

KG6XDP TX Log for Field Intensity Measurements from SFTA TX Site, at 9042 W. Jackman, Lancaster, CA 93536: Transmitter Readings Each Day for operations on 1690 kHz 1 kW. September 2004 (Read call sign every 15-min.)

#	Day	Date 2004	Time TX Read	Time Call ID	Final Voltage E _{ac}	Bridge Current I _{ac}	Antenna Current I _{ap}	Antenna Resistance R Ω	Antenna Reactance X Raw Ω	Antenna Reactance X _f Ω	Calculated Power Out Watts
1	Fr.	9-29	0710	0710	4.18	5.0	4.0	-140	-123.7	1K	1K
2	Fr.	9-29	0713	0714	4.19	4.98				1K	1K
3			0718	0730	4.2	4.99				1K	1K
4			0743	0744	4.21	4.99				1K	1K
5			0758	0759	4.22	5.0				1K	1K
6			0813	0814	4.23	5.0				1K	1K
7			0828	0829	4.22	5.0				1K	1K
8			0843	0844	4.22	4.99				1K	1K
9			0858	0859	4.24	4.98				1K	1K
10			0913	0914	4.25	4.99				1K	1K
11			0928	0929	4.25	5.0				1K	1K
12			1003	1004	4.25	5.0				1K	1K
13			1018	1019	4.25	5.0				1K	1K
14			1033	1034	4.26	5.0				1K	1K
15			1048	1049	4.28	5.0				1K	1K
16			1103	1104	4.28	4.99				1K	1K
17			1118	1119	4.28	5.0				1K	1K
18			1133	1134	4.28	5.0				1K	1K
19			1148	1149	4.3	5.01				1K	1K
20			1203	1204	4.29	5.01				1K	1K
21			1218	1219	4.29	5.02				1K	1K
22			1233	1234	4.29	5.02				1K	1K
23			1248	1249	4.28	5.01				1K	1K
24			1303	1304	4.28	5.01				1K	1K
25			1318	1319	4.29	5.01				1K	1K
26			1333	1334	4.29	5.01				1K	1K
27			1348	1349	4.28	5.0				1K	1K
28			1403	1404	4.28	5.0				1K	1K
29			1418	1419	4.28	5.0				1K	1K
30			1433	1434	4.28	5.0				1K	1K
31			1448	1449	4.29	5.0				1K	1K
32			1459	1459	4.28	5.0				1K	1K
33			1506	1516	4.28	5.0				1K	1K
34			1532	1532	4.28	5.0				1K	1K
35			1552	1549	4.28	5.0				1K	1K
36			1554	1600	4.29	5.0				1K	1K

- NOTE: 1. Measure each 1/2 hour
2. Broadcast call (KG6XDP) each 15-min. (make sure on-hour ± 5-min.)
3. If adjustments made, record readings both before and after adjustment

P_o - FR
P = Power (watts)
I = Antenna Current (amps)
R = Antenna Resistance (ohms-Ω)

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Operation of 2004 RLL 1 & 7. September 2004 (Read can sign every 15-min.)											
#	Day	Date 2004	Time TX Read	Time Call ID	Final Voltage E _{ac}	Bridge Current I _{ac}	Antenna Current I _{ap}	Antenna Resistance R Ω	Antenna Reactance X Raw Ω	Antenna Reactance X _f Ω	Calculated Power Out Watts
1	24	9-24	1614	1615		4.3	5.0	4.0	-140	-123.7	1K
2		9-24	1629	1630		4.23	5.0				1K
3		9-24	1644	1645		4.26	5.0				1K
4		9-24	1658	1700		4.25	5.0	4.0	540	-533.7	1K
5											
6											
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#	Day	Date 2004	Time TX Read	Time Call ID	Final Voltage E _{ac}	Bridge Current I _{ac}	Antenna Current I _{ap}	Antenna Resistance R Ω	Antenna Reactance X _{raw} Ω	Antenna Reactance X _f Ω	Calculated Power Out Watts
1	28	9-25	0701	0700		4.25	5.1				
2			0704			4.20	5.0	40	-140	-123.7	1K
3			0714	0715		4.20	5.0	40	-140	-123.7	1K
4			0729	0730		4.20	5.0				
5			0744	0745		4.24	5.0				
6			0759	0800		4.25	5.0				
7			0814	0815		4.25	5.0				
8			0829	0830		4.25	5.0				
9			0844	0845	0844	0	0				
10			0846	0846		4.2	4.9				
11			0847	0847		4.25	5.0				
12			0901	0900		4.25	4.9				
13			0914	0915		4.30	5.0				
14			0929	0930		4.30	5.0				
15			0944	0945	0944	4.30	5.0				
16			0959	1000	0959	4.30	5.0				
17			1016	1015	1016	4.30	5.01				
18			1028	1028	1028	4.30	5.0				
19			1044	1045	1045	4.25	5.0				
20			1058	1100	1100	4.25	5.0				
21			1114	1115	1115	4.25	5.0				
22			1129	1130	1130	4.25	5.0				
23			1144	1145	1145	4.25	5.0				
24			1159	1200	1200	4.25	5.0				
25			1214	1215	1215	4.25	5.0				
26			1229	1230	1230	4.25	5.0				
27			1244	1245	1245	4.25	5.0				
28			1259	1300	1300	4.25	5.0				
29			1314	1315	1315	4.25	5.0				
30			1329	1330	1330	4.25	5.0				
31			1344	1345	1345	4.25	5.0				
32			1359	1400	1400	4.25	5.0				
33			1414	1415	1415	4.25	5.0				
34			1429	1430	1430	4.25	5.0				
35			1444	1445	1445	4.3	5.01	43	-140	-123.7	1K

- NOTE: 1. Measure each 1/2 hour
2. Broadcast call (KG6XDP) each 15-min. (make sure on-hour ± 5-min.)
3. If adjustments made, record readings both before and after adjustment

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#	Day	Date 2004	Time TX Read	Time Call ID	Final Voltage E _{ac}	Bridge Current I _{ac}	Antenna Current I _{ap}	Antenna Resistance R Ω	Antenna Reactance X Raw Ω	Antenna Reactance X _f Ω	Calculated Power Out Watts
1	Sat	9-25	1559	1500		4.3	5.0	40	-j44	-j23.7	1K
2		9-25	1514	1515	1520-1530 1530-1540 1540-1550 1550-1560 1560-1570 1570-1580 1580-1590 1590-1600	4.3	5.0				
3		9-25	1529	1530		4.3	5.0				
4		9-25	1544	1545		4.3	5.0				
5											
6		9-25	1559	1600		4.3	5.0				
7		9-25	1614	1615		4.3	5.0				
8		9-25	1629	1630		4.3	5.0	✓	✓	✓	✓
9		9-25	1644	1645		4.3	5.01	✓	✓	✓	✓
10		9-25	1659	1700	1600-1610	4.3	5.01	40	-j44	-j23.7	1K
11		9-25	1701			0	0				
12											
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# Day	Date 2004	Time TX Read	Time Call ID	Final Voltage E _{st}	Bridge Current I _{st}	Antenna Current I _{ap}	Antenna Resistance R _Ω	Antenna Reactance X _{Raw} Ω	Antenna Reactance X _f Ω	Calculated Power Out Watts
1	Mon 9-26	07:20	0720	4.2	5.0	4.0	-14.0	-123.7	1K	1K
2		07:23	0723	4.2	5.0	4.0	-14.0	-123.7	1K	1K
3		07:26	0726	4.2	5.0	4.0	-14.0	-123.7	1K	1K
4		07:29	0729	4.2	5.0	4.0	-14.0	-123.7	1K	1K
5		07:32	0732	4.2	5.0	4.0	-14.0	-123.7	1K	1K
6		07:35	0735	4.2	5.0	4.0	-14.0	-123.7	1K	1K
7		07:38	0738	4.2	5.0	4.0	-14.0	-123.7	1K	1K
8		07:41	0741	4.2	5.0	4.0	-14.0	-123.7	1K	1K
9		07:44	0744	4.2	5.0	4.0	-14.0	-123.7	1K	1K
10		07:47	0747	4.2	5.0	4.0	-14.0	-123.7	1K	1K
11		07:50	0750	4.2	5.0	4.0	-14.0	-123.7	1K	1K
12		07:53	0753	4.2	5.0	4.0	-14.0	-123.7	1K	1K
13		07:56	0756	4.2	5.0	4.0	-14.0	-123.7	1K	1K
14		07:59	0759	4.2	5.0	4.0	-14.0	-123.7	1K	1K
15		08:02	0802	4.2	5.0	4.0	-14.0	-123.7	1K	1K
16		08:05	0805	4.2	5.0	4.0	-14.0	-123.7	1K	1K
17		08:08	0808	4.2	5.0	4.0	-14.0	-123.7	1K	1K
18		08:11	0811	4.2	5.0	4.0	-14.0	-123.7	1K	1K
19		08:14	0814	4.2	5.0	4.0	-14.0	-123.7	1K	1K
20		08:17	0817	4.2	5.0	4.0	-14.0	-123.7	1K	1K
21		08:20	0820	4.2	5.0	4.0	-14.0	-123.7	1K	1K
22		08:23	0823	4.2	5.0	4.0	-14.0	-123.7	1K	1K
23		08:26	0826	4.2	5.0	4.0	-14.0	-123.7	1K	1K
24		08:29	0829	4.2	5.0	4.0	-14.0	-123.7	1K	1K
25		08:32	0832	4.2	5.0	4.0	-14.0	-123.7	1K	1K
26		08:35	0835	4.2	5.0	4.0	-14.0	-123.7	1K	1K
27		08:38	0838	4.2	5.0	4.0	-14.0	-123.7	1K	1K
28		08:41	0841	4.2	5.0	4.0	-14.0	-123.7	1K	1K
29		08:44	0844	4.2	5.0	4.0	-14.0	-123.7	1K	1K
30		08:47	0847	4.2	5.0	4.0	-14.0	-123.7	1K	1K
31		08:50	0850	4.2	5.0	4.0	-14.0	-123.7	1K	1K
32		08:53	0853	4.2	5.0	4.0	-14.0	-123.7	1K	1K
33		08:56	0856	4.2	5.0	4.0	-14.0	-123.7	1K	1K
34		08:59	0859	4.2	5.0	4.0	-14.0	-123.7	1K	1K
35		09:02	0902	4.2	5.0	4.0	-14.0	-123.7	1K	1K
36	Sum	9-26	15:58	4.2	5.0	4.0	-14.0	-123.7	1K	1K

- NOTE: 1. Measure each ¼ hour
2. Broadcast call (KG6XDP) each 15-min. (make sure on-hour ± 5-min.)
3. If adjustments made, record readings both before and after adjustment

P_o = FR
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1	Mon 9-26	16:28	1628	4.2	5.0	4.0	-14.0	-123.7	1K	1K
2		16:31	1631	4.2	5.0	4.0	-14.0	-123.7	1K	1K
3	Mon 9-26	16:34	1634	4.2	5.0	4.0	-14.0	-123.7	1K	1K
4		16:37	1637	4.2	5.0	4.0	-14.0	-123.7	1K	1K
5	Mon 9-26	16:40	1640	4.2	5.0	4.0	-14.0	-123.7	1K	1K
6		16:43	1643	4.2	5.0	4.0	-14.0	-123.7	1K	1K
7	Mon 9-26	16:46	1646	4.2	5.0	4.0	-14.0	-123.7	1K	1K
8		16:49	1649	4.2	5.0	4.0	-14.0	-123.7	1K	1K
9		16:52	1652	4.2	5.0	4.0	-14.0	-123.7	1K	1K
10		16:55	1655	4.2	5.0	4.0	-14.0	-123.7	1K	1K
11		16:58	1658	4.2	5.0	4.0	-14.0	-123.7	1K	1K
12		17:01	1701	4.2	5.0	4.0	-14.0	-123.7	1K	1K
13		17:04	1704	4.2	5.0	4.0	-14.0	-123.7	1K	1K
14		17:07	1707	4.2	5.0	4.0	-14.0	-123.7	1K	1K
15		17:10	1710	4.2	5.0	4.0	-14.0	-123.7	1K	1K
16		17:13	1713	4.2	5.0	4.0	-14.0	-123.7	1K	1K
17		17:16	1716	4.2	5.0	4.0	-14.0	-123.7	1K	1K
18		17:19	1719	4.2	5.0	4.0	-14.0	-123.7	1K	1K
19		17:22	1722	4.2	5.0	4.0	-14.0	-123.7	1K	1K
20		17:25	1725	4.2	5.0	4.0	-14.0	-123.7	1K	1K
21		17:28	1728	4.2	5.0	4.0	-14.0	-123.7	1K	1K
22		17:31	1731	4.2	5.0	4.0	-14.0	-123.7	1K	1K
23		17:34	1734	4.2	5.0	4.0	-14.0	-123.7	1K	1K
24		17:37	1737	4.2	5.0	4.0	-14.0	-123.7	1K	1K
25		17:40	1740	4.2	5.0	4.0	-14.0	-123.7	1K	1K
26		17:43	1743	4.2	5.0	4.0	-14.0	-123.7	1K	1K
27		17:46	1746	4.2	5.0	4.0	-14.0	-123.7	1K	1K
28		17:49	1749	4.2	5.0	4.0	-14.0	-123.7	1K	1K
29		17:52	1752	4.2	5.0	4.0	-14.0	-123.7	1K	1K
30		17:55	1755	4.2	5.0	4.0	-14.0	-123.7	1K	1K
31		17:58	1758	4.2	5.0	4.0	-14.0	-123.7	1K	1K
32		18:01	1801	4.2	5.0	4.0	-14.0	-123.7	1K	1K
33		18:04	1804	4.2	5.0	4.0	-14.0	-123.7	1K	1K
34		18:07	1807	4.2	5.0	4.0	-14.0	-123.7	1K	1K
35		18:10	1810	4.2	5.0	4.0	-14.0	-123.7	1K	1K
36	Sum	9-26	16:59	4.2	5.0	4.0	-14.0	-123.7	1K	1K

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1	Mon 9-27	07:20	0720	4.2	5.0	4.0	-14.0	-123.7	1K	1K
2		07:23	0723	4.2	5.0	4.0	-14.0	-123.7	1K	1K
3		07:26	0726	4.2	5.0	4.0	-14.0	-123.7	1K	1K
4		07:29	0729	4.2	5.0	4.0	-14.0	-123.7	1K	1K
5		07:32	0732	4.2	5.0	4.0	-14.0	-123.7	1K	1K
6		07:35	0735	4.2	5.0	4.0	-14.0	-123.7	1K	1K
7		07:38	0738	4.2	5.0	4.0	-14.0	-123.7	1K	1K
8		07:41	0741	4.2	5.0	4.0	-14.0	-123.7	1K	1K
9		07:44	0744	4.2	5.0	4.0	-14.0	-123.7	1K	1K
10		07:47	0747	4.2	5.0	4.0	-14.0	-123.7	1K	1K
11		07:50	0750	4.2	5.0	4.0	-14.0	-123.7	1K	1K
12		07:53	0753	4.2	5.0	4.0	-14.0	-123.7	1K	1K
13		07:56	0756	4.2	5.0	4.0	-14.0	-123.7	1K	1K
14		07:59	0759	4.2	5.0	4.0	-14.0	-123.7	1K	1K
15		08:02	0802	4.2	5.0	4.0	-14.0	-123.7	1K	1K
16		08:05	0805	4.2	5.0	4.0	-14.0	-123.7	1K	1K
17		08:08	0808	4.2	5.0	4.0	-14.0	-123.7	1K	1K
18		08:11	0811	4.2	5.0	4.0	-14.0	-123.7	1K	1K
19		08:14	0814	4.2	5.0	4.0	-14.0	-123.7	1K	1K
20		08:17	0817	4.2	5.0	4.0	-14.0	-123.7	1K	1K
21		08:20	0820	4.2	5.0	4.0	-14.0	-123.7	1K	1K
22		08:23	0823	4.2	5.0	4.0	-14.0	-123.7	1K	1K
23		08:26	0826	4.2	5.0	4.0	-14.0	-123.7	1K	1K
24		08:29	0829	4.2	5.0	4.0	-14.0	-123.7	1K	1K
25		08:32	0832	4.2	5.0	4.0	-14.0	-123.7	1K	1K
26		08:35	0835	4.2	5.0	4.0	-14.0	-123.7	1K	1K
27		08:38	0838	4.2	5.0	4.0	-14.0	-123.7	1K	1K
28		08:41	0841	4.2	5.0	4.0	-14.0	-123.7	1K	1K
29		08:44	0844	4.2	5.0	4.0	-14.0	-123.7	1K	1K
30		08:47	0847	4.2	5.0	4.0	-14.0	-123.7	1K	1K
31		08:50	0850	4.2	5.0	4.0	-14.0	-123.7	1K	1K
32		08:53	0853	4.2	5.0	4.0	-14.0	-123.7	1K	1K
33		08:56	0856	4.2	5.0	4.0	-14.0	-123.7	1K	1K
34		08:59	0859	4.2	5.0	4.0	-14.0	-123.7	1K	1K
35		09:02	0902	4.2	5.0	4.0	-14.0	-123.7	1K	1K
36	Mon 9-27	16:17	1617	4.2	5.0	4.0	-14.0	-123.7	1K	1K

- NOTE: 1. Measure each ¼ hour
2. Broadcast call (KG6XDP) each 15-min. (make sure on-hour ± 5-min.)
3. If adjustments made, record readings both before and after adjustment

P_o = FR
P = Power (watts)
I = Antenna Current (amps)
R = Antenna Resistance (ohms-Ω)

KGDP Field Msmts. TX Read-Lancaster

gdp form 7/12/04

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Gene Goodspeed

KG6XDP TX Log for Field Intensity Measurements from SFTA TX Site, at 9042 W. Jackman, Lancaster, CA 93536: Transmitter Readings Each Day for operations on 1690 kHz 1 kW. September 2004 (Read call sign every 15-min.)

Operations on 1670 KRIZ 1 KW. September 2004 (Read call sign every 15-min.)										
# Day	Date 2004	Time TX Read	Time Call ID	Final Voltage E_{dc}	Bridge Current I_{dc}	Antenna Current I_{ap}	Antenna Resistance $R \Omega$	Antenna Reactance $X_{Raw} \Omega$	Antenna Reactance $X_f \Omega$	Calculated Power Out Watts
1	Mon	9-27	1628	1629		4.25	5.0	40	-140	-123.7 1K
2										
3	Mon	9-27	1643	1643		4.25	5.0	40	-140	-123.7 1K
4										
5	Mon	9-27	1659	1700		4.27	5.0	40	-140	-123.7 1K
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END of FIELD MEASUREMENT REPORT

Report and CD Presentation by Norwood & Dawn Patterson, Engineering Consultants

Norwood J. Patterson,

October 25, 2004