

KHANNA & GULL, Inc. – CONSULTING ENGINEERS
Radio – Television

NIGHTTIME ALLOCATION STUDIES
KGDP, OILDALE, CALIFORNIA
660 kHz – 2.5 kW N/2.5 kW D – DA-2

*Exhibit 16 - Form 301, Section III-A AM Engineering
Technical Specifications*

Engineering Exhibit of KGDP, Oildale, California

NIGHTTIME RSS LIMITS TO PERTINENT STATIONS
FROM THE PROPOSED 2.5 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
OCTOBER 2004

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Night Allocation Protection Report

Call: NEWKGDP

Freq: 660 kHz

OILDALE, CA, US

Lat: 35-27-11 N

Lng: 118-56-35 W

Power: 2.5 kW

Theo RMS: 488.95 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	80.0	0	0	0.0	0.0	0.0	0.0
2	0.952	-132.9	90.0	198.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.269	79.3	120.0	141.0	80.0	0	0	0.0	0.0	0.0	0.0
4	1.006	-36.5	162.6	174.0	80.0	0	0	0.0	0.0	0.0	0.0

Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KFAR (0)	US	AK	FAIRBANKS	346.27	0.00	0.00	0.43	0.10	1171.96S	120.29	1051.67
KFAR (5)	US	AK	FAIRBANKS	347.01	0.00	0.00	0.44	0.10	1131.71S	128.17	1003.54
KFAR (10)	US	AK	FAIRBANKS	347.70	0.00	0.00	0.46	0.10	1081.55S	135.75	945.80
KFAR (15)	US	AK	FAIRBANKS	348.34	0.00	0.00	0.49	0.10	1023.40S	142.88	880.52
KFAR (20)	US	AK	FAIRBANKS	348.93	0.00	0.00	0.52	0.10	959.43S	149.48	809.94
KFAR (25)	US	AK	FAIRBANKS	347.06	0.00	0.00	0.70	0.16	1131.72s	128.75	1002.96
KFAR (30)	US	AK	FAIRBANKS	346.39	0.00	0.00	0.81	0.19	1205.12s	121.54	1083.58
KFAR (35)	US	AK	FAIRBANKS	345.81	0.00	0.00	0.90	0.23	1269.14s	115.48	1153.66
KFAR (40)	US	AK	FAIRBANKS	345.31	0.00	0.00	0.98	0.26	1321.35s	110.39	1210.96
KFAR (45)	US	AK	FAIRBANKS	344.90	0.00	0.00	1.05	0.28	1354.37s	106.27	1248.10
KFAR (50)	US	AK	FAIRBANKS	344.54	0.00	0.00	1.11	0.31	1372.58s	102.80	1269.77
KFAR (55)	US	AK	FAIRBANKS	344.21	0.00	0.00	1.17	0.32	1377.20s	99.79	1277.41

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Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KFAR (60)	US	AK	FAIRBANKS	343.91	0.00	0.00	1.23	0.34	1370.52s	97.11	1273.41
KFAR (65)	US	AK	FAIRBANKS	343.64	0.00	0.00	1.29	0.35	1354.38s	94.68	1259.70
KFAR (70)	US	AK	FAIRBANKS	343.37	0.00	0.00	1.34	0.36	1332.06s	92.45	1239.61
KFAR (75)	US	AK	FAIRBANKS	343.11	0.00	0.00	1.39	0.36	1300.90s	90.37	1210.52
KFAR (80)	US	AK	FAIRBANKS	342.85	0.00	0.00	1.44	0.36	1265.19s	88.42	1176.77
KFAR (85)	US	AK	FAIRBANKS	342.60	0.00	0.00	1.49	0.37	1221.66s	86.57	1135.09
KFAR (90)	US	AK	FAIRBANKS	342.34	0.00	0.00	1.55	0.36	1173.89s	84.80	1089.09
KFAR (95)	US	AK	FAIRBANKS	342.07	0.00	0.00	1.61	0.36	1118.37s	83.11	1035.26
KFAR (100)	US	AK	FAIRBANKS	341.79	0.00	0.00	1.67	0.35	1058.00s	81.49	976.51
KFAR (105)	US	AK	FAIRBANKS	341.49	0.00	0.00	1.73	0.34	990.76s	79.95	910.82
KFAR (110)	US	AK	FAIRBANKS	341.17	0.00	0.00	1.80	0.33	915.20s	78.50	836.70
KFAR (115)	US	AK	FAIRBANKS	340.81	0.00	0.00	1.89	0.31	833.75s	77.20	756.55
KFAR (120)	US	AK	FAIRBANKS	340.41	0.00	0.00	1.98	0.30	745.39s	76.12	669.27
KFAR (125)	US	AK	FAIRBANKS	339.94	0.00	0.00	2.09	0.27	651.03s	75.43	575.60
KFAR (130)	US	AK	FAIRBANKS	339.38	0.00	0.00	2.22	0.25	552.86s	75.43	477.43
KFAR (135)	US	AK	FAIRBANKS	338.78	0.00	0.00	3.34	0.10	149.75S	76.42	73.33
KFAR (140)	US	AK	FAIRBANKS	337.69	0.00	0.00	2.88	0.14	248.52s	80.81	167.71
KFAR (145)	US	AK	FAIRBANKS	336.13	0.00	0.00	3.44	0.10	164.40E	92.08	72.31
KFAR (150)	US	AK	FAIRBANKS	334.84	0.00	0.00	3.45	0.10	172.15E	104.71	67.45
KFAR (155)	US	AK	FAIRBANKS	333.61	0.00	0.00	3.43	0.10	179.70E	118.85	60.85
KFAR (160)	US	AK	FAIRBANKS	332.44	0.00	0.00	3.39	0.10	186.93E	133.57	53.37
KFAR (165)	US	AK	FAIRBANKS	331.35	0.00	0.00	3.33	0.10	193.75E	148.17	45.58
KFAR (170)	US	AK	FAIRBANKS	330.35	0.00	0.00	3.25	0.10	200.08E	162.16	37.92
KFAR (175)	US	AK	FAIRBANKS	329.44	0.00	0.00	3.15	0.10	205.85E	175.19	30.66
KFAR (180)	US	AK	FAIRBANKS	328.64	0.00	0.00	3.03	0.10	211.01E	186.98	24.03
KFAR (185)	US	AK	FAIRBANKS	327.94	0.00	0.00	2.91	0.10	215.54E	197.37	18.17
KFAR (190)	US	AK	FAIRBANKS	327.36	0.00	0.00	2.78	0.10	219.40E	206.23	13.17
KFAR (195)	US	AK	FAIRBANKS	326.88	0.00	0.00	2.65	0.10	222.59E	213.49	9.10
KFAR (200)	US	AK	FAIRBANKS	326.52	0.00	0.00	2.51	0.10	225.12E	219.14	5.99
KFAR (205)	US	AK	FAIRBANKS	326.26	0.00	0.00	2.37	0.10	227.00E	223.16	3.84
KFAR (210)	US	AK	FAIRBANKS	326.10	0.00	0.00	2.23	0.10	228.24E	225.58	2.66
KFAR (215)	US	AK	FAIRBANKS	326.04	0.00	0.00	2.10	0.10	238.40S	226.46	11.94

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Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KFAR (220)	US	AK	FAIRBANKS	326.08	0.00	0.00	1.97	0.10	254.44S	225.85	28.58
KFAR (225)	US	AK	FAIRBANKS	326.21	0.00	0.00	1.84	0.10	272.17S	223.84	48.33
KFAR (230)	US	AK	FAIRBANKS	326.43	0.00	0.00	1.71	0.10	291.75S	220.50	71.25
KFAR (235)	US	AK	FAIRBANKS	326.73	0.00	0.00	1.60	0.10	313.34S	215.92	97.42
KFAR (240)	US	AK	FAIRBANKS	327.10	0.00	0.00	1.48	0.10	337.11S	210.21	126.90
KFAR (245)	US	AK	FAIRBANKS	327.55	0.00	0.00	1.38	0.10	363.24S	203.45	159.79
KFAR (250)	US	AK	FAIRBANKS	328.06	0.00	0.00	1.28	0.10	391.92S	195.77	196.16
KFAR (255)	US	AK	FAIRBANKS	328.63	0.00	0.00	1.18	0.10	423.35S	187.26	236.09
KFAR (260)	US	AK	FAIRBANKS	329.26	0.00	0.00	1.09	0.10	457.71S	178.04	279.67
KFAR (265)	US	AK	FAIRBANKS	329.93	0.00	0.00	1.01	0.10	495.16S	168.24	326.92
KFAR (270)	US	AK	FAIRBANKS	330.66	0.00	0.00	0.93	0.10	535.83S	157.97	377.85
KFAR (275)	US	AK	FAIRBANKS	331.42	0.00	0.00	0.86	0.10	579.79S	147.40	432.39
KFAR (280)	US	AK	FAIRBANKS	332.22	0.00	0.00	0.80	0.10	627.03S	136.66	490.36
KFAR (285)	US	AK	FAIRBANKS	333.05	0.00	0.00	0.74	0.10	677.43S	125.95	551.48
KFAR (290)	US	AK	FAIRBANKS	333.91	0.00	0.00	0.68	0.10	730.72S	115.47	615.24
KFAR (295)	US	AK	FAIRBANKS	334.79	0.00	0.00	0.64	0.10	786.45S	105.49	680.97
KFAR (300)	US	AK	FAIRBANKS	335.68	0.00	0.00	0.59	0.10	843.97S	96.30	747.67
KFAR (305)	US	AK	FAIRBANKS	336.60	0.00	0.00	0.55	0.10	902.36S	88.29	814.07
KFAR (310)	US	AK	FAIRBANKS	337.52	0.00	0.00	0.52	0.10	960.45S	81.88	878.57
KFAR (315)	US	AK	FAIRBANKS	338.44	0.00	0.00	0.49	0.10	1016.81S	77.49	939.33
KFAR (320)	US	AK	FAIRBANKS	339.37	0.00	0.00	0.47	0.10	1069.80S	75.45	994.35
KFAR (325)	US	AK	FAIRBANKS	340.29	0.00	0.00	0.45	0.10	1117.59S	75.87	1041.71
KFAR (330)	US	AK	FAIRBANKS	341.20	0.00	0.00	0.43	0.10	1158.27S	78.61	1079.66
KFAR (335)	US	AK	FAIRBANKS	342.10	0.00	0.00	0.42	0.10	1190.01S	83.28	1106.74
KFAR (340)	US	AK	FAIRBANKS	342.99	0.00	0.00	0.41	0.10	1211.17S	89.40	1121.77
KFAR (345)	US	AK	FAIRBANKS	343.85	0.00	0.00	0.41	0.10	1220.45S	96.52	1123.93
KFAR (350)	US	AK	FAIRBANKS	344.69	0.00	0.00	0.41	0.10	1217.04S	104.24	1112.80
KFAR (355)	US	AK	FAIRBANKS	345.50	0.00	0.00	0.42	0.10	1200.74S	112.25	1088.50

KTNN US AZ WINDOW ROCK 83.97 7.23 13.09 54.98 0.74 67.25 55.36 11.89
50% = 2.474, 25% = 2.958; WFAN=2.15 XEEY/A=1.22 KLT=1.14 KAPS=0.84 CFFR/A=0.79

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KIRN	US CA SIMI VALLEY	170.59	48.12	61.58	369.93	2.13	287.69	163.88	123.81
50% = 7.214, 25% = 8.514; KNBR=6.20 KTNN=3.68 KLTT=3.26 WSCR=3.14									
KIRNcp	US CA SIMI VALLEY	144.97	53.93	66.26	395.88	2.20	277.46	113.94	163.51
50% = 7.399, 25% = 8.787; KNBR=6.24 KTNN=3.98 KLTT=3.46 WSCR=3.23									
KEYZ	US ND WILLISTON	36.78	0.06	2.90	11.95	1.55	648.12	386.57	261.55
50% = 5.449, 25% = 6.197; KTNN=5.45 WBHR=2.18 WFAN=1.99									
KSTE	US CA RANCHO CORDOVA	329.06	19.12	30.27	160.80	1.64	509.94	209.70	300.24
50% = 5.548, 25% = 6.56; KFI=4.79 WSM=2.80 KTNN=2.51 KMTI=1.79 CISL/A=1.66									
KAPS	US WA MOUNT VERNON	350.09	2.28	5.91	21.03	2.26	536.88	161.65	375.23
50% = 8.283, 25% = 9.031; KTNN=8.28 CFFR/A=2.62 KBOI=2.47									
WFAN (180)	US NY NEW YORK	68.08	0.00	0.00	2.24	11.52	25681.20g	153.54	25527.67
WFAN (185)	US NY NEW YORK	69.09	0.00	0.00	2.31	9.34	20246.74g	145.24	20101.50
WFAN (190)	US NY NEW YORK	69.70	0.00	0.00	2.36	7.75	16405.55g	140.35	16265.21
WFAN (195)	US NY NEW YORK	77.57	0.00	0.00	2.92	0.78	1327.61s	85.21	1242.40
WFAN (200)	US NY NEW YORK	78.88	0.00	0.00	3.13	0.67	1068.29s	78.13	990.16
WFAN (205)	US NY NEW YORK	79.51	0.00	0.00	3.31	0.61	928.11s	74.98	853.14
WFAN (210)	US NY NEW YORK	81.10	0.00	0.00	3.61	0.51	710.34s	67.95	642.39
WFAN (215)	US NY NEW YORK	80.96	0.00	0.00	3.80	0.50	658.36s	68.50	589.86
WFAN (220)	US NY NEW YORK	80.39	0.00	0.00	3.95	0.50	633.38s	70.92	562.46
WFAN (225)	US NY NEW YORK	79.70	0.00	0.00	4.09	0.50	611.63s	74.12	537.51
WFAN (230)	US NY NEW YORK	78.87	0.00	0.00	4.21	0.50	593.17s	78.22	514.95
WFAN (235)	US NY NEW YORK	77.92	0.00	0.00	4.32	0.50	578.04s	83.29	494.75
WFAN (240)	US NY NEW YORK	76.86	0.00	0.00	4.41	0.50	566.51s	89.44	477.07
WFAN (245)	US NY NEW YORK	75.70	0.00	0.00	4.48	0.50	558.29s	96.62	461.67
WFAN (250)	US NY NEW YORK	74.46	0.00	0.00	4.51	0.50	553.85s	104.85	448.99
WFAN (255)	US NY NEW YORK	73.16	0.00	0.00	4.52	0.50	552.86s	113.99	438.88
WFAN (260)	US NY NEW YORK	71.81	0.00	0.00	4.50	0.50	555.85s	123.94	431.92

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WFAN (265)	US NY NEW YORK	70.45	0.00	0.00	4.44	0.50	562.72S	134.49	428.23
WFAN (270)	US NY NEW YORK	69.08	0.00	0.00	4.36	0.50	573.57S	145.43	428.14
WFAN (275)	US NY NEW YORK	67.73	0.00	0.00	4.25	0.50	588.53S	156.53	432.00
WFAN (280)	US NY NEW YORK	66.43	0.00	0.00	4.11	0.50	607.72S	167.56	440.16
WFAN (285)	US NY NEW YORK	65.61	0.00	0.00	3.57	0.65	916.11s	174.55	741.56
WFAN (290)	US NY NEW YORK	63.98	0.00	0.00	3.79	0.50	659.08S	188.66	470.42
WFAN (295)	US NY NEW YORK	62.87	0.00	0.00	3.61	0.50	691.72S	198.39	493.34
WFAN (300)	US NY NEW YORK	64.08	0.00	0.00	2.90	0.93	1594.97s	187.80	1407.17
WFAN (305)	US NY NEW YORK	63.02	0.00	0.00	2.88	0.82	1425.52s	197.05	1228.47
WFAN (310)	US NY NEW YORK	62.73	0.00	0.00	2.73	0.88	1615.20s	199.58	1415.62
WFAN (315)	US NY NEW YORK	62.73	0.00	0.00	2.58	0.98	1899.17s	199.57	1699.61
WFAN (320)	US NY NEW YORK	62.73	0.00	0.00	2.47	1.06	2148.04s	199.57	1948.47
WFAN (325)	US NY NEW YORK	62.43	0.00	0.00	2.39	1.07	2241.84s	202.19	2039.65
WFAN (330)	US NY NEW YORK	61.87	0.00	0.00	2.31	1.02	2212.72s	207.12	2005.60
WFAN (335)	US NY NEW YORK	61.48	0.00	0.00	2.23	1.00	2243.74s	210.59	2033.15
WFAN (340)	US NY NEW YORK	61.04	0.00	0.00	2.15	0.96	2247.98s	214.49	2033.49
WFAN (345)	US NY NEW YORK	60.56	0.00	0.00	2.06	0.92	2230.98s	218.72	2012.26
WFAN (350)	US NY NEW YORK	60.26	0.00	0.00	1.98	0.89	2263.26s	221.30	2041.95
KSKY	US TX BALCH SPRINGS	91.22	0.00	2.10	13.60	1.52	558.83	53.05	505.78
50% = 5.019, 25% = 6.08; WFAN=5.02 WSM=2.49 XEEY/A=1.76 XEDTL/A=1.58									
KSXX	US NV LAS VEGAS	71.31	22.17	34.33	189.02	2.73	722.46	90.55	631.91
50% = 9.738, 25% = 10.925; KTNN=6.80 KLTT=5.33 KNBR=4.49 WSCR=4.01 KIRN=2.90									
NEW	US NV LAS VEGAS	73.90	21.61	33.59	183.89	2.77	752.73	76.74	675.99
50% = 8.856, 25% = 11.073; KTNN=7.01 KLTT=5.41 KNBR=4.35 WSCR=4.05 KIRN=2.98									
WBHR	US MN SAUK RAPIDS	53.94	0.00	0.42	7.61	1.65	1080.70	275.45	805.24
50% = 6.58, 25% = 6.58; WFAN=5.58 WSCR=3.49									

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WBHR	US MN SAUK RAPIDS	53.94	0.00	0.42	7.61	1.65	1080.70	275.45	805.24
	50% = 6.58, 25% = 6.58; WFAN=5.58 WSCR=3.49								
KBOI	US ID BOISE	13.39	6.88	12.58	50.07	1.32	1314.29	361.00	953.29
	50% = 5.096, 25% = 5.264; WSCR=3.45 KNBR=2.94 KTNN=2.34 KLTT=1.32								
CFFR/A	CA AB CALGARY	11.47	2.32	2.32	16.05	5.20	1621.16	359.04	1262.12
	50% = 10.405, 25% = 10.967; KTNN=8.44 KAPS=6.09 KEYZ=3.47								
XESJC/A	MX BS SAN JOSE DEL CA	144.43	2.95	2.95	19.60	7.07	1802.17	157.78	1644.39
	50% = 14.131, 25% = 15.0; KTNN=14.13 XEEY/A=5.03								