



ANNEXURE F
DTT FREQUENCY NETWORKS

ANNEXURE F: DTT FREQUENCY NETWORKS 2009

NO	TRANSMITTING STATION NAME	GEO. CO-ORDINATES		CH	FREQ		POL	STAT	CAT
		LONGITUDE	LATITUDE		MHz	ERP(kW)			
1	ALEXANDER BAY	016E29 49	28S36 32	27	522	0.1	V	SPA	DTT1
2	ALEXANDER BAY	016E29 49	28S36 32	29	538	0.1	V	SPA	DTT2
3	ALIWAL NORTH	026E34 00	30S47 05	21	474	10	H	SPA	DTT1
4	ALIWAL NORTH	026E34 00	30S47 05	25	506	10	H	SPA	DTT2
5	AMANDA GLEN	018E40 33	33S51 18	38	610	0.02	V	SPA	DTT1
6	AMANDA GLEN	018E40 33	33S51 18	50	706	0.02	V	SPA	DTT2
7	ANDRIESKRAAL	024E42 33	33S46 37	32	562	0.01	V	SPA	DTT1
8	ANDRIESKRAAL	024E42 33	33S46 37	36	594	0.01	V	SPA	DTT2
9	AURORA	018E38 29	33S49 39	38	610	0.001	V	SPA	DTT1
10	AURORA	018E38 29	33S49 39	50	706	0.001	V	SPA	DTT2
11	BARKLY EAST	027E26 00	30S51 30	27	522	0.35	V	SPA	DTT1
12	BARKLY EAST	027E26 00	30S51 30	31	554	0.35	V	SPA	DTT2
13	BEAUFORT WEST	022E30 25	32S15 29	41	634	56.1	H	SPA	DTT1
14	BEAUFORT WEST	022E30 25	32S15 29	45	666	60	H	SPA	DTT2
15	BEDFORD	026E02 57	32S37 57	21	474	10	H	SPA	DTT1
16	BEDFORD	026E02 57	32S37 57	25	506	10	H	SPA	DTT2
17	BETHLEHEM	028E29 58	28S14 10	35	586	10	H	SPA	DTT1
18	BETHLEHEM	028E29 58	28S14 10	31	554	10	H	SPA	DTT2
19	BETHLEHEM (TOWN)	028E29 58	28S14 10	35	586	0.15	V	SPA	DTT1
20	BETHLEHEM (TOWN)	028E29 58	28S14 10	31	554	0.155	V	SPA	DTT2
21	BEZVALLEY	028E 05 04	26S11 41	54	738	0.07	V	SPA	DTT1
22	BEZVALLEY	028E 05 04	26S11 41	58	770	0.07	V	SPA	DTT2
23	BLOEMFONTEIN	026E13 50	29S06 13	52	722	100	H	SPA	DTT1
24	BLOEMFONTEIN	026E13 50	29S06 13	55	746	100	H	SPA	DTT2
25	BLOUBERG	028E59 12	23S04 19	37	602	2	V	SPA	DTT1
26	BLOUBERG	028E59 12	23S04 19	41	634	2	V	SPA	DTT2
27	BOESMANSKOP	027E12 55	30S00 28	35	586	10	H	SPA	DTT1
28	BOESMANSKOP	027E12 55	30S00 28	29	538	10	H	SPA	DTT2
29	BRONKHORSPRUIT	028E43 38	25S46 13	32	562	0.2	V	SPA	DTT1
30	BRONKHORSPRUIT	028E43 38	25S46 13	34	578	0.2	V	SPA	DTT2
31	BURGERSDORP	026E20 21	31S00 02	47	682	0.1	V	SPA	DTT1
32	BURGERSDORP	026E20 21	31S00 02	51	714	0.1	V	SPA	DTT2
33	BURGERSFORT	030E19 48	24S40 05	33	570	50	H	SPA	DTT1
34	BURGERSFORT	030E19 48	24S40 05	29	538	50	H	SPA	DTT2
35	BUTTERWORTH	028E12 25	32S16 35	23	490	10	H	SPA	DTT1
36	BUTTERWORTH	028E12 25	32S16 35	27	522	10	H	SPA	DTT2
37	CALA	027E45 02	31S33 15	46	674	10	V	SPA	DTT1
38	CALA	027E45 02	31S33 15	48	690	10	V	SPA	DTT2
39	CALVINIA	019E46 57	31S23 03	24	498	10	H	SPA	DTT1
40	CALVINIA	019E46 57	31S23 03	26	514	10	H	SPA	DTT2
41	CAPE TOWN	018E23 15	34S03 15	38	610	20	V	SPA	DTT1
42	CAPE TOWN	018E23 15	34S03 15	50	706	20	V	SPA	DTT2
43	CAROLINA	030E37 57	26S10 37	64	818	10	H	SPA	DTT1
44	CAROLINA	030E37 57	26S10 37	66	834	10	H	SPA	DTT2
45	CERES	019E27 32	33S15 10	25	506	11	V	SPA	DTT1
46	CERES	019E27 32	33S15 10	33	570	11	V	SPA	DTT2
47	CHRISTIANA	024E55 50	27S53 03	56	754	1	H	SPA	DTT1
48	CHRISTIANA	024E55 50	27S53 03	60	786	1	H	SPA	DTT2

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NO	TRANSMITTING STATION NAME	GEO. CO-ORDINATES			FREQ MHz	ERP(kW)	POL	STAT	CAT
		LONGITUDE	LATITUDE	CH					
49	CLIFTON	018E22 37	33S56 30	38	610	0.01	H	SPA	DTT1
50	CLIFTON	018E22 37	33S56 30	50	706	0.01	H	SPA	DTT2
51	COLESBERG	025E03 28	30S42 30	27	522	0.5	V	SPA	DTT1
52	COLESBERG	025E03 28	30S42 30	31	554	0.5	V	SPA	DTT2
53	CRADOCK	025E32 27	32S18 01	44	658	10	H	SPA	DTT1
54	CRADOCK	025E32 27	32S18 01	35	586	10	H	SPA	DTT2
55	DAVEL	029E37 26	26S27 30	40	626	50	H	SPA	DTT1
56	DAVEL	029E37 26	26S27 30	44	658	50	H	SPA	DTT2
57	DE AAR	023E59 16	30S27 49	56	754	50	H	SPA	DTT1
58	DE AAR	023E59 16	30S27 49	60	786	50	H	SPA	DTT2
59	DEBEERSRUS	022E12 00	26S36 00	54	738	50	H	SPA	DTT1
60	DEBEERSRUS	022E12 00	26S36 00	58	770	50	H	SPA	DTT2
61	DESPATCH	025E25 29	33S45 53	45	666	0.2	V	SPA	DTT1
62	DESPATCH	025E25 29	33S45 53	28	530	0.2	V	SPA	DTT2
63	DEWETSDORP	026E39 37	29S34 44	62	812	0.01	V	SPA	DTT1
64	DEWETSDORP	026E39 37	29S34 44	66	844	0.01	V	SPA	DTT2
65	DONNYBROOK	029E51 19	29S54 56	64	818	10	H	SPA	DTT1
66	DONNYBROOK	029E51 19	29S54 56	68	850	10	H	SPA	DTT2
67	DORINGKRUIN	026E41 00	26S49 05	24	498	1	V	SPA	DTT1
68	DORINGKRUIN	026E41 00	26S49 05	28	530	1	V	SPA	DTT2
69	DOUGLAS	023E31 49	29S04 14	55	746	10	H	SPA	DTT1
70	DOUGLAS	023E31 49	29S04 14	59	778	10	H	SPA	DTT2
71	DULLSTROOM	030E11 17	25S34 21	57	762	5	H	SPA	DTT1
72	DULLSTROOM	030E11 17	25S34 21	51	714	5	H	SPA	DTT2
73	DURBAN	030E43 00	29S46 11	46	674	100	H	SPA	DTT1
74	DURBAN	030E43 00	29S46 11	50	706	100	H	SPA	DTT2
75	DURBAN NORTH	031E02 24	29S45 52	46	674	1	V	SPA	DTT1
76	DURBAN NORTH	031E02 24	29S45 52	50	706	1	V	SPA	DTT2
77	DZAMBA	030E18 41	22S49 05	36	594	1	V	SPA	DTT1
78	DZAMBA	030E18 41	22S49 05	32	562	1	V	SPA	DTT2
79	EAST LONDON	027E48 58	32S56 20	58	770	50	H	SPA	DTT1
80	EAST LONDON	027E48 58	32S56 20	62	802	50	H	SPA	DTT2
81	ELANDS HEIGHT	028E07 10	30S47 44	47	682	10	V	SPA	DTT1
82	ELANDS HEIGHT	028E07 10	30S47 44	26	514	10	V	SPA	DTT2
83	ELLIOT	027E51 57	31S10 36	62	802	0.4	V	SPA	DTT1
84	ELLIOT	027E51 57	31S10 36	66	834	0.4	V	SPA	DTT2
85	ELLISRAS	027E39 46	23S42 22	25	506	0.24	V	SPA	DTT1
86	ELLISRAS	027E39 46	23S42 22	29	538	0.24	V	SPA	DTT2
87	EMPANGENI	031E53 30	28S44 40	60	786	0.05	V	SPA	DTT1
88	EMPANGENI	031E53 30	28S44 40	56	754	0.05	V	SPA	DTT2
89	ENGCOBO	028E00 34	31S39 20	44	658	10	V	SPA	DTT1
90	ENGCOBO	028E00 34	31S39 20	48	690	10	V	SPA	DTT2
91	ENTSHATSHONGO	028E40 10	32S08 39	23	490	50	V	SPA	DTT1
92	ENTSHATSHONGO	028E40 10	32S08 39	27	522	50	V	SPA	DTT2
93	ENZELSBURG	026E13 16	25S25 07	54	738	2	H	SPA	DTT1
94	ENZELSBURG	026E13 16	25S25 07	58	770	2	H	SPA	DTT2
95	ERMELO	029E59 57	26S30 35	57	762	0.05	V	SPA	DTT1
96	ERMELO	029E59 57	26S30 35	61	794	0.05	V	SPA	DTT2

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NO	TRANSMITTING STATION NAME	GEO. CO-ORDINATES		CH	FREQ		POL	STAT	CAT
		LONGITUDE	LATITUDE		MHz	ERP(kW)			
97	ESHOWE	031E17 37	28S51 29	56	754	10	H	SPA	DTT1
98	ESHOWE	031E17 37	28S51 29	60	786	10	H	SPA	DTT2
99	ESTCOURT	029E51 56	29S00 55	22	482	0.05	V	SPA	DTT1
100	ESTCOURT	029E51 56	29S00 55	47	682	0.05	V	SPA	DTT2
101	FAANS GROVE	022E24 18	27S05 59	40	626	50	H	SPA	DTT1
102	FAANS GROVE	022E24 18	27S05 59	44	658	50	H	SPA	DTT2
103	FICKSBURG TOWN	027E51 27	28S52 36	41	634	0.05	V	SPA	DTT1
104	FICKSBURG TOWN	027E51 27	28S52 36	49	698	0.05	V	SPA	DTT2
105	FISHOEK	018E26 12	34S08 59	38	610	0.1	V	SPA	DTT1
106	FISHOEK	018E26 12	34S08 59	50	706	0.1	V	SPA	DTT2
107	FRANSCHHOEK	019E04 26	33S54 26	63	810	1	V	SPA	DTT1
108	FRANSCHHOEK	019E04 26	33S54 26	67	842	1	V	SPA	DTT2
109	GABA	030E42 25	22S47 02	36	594	4	V	SPA	DTT1
110	GABA	030E42 25	22S47 02	32	562	4	V	SPA	DTT2
111	GANYESA	024E16 00	26S36 12	30	546	30	H	SPA	DTT1
112	GANYESA	024E16 00	26S36 12	34	578	30	H	SPA	DTT2
113	GA-RANKUWA	028E01 25	25S36 12	54	738	12.5	V	SPA	DTT1
114	GA-RANKUWA	028E01 25	25S36 12	58	770	12.5	V	SPA	DTT2
115	GARIES	018E04 43	30S18 52	54	738	50	H	SPA	DTT1
116	GARIES	018E04 43	30S18 52	58	770	50	H	SPA	DTT2
117	GEORGE	022E27 04	33S55 38	64	818	112	H	SPA	DTT1
118	GEORGE	022E27 04	33S55 38	68	850	112	H	SPA	DTT2
119	GLENCOE	029E56 51	28S09 04	48	690	10	H	SPA	DTT1
120	GLENCOE	029E56 51	28S09 04	52	722	10	H	SPA	DTT2
121	GRAAFF-REINET	024E27 04	32S04 44	32	562	20	H	SPA	DTT1
122	GRAAFF-REINET	024E27 04	32S04 44	36	594	20	H	SPA	DTT2
123	GRABOUW	018E58 03	34S06 05	38	610	0.5	V	SPA	DTT1
124	GRABOUW	018E58 03	34S06 05	50	706	0.5	V	SPA	DTT2
125	GRAHAMSTOWN	026E42 31	33S17 15	50	706	20	H	SPA	DTT1
126	GRAHAMSTOWN	026E42 31	33S17 15	46	674	20	H	SPA	DTT2
127	GREYTOWN	030E32 10	29S00 46	58	770	10	H	SPA	DTT1
128	GREYTOWN	030E32 10	29S00 46	62	802	10	H	SPA	DTT2
129	GREYTOWN DORP	030E36 48	29S02 05	58	770	1	V	SPA	DTT1
130	GREYTOWN DORP	030E36 48	29S02 05	62	802	1	V	SPA	DTT2
131	GROOT BRAKRIVIER	022E13 00	34S02 31	31	554	0.025	V	SPA	DTT1
132	GROOT BRAKRIVIER	022E13 00	34S02 31	39	618	0.025	V	SPA	DTT2
133	GROOT MARICO	026E26 08	25S37 11	47	682	0.2	V	SPA	DTT1
134	GROOT MARICO	026E26 08	25S37 11	51	714	0.2	V	SPA	DTT2
135	GROOTDERM	017E05 00	28S26 00	27	522	1	H	SPA	DTT1
136	GROOTDERM	017E05 00	28S26 00	29	538	1	H	SPA	DTT2
137	HAENERTSBURG	029E56 48	23S59 54	23	490	20	H	SPA	DTT1
138	HAENERTSBURG	029E56 48	23S59 54	27	522	20	H	SPA	DTT2
139	HAMAKUYA	030E48 21	22S41 49	36	594	0.2	V	SPA	DTT1
140	HAMAKUYA	030E48 21	22S41 49	32	562	0.2	V	SPA	DTT2
141	HANKEY	024E52 13	33S49 52	36	594	0.04	V	SPA	DTT1
142	HANKEY	024E52 13	33S49 52	51	714	0.04	V	SPA	DTT2
143	HARRISMITH	029E06 25	28S15 18	40	626	50	V	SPA	DTT1
144	HARRISMITH	029E06 25	28S15 18	44	658	50	V	SPA	DTT2

ANNEXURE F: DTT FREQUENCY NETWORKS 2009

NO	TRANSMITTING STATION NAME	GEO. CO-ORDINATES		CH	FREQ MHz	ERP(kW)	POL	STAT	CAT
		LONGITUDE	LATITUDE						
145	HECTORSPRUIT	031E36 20	25S28 47	30	546	0.631	V	SPA	DTT1
146	HECTORSPRUIT	031E36 20	25S28 47	34	578	0.631	V	SPA	DTT2
147	HEIDELBERG	028E20 53	26S29 19	42	642	0.1		SPA	DTT1
148	HEIDELBERG	028E20 53	26S29 19	50	706	0.1		SPA	DTT2
149	HELDERKRUIN	027E51 32	26S06 05	54	738	1		SPA	DTT1
150	HELDERKRUIN	027E51 32	26S06 05	58	770	1	V	SPA	DTT2
151	HERMANUS	019E13 18	34S24 47	26	514	0.6	V	SPA	DTT1
152	HERMANUS	019E13 18	34S24 47	30	546	0.6	V	SPA	DTT2
153	HEXRIVIER	019E39 23	33S30 54	37	562	0.1	V	SPA	DTT2
154	HEXRIVIER	019E39 23	33S30 54	41	634	0.1	V	SPA	DTT1
155	HOEDSPRUIT	030E52 08	24S32 30	21	474	5	H	SPA	DTT1
156	HOEDSPRUIT	030E52 08	24S32 30	25	506	5	H	SPA	DTT2
157	HOLY CROSS	029E38 25	31S07 56	62	802	30	V	SPA	DTT1
158	HOLY CROSS	029E38 25	31S07 56	64	818	30	V	SPA	DTT2
159	HOUMOED	019E53 00	29S12 00	35	586	50	H	SPA	DTT2
160	HOUT BAY	018E20 56	34S00 44	38	610	4	V	SPA	DTT1
161	HOWICK	030E13 52	29S30 13	46	674	0.008	V	SPA	DTT1
162	HOWICK	030E13 52	29S30 13	50	706	0.008	V	SPA	DTT2
163	ITSOSENG	025E55 18	26S04 30	59	778	33	V	SPA	DTT1
164	ITSOSENG	025E55 18	26S04 30	63	810	33	V	SPA	DTT2
165	JOHANNESBURG	028E00 26	26S11 31	54	738	120	H	SPA	DTT1
166	JOHANNESBURG	028E00 26	26S11 31	58	770	120	H	SPA	DTT2
167	KALAHARI	021E40 00	27S21 00	28	530	20	H	SPA	DTT1
168	KALAHARI	021E40 00	27S21 00	36	594	20	H	SPA	DTT2
169	KAREEDOUW	024E25 48	34S01 29	40	626	5	H	SPA	DTT1
170	KAREEDOUW	024E25 48	34S01 29	48	690	5	H	SPA	DTT2
171	KIESEL	027E08 00	23S52 00	53	730	10	H	SPA	DTT1
172	KIESEL	027E08 00	23S52 00	57	762	10	H	SPA	DTT2
173	KIMBERLEY	024E54 19	28S51 14	28	530	10	H	SPA	DTT1
174	KIMBERLEY	024E54 19	28S51 14	36	594	10	H	SPA	DTT2
175	KING WILLIAMS TOWN	027E15 36	32S40 44	49	698	18	H	SPA	DTT1
176	KING WILLIAMS TOWN	027E15 36	32S40 44	45	666	18	H	SPA	DTT2
177	KIRKWOOD	025E26 53	33S23 22	26	514	0.02	V	SPA	DTT1
178	KIRKWOOD	025E26 53	33S23 22	34	578	0.02	V	SPA	DTT2
179	KLEINMOND	019E08 28	34S23 15	30	546	0.8	V	SPA	DTT1
180	KLEINMOND	019E08 28	34S23 15	26	514	0.6	V	SPA	DTT2
181	KLERKSDORP	026E24 29	26S45 14	56	754	10	H	SPA	DTT1
182	KLERKSDORP	026E24 29	26S45 14	60	786	10	H	SPA	DTT2
183	KLIPVOORDAM	027E45 42	25S09 18	36	594	0.01	V	SPA	DTT1
184	KLIPVOORDAM	027E45 42	25S09 18	32	562	0.01	V	SPA	DTT2
185	KNYSNA	023E02 35	34S04 18	24	498	0.5	V	SPA	DTT1
186	KNYSNA	023E02 35	34S04 18	28	530	0.5	V	SPA	DTT2
187	KOKSTAD	029E29 24	30S36 42	26	514	0.4	V	SPA	DTT1
188	KOKSTAD	029E29 24	30S36 42	30	546	0.4	V	SPA	DTT2
189	KROONSTAD	027E11 10	27S25 16	25	506	20	H	SPA	DTT1
190	KROONSTAD	027E11 10	27S25 16	29	538	20	H	SPA	DTT2
191	KURUMAN	023E18 49	27S21 05	23	490	5	H	SPA	DTT1
192	KURUMAN	023E18 49	27S21 05	27	522	5	H	SPA	DTT2

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NO	TRANSMITTING STATION NAME	GEO. CO-ORDINATES			CH	FREQ MHz	ERP(kW)	POL	STAT	CAT
		LONGITUDE	LATITUDE							
193	KURUMAN HILLS	023E33 38	27S53 13	23	490	20	H	SPA	DTT1	
194	KURUMAN HILLS	023E33 38	27S53 13	27	522	20	H	SPA	DTT2	
195	KUTAMA	029E37 31	23S02 19	26	514	0.1	V	SPA	DTT1	
196	KUTAMA	029E37 31	23S02 19	30	546	0.1	V	SPA	DTT2	
197	LADISMITH (CAPE)	021E25 20	33S37 54	30	546	10	H	SPA	DTT1	
198	LADISMITH (CAPE)	021E25 20	33S37 54	34	578	10	H	SPA	DTT2	
199	LADYBRAND	027E22 42	29S10 18	32	562	1	H	SPA	DTT1	
200	LADYBRAND	027E22 42	29S10 18	36	594	1	H	SPA	DTT2	
201	LADYSMITH	029E47 19	28S35 23	38	610	1	V	SPA	DTT1	
202	LADYSMITH	029E47 19	28S35 23	46	674	1	V	SPA	DTT2	
203	LINMEYER	028E04 16	26S16 08	54	738	0.1	V	SPA	DTT1	
204	LINMEYER	028E04 16	26S16 08	58	770	0.1	V	SPA	DTT2	
205	LOMBAARDSVLAKTE	022E15 00	28S20 15	55	746	10	H	SPA	DTT1	
206	LOMBAARDSVLAKTE	022E15 00	28S20 15	59	778	10	H	SPA	DTT2	
207	LOSKOP	029E12 42	28S39 41	47	682	1.413	V	SPA	DTT1	
208	LOSKOP	029E12 42	28S39 41	36	594	1	V	SPA	DTT2	
209	LOUIS TRICHARDT	029E45 26	23S00 02	26	514	100	V	SPA	DTT1	
210	LOUIS TRICHARDT	029E45 26	23S00 02	30	546	100	V	SPA	DTT2	
211	LOUWSBURG	031E16 32	27S33 44	46	674	14.12	V	SPA	DTT1	
212	LOUWSBURG	031E16 32	27S33 44	50	706	14.12	V	SPA	DTT2	
213	LYDENBURG	030E26 04	25S06 19	26	514	0.04	V	SPA	DTT1	
214	LYDENBURG	030E26 04	25S06 19	30	546	0.04	V	SPA	DTT2	
215	MABOPANE	028E03 48	25S30 57	54	738	1	V	SPA	DTT1	
216	MABOPANE	028E03 48	25S30 57	58	770	1	V	SPA	DTT2	
217	MADIBOGO	025E15 14	26S27 28	59	778	4	H	SPA	DTT1	
218	MADIBOGO	025E15 14	26S27 28	63	810	4	H	SPA	DTT2	
219	MAKADIMA	025E49 23	25S26 47	54	738	12	H	SPA	DTT1	
220	MAKADIMA	025E49 23	25S26 47	58	770	12	H	SPA	DTT2	
221	MALAMBA	030E15 09	22S53 56	36	594	0.08	V	SPA	DTT1	
222	MALAMBA	030E15 09	22S53 56	32	562	0.08	V	SPA	DTT2	
223	MATATIELE	028E49 19	30S23 45	46	674	10	H	SPA	DTT1	
224	MATATIELE	028E49 19	30S23 45	50	706	10	H	SPA	DTT2	
225	MATJIESFONTEIN	020E30 20	33S16 52	47	682	10	H	SPA	DTT1	
226	MATJIESFONTEIN	020E30 20	33S16 52	51	714	10	H	SPA	DTT2	
227	MBUZINI	031E54 53	25S52 26	62	802	2	V	SPA	DTT1	
228	MBUZINI	031E54 53	25S52 26	66	834	2	V	SPA	DTT2	
229	MENLO PARK	028E16 09	25S46 15	54	738	0.04	V	SPA	DTT1	
230	MENLO PARK	028E16 09	25S46 15	58	770	0.04	V	SPA	DTT2	
231	MIDDELBURG	029E23 24	25S49 04	60	786	50	H	SPA	DTT1	
232	MIDDELBURG	029E23 24	25S49 04	56	754	50	H	SPA	DTT2	
233	MIER	020E18 15	26S41 30	53	730	50	H	SPA	DTT1	
234	MIER	020E18 15	26S41 30	57	762	50	H	SPA	DTT2	
235	MMABATHO	025E36 46	25S50 22	24	498	20	V	SPA	DTT1	
236	MMABATHO	025E36 46	25S50 22	36	594	20	V	SPA	DTT2	
237	MOGWASE	027E16 00	25S10 26	62	802	33	V	SPA	DTT1	
238	MOGWASE	027E16 00	25S10 26	66	834	33	V	SPA	DTT2	
239	MOLEMA	030E02 40	23S18 38	58	770	0.2	V	SPA	DTT1	
240	MOLEMA	030E02 40	23S18 38	62	802	0.2	V	SPA	DTT2	

ANNEXURE F: DTT FREQUENCY NETWORKS 2009

NO	TRANSMITTING STATION NAME	GEO. CO-ORDINATES			CH	FREQ MHz	ERP(kW)	POL	STAT	CAT
		LONGITUDE	LATITUDE							
241	MONDEOR	027E59 52	26S16 52	54	738	0.02	V	SPA	DTT1	
242	MONDEOR	027E59 52	26S16 52	58	770	0.02	V	SPA	DTT2	
243	MONTAGU	020E08 37	33S47 16	26	514	0.05	V	SPA	DTT1	
244	MONTAGU	020E08 37	33S47 16	30	546	0.05	V	SPA	DTT2	
245	MOOI RIVER	029E52 04	29S11 07	47	682	10	H	SPA	DTT1	
246	MOOI RIVER	029E52 04	29S11 07	67	842	10	H	SPA	DTT2	
247	MORETELETSI	026E42 12	25S17 48	26	514	35	V	SPA	DTT1	
248	MORETELETSI	026E42 12	25S17 48	34	578	35	V	SPA	DTT2	
249	MOTSWEDI	025E52 18	25S16 55	54	738	7	V	SPA	DTT1	
250	MOTSWEDI	025E52 18	25S16 55	58	770	7	V	SPA	DTT2	
251	MOUNT AYLIFF	029E23 41	30S50 11	62	802	10	H	SPA	DTT1	
252	MOUNT AYLIFF	029E23 41	30S50 11	64	818	10	H	SPA	DTT2	
253	MOUNT FLETCHER	028E30 41	30S50 11	47	682	1	H	SPA	DTT1	
254	MOUNT FLETCHER	028E30 41	30S50 11	26	514	1	H	SPA	DTT2	
255	MULBARTON	028E03 56	26S17 36	54	738	0.03	V	SPA	DTT1	
256	MULBARTON	028E03 56	26S17 36	58	770	0.03	V	SPA	DTT2	
257	NAPIER	019E53 33	34S31 45	42	642	1	H	SPA	DTT1	
258	NAPIER	019E53 33	34S31 45	46	674	1	H	SPA	DTT2	
259	NELSPRUIT	030E46 35	25S30 55	54	738	10	H	SPA	DTT1	
260	NELSPRUIT	030E46 35	25S30 55	58	770	10	H	SPA	DTT2	
261	NEWCASTLE	029E57 12	27S43 07	37	602	1	V	SPA	DTT1	
262	NEWCASTLE	029E57 12	27S43 07	41	634	1	V	SPA	DTT2	
263	NGANGELIZWE	028E48 31	31S37 15	41	634	0.2	H	SPA	DTT1	
264	NGANGELIZWE	028E48 31	31S37 15	34	578	0.2	H	SPA	DTT2	
265	NOENIEPUT	020E18 30	27S35 00	30	546	10	H	SPA	DTT1	
266	NOENIEPUT	020E18 30	27S35 00	34	578	10	H	SPA	DTT2	
267	NONGOMA	031E39 27	27S54 18	33	570	10	H	SPA	DTT1	
268	NONGOMA	031E39 27	27S54 18	31	554	10	H	SPA	DTT2	
269	NOUPOORT	024E56 01	31S18 14	33	570	1	H	SPA	DTT1	
270	NOUPOORT	024E56 01	31S18 14	37	602	1	H	SPA	DTT2	
271	NQELENI	029E0734	31S4557	41	634	10	V	SPA	DTT1	
272	NQELENI	029E0734	31S4557	34	578	10	V	SPA	DTT2	
273	NQUTU	030E40 42	28S15 43	63	810	15.1	V	SPA	DTT1	
274	NQUTU	030E40 42	28S15 43	40	626	15.1	V	SPA	DTT2	
275	NYLSTROOM	028E25 59	24S47 58	22	482	1	V	SPA	DTT1	
276	NYLSTROOM	028E25 59	24S47 58	26	514	1	V	SPA	DTT2	
277	OUDTSHOORN	022E16 02	33S40 16	40	626	100	H	SPA	DTT1	
278	OUDTSHOORN	022E16 02	33S40 16	48	690	100	H	SPA	DTT2	
279	OVERPORT	030E59 54	29S50 02	46	674	1.3	V	SPA	DTT1	
280	OVERPORT	030E59 54	29S50 02	50	706	1.3	V	SPA	DTT2	
281	PAARL	018E56 24	33S42 53	38	610	2.5	V	SPA	DTT1	
282	PAARL	018E56 24	33S42 53	50	706	2.5	V	SPA	DTT2	
283	PANKOP	028E24 16	25S09 44	64	818	20	H	SPA	DTT1	
284	PANKOP	028E24 16	25S09 44	68	850	20	H	SPA	DTT2	
285	PATENSIE	024E49 43	33S45 37	36	594	0.01	V	SPA	DTT1	
286	PATENSIE	024E49 43	33S45 37	51	714	0.01	V	SPA	DTT2	
287	PAUL SAUER DAM	024E33 43	33S45 13	36	594	0.02	V	SPA	DTT1	
288	PAUL SAUER DAM	024E33 43	33S45 13	51	714	0.02	V	SPA	DTT2	

ANNEXURE F: DTT FREQUENCY NETWORKS 2009

NO	TRANSMITTING STATION NAME	GEO. CO-ORDINATES		CH	FREQ MHZ	ERP(kW)	POL	STAT	CAT
		LONGITUDE	LATITUDE						
289	PETRUS STEYN	028E19 06	27S31 00	36	594	10	H	SPA	DTT1
290	PETRUS STEYN	028E19 06	27S31 00	34	578	10	H	SPA	DTT2
291	PHALABORWA	031E08 24	23S57 02	26	514	0.2	V	SPA	DTT1
292	PHALABORWA	031E08 24	23S57 02	30	546	0.2	V	SPA	DTT2
293	PIET PLESSIS	024E49 55	26S14 56	46	674	10	H	SPA	DTT1
294	PIET PLESSIS	024E49 55	26S14 56	23	490	10	H	SPA	DTT2
295	PIET RETIEF	030E41 03	27S01 11	56	754	10	H	SPA	DTT1
296	PIET RETIEF	030E41 03	27S01 11	60	786	10	H	SPA	DTT2
297	PIETERMARITZBURG	030E19 49	29S34 47	46	674	1	V	SPA	DTT1
298	PIETERMARITZBURG	030E19 49	29S34 47	50	706	1	V	SPA	DTT2
299	PIKETBERG	018E44 19	32S49 09	29	538	120	H	SPA	DTT1
300	PIKETBERG	018E44 19	32S49 09	31	554	120	H	SPA	DTT2
301	PILANESBERG	027E05 35	25S21 07	57	762	16	V	SPA	DTT1
302	PILANESBERG	027E05 35	25S21 07	65	826	16	V	SPA	DTT2
303	PLETTENBERG BAY	023E22 30	34S03 32	47	682	0.125	V	SPA	DTT1
304	PLETTENBERG BAY	023E22 30	34S03 32	51	714	0.125	V	SPA	DTT2
305	POFADDER	018E56 25	29S14 30	55	746	10	H	SPA	DTT1
306	POFADDER	018E56 25	29S14 30	59	778	10	H	SPA	DTT2
307	POMFRET	023E34 44	25S49 52	40	626	1	V	SPA	DTT1
308	POMFRET	023E34 44	25S49 52	44	658	1	V	SPA	DTT2
309	PONGOLA	031E39 00	27S31 34	39	618	0.2	V	SPA	DTT1
310	PONGOLA	031E39 00	27S31 34	43	650	0.2	V	SPA	DTT2
311	PORT ELIZABETH	025E26 29	33S56 10	45	666	112	H	SPA	DTT1
312	PORT ELIZABETH	025E26 29	33S56 10	49	698	112	H	SPA	DTT2
313	PORT ELIZABETH CIT	025E35 31	33S55 28	45	666	2	V	SPA	DTT1
314	PORT ELIZABETH CIT	025E35 31	33S55 28	49	698	2	V	SPA	DTT2
315	PORT SHEPSTONE	030E17 17	30S44 07	40	626	10	H	SPA	DTT1
316	PORT SHEPSTONE	030E17 17	30S44 07	44	658	10	H	SPA	DTT2
317	PORTST JOHNS	029E31 39	31S36 39	41	634	10	H	SPA	DTT1
318	PORTST JOHNS	029E31 39	31S36 39	34	578	10	H	SPA	DTT2
319	POTCHEFSTROOM	027E04 32	26S41 46	56	754	0.1	V	SPA	DTT1
320	POTCHEFSTROOM	027E04 32	26S41 46	60	786	0.1	V	SPA	DTT2
321	POTGIETERSRUS	029E14 10	24S09 24	48	690	10	H	SPA	DTT1
322	POTGIETERSRUS	029E14 10	24S09 24	52	722	10	H	SPA	DTT2
323	PRETORIA	027E59 03	25S4120	54	738	100		SPA	DTT1
324	PRETORIA	027E59 03	25S4120	58	770	100	V	SPA	DTT2
325	PRETORIA NORTH	028E10 07	25S41 25	54	738	0.02	V	SPA	DTT1
326	PRETORIA NORTH	028E10 07	25S41 25	58	770	0.02	V	SPA	DTT2
327	PRIESKA	022E36 57	29S40 52	22	482	50	H	SPA	DTT1
328	PRIESKA	022E36 57	29S40 52	30	546	50	H	SPA	DTT2
329	PUNDA MARIA	030E59 19	22S43 28	32	562	10	H	SPA	DTT1
330	PUNDA MARIA	030E59 19	22S43 28	36	594	10	H	SPA	DTT2
331	QUDENI	030E51 59	28S38 03	60	786	15.1	V	SPA	DTT1
332	QUDENI	030E51 59	28S38 03	56	754	15.1	V	SPA	DTT2
333	QUEENSTOWN	026E47 05	31S43 56	26	514	50	H	SPA	DTT1
334	QUEENSTOWN	026E47 05	31S43 56	30	546	50	H	SPA	DTT2
335	QUEENSTOWN (DORF	026E47 05	31S43 56	26	514	0.1	H	SPA	DTT1
336	QUEENSTOWN (DORF	026E47 05	31S43 56	30	546	0.1	H	SPA	DTT2

ANNEXURE F: DTT FREQUENCY NETWORKS 2009

NO	TRANSMITTING STATION NAME	GEO. CO-ORDINATES			FREQ MHz	ERP(kW)	POL	STAT	CAT
		LONGITUDE	LATITUDE	CH					
337	RICHARDS BAY	032E06 24	28S47 10	60	786	0.19	V	SPA	DTT1
338	RICHARDS BAY	032E06 24	28S47 10	56	754	0.19	V	SPA	DTT2
339	RIVERSDALE	021E07 41	34S01 07	32	562	20	H	SPA	DTT1
340	RIVERSDALE	021E07 41	34S01 07	36	594	20	H	SPA	DTT2
341	RUSTENBURG	027E07 06	25S36 56	45	666	5	H	SPA	DTT1
342	RUSTENBURG	027E07 06	25S36 56	53	730	5	H	SPA	DTT2
343	RUSTENBURG (CASH)	027E07 06	25S36 56	45	666	0.1	H	SPA	DTT1
344	RUSTENBURG (CASH)	027E07 06	25S36 56	53	730	0.1	H	SPA	DTT2
345	SABIE	030E45 34	25S07 44	23	490	0.1	V	SPA	DTT1
346	SABIE	030E45 34	25S07 44	27	522	0.1	V	SPA	DTT2
347	SASOLBURG	027E49 35	26S47 45	37	602	0.05	V	SPA	DTT1
348	SASOLBURG	027E49 35	26S47 45	45	666	0.05	V	SPA	DTT2
349	SCHWEIZER RENEKE	025E13 07	27S08 13	21	474	100	H	SPA	DTT1
350	SCHWEIZER RENEKE	025E13 07	27S08 13	40	626	10	H	SPA	DTT2
351	SEA POINT	018E23 51	33S54 33	38	610	0.4	V	SPA	DTT1
352	SEA POINT	018E23 51	33S54 33	50	706	0.4	V	SPA	DTT2
353	SECUNDA	029E12 10	26S29 40	44	658	0.1	V	SPA	DTT1
354	SECUNDA	029E12 10	26S29 40	40	626	0.1	V	SPA	DTT2
355	SENEKAL	027E30 26	28S15 19	50	706	10	H	SPA	DTT1
356	SENEKAL	027E30 26	28S15 19	62	738	1	H	SPA	DTT2
357	SEVERN	023E04 00	26S24 00	48	690	10	H	SPA	DTT1
358	SEVERN	023E04 00	26S24 00	52	722	10	H	SPA	DTT2
359	SHANZHA	030E14 00	22S57 36	36	594	2	V	SPA	DTT1
360	SHANZHA	030E14 00	22S57 36	32	562	2	V	SPA	DTT2
361	SIBASA	030E26 54	22S56 57	36	594	8	V	SPA	DTT1
362	SIBASA	030E26 54	22S56 57	32	562	8	V	SPA	DTT2
363	SIMONSTOWN	018E25 37	34S11 54	38	610	0.25	V	SPA	DTT1
364	SIMONSTOWN	018E25 37	34S11 54	50	706	0.25	V	SPA	DTT2
365	SMITHFIELD	026E21 56	29S55 43	29	538	50	H	SPA	DTT1
366	SMITHFIELD	026E21 56	29S55 43	59	778	50	H	SPA	DTT2
367	SOMERSET EAST	025E34 41	32S42 45	61	794	0.05	V	SPA	DTT1
368	SOMERSET EAST	025E34 41	32S42 45	65	826	0.05	V	SPA	DTT2
369	SPRINGBOK	017E48 29	29S35 04	21	474	10	H	SPA	DTT1
370	SPRINGBOK	017E48 29	29S35 04	25	506	10	H	SPA	DTT2
371	SPRINGFONTEIN	025E46 08	30S16 14	42	642	10	H	SPA	DTT1
372	SPRINGFONTEIN	025E46 08	30S16 14	46	674	10	H	SPA	DTT2
373	STANDERTON	029E12 51	26S57 37	42	642	0.1	V	SPA	DTT1
374	STANDERTON	029E12 51	26S57 37	46	674	0.1	V	SPA	DTT2
375	STEINKOPF	017E35 00	29S05 00	38	610	10	H	SPA	DTT1
376	STEINKOPF	017E35 00	29S05 00	42	642	10	H	SPA	DTT2
377	STELLENBOSCH	018E52 11	33S54 56	38	610	0.5	V	SPA	DTT1
378	STELLENBOSCH	018E52 11	33S54 56	50	706	0.5	V	SPA	DTT2
379	STERKSPRUIT	027E16 14	30S41 44	45	666	20	V	SPA	DTT1
380	STERKSPRUIT	027E16 14	30S41 44	49	698	20	V	SPA	DTT2
381	STRAALHOEK	029E50 53	30S20 49	51	714	10	V	SPA	DTT1
382	STRAALHOEK	029E50 53	30S20 49	54	738	10	V	SPA	DTT2
383	SUIDRAND (KROONST)	027E14 16	27S41 18	25	506	0.25	V	SPA	DTT1
384	SUIDRAND (KROONST)	027E14 16	27S41 18	29	538	0.25	V	SPA	DTT2

ANNEXURE F: DTT FREQUENCY NETWORKS 2009

NO	TRANSMITTING STATION NAME	GEO. CO-ORDINATES			CH	FREQ MHz	ERP(kW)	POL	STAT	CAT
		LONGITUDE	LATITUDE							
385	SUNNYSIDE	028E12 24	25S45 53	54	738	1	V	SPA	DTT1	
386	SUNNYSIDE	028E12 24	25S45 53	58	770	1	V	SPA	DTT2	
387	SUPINGSTAD	026E01 36	24S47 20	64	818	2	V	SPA	DTT1	
388	SUPINGSTAD	026E01 36	24S47 20	68	850	2	V	SPA	DTT2	
389	SUURBERG	025E34 29	33S14 55	38	610	5	H	SPA	DTT1	
390	SUURBERG	025E34 29	33S14 55	42	642	5	H	SPA	DTT2	
391	SWARTRUGGENS	026E48 09	25S40 59	47	682	0.5	V	SPA	DTT1	
392	SWARTRUGGENS	026E48 09	25S40 59	51	714	0.5	V	SPA	DTT2	
393	TABLE MOUNTAIN	018E24 13	33S57 25	38	610	0.2	V	SPA	DTT1	
394	TABLE MOUNTAIN	018E24 13	33S57 25	50	706	0.5	V	SPA	DTT2	
395	TAUNG	024E37 00	27S31 30	39	618	18	H	SPA	DTT1	
396	TAUNG	024E37 00	27S31 30	51	714	174	H	SPA	DTT2	
397	THABA NCHU	026E45 45	29S15 24	63	810	20	H	SPA	DTT1	
398	THABA NCHU	026E45 45	29S15 24	67	842	20	H	SPA	DTT2	
399	THABAZIMBI	027E36 51	24S27 59	46	674	10	H	SPA	DTT1	
400	THABAZIMBI	027E36 51	24S27 59	50	706	10	H	SPA	DTT2	
401	THE BLUFF	031E00 45	29S54 40	46	674	2.5	V	SPA	DTT1	
402	THE BLUFF	031E00 45	29S54 40	50	706	2.5	V	SPA	DTT2	
403	THEUNISSEN	026E34 50	28S11 55	30	546	10	H	SPA	DTT1	
404	THEUNISSEN	026E34 50	28S11 55	34	578	10	H	SPA	DTT2	
405	THLABANE	027E11 39	25S37 16	45	666	0.2	V	SPA	DTT1	
406	THLABANE	027E11 39	25S37 16	53	730	1.3	V	SPA	DTT2	
407	TOLWE	028E27 29	23S04 59	47	682	16	V	SPA	DTT1	
408	TOLWE	028E27 29	23S04 59	51	714	16	V	SPA	DTT2	
409	TOUWSRIVIER	020E01 12	33S20 59	32	562	0.02	V	SPA	DTT1	
410	TOUWSRIVIER	020E01 12	33S20 59	36	594	0.02	V	SPA	DTT2	
411	TSHAMAVUDZI	030E31 42	22S39 15	36	594	0.25	V	SPA	DTT1	
412	TSHAMAVUDZI	030E31 42	22S39 15	32	562	0.25	V	SPA	DTT2	
413	TYGERBERG	018E35 46	33S52 29	38	610	2	V	SPA	DTT1	
414	TYGERBERG	018E35 46	33S52 29	50	706	2	V	SPA	DTT2	
415	TZANEEN	030E00 17	23S47 06	58	770	20	H	SPA	DTT1	
416	TZANEEN	030E00 17	23S47 06	62	802	20	H	SPA	DTT2	
417	UBOMBO	032E04 52	27S33 42	53	730	10	H	SPA	DTT1	
418	UBOMBO	032E04 52	27S33 42	57	762	10	H	SPA	DTT2	
419	UGIE	027E58 26	31S11 28	39	618	0.5	V	SPA	DTT1	
420	UGIE	027E58 26	31S11 28	43	650	0.5	V	SPA	DTT2	
421	ULUNDI	031E23 38	28S27 00	60	786	10	V	SPA	DTT1	
422	ULUNDI	031E23 38	28S27 00	56	754	10	V	SPA	DTT2	
423	UMTATA	028E44 36	31S35 48	41	634	10	H	SPA	DTT1	
424	UMTATA	028E44 36	31S35 48	34	578	10	H	SPA	DTT2	
425	UNIONDALE	023E03 06	33S43 23	55	746	2.5	V	SPA	DTT1	
426	UNIONDALE	023E03 06	33S43 23	36	594	1	V	SPA	DTT2	
427	UNIONDALE (TOWN)	023E03 06	33S43 23	36	594	1	V	SPA	DTT1	
428	UNIONDALE (TOWN)	023E03 06	33S43 23	55	746	1	V	SPA	DTT2	
429	UPINGTON	021E44 12	28S52 56	33	570	50	H	SPA	DTT1	
430	UPINGTON	021E44 12	28S52 56	29	538	50	H	SPA	DTT2	
431	UPINGTON TOWN	021E12 00	28S30 25	29	538	0.4	V	SPA	DTT1	
432	UPINGTON TOWN	021E12 00	28S30 25	33	570	0.38	V	SPA	DTT2	

ANNEXURE F: DTT FREQUENCY NETWORKS 2009

NO	TRANSMITTING STATION NAME	GEO. CO-ORDINATES			CH	FREQ MHz	ERP(kW)	POL	STAT	CAT
		LONGITUDE	LATITUDE							
433	VAN RHYNSDORP	018E41 24	31S45 16	48	690	50	H	SPA	DTT1	
434	VAN RHYNSDORP	018E41 24	31S45 16	52	722	50	H	SPA	DTT2	
435	VERULAM	031E02 19	29S38 25	46	674	0.01	V	SPA	DTT1	
436	VERULAM	031E02 19	29S38 25	50	706	0.01	V	SPA	DTT2	
437	VICTORIA WEST	023E13 50	31S41 15	43	650	10	H	SPA	DTT1	
438	VICTORIA WEST	023E13 50	31S41 15	47	682	10	H	SPA	DTT2	
439	VILLA NORA	028E21 00	23S42 00	24	498	10	H	SPA	DTT1	
440	VILLA NORA	028E21 00	23S42 00	28	530	10	H	SPA	DTT2	
441	VILLIERSDORP	019E30 25	33S58 09	53	730	10	H	SPA	DTT1	
442	VILLIERSDORP	019E30 25	33S58 09	65	826	10	H	SPA	DTT2	
443	VOLKSRUST	029E53 15	27S18 33	58	770	10	H	SPA	DTT1	
444	VOLKSRUST	029E53 15	27S18 33	62	802	10	H	SPA	DTT2	
445	VRYHEID	030E47 38	27S44 27	26	514	10	H	SPA	DTT1	
446	VRYHEID	030E47 38	27S44 27	30	546	10	H	SPA	DTT2	
447	VRYHEID TOWN	030E46 23	27S46 44	26	514	0.04	H	SPA	DTT1	
448	VRYHEID TOWN	030E46 23	27S46 44	30	546	0.04	H	SPA	DTT2	
449	WELVERDIEND	027E14 55	26S26 47	23	490	10	H	SPA	DTT1	
450	WELVERDIEND	027E14 55	26S26 47	31	554	10	H	SPA	DTT2	
451	WILLISTON	020E55 08	31S19 31	38	610	10	H	SPA	DTT1	
452	WILLISTON	020E55 08	31S19 31	46	674	10	H	SPA	DTT2	
453	WILLOWMORE	023E27 36	33S14 05	39	618	1	H	SPA	DTT1	
454	WILLOWMORE	023E27 36	33S14 05	51	714	1	H	SPA	DTT2	
455	WINDYBRIDGE	027E14 05	32S45 10	45	666	20	H	SPA	DTT1	
456	WINDYBRIDGE	027E14 05	32S45 10	49	698	20	H	SPA	DTT2	
457	WITSIESHOEK	028E50 52	28S31 02	34	562	0.25	V	SPA	DTT1	
458	WITSIESHOEK	028E50 52	28S31 02	36	594	0.25	V	SPA	DTT2	
459	ZEERUST	026E02 51	25S51 37	39	618	20	H	SPA	DTT1	
460	ZEERUST	026E02 51	25S51 37	36	594	20	H	SPA	DTT2	



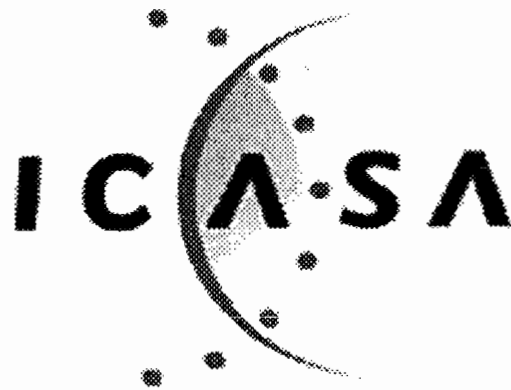
ANNEXURE G
MOBILE DTT FREQUENCY NETWORKS

ANNEXURE G: Mobile DTT FREQUENCY NETWORKS 2009

NO	TRANSMITTING	GEO. CO-ORDINATES		FREQUENCY		ANTENNA		ADMIN RECORDS	
	STATION NAME	LONGITUDE	LATITUDE	CH	MHz	ERP(kW)	POL	STAT	MUX
1	AMANDA GLEN	018E40 33	33S51 18	28	530	0.2512	V		MDTT1
2	AMANDA GLEN	018E40 33	33S51 18	32	562	0.2512	V		MDTT2
3	AURORA	018E38 29	33S49 39	28	530	0.2512	V		MDTT1
4	AURORA	018E38 29	33S49 39	32	562	0.2512	V		MDTT2
5	BEZ VALLEY	028E05 04	26S11 41	35	586	0.2512	V		MDTT1
6	BEZ VALLEY	028E05 04	26S11 41	33	570	0.2512	V		MDTT2
7	BLOEMFONTEIN	026E13 50	29S06 13	33	570	50	H		MDTT1
8	BLOEMFONTEIN	026E13 50	29S06 13	47	682	50	H		MDTT2
9	CAPE TOWN	018E23 15	34S03 15	32	562	6.7999	H		MDTT2
10	CAPE TOWN	018E23 15	34S03 15	28	530	6.7999	H		MDTT1
11	DURBAN	030E43 00	29S46 11	33	570	199.526	H		MDTT1
12	DURBAN	030E43 00	29S46 11	25	506	12.2999	H		MDTT2
13	DURBAN NORTH	031E02 24	29S45 52	33	570	1	V		MDTT1
14	DURBAN NORTH	031E02 24	29S45 52	25	506	1	V		MDTT2
15	EAST LONDON	027E48 58	32S56 20	32	562	10	H		MDTT2
16	EAST LONDON	027E48 58	32S56 20	36	594	10	H		MDTT1
17	FISHHOEK	018E26 12	34S08 59	28	530	0.2512	V		MDTT1
18	FISHHOEK	018E26 12	34S08 59	32	562	0.2512	V		MDTT2
19	GEORGE	022E27 04	33S55 38	37	602	112	H		MDTT1
20	GEORGE	022E27 04	33S55 38	41	634	112	H		MDTT2
21	GRABOUW	018E58 03	34S06 05	28	530	0.5	V		MDTT1
22	GRABOUW	018E58 03	34S06 05	32	562	0.5	V		MDTT2
23	HELDERKRUIN	027E51 32	26S06 05	35	586	0.8	V		MDTT1
24	HELDERKRUIN	027E51 32	26S06 05	33	570	0.8	V		MDTT2
25	HOUT BAY	018E20 56	34S00 44	28	530	4.0004	V		MDTT1
26	HOUT BAY	018E20 56	34S00 44	32	562	4.0004	V		MDTT2
27	JOHANNESBURG	028E00 26	26S11 31	35	586	120.005	H		MDTT1
28	JOHANNESBURG	028E00 26	26S11 31	33	570	120.005	H		MDTT2
29	KIMBERLEY	024E54 19	28S51 14	38	610	50	H		MDTT1
30	KIMBERLEY	024E54 19	28S51 14	45	666	50	H		MDTT2
31	KLERKSDORP	026E24 29	26S45 14	24	498	5	H		MDTT1
32	KLERKSDORP	026E24 29	26S45 14	28	530	5	H		MDTT2
33	MENLO PARK	028E16 09	25S46 15	35	586	0.2512	V		MDTT1
34	MENLO PARK	028E16 09	25S46 15	33	570	0.2512	V		MDTT2
35	MIDDELBURG	029E23 24	25S49 04	27	522	10	H		MDTT2
36	MIDDELBURG	029E23 24	25S49 04	31	554	10	H		MDTT1
37	MONDEOR	027E59 34	26S16 52	35	586	0.2512	V		MDTT1
38	MONDEOR	027E59 34	26S16 52	33	570	0.2512	V		MDTT2
39	MULBARTON	028E03 56	26S17 36	35	586	0.2512	V		MDTT1
40	MULBARTON	028E03 56	26S17 36	33	570	0.2512	V		MDTT2
41	NELSPRUIT	030E46 35	25S30 55	45	666	50	H		MDTT1
42	NELSPRUIT	030E46 35	25S30 55	48	690	50	H		MDTT2
43	OVERPORT	030E59 54	29S50 02	33	570	1.2999	V		MDTT1
44	OVERPORT	030E59 54	29S50 02	25	506	1.2999	V		MDTT2
45	PAARL	018E56 24	33S42 53	28	530	2.4998	V		MDTT1
46	PAARL	018E56 24	33S42 53	32	562	2.4998	V		MDTT2
47	PIETERMARITZBURG	030E19 49	29S34 47	33	570	1	V		MDTT1
48	PIETERMARITZBURG	030E19 49	29S34 47	25	506	1	V		MDTT2

ANNEXURE G: Mobile DTT FREQUENCY NETWORKS 2009

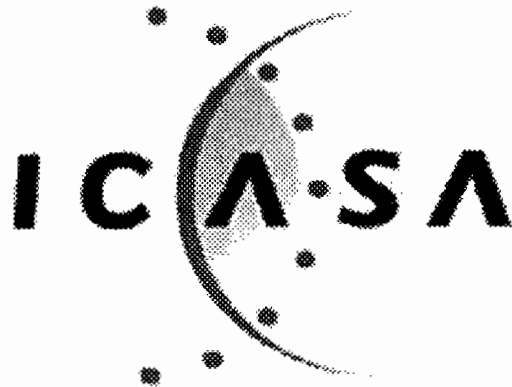
49	Pietersburg	029E27 54	23S53 10.	34	578	5	H		MDTT1
50	Pietersburg	029E27 54	23S53 10.	39	618	5	H		MDTT2
51	PORT ELIZABETH	025E26 29	33S56 10	28	530	10	H		MDTT1
52	PORT ELIZABETH	025E26 29	33S56 10	32	562	10	H		MDTT2
53	PRETORIA	027E59 03	25S41 20	35	586	100	H		MDTT1
54	PRETORIA	027E59 03	25S41 20	33	570	100	H		MDTT2
55	PRETORIA NORTH	028E10 07	25S41 25	35	586	0.2512	V		MDTT1
56	PRETORIA NORTH	028E10 07	25S41 25	33	570	0.2512	V		MDTT2
57	RUSTENBURG	027E07 06	25S36 56	49	698	5	H		MDTT1
58	SEA POINT	018E29 19	33S56 09	28	530	0.4	V		MDTT1
59	SEA POINT	018E29 19	33S56 09	32	562	0.4	V		MDTT2
60	SIMONSTOWN	018E25 37	34S11 54	28	530	0.2512	V		MDTT1
61	SIMONSTOWN	018E25 37	34S11 54	32	562	0.2512	V		MDTT2
62	STELLENBOSCH	018E52 11	33S54 56	28	530	0.2512	V		MDTT1
63	STELLENBOSCH	018E52 11	33S54 56	32	562	0.2512	V		MDTT2
64	SUNNYSIDE	028E12 24	25S45 53	35	586	1	V		MDTT1
65	SUNNYSIDE	028E12 24	25S45 53	33	570	1	V		MDTT2
66	TABLE MOUNTAIN	018E24 13	33S57 25	28	530	0.2512	V		MDTT1
67	TABLE MOUNTAIN	018E24 13	33S57 25	32	562	0.5	V		MDTT2
68	THE BLUFF	031E00 45	29S54 40	33	570	2.4998	V		MDTT1
69	THE BLUFF	031E00 45	29S54 40	25	506	2.4998	V		MDTT2
70	THEUNISSEN	026E34 50	28S11 55	39	618	50	H		MDTT1
71	THEUNISSEN	026E34 50	28S11 55	43	650	50	H		MDTT2
72	TYGERBERG	018E35 46	33S52 29	28	530	1.9999	V		MDTT1
73	TYGERBERG	018E35 46	33S52 29	32	562	1.9999	V		MDTT2



ANNEXURE H
FREQUENCY CHANGES

Annexure H: Frequency Changes 2009

No.	STATION NAME	GEO.CO-ORDINATES		FREQUENCY			New Freq	New Ch	ANTENNA			ADMINISTRATIVE RECORDS		
		LONGITUDE	LATITUDE	CH	FREQ(MHz)	FFS	MHz	ERP(kW)	POL	PROG	STAT	CAT		
1	PRETORIA NORTH	028E10 07	25S41 25	54	735.25	20	751.25	56	0.12	V	CSN	OPE	CML	
2	RUSTENBURG CAS	027E14 33	25S41 26	54	735.25	0	551.25	31	0.1	V	MNET	OPE	CML	
3	TABLE MOUNTAIN	018E24 13	33S57 25	28	511.25	0	647.25	43	0.2	V	SABC1	OPE	PBS	
4	ANDRIESKRAAL	024E42 33	33S46 37	32	559.25	0	711.25	51	0.01	v	SABC3	OPE	PBS	
5	LINMEYER	028E04 16	26S16 08	35	583.25	0	535.25	29	0.02	H	MNET	OPE	CML	
6	VERULAM	031E02 19	29S38 25	25	503.25	0	487.25	23	0.01	V	SBC1	OPE	PBS	
7	VERULAM	031E02 19	29S38 25	33	567.25	0	519.25	27	0.01	V	ETV	OPE	CML	
8	SUIDRAND	027E14 16	27S41 18	25	503.25	0	591.25	36	0.25	V	MNET	OPE	CML	
9	HOWICK	030E13 52	29S30 13	25	503.25	0	735.25	54	0.08	V	SBC1	OPE	PBS	



ANNEXURE I
DIGITAL TECHNICAL PARAMETERS

ANNEXURE I

1. Digital Planning Parameters

The Technical standards and transmission characteristics for digital broadcasting will be in accordance with the GE06 plan. These Technical standards and transmission characteristics parameters will be used for all digital television coverage and interference planning. Generally the following parameters will be used as the basis for the reference network. The following table clearly depicts the reference parameters as tabulated in the final act of ITU RRC-06 for digital network planning:

Table 1. FINAL ACTS OF ITU RRC-06 REFERENCE PARAMETERS

Details	Final Acts of ITU RRC-06	Page Number
Definitions	CHAPTER 1 TO ANNEX 2	42-48
Propagation information	CHAPTER 2 TO ANNEX 2	49-78
Technical basis for the terrestrial broadcasting service Frequency bands, reception modes, antenna considerations, location correction factors, out-of-band spectrum masks	CHAPTER 3 TO ANNEX 2	160-171
System variants, channel numbering and channel boundaries,	Annex 3.1	172-183
C/N values and minimum median field-strength values of different DVB-T system variants for different reception conditions	ANNEX 3.2	184-185
Protection ratios for terrestrial broadcasting systems	ANNEX 3.3	186-200
Calculating of minimum median field strength	ANNEX 3.4	201-202
Reference planning configurations	ANNEX3.5	203-204
Reference networks	ANNEX 3.6	205-212
Calculating of interference for single frequency networks and allotments	ANNEX 3.7	213

ANNEXURE I

Figure.1 MODULATION STANDARDS, EMISSION BROADCASTING
CHARACTERISTICS OF THE RADIATED SIGNAL FOR DIGITAL BROADCASTING

2 CHARACTERISTICS				
Nominal radio-frequency channel bandwidth (MHz)	8			
Nominal width of digital signal (MHz)	7.61			
Type of modulation	COFDM			
Number of carrier per channel	3 8K MODE		4 2K MODE	
	6817		1705	
Carrier spacing	5 8K MODE		6 2K MODE	
	1 kHz		4 kHz	
Forward error correction rates (FEC)	1/2	2/3	3/4	5/6 7/8
Guard interval	1/32	1/16	1/8	1/4
Carrier modulation scheme	64 QAM	16-QAM	QSPK	
Hierarchical modulation	$\alpha = 1$	$\alpha = 2$	$\alpha = 4$	
	Non-hierarchical	-QPSK in non-uniform 16 QAM	-QPSK in non-uniform 16 QAM	
		-QPSK in non-uniform 64-QAM	-QPSK in non-uniform 64-QAM	

ANNEXURE I

2. Single Frequency Networks**SFN operation**

The Final Acts of RRC-06 define a Single Frequency Network as “A network of synchronized transmitting stations radiating identical signals in the same RF channel. SFNs are particularly suited to provide coverage of medium to large areas within which it is intended to provide a common set of programmes with all transmitters synchronized on a single frequency”¹ (emphasis added)

SFNs offer greatly increased frequency efficiency as summarized in Figure 1 and transmitters operating within delay limits result in mutual addition of the signal powers at the receive point and thus network gain.

Self-interference in SFNs

The deployment of single frequency networks provides increased spectrum efficiency,, however, two restrictions must be adhered to limit the extent of the self interference in the network. “Firstly, for a given receiving location, the main contributing signals in an SFN come from the nearby transmitters. In order to keep these contributions constructive the time delay between them must not exceed the guard interval to any significant extent, which means that neighbouring transmitters have to keep a certain upper limit for the distance between them.

Secondly, even if the maximum separation distance for neighbouring transmitters is kept, more distant transmitters in the network may contribute destructively in such a way that **a maximum size of the SFN service area must not be exceeded** in order to keep the number of relevant self-interfering transmitters small.

The significance of self-interference, the resulting maximum separation distance between neighbouring transmitters and whether there is an overall maximum size of the SFN service area depends on the chosen guard interval, the sensitivity of the system with regard to self-interference (indicated by the relevant C/N value) and the density of the transmitters in the network.² (emphasis added).

¹ *Technical criteria of Digital Video Broadcasting Terrestrial (DVB-T) and Terrestrial – Digital Audio Broadcasting (T-DAB) allotment planning*, Electronic Communications Committee (ECC) within the European Conference of Postal and telecommunications Administrations (CEPT), ECC Report 49, Copenhagen, April 2004, Page 6.

² *Technical criteria of Digital Video Broadcasting Terrestrial (DVB-T) and Terrestrial – Digital Audio Broadcasting (T-DAB) allotment planning*, Electronic Communications Committee (ECC) within the European Conference of Postal and telecommunications Administrations (CEPT), ECC Report 49, Copenhagen, April 2004, Page 14.

ANNEXURE I

3 Single Frequency Network Optimization

Given the single frequency networks limitations, the SFN size optimization and the need to balance spectrum efficiency with self interference is vital. Whilst a larger SFN provides a higher spectrum efficiency it is also more prone to self-interference. The Institute für Rundfunktechnik analysis of the optimal SFN size for spectrum efficiency without self-interference is depicted in Figure. It shows that SFNs using 64QAM 2/3 FEC are typically limited to a service diameter of 100 to 150 km in order to restrict self-interference within the network.

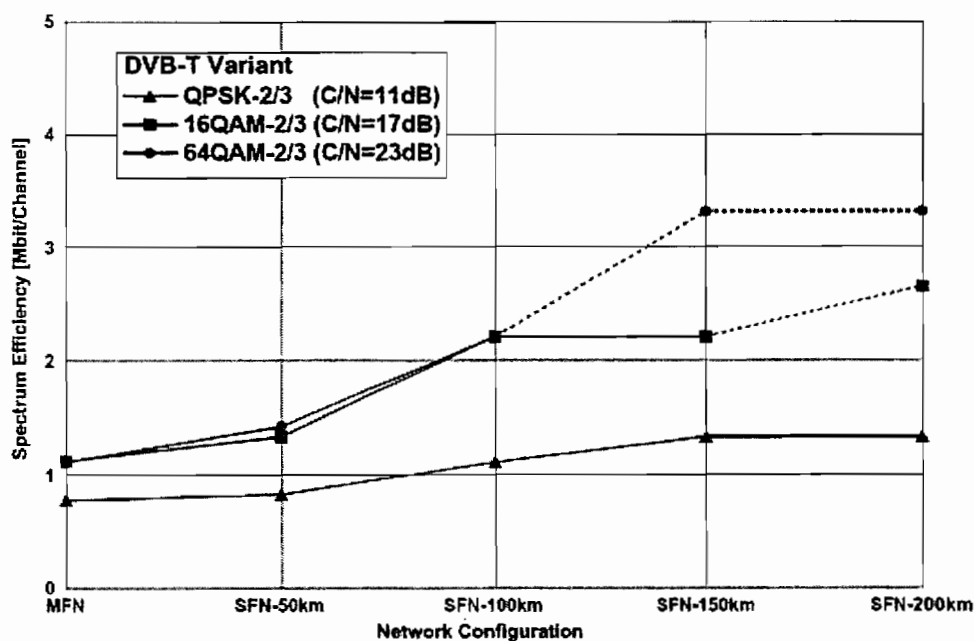


Figure.2: Spectrum efficiency of three DVB-T system variants shown in terms of possible SFN sizes (dotted lines indicate SFN sizes not considered realisable due to self-interference)³

Chapter 3 to Annex 2 of the Final Acts of RRC-06 defines reference networks to cover the different implementation requirements for DVB-T networks. Reference Network 1

³ *Digitales Terrestrisches Fernseh: Einführungs- und Umstiegszenarien*, Dr Gerd Bock, Institute für Rundfunktechnik (IRT), paper presented to the FKTG - Fernseh- und Kinotechnische Gesellschaft at the Technical University of Imenau, Germany, June 2000

ANNEXURE I

(RN 1) is indented for **large** service area SFN coverage. RN 1 assumes that main transmitter sites with an appropriate effective antenna height are used as a backbone for this type of network.

“For portable and mobile reception, the size of the real service areas for this type of SFN coverage is restricted to 150 to 200 km in diameter because of self-interference degradation, unless very rugged DVB-T system variants are used or the concept of dense networks is employed”⁴ (emphasis added). Fixed reception may be aided by the directivity of a receive antenna and extend slightly beyond these limits.

The large service area parameters prescribed and agreed to at RRC-06 are listed in Table A.3.6-1 of Annex 3.6 to Chapter 3. The table is reproduced below for easier reference.

TABLE A.3.6-1
Parameters of RN 1 (large service area SFN)

RPC and reception type	RPC 1 Fixed antenna	RPC 2 Portable outdoor and mobile	RPC 3 Portable indoor	
Type of network	Open	Open	Open	
Geometry of service area	Hexagon	Hexagon	Hexagon	
Number of transmitters	7	7	7	
Geometry of transmitter lattice	Hexagon	Hexagon	Hexagon	
Distance between transmitters <i>d</i> (km)	70	50	40	
Service area diameter <i>D</i> (km)	161	115	92	
Tx effective antenna height (m)	150	150	150	
Tx antenna pattern	Non-directional	Non-directional	Non-directional	
e.r.p.* (dBW)	Band III	34.1	36.2	40.0
	Bands IV/V	42.8	49.7	52.4

The e.r.p. is given for 200 MHz in Band III and 650 MHz in Bands IV/V; for other frequencies (*f* in MHz) the frequency correction factor to be added is: $20 \log_{10}(f/200 \text{ or } f/650)$ for RPC 1 and $30 \log_{10}(f/200 \text{ or } f/650)$ for RPC 2 and RPC 3.

* The e.r.p. values indicated in this table incorporate an additional power margin of 3 dB.

⁴ Annex 2 Chapter 3 of the Final Acts of the ITU Regional Radiocommunication Conference for planning of the digital terrestrial broadcasting service in parts of Regions 1 and 3, in the frequency bands 174-230 MHz and 470-862 MHz (RRC-06), page 205

ANNEXURE I

3. Protection ratio for Co-channel PAL-I analogue television being interfered with PAL-I analogue television

TABLE 3 II – Protection ratio

Offset in multiples of 1/12 line frequency		0	1	2	3	4	5	6	7	8	9	10	11	12
Non-precision offset (Transmitter stability ± 500 Hz)	Tropospheric interference	45	44	40	34	30	28	27	28	30	34	40	44	45
	Continuous interference	52	51	48	44	40	36	33	36	40	44	48	51	52

(Value in the first column is only valid for 0/12 case. All other values between 1/12 and 12/12 are the same by addition or subtraction of integer multiples of 12/12 up to ± 36/12.)

4. Co-channel protection (PAL-I Interfered with DVB-T)

TABLE A.3.3-23

Co-channel protection ratios (dB) for a analogue terrestrial television signal interfered with by co-channel DVB-T signal

	Tropospheric interference	Continuous interference
DVB-T 8 MHz (UHF)	34	40
DVB-T 7 MHz (VHF)	35	41

ANNEXURE I

5. Co-channel protection (DVB-T Interfered with DVB-T)

TABLE A.3.3-1

Co-channel protection ratios (dB) for a DVB-T signal interfered with by a DVB-T signal for different DVB-T variants for the case of fixed reception (FX), portable outdoor reception (PO), portable indoor reception (PI) and mobile reception (MO)

DVB-T system variant	FX	PO	PI	MO
QPSK 1/2	6.00	8.00	8.00	11.00
QPSK 2/3	8.00	11.00	11.00	14.00
QPSK 3/4	9.30	11.70	11.70	14.70
QPSK 5/6	10.50	13.00	13.00	16.00
QPSK 7/8	11.50	14.10	14.10	17.10
16-QAM 1/2	11.00	13.00	13.00	16.00
16-QAM 2/3	14.00	16.00	16.00	19.00
16-QAM 3/4	15.00	18.00	18.00	21.00
16-QAM 5/6	16.90	19.40	19.40	22.40
16-QAM 7/8	17.50	20.10	20.10	23.10
64-QAM 1/2	17.00	19.00	19.00	22.00
64-QAM 2/3	20.00	23.00	23.00	26.00
64-QAM 3/4	21.00	25.00	25.00	28.00
64-QAM 5/6	23.30	25.80	25.80	28.80
64-QAM 7/8	24.30	26.90	26.90	29.90

6. Protection ratio for lower adjacent channel interference (PAL-I interfered with PAL-I)

ANNEXURE I

TABLE 3.III – *Protection ratio for lower adjacent-channel interference (UHF bands)*

Wanted signal \ Unwanted signal	Protection ratio (dB)			
	G	H	I	K1
G	-9	-9	-9	-9
H	-9	-9	-9	+13
I	-9	-9	-9	+13
K1	-9	-9	-9	-9

7. Protection ratio for upper adjacent channel interference (PAL-I interfered with PAL-I)

GE89 qualifies that the protection ratio for upper adjacent channel interference for all analogue TV systems is -12 dB.

8. Protection ratio for lower- and upper adjacent channel interference (PAL-I interfered with DVB-T)

ANNEXURE I

TABLE A.3.3-25

Protection ratios (dB) for analogue B, D, D1, G, H, K/PAL vision signals interfered with by a DVB-T 8 MHz signal (overlapping channels)

Centre frequency of the unwanted DVB-T signal minus the vision carrier frequency of the wanted analogue television signal (MHz)	Protection ratio	
	Tropospheric interference ⁽¹⁾	Continuous interference ⁽¹⁾
-8.25	-16	-11
(<i>N</i> - 1) -5.25	-9	-5
-4.75	-4	3
-4.25	12	20
-3.75	24	30
-3.25	29	36
-2.25	33	39
-1.25	34	40
(<i>N</i>) 2.75	34	40
4.75	34	39
5.75	30	37
6.75	27	34
7.75	25	32
8.75	5	11
(<i>N</i> + 1) 9.75	-8	-5
12.75	-8	-5

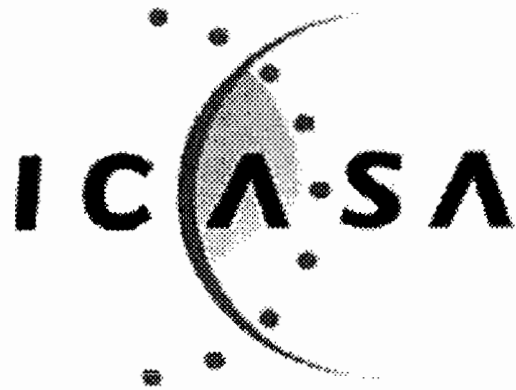
⁽¹⁾ The values for tropospheric and continuous interference have been arrived at from Table A.3.3-24 by calculation.

9. Protection ratio for lower- and upper adjacent channel interference (PAL-I interfered with DVB-T)

TABLE A.3.3-2

Protection ratios (dB) for a DVB-T signal interfered with by a DVB-T signal in the lower (*N* - 1) and upper (*N* + 1) adjacent channels

Channel	<i>N</i> - 1	<i>N</i> + 1
PR	-30	-30



ANNEXURE J
SQUARE KILOMETRE ARRAY (SKA)
AFFECTED FREQUENCIES

Annexure J: SKA affected frequencies

Table 1: Analysis of frequency assignments for VHF/FM sound broadcasting in the Northern Cape Province.

Station name	ERP(kW)	Operational assignments	Spare assignments	Existing station	Distance	RFI position
Vanwyksvlei	10	0	6	No	59	Critical
Sakrivier	10	0	6	No	78	Critical
Williston	0.02/2.0	1	5	Yes	79	Moderate
Carnarvon	10/50	3	3	Yes	103	Critical
Brandvlei	10	0	6	No	109	Critical
Prinshof	5	0	6	No	156	Critical
Fraserburg	30	0	6	No	161	Critical
Calvinia	1/10/50	2	4	Yes	165	Critical
Prieska	9	4	3	Yes	169	Critical
Loeriesfontein	10	0	1	No	182	Moderate
Granaatboskolk	10	0	10	No	184	Moderate
Beaufort West	0.5/1/10/50	5	2	Yes	206	Moderate
Upington	1/8/10	4	3	Yes	207	Moderate
Victoria West	4/5	2	3	Yes	212	Moderate
Niekerkshoop	10	0	6	No	214	Moderate
Houmoed	50	0	6	No	217	Critical
Gamoep	1	0	5	No	251	Minor
Augrabies	10	0	6	No	256	Moderate
De Aar	10/1	3	4	Yes	257	Moderate
Van Rhynsdorp	3/17/50	4	2	Yes	276	Moderate
Lombaardsvlakte	10	0	6	No	278	Moderate
Douglas	9/10	3	3	Yes	280	Moderate
Pofadder	5	3	3	Yes	281	Moderate
Upington North	10	0	1	No	307	Moderate
Garies	2.6/3	3	3	Yes	314	Low
Danielskuil	50	0	5	No	352	Moderate
Springbok	17/50	3	3	Yes	360	Moderate
Noenieput	10	0	6	No	361	Low
Kalahari	10	0	4	No	375	Low
Kuruman Hills	11/1	4	3	Yes	381	Low
Kuruman 1	1	1	0	Yes	399	Minor
Steinkopf	10	0	1	No	403	Minor
Faans Grove	5	2	4	Yes	415	Minor
Kuruman	3.8/10	1	2	Yes	420	Minor
Mier	20	0	4	No	457	Minor
Debeersrus	10	0	6	No	465	Minor
Ganyesa	2/3/5	1	2	Yes	539	Negligible

Annexure J: SKA affected frequencies

Table 2: Analysis of analogue VHF and UHF television broadcasting in the Northern Cape Province

Station name	ERP(kW)	Operational assignments	Spare assignments	Existing station	Distance	RFI position
Vanwyksvlei	500	0	2	No	59	Extreme
Williston	0.5/1	1	5	Yes	79	Critical
Carnarvon	10	1	4	Yes	103	Critical
Brandvlei	500	0	2	No	109	Extreme
Fraserburg	10/500	0	5	No	161	Extreme
Calvinia	10	1	5	Yes	165	Critical
Prieska	10/500	1	4	Yes	169	Extreme
Sutherland	10/500	0	3	No	203	Extreme
Beaufort West	1.6/4/10 /13/56	3	2	Yes	206	Critical
Upington	100/112 /200	1	4	Yes	207	Extreme
Victoria West	0.5/500	1	2	Yes	212	Extreme
Niekerkshoop	500	0	2	No	214	Extreme
Houmoed	50	0	2	No	217	Critical
Upington Town	0.4	2	0	Yes	245	Low
Gamoep	500	0	2	No	251	Critical
Augrabies	500	0	2	No	256	Critical
De Aar	10/100 /500	2	3	Yes	257	Critical
Pofadder Dorp	0.1	1	0	Yes	259	Minor
Van Rhynsdorp	100/500	2	5	Yes	276	Critical
Lombaards- vlakte	10	0	2	No	278	Low
Douglas	10	0	6	Yes	280	Low
Pofadder	2.5/10	1	3	Yes	281	Low
Garies	13/200 /500	1	4	Yes	314	Critical
Noupoort	1/10	1	5	Yes	351	Low
Colesberg	0.5	1	1	Yes	357	Minor
Springbok	10	2	3	Yes	360	Low
Noenieput	200/500	0	4	No	361	Moderate
Kalahari	500	0	2	No	375	Moderate
Kuruman Hills	126/500	3	2	Yes	381	Moderate
Steinkopf	500	0	2	No	403	Moderate
Faans Grove	200/500	0	4	Yes	415	Moderate
Kuruman	5	0	2	Yes	420	Minor
Mier	500	0	2	No	457	Moderate
Debeersrus	500	0	2	No	465	Moderate
Grootderm	1	0	2	No	481	Negligible
Alexander Bay	0.1	4	0	Yes	521	Negligible

Annexure J: SKA affected frequencies

Table 3: Analysis of Analogue Self-Help television frequency assignments in the Northern Cape Province

Station name	ERP(kW)	Operational assignments	Distance	RFI position
Williston Tweemik	0.005	1	16	Critical
Williston Heuningberg	0.001	1	22	Critical
Williston Grootmeestersklip	0.004	1	40	Critical
Brandvlei Rode se Put	0.016	1	77	Critical
Williston	0.004	3	81	Moderate
Carnarvon	0.004	2	82	Moderate
Brandvlei	0.006	4	85	Moderate
Williston Lukasfontein	0.079	1	116	Moderate
Fraserburg Burgerpos	0.001	1	126	Minor
Loxton	0.006	3	130	Minor
Fraserburg	0.005	5	136	Minor
Granaatboskolk Loop 10	0.004	1	137	Minor

Annexure J: SKA affected frequencies

Sutherland Elandsrivier	0.005	1	148	Minor
Kenhardt	0.004/0.008	4	152	Minor
Bo-treintjiesplaas	0.004	1	153	Minor
Sutherland Middel Rietrivier	0.004	1	159	Minor
Marydale	0.002	3	162	Minor
Fraserburg Tafelkop	0.016	1	162	Moderate
Calvinia	0.032	3	169	Moderate
Middelpos	0.006	1	171	Minor
Sutherland Tafelbergplaat	0.004	1	173	Minor
Sutherland Renosterrivier	0.003	1	174	Minor
Prieska	0.001	3	180	Negligible
Loeriesfontein	0.008	3	181	Minor
Victoria West	0.004	5	188	Negligible
Sutherland Merino	0.002	1	188	Negligible
Calvinia Naresie	0.003	1	191	Negligible
Sutherland Observatory	0.003	1	192	Negligible
Sutherland	0.004	4	197	Negligible
Bo-visrivier	0.007	1	198	Negligible
Sutherland Rhebokfontein	0.013	1	198	Negligible
Sutherland Vyfffontein	0.001	1	203	Negligible
Groblershoop	0.004	3	207	Negligible
Pofadder Willem se Opdam	0.002	1	208	Negligible
Bo-visrivier Driefontein	0.003	1	209	Negligible
Britstown	0.004	2	209	Negligible
Niekerkshoop	0.004	4	212	Negligible
Keimoes	0.016	5	223	Negligible
Kakamas	0.005/0.008	4	224	Negligible
Sutherland Welgemoed	0.003	1	225	Negligible
Nieuwoudtville	0.02	4	227	Negligible
Upington Town	0.05/0.1	2	245	Negligible
De Aar	0.005/0.016	3	258	Negligible
Pofadder Town	0.079/0.1	5	259	Negligible
Richmond NCP	0.004	4	264	Negligible
Riemvasmaak Sending	0.004	4	267	Negligible
Riemvasmaak Vredesvallei	0.008	4	269	Negligible
Kakamas Seekoeisteek	0.006	1	279	Negligible
Pella Mission	0.005	3	280	Negligible
Aggeneys Blackmountain	0.251	1	281	Negligible
Aggeneys Blackmountain 2	0.004	3	289	Negligible
Onseepkans	0.004	4	291	Negligible
Hopetown	0.01	4	291	Negligible
Onseepkans sending	0.004	4	294	Negligible
Pofadder Kleinpella	0.003	1	295	Negligible
Paulshoek	0.004	4	296	Negligible
Leleiefontein	0.004	3	313	Negligible
Postmasburg	0.002	1	314	Negligible
Strandfontein	0.005	2	316	Negligible
Gariesfontein	0.001	1	319	Negligible
Petrusville	0.004	4	327	Negligible
Lime Acres	0.006/0.005 /0.004	5	333	Negligible
Vanwyksdorp	0.005	1	335	Negligible
Vanderkloof	0.004	3	337	Negligible

Annexure J: SKA affected frequencies

Lohatlha	0.016	1	347	Negligible
Concordia	0.004	4	350	Negligible
Springbok Matjieskloof	0.001	3	350	Negligible
Springbok Bergsig	0.001	3	350	Negligible
Springbok Town	0.025/0.013 /0.003	4	350	Negligible
Noupoort	0.003	3	351	Negligible
Danielskuil	0.004/0.005	2	354	Negligible
Goodhouse	0.004	4	359	Negligible
Colesberg	0.004	2	360	Negligible
Nababeep	0.05/0.1	3	360	Negligible
Colesberg	0.006	1	361	Negligible
Steinkopf Henkries	0.003	1	367	Negligible
Sishen/Kathu ISCOR	0.02	3	368	Negligible
Buffelsrivier	0.004	4	375	Negligible
Steinkopf	0.004	4	381	Negligible
Komaggas	0.004	4	382	Negligible
Hondeklipbaai	0.005	2	390	Negligible
Koingnaas	0.003	5	390	Negligible
Askham	0.05	4	415	Negligible
Kuruman Municipality	0.016	2	416	Negligible
Steinkopf Vioolsdrif	0.001	1	417	Negligible
Hotazel	0.05	2	421	Negligible
Kleinsee	0.002/0.006	5	424	Negligible
Hotazel Black Rock	0.008/0.013	2	424	Negligible
Askham Bloukrans	0.025	1	427	Negligible
Mier	0.05	4	449	Negligible
Lekkering	0.004	4	450	Negligible
Port Nolloth	0.008/0.005	5	458	Negligible
Grootderm Kuboes	0.002	4	488	Negligible
Richtersveld Khubus	0.005	3	488	Negligible
Grootderm Kodaspiek	0.005	1	501	Negligible
Grootderm Baken	0.003/0.005	2	507	Negligible
Grootderm Brandkaros	0.001	1	514	Negligible
Grootderm Sendelingsdrift	0.001	2	516	Negligible

Annexure J: SKA affected frequencies

Table 4: Analysis of Digital Terrestrial Television frequency assignments in the Northern Cape Province

Station name	ERP(kW)	Number of assignments	Existing station	Distance	RFI position
Vanwyksvlei	200	2	No	59	Extreme
Williston	10	2	Yes	79	Critical
Carnarvon	10	2	Yes	103	Critical
Brandvlei	200	2	No	109	Extreme
Fraserburg	10	2	No	161	Critical
Calvinia	10	2	Yes	165	Critical
Prieska	200	2	Yes	169	Extreme
Sutherland	10	2	No	203	Critical
Beaufort West	56.1/60	2	Yes	206	Critical
Upington	100	2	Yes	207	Critical
Victoria West	10	2	Yes	212	Critical
Niekerkshoop	10	2	No	214	Critical
Houmoed	50	2	No	217	Critical
Upington Town	0.4/0.38	2	Yes	245	Minor
Gamoep	200	2	No	251	Critical
Augrabies	200	2	No	256	Critical
De Aar	200	2	Yes	257	Critical
Van Rhynsdorp	200	2	Yes	276	Critical
Lombaardsvlakte	10	2	No	278	Low
Douglas	10	2	Yes	280	Low
Pofadder	10	2	Yes	281	Low
Garies	200	2	Yes	314	Moderate
Noupoort	1	2	Yes	351	Minor
Colesberg	0.5	2	Yes	357	Minor
Springbok	10	2	Yes	360	Low
Noenieput	10	2	No	361	Low
Kalahari	10	2	No	375	Low
Kuruman Hills	10	2	Yes	381	Low
Steinkopf	10	2	No	403	Minor
Faans Grove	200	2	Yes	415	Moderate
Kuruman	5	2	Yes	420	Minor
Mier	10	2	No	457	Minor
Debeersrus	200	2	No	465	Low
Grootderm	1	2	No	481	Negligible
Alexander Bay	0.1	2	Yes	521	Negligible