Exhibits 16C and 16D show the area of potential increased interference from KDIA. However, based upon FCC expanded band rules, no new stations on the co-channel or a first-, second-, or third-adjacent channel can be allocated within this area.

The FCC expanded band rules require co-channel separation of 800 kilometers and first-adjacent channel separation of 200 kilometers. As shown in the attached Exhibit 16C, the 800-kilometer arc from Radio Station KDIA, 1640 kHz, precludes the allocation of 1640 kHz throughout the area subject to increased interference. Similarly, Radio Stations XEUT_AM, 1630 kHz, and KFOX, 1650 kHz, preclude the allocation of 1630 kHz and 1650 kHz throughout this area.



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As shown in Exhibit 16D, new facilities on 1610 kHz, 1620 kHz, 1660 kHz, and 1670 kHz are also precluded throughout the area subject to increased interference. The combined 200-kilometer protection spacings of Radio Stations KUBA, KMNY, KGST, and KTAP, all 1600 kHz, and KSMH, 1620 kHz, preclude the allocation of 1610 kHz throughout this area, with KSMH also precluding the allocation of 1620 kHz. Radio Stations KTIQ, 1660 kHz, and KHPY, 1670 kHz, preclude the allocation of 1660 kHz and 1670 kHz, respectively, throughout the subject area.

Summary

The 10 kW directional operation proposed by Radio Station KDIA meets all allocations rules with regard to existing stations in the expanded band. In addition, the proposal meets allocation rules to all potential new allotments in the band allowed by expanded band rules and will not cause increased interference over the current licensed operation to any such allocation.



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Skywave Interference Protection

Following are definitions for column heading abbreviations used in the tables:

Freq	is frequency in kilohertz.
Dist	is distance, in kilometers.
Bear	is azimuth, in degrees east from true north.
GM	is geomagnetic latitude of path midpoint, in degrees.
Tmin	is lower pertinent departure angle, in degrees.
Tmax	is higher pertinent departure angle, in degrees.
Skywv	is the 10% skywave signal for 100 mV/m radiated at 1 km, in mV/m.
Thet	is the departure angle between Tmin and Tmax where the radiation is greatest, in degrees. Note: for interference to Canada and Mexico, Thet = Tmin = Tmax departure angle (1) of Section 73.190, Figure 6a.
Rmax	is the radiation at departure angle Thet, in mV/m at 1 km.
Limit	is 20 times the skywave field at the receive point for co-channel stations and 2 times the skywave field for first adjacent stations, in mV/m.
RSS	is the square root of the sum of the squares of the limits, using the 50% and 25% exclusion rules, in mV/m.

To KCJJ 1630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
WRDW	1630	1226	319.9	48.5	3.9	8.3	0.0290	3.9	392.9	2.28	2.28
KKGM	1630	1104	26.0	47.4	4.9	9.7	0.0360	4.9	263.6	1.90	2.97
KKWY	1630	1110	82.9	51.3	4.9	9.6	0.0311	4.9	303.4	1.89	3.52 - 50%
WKSH	1640	318	240.0	52.9	23.7	36.2	0.1870	23.7	267.6	1.00	3.66
KOZN	1620	378	81.6	51.6	20.0	31.4	0.1570	20.0	301.0	0.95	3.78 - 25%
WHLV	1620	433	271.2	52.3	17.4	27.9	0.1305	17.4	285.8	0.75	
WHLV	1620	438	270.4	52.3	17.2	27.6	0.1287	17.2	289.6	0.75	
XEFRCT	1630	2520	14.6	40.9	0.0	0.0	0.0097	0.0	305.8	0.59	
KDIA -E	1640	2639	71.8	49.4	0.0	0.0	0.0061	0.0	333.0	0.04	
KDIA -P	1640	2652	71.8	49.5	0.0	0.0	0.0060	0.0	323.4	0.04	

To KKGM 1630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KCJJ	1630	1104	209.5	47.4	4.9	9.7	0.0360	4.9	299.5	2.15	2.15
KKWY	1630	1140	141.9	46.5	4.6	9.3	0.0349	4.6	303.6	2.12	3.02
WRDW	1630	1424	271.0	44.0	2.6	6.3	0.0253	2.6	395.2	2.00	3.63 - 50%
XEFRCT	1630	1450	6.3	36.2	2.4	6.1	0.0294	2.4	305.4	1.80	4.05
KFNY	1640	371	173.3	44.3	20.4	31.9	0.1722	20.4	422.1	1.45	4.30 - 25%
XEUT_AM	1630	1839	83.7	41.7	0.3	3.3	0.0170	0.3	288.4	0.98	
WTAW	1620	261	338.1	41.7	28.2	41.8	0.2408	28.2	198.3	0.96	
WTNI	1640	839	290.1	42.1	7.8	14.0	0.0604	7.8	397.7	0.48	
KDIA -E	1640	2329	97.1	44.4	0.0	0.6	0.0102	0.0	333.0	0.07	
KDIA -P	1640	2344	97.0	44.4	0.0	0.5	0.0100	0.0	324.6	0.07	



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Skywave Interference Protection

To KKWY 1630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
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To KCJJ 1630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
WRDW	1630	1226	319.9	48.5	3.9	8.3	0.0290	3.9	392.9	2.28	2.28
KKGM	1630	1104	26.0	47.4	4.9	9.7	0.0360	4.9	263.6	1.90	2.97
KKWY	1630	1110	82.9	51.3	4.9	9.6	0.0311	4.9	303.4	1.89	3.52 - 50%
WKSH	1640	318	240.0	52.9	23.7	36.2	0.1870	23.7	267.6	1.00	3.66
KOZN	1620	378	81.6	51.6	20.0	31.4	0.1570	20.0	301.0	0.95	3.78 - 25%
WHLV	1620	433	271.2	52.3	17.4	27.9	0.1305	17.4	285.8	0.75	
WHLV	1620	438	270.4	52.3	17.2	27.6	0.1287	17.2	289.6	0.75	
XEFRCT	1630	2520	14.6	40.9	0.0	0.0	0.0097	0.0	305.8	0.59	
KDIA -E	1640	2639	71.8	49.4	0.0	0.0	0.0061	0.0	333.0	0.04	
KDIA -P	1640	2652	71.8	49.5	0.0	0.0	0.0060	0.0	323.4	0.04	

To KKGM 1630 kHz

KCJJ	1630	1110	271.7	51.3	4.9	9.6	0.0311	4.9	299.5	1.86	1.86
KKGM	1630	1140	326.4	46.5	4.6	9.3	0.0349	4.6	265.7	1.86	2.63
XEUT_AM	1630	1441	45.1	45.0	2.5	6.2	0.0242	2.5	288.0	1.40	2.98 - 50%
WRDW	1630	2177	299.5	48.2	0.0	1.3	0.0099	0.0	397.1	0.78	3.08 - 25%
XEFRCT	1630	2429	348.2	40.0	0.0	0.0	0.0106	0.0	305.8	0.65	
KBJA	1640	601	83.3	49.4	12.1	20.3	0.0891	12.1	339.7	0.61	
KBLI	1620	664	107.5	50.6	10.7	18.3	0.0748	10.7	378.6	0.57	
KDIA -E	1640	1529	71.9	47.5	1.9	5.4	0.0202	1.9	332.6	0.13	
KDIA -P	1640	1542	72.0	47.5	1.9	5.3	0.0199	1.9	322.8	0.13	

To WRDW 1630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KCJJ	1630	1226	134.1	48.5	3.9	8.3	0.0290	3.9	300.0	1.74	1.74
KKGM	1630	1424	82.6	44.0	2.6	6.3	0.0253	2.6	276.8	1.40	2.24 - 50%
XEFRCT	1630	2264	44.4	37.5	0.0	0.9	0.0133	0.0	305.8	0.82	2.38
KKWY	1630	2177	105.5	48.2	0.0	1.3	0.0099	0.0	305.0	0.60	2.46 - 25%
WNRP	1620	599	53.8	43.0	12.2	20.4	0.0964	12.2	301.6	0.58	
WTNI	1640	729	60.6	43.0	9.5	16.5	0.0736	9.5	387.2	0.57	
97061aa	1620	996	226.8	48.1	6.0	11.2	0.0419	6.0	399.8	0.34	
KDIA -E	1640	3636	85.6	46.9	0.0	0.0	0.0035	0.0	333.0	0.02	
KDIA -P	1640	3650	85.5	46.9	0.0	0.0	0.0035	0.0	328.6	0.02	

To KDZR 1640 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KDIA -E	1640	816	358.4	47.9	8.2	14.5	0.0581	8.2	325.5	3.78	3.78
KDIA -P	1640	814	359.3	47.9	8.2	14.5	0.0583	14.5	304.5	3.55	
KBJA	1640	1009	305.0	50.2	5.8	11.0	0.0384	5.8	359.9	2.77	4.69 -50&25%
KFNY	1640	2318	304.3	49.7	0.0	0.7	0.0080	0.0	305.7	0.49	
WTNI	1640	3355	309.3	48.2	0.0	0.0	0.0039	0.0	420.0	0.32	
WKSH	1640	2727	287.5	54.4	0.0	0.0	0.0037	0.0	301.9	0.22	
KFOX	1650	1321	345.5	46.3	3.2	7.3	0.0273	3.2	304.2	0.17	
XEUT_AM	1630	1514	343.2	45.7	2.0	5.5	0.0218	2.0	288.1	0.13	



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To KBJA 1640 kHz

From		Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KDIA	-E	1640	932	68.7	46.6	6.7	12.3	0.0484	6.7	328.0	3.18	3.18
KDIA	-P	1640	945	69.1	46.6	6.5	12.1	0.0474	6.5	310.3	2.94	
KDZR		1640	1009	117.7	50.2	5.8	11.0	0.0384	5.8	374.7	2.88	4.29 - 50%
KFNY		1640	1334	296.8	47.6	3.1	7.1	0.0258	7.1	246.6	1.27	4.47 - 25%
WTNI		1640	2366	305.1	45.8	0.0	0.4	0.0093	0.0	420.0	0.79	
KBJD		1650	599	282.0	48.7	12.2	20.4	0.0906	12.2	327.2	0.59	
WKSH		1640	1975	270.5	52.0	0.0	2.4	0.0096	0.0	301.9	0.58	
KKWY		1630	601	268.0	49.4	12.1	20.3	0.0891	12.1	295.2	0.53	
KFOX		1650	935	35.4	44.8	6.6	12.2	0.0497	6.6	292.8	0.29	

To KFNY 1640 kHz

From		Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
WTNI		1640	1037	309.6	43.7	5.6	10.6	0.0430	5.6	408.4	3.51	3.51
WKSH		1640	1126	229.8	50.0	4.7	9.4	0.0320	4.7	300.5	1.92	4.00 - 50%
KBJA		1640	1334	108.0	47.6	3.1	7.1	0.0258	3.1	364.3	1.88	4.42
KWHN		1650	312	288.4	45.7	24.1	36.7	0.2059	24.1	273.8	1.13	4.56 - 25%
KDIA	-E	1640	2177	88.3	46.0	0.0	1.4	0.0109	0.0	333.0	0.73	
KDIA	-P	1640	2192	88.3	46.0	0.0	1.3	0.0108	0.0	327.4	0.71	
KKGM		1630	371	353.6	44.3	20.4	31.9	0.1722	31.9	194.2	0.67	
KDZR		1640	2318	107.9	49.7	0.0	0.7	0.0080	0.0	382.5	0.61	
KBJD		1650	753	120.7	47.4	9.1	15.9	0.0663	9.1	336.1	0.45	
KCNZ		1650	836	214.9	49.4	7.9	14.1	0.0539	7.9	408.1	0.44	

To WKSH 1640 kHz

From		Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
WTNI		1640	1402	2.2	47.5	2.7	6.5	0.0237	2.7	417.3	1.98	1.98
KCUJ		1630	318	57.8	52.9	23.7	36.2	0.1870	23.7	266.9	1.00	2.21 - 50%
KCNZ		1650	354	76.5	53.3	21.3	33.2	0.1637	21.3	261.9	0.86	2.37
KFNY		1640	1126	43.7	50.0	4.7	9.4	0.0320	9.4	131.4	0.84	2.52
KBJA		1640	1975	74.5	52.0	0.0	2.4	0.0096	0.0	366.1	0.71	2.62 - 25%
NEW		1650	522	324.7	52.1	14.2	23.4	0.1021	14.2	292.5	0.60	
KDIA	-E	1640	2907	68.2	50.6	0.0	0.0	0.0045	0.0	333.0	0.30	
KDIA	-P	1640	2920	68.2	50.6	0.0	0.0	0.0045	0.0	319.0	0.28	
KDZR		1640	2727	83.2	54.4	0.0	0.0	0.0037	0.0	382.5	0.28	
KWHN		1650	1021	30.0	49.7	5.7	10.9	0.0383	5.7	318.7	0.24	
WRDW		1630	1191	335.0	49.3	4.2	8.7	0.0297	4.2	392.2	0.23	

To WTNI 1640 kHz

From		Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KFNY		1640	1037	124.7	43.7	5.6	10.6	0.0430	5.6	308.3	2.65	2.65
WKSH		1640	1402	182.6	47.5	2.7	6.5	0.0237	2.7	301.4	1.43	3.01 -50&25%
KBJA		1640	2366	111.5	45.8	0.0	0.4	0.0093	0.0	366.1	0.68	
WRDW		1630	729	244.2	43.0	9.5	16.5	0.0736	9.5	372.7	0.55	
KWHN		1650	747	134.0	43.4	9.2	16.0	0.0707	9.2	314.1	0.44	
KDIA	-E	1640	3164	95.4	44.4	0.0	0.0	0.0054	0.0	333.0	0.36	
KDIA	-P	1640	3179	95.3	44.4	0.0	0.0	0.0054	0.0	324.7	0.35	



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To KBJD 1650 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KHRO	1650	904	7.9	44.6	7.0	12.8	0.0525	7.0	303.9	3.19	3.19
KCNZ	1650	1088	258.7	50.9	5.1	9.9	0.0327	5.1	424.0	2.77	4.23
KWHN	1650	1053	301.6	47.3	5.4	10.4	0.0391	5.4	319.0	2.49	4.91 - 50%
KFOX	1650	1349	57.7	45.0	3.0	7.0	0.0271	3.0	304.7	1.65	5.18 - 25%
NEW	1650	1754	278.3	50.1	0.7	3.8	0.0138	0.7	306.1	0.85	
KBJA	1640	599	97.5	48.7	12.2	20.4	0.0906	12.2	339.3	0.61	
KXOL	1660	623	103.3	49.0	11.6	19.6	0.0851	11.6	337.5	0.57	
KDIA -E	1640	1504	77.5	46.9	2.1	5.6	0.0213	2.1	332.5	0.14	
KDIA -P	1640	1518	77.5	46.9	2.0	5.5	0.0209	2.0	327.5	0.14	

To KWHN 1650 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KCNZ	1650	813	193.1	49.1	8.2	14.5	0.0568	8.2	406.0	4.61	4.61
KBJD	1650	1053	115.2	47.3	5.4	10.4	0.0391	5.4	343.5	2.68	5.33 - 50%
NEW	1650	989	246.2	48.0	6.0	11.3	0.0425	6.0	303.6	2.58	5.93
KHRO	1650	1174	67.3	43.2	4.3	8.8	0.0355	4.3	307.0	2.18	6.31 - 25%
WHKT	1650	1640	269.5	47.3	1.3	4.6	0.0179	1.3	314.5	1.12	
KXTR	1660	419	178.1	47.3	18.0	28.8	0.1477	18.0	306.3	0.90	
KFNY	1640	312	106.5	45.7	24.1	36.7	0.2059	36.7	199.0	0.82	
KDIA -E	1640	2489	88.7	46.0	0.0	0.0	0.0084	0.0	333.0	0.06	
KDIA -P	1640	2503	88.7	46.0	0.0	0.0	0.0082	0.0	327.2	0.05	

To KCNZ 1650 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KWHN	1650	813	11.8	49.1	8.2	14.5	0.0568	8.2	315.6	3.58	3.58
NEW	1650	753	299.9	51.6	9.1	15.9	0.0594	9.1	300.5	3.57	5.06 - 50%
KBJD	1650	1088	70.5	50.9	5.1	9.9	0.0327	5.1	343.9	2.25	5.54 - 25%
WHKT	1650	1515	299.3	50.9	2.0	5.5	0.0177	2.0	314.3	1.11	
KHRO	1650	1711	42.2	46.9	1.0	4.1	0.0168	1.0	308.8	1.04	
WKSH	1640	354	259.4	53.3	21.3	33.2	0.1637	21.3	273.9	0.90	
KDIA -E	1640	2561	69.8	49.7	0.0	0.0	0.0064	0.0	333.0	0.04	
KDIA -P	1640	2574	69.8	49.7	0.0	0.0	0.0063	0.0	321.0	0.04	

To KFOX 1650 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KHRO	1650	1141	285.9	41.0	4.6	9.3	0.0382	4.6	306.7	2.34	2.34
KBJD	1650	1349	245.8	45.0	3.0	7.0	0.0271	3.0	346.3	1.88	3.00 - 50%
KTIQ	1660	417	149.7	42.4	18.1	28.9	0.1514	18.1	276.1	0.84	3.12 - 25%
KWHN	1650	2184	273.3	44.0	0.0	1.3	0.0117	0.0	321.6	0.75	
KCNZ	1650	2436	256.1	47.7	0.0	0.0	0.0081	0.0	435.6	0.70	
KDIA -E	1640	575	141.2	42.7	12.7	21.3	0.1018	12.7	315.3	0.64	
KDIA -P	1640	586	140.1	42.7	12.5	20.9	0.0993	20.9	241.3	0.48	
KBJA	1640	935	219.3	44.8	6.6	12.2	0.0497	6.6	358.1	0.36	
KXOL	1660	980	216.2	45.1	6.1	11.5	0.0460	6.1	350.1	0.32	



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To KHRO 1650 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KBJD	1650	904	188.7	44.6	7.0	12.8	0.0525	7.0	340.7	3.58	3.58
KFOX	1650	1141	99.5	41.0	4.6	9.3	0.0382	4.6	300.5	2.29	4.25
KWHN	1650	1174	253.9	43.2	4.3	8.8	0.0355	4.3	319.9	2.27	4.82 - 50%
KCNZ	1650	1711	230.7	46.9	1.0	4.1	0.0168	1.0	435.1	1.46	5.04 - 25%
NEW	1650	2148	253.8	46.1	0.0	1.5	0.0112	0.0	306.1	0.68	
WHKT	1650	2812	267.4	45.7	0.0	0.0	0.0066	0.0	314.6	0.41	
KRZI	1660	872	274.9	41.1	7.4	13.3	0.0574	7.4	308.2	0.35	
KDIA -E	1640	1605	111.4	42.8	1.5	4.8	0.0211	1.5	332.7	0.14	
KDIA -P	1640	1619	111.2	42.8	1.4	4.7	0.0208	1.4	330.1	0.14	

To WHKT 1650 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
NEW	1650	769	108.6	49.4	8.9	15.5	0.0615	8.9	300.7	3.70	3.70 - 50%
CNEW	1650	811	161.0	51.6	8.2	14.6	0.0527	8.2	158.2	1.67	4.06
KCNZ	1650	1515	108.9	50.9	2.0	5.5	0.0177	2.0	433.8	1.54	4.34
KWHN	1650	1640	78.7	47.3	1.3	4.6	0.0179	1.3	321.4	1.15	4.49 - 25%
WFNA	1660	446	65.9	47.4	16.9	27.1	0.1365	16.9	287.1	0.78	
WWRU	1660	486	203.9	50.2	15.4	25.1	0.1174	15.4	265.2	0.62	
KBJD	1650	2514	88.4	49.7	0.0	0.0	0.0067	0.0	347.6	0.46	
KDIA -E	1640	4018	77.5	49.4	0.0	0.0	0.0023	0.0	333.0	0.02	
KDIA -P	1640	4032	77.4	49.4	0.0	0.0	0.0023	0.0	328.3	0.01	

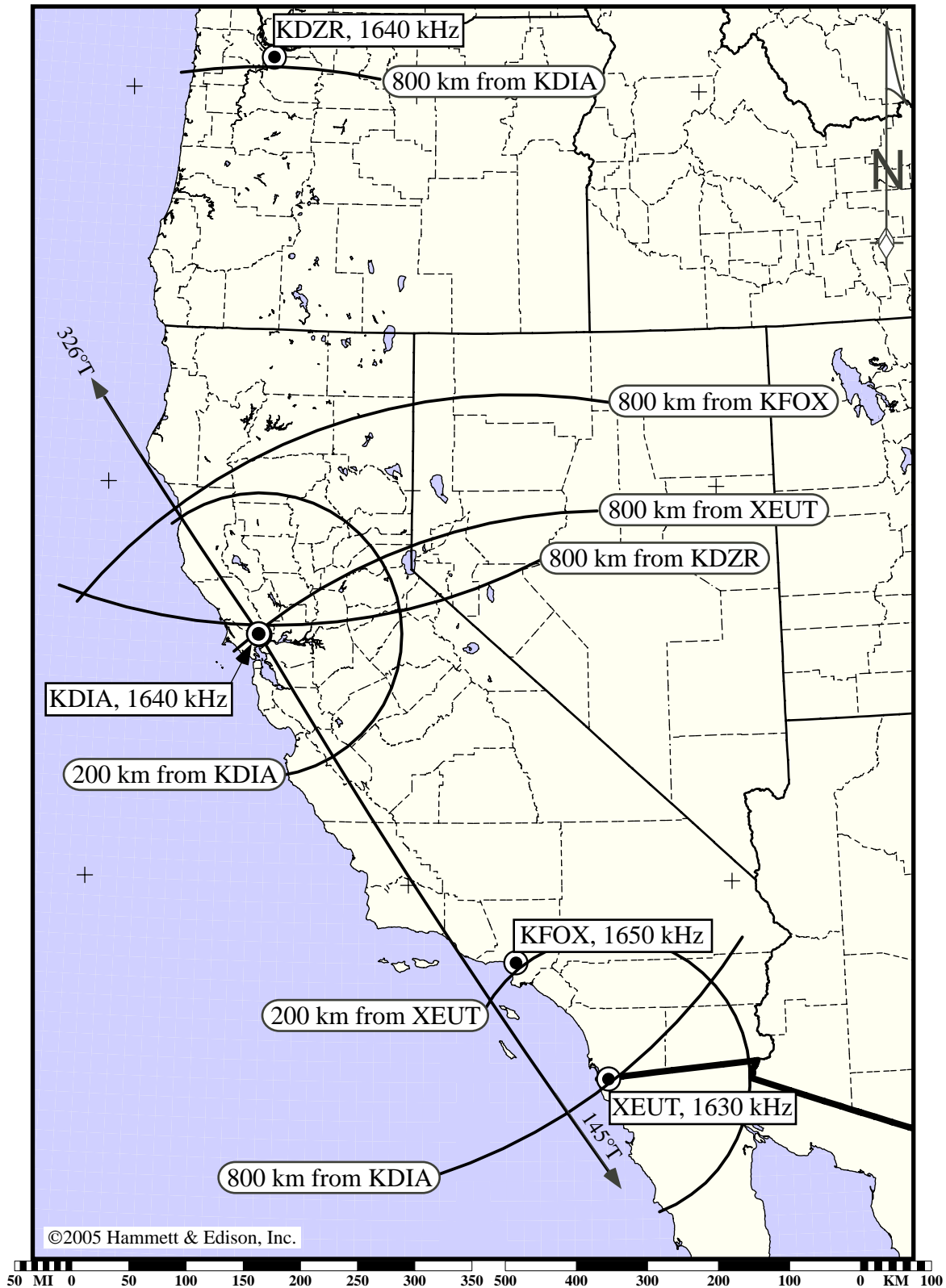
To NEW 1650 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KCNZ	1650	753	114.7	51.6	9.1	15.9	0.0594	9.1	399.3	4.75	4.75
WHKT	1650	769	293.7	49.4	8.9	15.5	0.0615	8.9	307.9	3.79	6.07 - 50%
KWHN	1650	989	60.1	48.0	6.0	11.3	0.0425	6.0	318.4	2.71	6.65
CNEW	1650	658	223.2	52.7	10.9	18.5	0.0709	10.9	156.8	2.23	7.01 - 25%
WQSN	1660	339	163.8	51.7	22.2	34.4	0.1782	22.2	279.3	1.00	
KBJD	1650	1754	85.2	50.1	0.7	3.8	0.0138	0.7	347.5	0.96	
KHRO	1650	2148	60.9	46.1	0.0	1.5	0.0112	0.0	308.9	0.69	
KDIA -E	1640	3256	75.7	49.3	0.0	0.0	0.0038	0.0	333.0	0.03	
KDIA -P	1640	3270	75.7	49.4	0.0	0.0	0.0038	0.0	327.1	0.02	



Radio Station KDIA • 1640 kHz, Class B • Vallejo, California

Nighttime Allocation Study
Preclusion of Future Co-Channel and First-Adjacent Stations

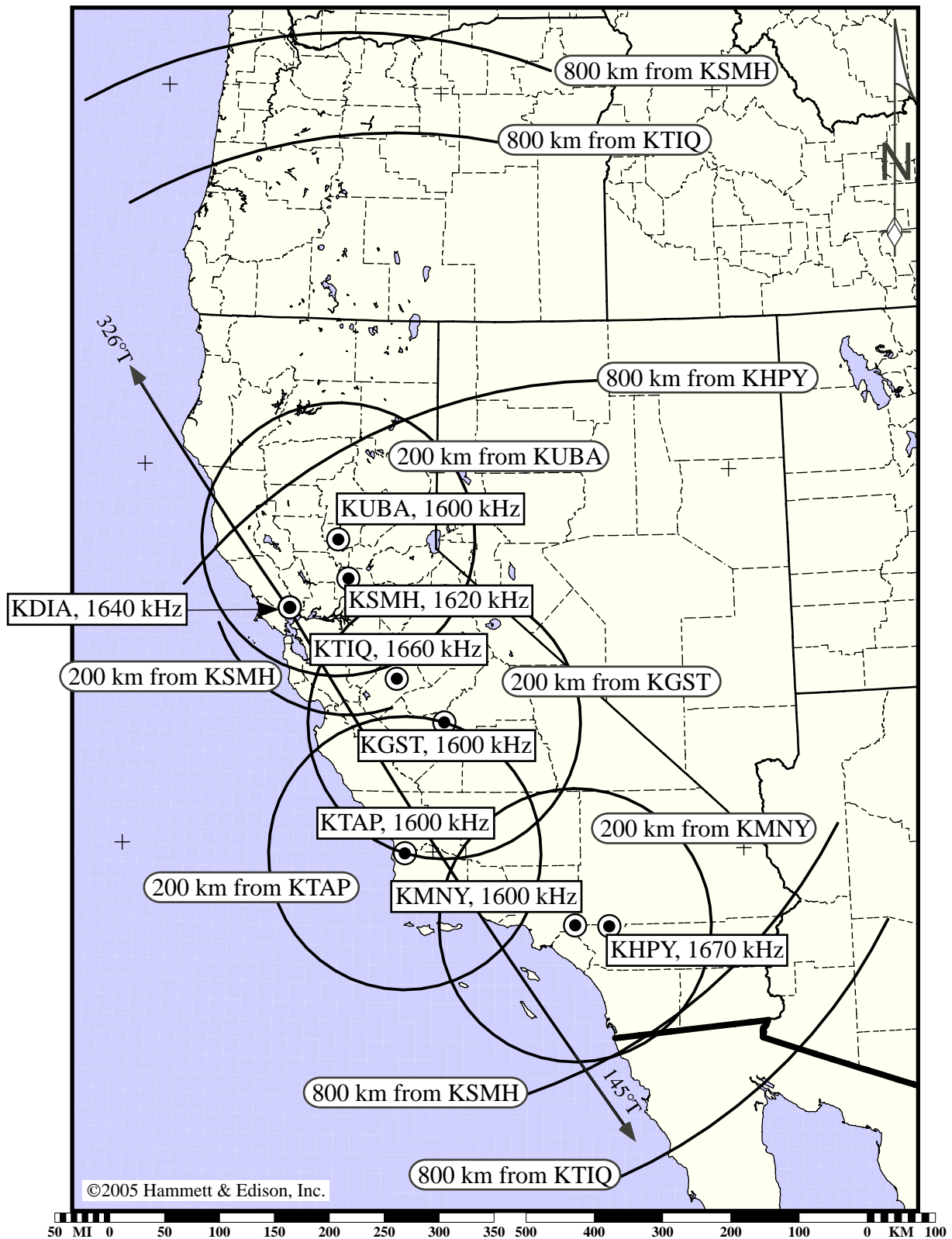


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Radio Station KDIA • 1640 kHz, Class B • Vallejo, California

Nighttime Allocation Study
Preclusion of Future Second-Adjacent and Third-Adjacent Stations



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