

Exhibit 42 - Statement B
PRINCIPAL COMMUNITY COVERAGE CONSIDERATIONS
prepared for
Mike Simons
KTAQ-DT Greenville, Texas
Facility ID 42359
Ch. 46 600 kW 496 m

Present Commission Policy, during the initial portion of the DTV transition period, requires that a minimum field strength of 41 dBμ be provided over the entire principal community to be served (in this case, Greenville, Texas). The instant proposal meets the requirement using the standard FCC contour prediction method. However, Section 73.625(a) of the FCC Rules requires that a minimum field strength of 48 dBμ be provided over the principal community.¹ In this instance, when the standard prediction methods of Section 73.625(b) are employed for the proposed modified operation, the resulting 48 dBμ contour location would suggest that the community of Greenville would not be properly served by the instant proposal. However, as demonstrated herein, when a traditionally accepted alternative method is employed, sufficient 48 dBμ coverage is achieved over all of Greenville.

Prediction Methods

It is ordinarily required that coverage of a DTV station be predicted using the methods outlined in Section 73.625(b)(1) of the FCC Rules. However, sufficient FCC precedent exists to permit the use of a supplemental showing concerning calculation of the contours by other means. It is well known that the FCC method of computing contours does not accurately predict the coverage actually achieved in every circumstance, hence the use of a more precise propagation model may be warranted in certain circumstances.

Supplemental Method

For purposes of this study, the Irregular Terrain Model (ITM) developed by the National Telecommunications and Information Administration (NTIA) was employed. The ITM version employed is that available through the "Probe II" software program provided by *V-Soft Communications*. The "Probe II" program employs the ITM broadcast model to generate

¹The 48 dBμ principal community coverage requirement will be effective for operation on December 31, 2004. See Report and Order and Further Notice of Proposed Rulemaking in MM Docket 00-39, FCC 01-24, released January 19, 2001.

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predicted field strengths at regular intervals along incremental bearings from a transmitter site.² The ITM is based on the Longley-Rice propagation model, which uses the methods described in National Bureau of Standards, Technical Note 101.

Specifically, the ITM performs complex calculation of the propagation path between the transmitter and receiver site, including the terrain along the path, to determine the predicted field strength at the receiving antenna. This method is generally considered to be more accurate for specific cases than the standard FCC prediction curve method.

Analysis of Results

The program employed provides an output listing that shows the predicted field strength every 0.1 kilometers along the incremental radial bearings. This data is provided in **Exhibit 42 - Table I**. The 48 dB μ contour can be easily determined by inspection as the point where the signal falls below 48 dB μ . These points are highlighted in bold in **Exhibit 42 - Table I**.³

The resulting 48 dB μ distance contour data is summarized in **Exhibit 42 - Table II** and incorporated in the map presentations of **Exhibit 42 - Figures 1 and 2**. Also included in **Exhibit 42 - Table II** is a comparative tabulation of the resulting distances to the 48 dB μ contour (for every degree of azimuth over the range of angles spanning Greenville) under the FCC method. As demonstrated therein, the coverage predictions developed under the alternative method yields, at least, a ten percent or greater extension of the 48 dB μ coverage beyond that which would be achieved under the standard method.

²For purposes of this showing, the ITM was used in the broadcast mode with the transmitter, antenna, and frequency parameters being those specified in the instant application. A cell size of 0.1 km was employed. Propagation predictions were made starting from the transmitter site and ending 200 km from the site. The bearings employed were at a 1 degree increments across and either side of the community of Greenville (from 47° to 57° T). The ITM computer program input data, following established guidelines, includes a situation of 50%, a time availability of 90%, horizontal polarization, 0.005 S/m conductivity, a dielectric constant of 15, an assumption of a continental temperate zone, and a receiver height of 10 meters. Detailed calculations have not been included as the method employed (the ITM) has generally been accepted by the FCC in the past for similar studies, and the computer program employed is not equipped to provide such sample calculations.

³ Although the study was performed to a distance of 200 km from the proposed transmitter site, only data to 132 km from the transmitter site is provided in the table.

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Conclusion

The coverage map of **Exhibit 42 - Figure 1** shows the 48 dB μ coverage of the proposed operation as predicted by the standard FCC method and the supplemental method described herein (the “ITM method”), along, with the 41 dB μ contour as predicted by the standard FCC method. **Exhibit 42 - Figure 2** provided a detail view of the predicted coverage contours. As shown thereon, Greenville is wholly encompassed by the 48 dB μ contour as developed with the ITM method, and also by the FCC standard method 41dB μ contour. Therefore, it is believed that this coverage map demonstrates the proposal’s compliance with the requirements of Section 73.625(a)(1) of the FCC Rules.

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA

prepared for
Mike Simons
KTAQ-DT Greenville, Texas
Facility ID 42359
Ch. 46 600 kW (MAX-DA) 496 m

Signal Strength (dBμ)

Distance	Azimuth												
<u>(km)</u>	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
0.0	138.22	138.22	138.22	138.22	138.22	138.22	138.22	138.22	138.22	138.22	138.22	138.22	138.22
0.1	134.30	134.30	134.30	134.30	134.30	134.30	136.30	136.30	136.30	136.30	136.30	136.30	136.30
0.2	134.30	134.30	134.30	134.30	134.30	134.30	128.91	128.91	128.91	128.91	128.91	128.91	128.91
0.3	128.68	128.68	128.68	128.68	128.68	128.68	128.68	128.68	128.68	128.68	128.68	128.68	128.68
0.4	125.29	125.29	125.29	125.29	125.29	125.29	125.62	125.62	125.62	125.62	125.62	125.62	125.62
0.5	123.61	122.86	123.23	123.23	123.23	123.23	123.23	123.23	123.23	123.23	123.23	123.23	123.23
0.6	122.86	122.86	122.86	122.86	122.86	122.86	121.34	121.34	121.34	121.34	121.00	121.00	121.00
0.7	120.96	120.96	120.96	120.96	120.96	120.96	121.34	121.34	121.34	121.34	119.54	119.54	119.54
0.8	119.41	119.41	119.41	119.41	119.78	119.78	119.78	119.78	119.78	119.78	119.78	119.78	118.04
0.9	118.61	119.41	119.41	118.45	118.45	118.45	118.45	118.45	118.45	118.29	118.29	118.29	118.29
1.0	118.09	118.09	118.09	118.09	118.09	118.09	117.18	117.18	117.18	117.18	117.18	117.18	117.18
1.1	116.94	116.94	116.94	116.94	117.30	117.30	117.30	117.30	116.19	116.19	116.00	116.00	116.00
1.2	116.34	116.34	115.93	116.28	116.28	116.28	116.28	116.28	116.19	116.19	115.15	115.15	115.15
1.3	115.39	115.93	115.93	115.93	115.37	115.37	115.30	115.30	115.30	115.30	115.30	115.15	114.17
1.4	115.02	115.02	115.02	115.02	115.02	115.37	114.49	114.49	114.49	114.49	114.37	114.37	114.37
1.5	114.54	114.20	114.20	114.55	114.55	114.55	114.55	114.55	113.65	113.65	113.65	113.65	113.49
1.6	113.76	113.76	114.20	113.79	113.79	113.79	113.75	113.75	113.75	112.98	112.98	112.85	112.85
1.7	113.05	113.45	113.45	113.45	113.45	113.06	113.06	113.06	113.06	112.98	112.25	112.25	112.25
1.8	113.05	112.76	112.76	112.76	113.10	113.10	112.42	112.42	112.36	112.36	112.36	112.25	111.54
1.9	112.39	112.39	112.12	112.45	112.45	112.45	112.42	111.77	111.77	111.77	111.68	111.68	111.68
2.0	111.78	111.78	112.12	112.12	111.85	111.83	111.83	111.83	111.22	111.14	111.14	111.14	111.03
2.1	111.44	111.53	111.53	111.53	111.85	111.27	111.27	111.27	111.22	111.22	110.64	110.54	110.54
2.2	111.20	111.20	110.97	111.27	111.27	111.27	110.71	110.71	110.71	110.64	110.64	110.07	109.96
2.3	110.67	110.67	110.97	110.73	110.73	110.75	110.75	110.22	110.16	110.16	110.16	110.07	109.52
2.4	110.16	110.16	110.44	110.44	110.22	110.26	110.26	110.22	109.70	109.70	109.63	109.63	109.11
2.5	109.88	109.95	109.95	109.95	110.22	109.79	109.76	109.76	109.76	109.20	109.20	109.20	109.11
2.6	109.68	109.68	109.48	109.74	109.74	109.74	109.32	109.32	109.27	109.27	108.79	108.71	108.71
2.7	109.23	109.23	109.48	109.28	109.28	109.34	109.34	108.85	108.85	108.85	108.79	108.33	108.24
2.8	108.98	109.04	109.04	109.04	108.92	108.92	108.90	108.90	108.46	108.41	108.41	107.89	107.89

Cavell, Mertz & Davis, Inc.

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
2.9	108.56	108.80	108.62	108.85	108.85	108.52	108.50	108.50	108.46	108.03	107.97	107.97	107.45
3.0	108.39	108.39	108.39	108.43	108.43	108.52	108.11	108.08	108.08	107.61	107.61	107.61	107.54
3.1	108.16	107.99	108.21	108.21	108.13	108.13	108.11	107.72	107.72	107.67	107.27	107.21	107.21
3.2	107.78	107.99	107.83	107.83	108.04	107.77	107.75	107.75	107.33	107.33	107.27	106.89	106.81
3.3	107.41	107.62	107.46	107.66	107.66	107.39	107.39	107.37	106.99	106.95	106.95	106.51	106.51
3.4	107.41	107.26	107.46	107.30	107.41	107.41	107.03	107.03	106.99	106.63	106.57	106.57	106.14
3.5	107.06	106.91	107.11	107.11	107.07	107.07	107.06	106.71	106.67	106.67	106.27	106.21	106.21
3.6	106.72	106.91	106.77	106.95	106.95	106.73	106.73	106.36	106.36	106.32	105.98	105.92	105.85
3.7	106.39	106.58	106.58	106.62	106.62	106.42	106.39	106.39	106.03	106.03	105.98	105.64	105.58
3.8	106.39	106.26	106.44	106.44	106.43	106.43	106.09	106.09	106.06	105.70	105.70	105.31	105.31
3.9	106.08	106.08	106.12	106.12	106.12	106.11	106.11	105.77	105.77	105.42	105.37	105.37	104.99
4.0	106.32	106.14	106.14	106.23	106.23	106.08	105.80	105.88	105.56	105.56	105.41	105.13	105.22
4.1	106.45	106.52	106.52	106.55	106.41	106.44	106.16	106.16	105.94	105.68	105.73	105.48	105.22
4.2	106.63	106.63	106.68	106.68	106.70	106.44	106.45	106.19	106.21	105.97	105.73	105.71	105.50
4.3	106.85	106.85	106.86	106.80	106.92	106.70	106.45	106.48	106.21	106.16	105.94	105.70	105.49
4.4	106.89	106.92	106.92	106.94	106.92	106.87	106.70	106.36	106.36	106.07	105.89	105.89	105.67
4.5	106.96	106.98	106.95	107.00	107.01	106.71	106.71	106.57	106.24	106.24	106.01	105.84	105.81
4.6	106.93	106.93	106.96	107.00	106.97	106.85	106.58	106.58	106.35	106.18	106.13	105.97	105.81
4.7	106.88	106.88	106.92	106.95	106.96	106.85	106.72	106.50	106.50	106.28	106.13	106.05	105.90
4.8	106.77	106.82	106.82	106.85	106.96	106.77	106.73	106.47	106.42	106.19	106.14	105.85	105.79
4.9	106.59	106.70	106.74	106.74	106.77	106.77	106.51	106.28	106.24	106.19	105.90	105.90	105.64
5.0	106.59	106.52	106.56	106.66	106.59	106.59	106.32	106.28	106.04	106.00	105.72	105.67	105.42
5.1	106.41	106.45	106.45	106.48	106.59	106.42	106.15	106.09	105.82	105.77	105.56	105.50	105.45
5.2	106.24	106.34	106.38	106.31	106.41	106.21	106.15	105.94	105.88	105.62	105.56	105.29	105.29
5.3	106.07	106.17	106.20	106.31	106.23	106.25	106.01	105.74	105.74	105.48	105.42	105.16	105.09
5.4	106.07	106.00	106.10	106.13	106.09	106.09	105.86	105.80	105.55	105.48	105.22	105.22	104.96
5.5	105.91	105.93	105.93	105.96	106.06	105.89	105.66	105.66	105.41	105.35	105.10	105.03	104.77
5.6	105.74	105.84	105.86	105.79	105.89	105.73	105.70	105.46	105.41	105.22	105.16	104.92	104.66
5.7	105.65	105.67	105.70	105.79	105.76	105.76	105.55	105.33	105.28	105.04	104.98	104.73	104.73
5.8	105.58	105.63	105.61	105.63	105.62	105.58	105.37	105.37	105.15	104.96	104.87	104.63	104.56
5.9	105.64	105.63	105.69	105.73	105.70	105.60	105.42	105.28	105.10	104.96	104.90	104.75	104.55
6.0	105.65	105.69	105.74	105.73	105.77	105.68	105.55	105.38	105.18	105.05	104.82	104.69	104.47
6.1	105.68	105.72	105.73	105.78	105.76	105.68	105.49	105.41	105.31	105.08	104.95	104.74	104.51
6.2	105.67	105.67	105.72	105.74	105.77	105.67	105.49	105.41	105.21	104.97	104.86	104.64	104.51

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LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
6.3	105.61	105.66	105.71	105.71	105.75	105.66	105.48	105.40	105.20	105.09	104.87	104.64	104.53
6.4	105.55	105.61	105.65	105.71	105.73	105.56	105.48	105.30	105.19	105.08	104.86	104.76	104.55
6.5	105.49	105.54	105.60	105.64	105.68	105.63	105.46	105.27	105.19	104.95	104.75	104.64	104.42
6.6	105.49	105.49	105.52	105.57	105.64	105.58	105.42	105.22	105.13	104.92	104.83	104.63	104.40
6.7	105.43	105.47	105.50	105.57	105.62	105.47	105.29	105.22	105.01	104.80	104.72	104.48	104.40
6.8	105.36	105.40	105.45	105.49	105.54	105.40	105.36	105.17	104.96	104.88	104.67	104.46	104.35
6.9	105.28	105.36	105.39	105.40	105.44	105.43	105.31	105.13	104.91	104.84	104.66	104.46	104.22
7.0	105.28	105.34	105.29	105.23	105.36	105.31	105.21	105.01	104.91	104.74	104.57	104.47	104.26
7.1	105.14	105.20	105.12	105.23	105.32	105.25	105.17	105.09	104.91	104.73	104.64	104.47	104.20
7.2	105.02	105.10	105.08	105.12	105.24	105.22	105.20	105.05	104.87	104.70	104.54	104.34	104.02
7.3	104.97	105.01	105.04	105.10	105.27	105.27	105.09	104.94	104.76	104.70	104.51	104.27	104.15
7.4	104.97	105.00	105.05	105.21	105.27	105.19	105.05	104.91	104.84	104.66	104.48	104.27	104.08
7.5	104.91	104.96	105.01	105.14	105.25	105.14	105.15	104.96	104.82	104.55	104.39	104.29	104.14
7.6	104.84	104.91	105.02	105.12	105.65	105.73	105.15	105.22	105.14	105.04	104.64	104.64	104.35
7.7	104.78	104.88	105.24	105.81	105.97	105.73	105.78	105.84	105.75	105.37	104.96	104.96	104.88
7.8	104.82	105.19	105.89	105.86	106.23	106.22	106.24	106.28	105.75	105.63	105.53	105.43	105.16
7.9	105.03	105.15	105.75	106.60	106.72	106.70	106.47	106.28	106.17	106.09	105.96	105.47	105.21
8.0	105.61	105.74	106.40	106.95	106.90	106.89	106.72	106.65	106.57	106.27	106.00	105.72	105.55
8.1	106.16	106.23	106.94	107.01	107.00	107.05	107.07	107.00	106.74	106.53	106.28	106.06	105.60
8.2	106.42	106.23	106.78	107.03	107.12	107.27	107.13	107.08	106.93	106.75	106.33	106.13	105.84
8.3	106.60	106.67	106.99	107.14	107.27	107.29	107.25	107.15	107.03	106.77	106.56	106.32	105.84
8.4	106.98	107.05	107.17	107.28	107.37	107.35	107.32	107.26	107.05	106.96	106.74	106.31	106.07
8.5	107.12	107.35	107.36	107.29	107.37	107.42	107.39	107.30	107.22	107.06	106.73	106.53	106.33
8.6	107.12	107.35	107.45	107.53	107.53	107.53	107.50	107.42	107.34	107.07	106.91	106.57	106.43
8.7	107.16	107.50	107.61	107.57	107.63	107.68	107.62	107.46	107.34	107.21	106.95	106.63	106.58
8.8	107.46	107.53	107.58	107.48	107.62	107.77	107.62	107.58	107.50	107.24	106.85	106.60	106.71
8.9	107.51	107.53	107.58	107.52	107.47	107.77	107.83	107.82	107.58	107.20	106.68	106.82	106.77
9.0	107.67	107.73	107.73	107.69	107.55	107.71	107.95	107.88	107.44	107.06	106.76	106.77	106.97
9.1	107.87	107.91	107.93	107.76	107.77	107.74	107.88	107.58	107.34	107.06	106.93	107.12	107.34
9.2	107.92	108.07	108.03	107.99	108.01	107.82	107.76	107.67	107.34	107.25	107.23	107.62	107.65
9.3	108.09	108.07	108.11	108.10	108.01	107.93	107.85	107.63	107.55	107.48	107.90	107.95	107.74
9.4	108.19	108.22	108.26	108.28	108.21	108.14	107.92	107.85	107.78	107.90	108.23	108.03	107.89
9.5	108.40	108.40	108.46	108.43	108.44	108.23	108.16	108.09	107.87	108.23	108.28	108.17	107.96
9.6	108.44	108.49	108.46	108.51	108.66	108.46	108.38	108.10	108.01	108.23	108.40	108.24	108.17

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LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
9.7	108.62	108.61	108.66	108.67	108.66	108.60	108.38	108.22	108.03	108.18	108.47	108.43	108.23
9.8	108.72	108.76	108.81	108.80	108.85	108.80	108.56	108.34	108.07	108.13	108.63	108.57	108.41
9.9	108.79	108.83	108.92	108.97	109.03	108.85	108.73	108.28	107.87	108.25	108.46	108.58	108.52
10.0	108.96	109.00	108.98	109.03	109.03	109.02	108.77	108.41	107.85	108.25	108.46	108.56	108.57
10.1	109.11	109.10	109.14	109.09	109.18	109.13	108.94	108.74	108.04	108.25	108.44	108.66	108.66
10.2	109.11	109.24	109.22	109.15	109.27	109.13	109.05	108.66	108.28	108.17	108.51	108.58	108.47
10.3	109.23	109.29	109.22	109.13	109.29	109.27	109.08	108.75	108.24	108.14	108.51	108.50	108.36
10.4	109.13	109.18	109.10	109.11	109.23	109.22	109.05	108.68	108.42	108.28	108.32	108.51	108.28
10.5	109.04	109.06	109.12	109.12	109.14	109.12	109.01	108.68	108.53	108.30	108.32	108.39	108.41
10.6	108.92	109.01	109.16	109.10	109.11	109.01	108.88	108.78	108.55	108.45	108.27	108.33	108.16
10.7	109.03	109.13	109.16	109.16	109.18	109.10	108.95	108.78	108.67	108.48	108.41	108.23	108.05
10.8	109.08	109.21	109.20	109.19	109.23	109.10	109.04	108.88	108.69	108.61	108.43	108.26	108.18
10.9	109.19	109.21	109.28	109.30	109.31	109.21	109.04	108.96	108.81	108.63	108.56	108.38	108.22
11.0	109.24	109.21	109.28	109.39	109.30	109.20	109.14	108.98	108.90	108.73	108.56	108.48	108.30
11.1	109.11	109.04	109.14	109.28	109.22	109.01	108.96	109.04	108.92	108.84	108.67	108.50	108.32
11.2	109.02	108.99	108.97	109.14	109.16	108.99	109.00	109.10	109.02	108.85	108.77	108.60	108.43
11.3	108.99	108.98	109.00	109.08	109.13	109.00	108.94	109.19	109.11	108.95	108.78	108.59	108.40
11.4	109.06	109.05	109.00	109.05	109.14	109.01	108.96	109.22	109.11	108.99	108.87	108.62	108.28
11.5	109.10	109.21	109.15	109.11	109.15	109.07	108.97	109.01	109.11	108.99	108.87	108.77	108.18
11.6	109.40	109.21	109.46	109.30	109.24	109.13	109.00	108.96	108.93	108.97	108.95	108.64	108.20
11.7	109.68	109.60	109.64	109.52	109.36	109.17	109.07	108.95	108.91	108.95	108.91	108.66	108.28
11.8	109.68	109.74	109.76	109.67	109.45	109.29	109.10	108.99	108.90	108.89	108.80	108.53	108.28
11.9	109.71	109.74	109.77	109.60	109.48	109.46	109.23	109.00	108.90	108.88	108.77	108.56	108.36
12.0	109.74	109.77	109.76	109.66	109.59	109.57	109.40	109.13	108.93	108.87	108.77	108.66	108.44
12.1	109.76	109.79	109.76	109.78	109.75	109.61	109.40	109.22	109.01	108.87	108.78	108.62	108.44
12.2	109.77	109.81	109.82	109.78	109.90	109.73	109.48	109.22	108.99	108.83	108.79	108.65	108.47
12.3	109.79	109.81	109.86	109.88	109.90	109.82	109.55	109.29	109.09	108.83	108.76	108.58	108.45
12.4	109.82	109.83	109.85	109.90	109.93	109.82	109.46	109.31	109.10	108.87	108.71	108.57	108.46
12.5	109.84	109.88	109.88	109.90	109.94	109.84	109.56	109.23	109.05	108.85	108.71	108.54	108.42
12.6	109.96	109.93	109.91	109.92	109.94	109.81	109.58	109.31	109.12	108.92	108.73	108.58	108.46
12.7	110.02	109.98	109.93	109.94	109.95	109.76	109.52	109.30	109.23	109.02	108.83	108.65	108.49
12.8	110.05	109.96	109.93	109.93	109.96	109.83	109.63	109.43	109.23	109.00	108.82	108.67	108.48
12.9	110.09	109.98	109.93	109.93	109.97	109.88	109.72	109.55	109.32	109.09	108.86	108.72	108.58
13.0	110.04	109.99	109.93	109.94	109.97	109.84	109.71	109.53	109.27	109.04	108.86	108.69	108.55

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
13.1	110.04	109.98	109.95	109.95	109.97	109.85	109.72	109.60	109.31	109.08	108.90	108.74	108.57
13.2	110.03	109.99	109.95	109.97	109.97	109.89	109.73	109.61	109.41	109.10	108.92	108.76	108.57
13.3	110.02	110.00	109.97	109.96	109.98	109.85	109.73	109.57	109.31	109.10	108.87	108.73	108.59
13.4	110.04	110.01	109.99	109.98	109.99	109.86	109.73	109.55	109.34	109.14	108.89	108.75	108.62
13.5	110.03	110.02	110.01	109.99	109.99	109.86	109.74	109.61	109.39	109.21	108.89	108.76	108.64
13.6	110.04	110.02	110.01	109.99	109.99	109.86	109.70	109.56	109.39	109.20	108.99	108.84	108.72
13.7	110.05	110.06	110.03	109.99	109.99	109.85	109.74	109.62	109.47	109.30	109.11	108.95	108.72
13.8	110.05	110.09	110.06	110.00	109.97	109.85	109.78	109.72	109.54	109.30	109.10	108.95	108.81
13.9	110.07	110.09	110.04	110.00	109.96	109.87	109.84	109.72	109.51	109.30	109.16	109.00	108.78
14.0	110.07	110.10	110.07	110.05	109.98	109.90	109.95	109.79	109.52	109.33	109.13	108.96	108.79
14.1	110.05	110.09	110.07	110.09	110.08	109.98	109.93	109.83	109.52	109.29	109.13	109.00	108.78
14.2	110.04	110.06	110.08	110.11	110.11	110.03	109.93	109.75	109.55	109.30	109.13	108.96	108.78
14.3	110.04	110.06	110.08	110.13	110.17	110.03	109.92	109.75	109.57	109.37	109.09	108.95	108.79
14.4	110.00	110.03	110.06	110.11	110.14	110.06	109.88	109.78	109.52	109.31	109.13	108.96	108.77
14.5	109.95	109.97	110.02	110.05	110.09	110.00	109.82	109.71	109.58	109.36	109.10	108.92	108.80
14.6	109.89	109.94	110.00	110.04	110.09	109.94	109.83	109.66	109.55	109.33	109.15	108.98	108.75
14.7	109.89	109.93	109.95	110.01	110.05	109.90	109.78	109.60	109.49	109.37	109.14	108.93	108.75
14.8	109.84	109.89	109.93	109.96	110.00	109.92	109.72	109.61	109.44	109.34	109.05	108.91	108.79
14.9	109.81	109.85	109.89	109.92	110.00	109.85	109.67	109.56	109.39	109.27	109.09	108.87	108.74
15.0	109.78	109.85	109.88	109.91	109.96	109.80	109.70	109.50	109.39	109.22	109.05	108.82	108.71
15.1	109.78	109.82	109.84	109.88	109.90	109.77	109.63	109.46	109.35	109.13	108.98	108.85	108.66
15.2	109.74	109.78	109.81	109.84	109.86	109.77	109.58	109.48	109.28	109.16	108.96	108.80	108.64
15.3	109.71	109.76	109.76	109.82	109.85	109.72	109.53	109.41	109.22	109.12	108.90	108.79	108.64
15.4	109.67	109.73	109.72	109.78	109.79	109.66	109.53	109.34	109.24	109.05	108.93	108.76	108.62
15.5	109.65	109.66	109.67	109.70	109.72	109.59	109.47	109.29	109.17	109.01	108.91	108.71	108.60
15.6	109.55	109.60	109.58	109.62	109.69	109.60	109.42	109.29	109.13	108.97	108.84	108.73	108.53
15.7	109.49	109.49	109.56	109.59	109.65	109.54	109.36	109.26	109.09	108.97	108.80	108.67	108.49
15.8	109.42	109.47	109.50	109.55	109.57	109.47	109.37	109.21	109.03	108.93	108.73	108.62	108.49
15.9	109.39	109.41	109.46	109.49	109.55	109.42	109.32	109.15	109.05	108.86	108.75	108.56	108.45
16.0	109.35	109.38	109.41	109.46	109.50	109.42	109.26	109.11	109.00	108.81	108.70	108.51	108.38
16.1	109.30	109.32	109.38	109.41	109.45	109.36	109.21	109.13	108.92	108.82	108.64	108.53	108.33
16.2	109.23	109.30	109.35	109.37	109.43	109.31	109.22	109.06	108.87	108.76	108.59	108.46	108.29
16.3	109.23	109.26	109.29	109.35	109.37	109.31	109.16	109.00	108.87	108.71	108.52	108.42	108.23
16.4	109.15	109.20	109.23	109.29	109.34	109.25	109.10	108.94	108.82	108.66	108.54	108.35	108.25

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
16.5	109.07	109.14	109.22	109.26	109.28	109.19	109.04	108.94	108.77	108.60	108.50	108.31	108.18
16.6	109.00	109.14	109.18	109.21	109.26	109.13	109.04	108.88	108.71	108.62	108.43	108.27	108.14
16.7	109.00	109.08	109.12	109.18	109.20	109.13	108.98	108.82	108.66	108.55	108.39	108.27	108.09
16.8	108.95	109.01	109.10	109.12	109.17	109.07	108.93	108.77	108.68	108.51	108.33	108.24	108.05
16.9	108.90	108.99	109.07	109.08	109.13	109.00	108.86	108.77	108.61	108.46	108.35	108.18	108.07
17.0	108.85	108.94	108.98	109.03	109.05	108.94	108.86	108.70	108.55	108.39	108.30	108.14	108.01
17.1	108.85	108.87	108.90	108.95	108.98	108.94	108.79	108.63	108.48	108.41	108.24	108.09	107.97
17.2	108.79	108.81	108.86	108.88	108.98	108.87	108.71	108.56	108.49	108.35	108.20	108.09	107.90
17.3	108.75	108.81	108.83	108.84	108.92	108.80	108.65	108.50	108.43	108.29	108.14	108.04	107.86
17.4	108.69	108.75	108.76	108.83	108.85	108.73	108.58	108.50	108.37	108.24	108.15	107.98	107.79
17.5	108.67	108.69	108.74	108.78	108.82	108.74	108.58	108.44	108.32	108.24	108.11	107.93	107.81
17.6	108.64	108.66	108.71	108.74	108.80	108.68	108.52	108.38	108.27	108.19	108.04	107.87	107.77
17.7	108.58	108.63	108.65	108.72	108.74	108.62	108.47	108.33	108.27	108.14	108.00	107.89	107.71
17.8	108.53	108.57	108.60	108.67	108.68	108.56	108.41	108.33	108.21	108.08	107.94	107.84	107.66
17.9	108.50	108.49	108.58	108.61	108.65	108.57	108.42	108.28	108.16	108.04	107.95	107.78	107.60
18.0	108.44	108.44	108.55	108.58	108.62	108.51	108.37	108.22	108.11	108.04	107.91	107.74	107.62
18.1	108.35	108.42	108.50	108.56	108.57	108.45	108.31	108.18	108.12	108.00	107.85	107.68	107.56
18.2	108.29	108.36	108.44	108.50	108.54	108.39	108.25	108.18	108.06	107.94	107.80	107.69	107.52
18.3	108.29	108.31	108.44	108.47	108.51	108.39	108.24	108.13	108.01	107.88	107.74	107.65	107.48
18.4	91.80	108.26	108.38	108.44	108.45	108.32	108.17	108.08	107.95	107.82	107.75	107.59	107.41
18.5	94.95	108.26	108.31	108.37	108.41	108.26	108.12	108.03	107.89	107.82	107.70	107.55	107.43
18.6	108.10	108.21	108.29	108.31	108.35	108.19	108.06	108.03	107.90	107.75	107.64	107.49	107.36
18.7	108.08	108.17	108.25	108.31	108.32	108.20	108.06	107.98	107.85	107.69	107.60	107.50	107.30
18.8	108.03	108.16	108.19	108.25	108.29	108.14	108.02	107.93	107.79	107.64	107.60	107.43	107.25
18.9	108.00	108.10	108.13	108.19	108.23	108.09	107.97	107.88	107.74	107.65	107.55	107.37	107.17
19.0	107.95	108.06	108.13	108.13	108.17	108.04	107.92	107.82	107.75	107.61	107.51	107.31	107.12
19.1	107.93	108.02	108.08	108.13	108.14	108.05	107.92	107.82	107.70	107.57	107.44	107.24	107.12
19.2	107.88	108.00	108.02	108.07	108.12	107.99	107.86	107.75	107.65	107.53	107.38	107.26	107.08
19.3	107.84	107.96	108.00	108.02	108.06	107.94	107.81	107.69	107.60	107.49	107.38	107.18	107.02
19.4	107.79	107.89	107.97	108.02	108.00	107.89	107.76	107.63	107.55	107.49	107.32	107.14	106.98
19.5	107.78	107.82	107.92	107.96	108.00	107.90	107.77	107.63	107.53	107.44	107.26	107.10	106.94
19.6	107.75	107.81	107.86	107.91	107.95	107.85	107.71	107.58	107.46	107.39	107.20	107.04	106.94
19.7	107.71	107.76	107.86	107.86	107.90	107.79	107.66	107.53	107.39	107.35	107.17	107.06	106.90
19.8	107.67	107.72	107.81	107.86	107.87	107.72	107.60	107.48	107.34	107.30	107.17	107.00	106.84

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
19.9	107.67	107.67	107.77	107.81	107.85	107.72	107.60	107.48	107.34	107.30	107.13	106.96	106.77
20.0	107.63	107.67	107.72	107.76	107.79	107.65	107.56	107.44	107.31	107.26	107.09	106.93	106.71
20.1	107.58	107.62	107.72	107.74	107.72	107.59	107.51	107.40	107.32	107.21	107.03	106.86	106.72
20.2	107.56	107.55	107.67	107.71	107.72	107.55	107.46	107.36	107.28	107.15	106.99	106.88	106.67
20.3	107.53	107.51	107.61	107.66	107.66	107.55	107.46	107.36	107.26	107.10	107.00	106.81	106.60
20.4	107.48	107.50	107.61	107.58	107.59	107.51	107.42	107.36	107.26	107.10	106.94	106.77	106.56
20.5	107.46	107.46	107.54	107.58	107.56	107.48	107.38	107.33	107.22	107.05	106.90	106.69	106.51
20.6	107.42	107.40	107.47	107.50	107.53	107.46	107.42	107.30	107.16	107.00	106.84	106.65	106.46
20.7	107.39	107.40	107.41	107.45	107.49	107.45	107.43	107.23	107.10	106.93	106.77	106.60	106.46
20.8	107.33	107.35	107.41	107.42	107.47	107.44	107.39	107.24	107.11	106.95	106.77	106.60	106.42
20.9	107.31	107.29	107.34	107.38	107.45	107.46	107.34	107.20	107.06	106.89	106.70	106.55	106.38
21.0	107.24	107.26	107.29	107.35	107.42	107.41	107.27	107.14	107.01	106.85	106.65	106.49	106.31
21.1	107.21	107.23	107.29	107.33	107.42	107.41	107.19	107.10	106.97	106.81	106.60	106.45	106.27
21.2	107.18	107.18	107.25	107.28	107.40	107.37	107.20	107.09	106.92	106.75	106.56	106.41	106.27
21.3	107.13	107.16	107.22	107.26	107.35	107.29	107.12	107.05	106.92	106.77	106.57	106.41	106.23
21.4	107.07	107.11	107.21	107.25	107.32	107.21	107.06	106.95	106.88	106.70	106.52	106.35	106.16
21.5	107.07	107.10	107.21	107.26	107.31	107.21	107.00	106.89	106.83	106.64	106.48	106.27	106.11
21.6	107.01	107.06	107.19	107.23	107.25	107.15	107.00	106.89	106.79	106.59	106.42	106.23	106.07
21.7	106.96	107.01	107.14	107.19	107.22	86.49	106.95	106.87	106.79	106.52	106.38	106.22	106.02
21.8	106.93	106.98	107.08	107.17	107.20	88.14	106.90	106.83	106.73	106.53	106.39	106.22	106.04
21.9	106.91	106.97	107.08	107.12	107.14	88.78	106.87	106.77	106.66	106.49	106.34	106.20	105.99
22.0	106.87	106.93	106.99	107.09	107.07	92.16	106.87	106.72	106.59	106.44	106.30	106.15	105.95
22.1	106.83	106.87	106.92	107.03	107.07	106.90	106.83	106.73	106.53	106.40	106.25	106.11	105.90
22.2	106.81	106.81	106.92	107.00	107.00	106.86	106.79	106.68	106.54	106.40	106.21	106.06	105.88
22.3	106.79	106.81	106.86	106.95	106.94	106.86	106.75	106.63	106.49	106.36	106.22	106.07	105.91
22.4	106.76	106.76	106.80	106.89	106.91	106.81	106.75	106.58	106.45	106.32	106.17	106.03	105.85
22.5	106.74	106.72	106.77	106.86	106.88	106.76	106.71	106.58	106.40	106.27	106.12	105.98	105.82
22.6	106.70	106.70	93.47	106.82	106.82	106.72	106.66	106.54	106.40	106.21	106.07	105.94	105.75
22.7	106.69	106.68	106.69	106.78	106.76	106.72	106.62	106.49	106.36	106.22	106.01	105.89	105.69
22.8	106.67	106.64	106.64	106.73	106.73	106.69	106.63	106.44	106.32	106.15	106.00	105.90	105.69
22.9	106.62	106.60	106.64	106.69	106.71	106.64	106.58	106.45	106.26	106.09	105.95	105.83	105.65
23.0	106.58	106.60	106.59	93.10	106.66	106.60	106.54	106.40	106.22	106.04	105.91	105.76	105.60
23.1	106.58	106.56	106.55	106.59	106.65	106.59	106.50	106.36	106.24	106.00	105.86	105.72	105.53
23.2	106.53	106.51	106.52	106.57	106.60	106.54	106.50	106.32	106.19	106.01	105.81	105.66	105.49

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
23.3	106.49	106.47	106.50	106.53	106.57	106.50	106.46	106.27	106.15	105.96	105.83	105.67	105.44
23.4	106.44	106.47	106.46	106.50	106.56	106.50	106.41	106.28	106.08	105.92	105.76	105.62	105.45
23.5	106.44	106.42	106.42	106.48	106.52	106.47	106.34	106.22	106.08	105.85	105.70	105.56	105.39
23.6	106.39	106.36	106.39	106.43	106.49	106.42	106.33	106.15	106.02	105.86	105.65	105.52	105.36
23.7	106.35	106.33	106.37	106.39	106.45	106.37	106.27	106.10	105.97	105.79	105.61	105.47	105.32
23.8	106.33	106.31	106.33	106.36	106.45	106.37	106.22	106.11	105.91	105.74	105.62	105.48	105.27
23.9	106.31	106.27	106.30	106.34	106.41	106.33	106.17	106.05	86.72	105.71	105.57	105.42	105.28
24.0	106.26	106.24	106.28	106.30	106.37	106.28	106.18	106.01	86.72	105.67	105.53	105.38	105.23
24.1	106.23	106.20	106.23	106.25	106.36	106.22	106.13	105.94	89.68	105.67	105.48	105.34	105.19
24.2	106.18	106.18	106.19	106.25	106.28	106.22	106.05	105.94	91.24	105.63	105.49	105.29	105.14
24.3	106.16	106.14	106.16	106.20	106.23	106.15	91.60	90.02	105.70	105.58	105.46	105.25	105.11
24.4	106.13	106.12	106.14	106.15	106.23	106.10	91.60	90.66	91.99	105.54	105.40	105.25	105.08
24.5	106.07	106.10	106.10	106.13	106.18	106.05	91.36	105.77	105.65	105.50	105.35	105.21	105.08
24.6	106.02	106.05	106.08	106.11	106.12	106.05	105.89	105.73	105.60	105.50	105.30	105.18	105.05
24.7	106.00	106.03	106.06	106.07	106.10	106.00	105.84	105.73	105.56	105.44	105.30	105.14	105.00
24.8	105.97	105.99	106.01	106.02	106.07	105.95	105.80	105.68	105.50	105.39	105.27	105.11	104.98
24.9	105.92	105.97	105.97	106.02	106.03	105.91	105.80	105.64	105.51	105.35	105.24	105.11	104.94
25.0	105.88	105.95	105.95	105.98	105.98	105.91	105.75	105.58	105.46	105.35	105.21	105.07	104.95
25.1	105.88	105.90	105.93	105.93	105.96	105.87	105.71	105.59	105.41	105.32	105.16	105.04	104.92
25.2	105.83	105.86	105.89	105.89	105.94	105.82	105.66	105.55	105.37	105.25	105.17	105.00	104.88
25.3	105.79	105.84	105.87	105.89	105.90	105.78	105.66	105.50	105.38	105.21	105.11	104.96	104.84
25.4	105.76	105.82	105.82	105.85	105.88	105.78	105.62	105.45	105.33	105.16	105.05	104.96	104.79
25.5	105.74	105.77	105.80	105.80	105.86	105.73	105.58	105.46	105.29	105.17	105.00	104.92	104.80
25.6	105.70	105.73	105.75	105.80	105.82	105.70	105.54	105.41	105.25	105.12	104.96	104.87	104.74
25.7	105.67	105.73	105.73	105.76	105.80	105.66	105.55	105.38	105.21	105.09	104.96	104.81	104.71
25.8	105.63	105.68	105.71	105.72	105.75	105.66	105.50	105.34	105.22	105.05	104.92	104.76	104.66
25.9	105.61	105.63	105.67	105.71	105.73	105.62	105.46	105.34	105.18	105.00	104.88	104.76	104.60
26.0	105.57	105.59	105.64	105.68	105.71	105.58	105.42	105.30	105.14	105.01	104.84	104.72	104.56
26.1	105.54	105.59	105.59	105.64	105.67	105.53	105.42	105.26	105.10	104.97	104.80	104.67	104.56
26.2	105.49	105.54	105.57	105.59	105.62	105.54	105.38	105.22	105.10	104.93	104.80	104.64	104.51
26.3	105.47	105.49	105.53	105.57	105.60	105.49	105.35	105.18	105.06	104.89	104.77	104.60	104.46
26.4	105.45	105.49	105.50	105.54	105.57	105.45	105.30	105.19	105.02	104.85	104.72	104.60	104.43
26.5	105.40	105.44	105.46	105.49	105.53	105.40	105.31	105.14	104.98	104.86	104.69	104.56	104.39
26.6	105.35	105.40	105.44	105.47	105.48	105.41	105.26	105.10	104.94	104.82	104.66	104.52	104.39

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 9 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
26.7	105.35	105.37	105.41	105.45	105.48	105.36	105.21	105.06	104.94	104.78	104.66	104.48	104.36
26.8	105.31	105.35	105.37	105.40	105.43	105.32	105.18	105.06	104.90	104.74	104.62	104.45	104.31
26.9	105.26	105.30	105.35	105.35	105.39	105.27	105.18	105.02	104.87	104.75	104.58	104.45	104.28
27.0	105.24	105.26	105.30	105.33	105.37	105.27	105.14	104.98	104.82	104.70	104.54	104.41	104.24
27.1	105.22	105.23	105.28	105.31	105.34	105.23	105.09	104.94	104.83	104.67	104.51	104.37	104.20
27.2	105.17	105.21	105.23	105.27	105.29	105.18	105.05	104.95	104.79	104.62	104.51	104.34	104.21
27.3	105.13	105.17	105.21	105.25	105.27	105.14	105.05	104.90	104.75	104.59	104.47	104.29	104.17
27.4	105.11	105.14	105.19	105.23	105.25	105.14	105.01	104.86	104.71	104.60	104.43	104.26	104.14
27.5	105.09	105.10	105.14	105.18	105.20	105.10	104.96	104.82	104.67	104.55	104.39	104.27	104.09
27.6	105.05	105.09	105.12	105.13	105.16	105.06	104.92	104.78	104.67	104.52	104.36	104.22	104.06
27.7	105.02	105.06	105.08	105.11	105.14	105.02	104.92	104.78	104.64	104.47	104.36	104.19	104.06
27.8	104.98	105.02	105.05	105.08	105.12	105.02	104.88	104.74	104.59	104.44	104.32	104.14	104.02
27.9	104.96	104.98	105.01	105.04	105.08	104.98	104.84	104.70	104.55	104.44	104.27	104.11	103.99
28.0	104.94	104.96	104.99	105.03	105.06	104.94	104.80	104.66	104.56	104.40	104.24	104.12	103.95
28.1	104.89	104.94	104.97	104.99	105.02	104.91	104.76	104.66	104.51	104.36	104.20	104.07	103.91
28.2	104.84	104.89	104.92	104.96	105.00	104.91	104.76	104.62	104.48	104.32	104.20	104.04	103.91
28.3	104.84	104.87	104.88	104.95	104.98	104.86	104.73	104.58	104.43	104.32	104.17	104.00	103.87
28.4	104.80	104.84	104.86	104.90	104.94	104.82	104.68	104.54	104.39	104.28	104.12	103.96	103.83
28.5	104.75	104.79	104.84	104.87	104.89	104.77	104.63	104.54	104.39	104.23	104.08	103.96	103.79
28.6	104.70	104.75	104.79	104.83	104.86	104.77	104.64	104.49	104.34	104.19	104.04	103.91	103.75
28.7	104.70	104.73	104.77	104.81	104.84	104.73	104.59	104.45	104.30	104.15	104.04	103.87	103.70
28.8	104.66	104.70	104.74	104.76	104.79	104.68	104.55	104.40	104.26	104.15	103.99	103.83	103.71
28.9	104.61	104.65	104.69	104.73	104.75	104.64	104.50	104.36	104.26	104.11	103.95	103.79	103.66
29.0	104.58	104.61	104.65	104.71	104.75	104.64	104.50	104.36	104.22	104.07	103.91	103.79	103.62
29.1	104.56	104.61	104.63	104.67	104.70	104.59	104.46	104.32	104.17	104.02	103.87	103.75	103.58
29.2	104.52	104.56	104.60	104.63	104.66	104.55	104.41	104.27	104.13	103.98	103.87	103.71	103.54
29.3	104.49	104.52	104.56	104.60	104.66	104.51	104.37	104.23	104.09	103.98	103.83	103.66	103.55
29.4	104.45	104.49	104.54	104.58	104.62	104.51	104.37	104.23	104.09	103.94	103.78	103.62	103.50
29.5	104.43	104.47	104.52	104.54	104.58	104.47	104.33	104.19	104.04	103.90	103.74	103.62	103.46
29.6	104.40	104.43	104.48	104.52	104.56	104.44	104.29	104.14	104.00	103.85	103.70	103.58	103.42
29.7	104.36	104.39	104.44	104.50	104.55	104.41	104.25	104.10	103.96	103.86	103.70	103.54	103.38
29.8	104.31	104.39	104.42	104.47	104.51	104.41	104.25	104.10	103.96	103.81	103.66	103.50	103.33
29.9	104.29	104.35	104.40	104.44	104.48	104.37	104.22	104.06	103.92	103.77	103.62	103.46	103.34
30.0	104.27	104.31	104.36	104.41	104.47	104.34	104.18	104.03	103.87	103.73	103.58	103.46	103.31

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
30.1	104.22	104.29	104.33	104.40	104.45	104.30	104.14	103.99	103.84	103.68	103.58	103.42	103.27
30.2	104.18	104.27	104.33	104.37	104.41	104.30	104.15	103.95	103.80	103.69	103.54	103.38	103.24
30.3	104.18	104.23	104.29	104.33	104.39	104.26	104.11	103.95	103.80	103.66	103.50	103.36	103.20
30.4	104.14	104.21	104.26	104.33	104.34	104.22	104.07	103.91	103.76	103.62	103.46	103.33	103.21
30.5	104.11	104.16	104.25	104.29	104.32	104.18	104.03	103.87	103.72	103.59	103.44	103.33	103.17
30.6	104.08	104.15	104.22	104.24	104.30	104.19	104.03	103.83	103.69	103.56	103.45	103.29	103.13
30.7	104.07	104.11	104.19	104.24	104.26	104.15	104.00	103.83	103.69	103.57	103.41	103.26	103.10
30.8	104.03	104.08	104.14	104.20	104.22	104.11	103.96	103.79	103.66	103.54	103.39	103.22	103.06
30.9	104.00	104.04	104.14	104.16	104.22	104.07	103.91	103.75	103.62	103.50	103.35	103.20	103.07
31.0	103.96	104.02	104.10	104.12	104.17	104.07	103.87	103.71	103.60	103.47	103.32	103.16	103.03
31.1	103.94	104.00	104.06	104.12	104.13	104.02	103.87	103.71	103.56	103.43	103.32	103.17	103.00
31.2	103.90	103.96	104.04	104.08	104.11	103.98	103.82	103.68	103.57	103.43	103.28	103.12	102.95
31.3	103.88	103.92	104.02	104.04	104.09	103.94	103.76	103.65	103.53	103.40	103.23	103.07	102.91
31.4	103.84	103.90	103.98	104.02	104.04	103.94	103.76	103.63	103.50	103.35	103.19	103.03	102.87
31.5	103.82	103.88	103.94	104.00	104.00	103.90	103.76	103.64	103.47	103.31	103.15	102.98	102.87
31.6	103.80	103.83	103.94	103.95	104.00	103.86	103.73	103.60	103.47	103.32	103.15	102.99	102.82
31.7	103.76	103.83	103.90	103.91	103.96	103.82	103.69	103.56	103.43	103.27	103.10	102.94	102.79
31.8	103.72	103.80	103.86	103.91	103.91	103.82	103.65	103.52	103.39	103.24	103.06	102.90	102.76
31.9	103.72	103.76	103.82	103.87	103.89	103.78	103.65	103.48	103.35	103.19	103.02	102.86	102.72
32.0	103.68	103.73	103.82	103.83	103.87	103.74	103.62	103.49	103.31	103.15	102.98	102.83	102.72
32.1	103.64	103.73	103.78	103.81	103.83	103.70	103.58	103.45	103.31	103.16	102.99	102.83	102.69
32.2	103.61	103.70	103.74	103.79	103.81	103.70	103.54	103.41	103.27	103.12	102.95	102.80	102.65
32.3	103.60	103.66	103.74	103.75	103.77	103.66	103.54	103.37	103.24	103.09	102.92	102.76	102.62
32.4	103.56	103.63	103.70	103.71	103.75	103.62	103.50	103.37	103.20	103.05	102.88	102.72	102.58
32.5	103.52	103.63	103.66	103.69	103.71	103.62	103.47	103.34	103.20	103.01	102.84	102.69	102.55
32.6	103.50	103.60	103.62	103.66	103.69	103.59	103.43	103.30	103.16	103.02	102.85	102.70	102.55
32.7	103.48	103.57	103.62	103.62	103.65	103.55	103.43	103.26	103.12	102.97	102.80	102.66	102.52
32.8	103.44	103.54	103.58	103.60	103.63	103.51	103.39	103.26	103.08	102.91	102.76	102.63	102.50
32.9	103.42	103.53	103.54	103.58	103.61	103.51	103.35	103.22	103.04	102.86	102.73	102.59	102.47
33.0	103.38	103.49	103.54	103.54	103.57	103.47	103.31	103.18	103.04	102.86	102.69	102.56	102.44
33.1	103.38	103.46	103.50	103.52	103.55	103.43	103.31	103.14	103.00	102.82	102.69	102.56	102.44
33.2	103.35	103.42	103.46	103.48	103.53	103.40	103.27	103.10	102.97	102.78	102.65	102.53	102.41
33.3	103.32	103.41	103.42	103.46	103.49	103.40	103.23	103.10	102.93	102.76	102.63	102.50	102.37
33.4	103.29	103.37	103.42	103.43	103.45	103.36	103.20	103.06	102.93	102.73	102.60	102.47	102.33

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
33.5	103.29	103.35	103.38	103.41	103.45	103.32	103.20	103.03	102.89	102.73	102.57	102.44	102.30
33.6	103.27	103.33	103.34	103.38	103.41	103.28	103.16	102.98	102.83	102.71	102.58	102.44	102.30
33.7	103.23	103.29	103.32	103.35	103.38	103.28	103.12	102.99	102.79	102.69	102.54	102.41	102.27
33.8	103.18	103.27	103.30	103.33	103.34	103.25	103.08	102.95	102.74	102.65	102.50	102.38	102.23
33.9	103.18	103.23	103.26	103.29	103.34	103.21	103.08	102.91	102.75	102.61	102.47	102.34	102.20
34.0	103.14	103.21	103.22	103.27	103.30	103.17	103.04	102.87	102.72	102.61	102.43	102.31	102.16
34.1	103.12	103.17	103.22	103.23	103.26	103.17	103.00	102.87	102.69	102.58	102.44	102.27	102.13
34.2	103.09	103.15	103.18	103.21	103.24	103.13	102.96	102.83	102.66	102.54	102.40	102.27	102.13
34.3	103.09	103.11	103.14	103.17	103.22	103.09	102.92	102.79	102.65	102.50	102.37	102.24	102.10
34.4	103.05	103.09	103.10	103.15	103.18	103.05	102.92	102.76	102.62	102.47	102.34	102.20	102.07
34.5	103.02	103.07	103.10	103.13	103.16	103.05	102.88	102.72	102.59	102.47	102.30	102.17	102.03
34.6	102.98	103.03	103.06	103.09	103.12	103.01	102.84	102.72	102.56	102.44	102.30	102.13	102.00
34.7	102.97	102.99	103.02	103.07	103.10	102.97	102.80	102.68	102.53	102.41	102.26	102.14	102.00
34.8	102.94	102.99	103.02	103.03	103.06	102.93	102.80	102.63	102.53	102.37	102.23	102.10	101.97
34.9	102.90	102.95	102.98	103.01	103.04	102.93	102.76	102.60	102.51	102.38	102.19	102.07	101.93
35.0	102.87	102.91	102.95	102.97	103.02	102.89	102.72	102.60	102.48	102.35	102.16	102.04	101.90
35.1	102.85	102.87	102.91	102.95	102.98	102.85	102.68	102.57	102.45	102.31	102.16	102.00	101.87
35.2	102.83	102.87	102.91	102.93	102.96	102.81	102.68	102.54	102.45	102.27	102.13	102.01	101.84
35.3	102.80	102.83	102.87	102.89	102.92	102.81	102.64	102.51	102.41	102.23	102.10	101.97	101.84
35.4	102.76	102.80	102.83	102.85	102.90	102.77	102.61	102.51	102.38	102.24	102.08	101.94	101.80
35.5	102.76	102.80	102.81	102.85	102.88	102.73	102.58	102.48	102.34	102.21	102.05	101.91	101.77
35.6	102.72	102.76	102.79	102.81	102.84	102.69	102.59	102.45	102.31	102.17	102.05	101.88	101.74
35.7	102.68	102.73	102.75	102.78	102.80	102.69	102.56	102.42	102.31	102.14	102.02	101.88	101.71
35.8	102.67	102.71	102.71	102.75	102.80	102.65	102.53	102.39	102.27	102.11	101.99	101.85	101.71
35.9	102.65	102.69	102.71	102.73	102.75	102.62	102.50	102.39	102.24	102.11	101.96	101.82	101.68
36.0	102.62	102.66	102.67	102.69	102.71	102.59	102.50	102.35	102.20	102.08	101.92	101.78	101.64
36.1	102.61	102.62	102.63	102.64	102.67	102.59	102.47	102.32	102.20	102.04	101.92	101.75	101.60
36.2	102.57	102.60	102.61	102.64	102.67	102.56	102.43	102.28	102.17	102.01	101.89	101.76	101.57
36.3	102.55	102.58	102.59	102.60	102.64	102.53	102.40	102.29	102.13	102.01	101.86	101.72	101.53
36.4	102.51	102.53	102.55	102.57	102.60	102.50	102.40	102.25	102.10	101.97	101.83	101.68	101.54
36.5	102.49	102.51	102.51	102.54	102.59	102.50	102.36	102.22	102.07	101.94	101.79	101.64	101.50
36.6	102.45	102.47	102.51	102.54	102.57	102.46	102.33	102.18	102.07	101.91	101.79	101.61	101.47
36.7	102.43	102.45	102.46	102.51	102.53	102.43	102.29	102.18	102.04	101.87	101.75	101.61	101.44
36.8	102.41	102.41	102.43	102.47	102.52	102.39	102.29	102.15	102.00	101.87	101.71	101.58	101.40

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
36.9	102.37	102.39	102.41	102.47	102.50	102.39	102.26	102.12	101.97	101.84	101.68	101.54	101.40
37.0	102.33	102.37	102.39	102.44	102.46	102.36	102.22	102.08	101.97	101.81	101.64	101.51	101.37
37.1	102.33	102.33	102.36	102.40	102.44	102.32	102.19	102.05	101.93	101.78	101.65	101.48	101.34
37.2	102.29	102.31	102.33	102.39	102.41	102.29	102.15	102.05	101.89	101.73	101.61	101.44	101.30
37.3	102.26	102.28	102.33	102.37	102.39	102.29	102.15	102.01	101.85	101.74	101.58	101.44	101.27
37.4	102.24	102.26	102.30	102.33	102.36	102.26	102.12	101.98	101.81	101.70	101.54	101.41	101.27
37.5	102.22	102.25	102.26	102.30	102.34	102.23	102.09	101.95	101.82	101.66	101.54	101.37	101.24
37.6	102.19	102.21	102.24	102.28	102.31	102.19	102.05	101.95	101.78	101.63	101.51	101.34	101.20
37.7	102.15	102.18	102.23	102.27	102.29	102.19	102.05	101.92	101.75	101.60	101.47	101.31	101.17
37.8	102.13	102.17	102.20	102.23	102.28	102.16	102.02	101.88	101.72	101.60	101.44	101.31	101.14
37.9	102.12	102.15	102.16	102.21	102.24	102.13	101.99	101.85	101.72	101.56	101.41	101.28	101.11
38.0	102.08	102.11	102.14	102.19	102.21	102.09	101.95	101.85	101.69	101.53	101.41	101.24	101.11
38.1	102.07	102.08	102.13	102.15	102.21	102.09	101.95	101.81	101.66	101.50	101.38	101.21	101.08
38.2	102.03	102.08	102.09	102.11	102.17	102.06	101.92	101.78	101.63	101.50	101.35	101.18	101.04
38.3	102.02	102.05	102.07	102.09	102.13	102.02	101.88	101.74	101.59	101.48	101.32	101.18	101.01
38.4	102.00	102.01	102.04	102.07	102.11	101.98	101.84	101.70	101.59	101.44	101.29	101.15	100.98
38.5	101.96	101.99	102.00	102.03	102.08	101.98	101.84	101.70	101.55	101.40	101.29	101.12	100.98
38.6	101.93	101.97	101.96	102.01	102.04	101.94	101.81	101.66	101.52	101.36	101.25	101.08	100.95
38.7	101.93	101.93	101.94	101.97	102.00	101.90	101.77	101.63	101.48	101.36	101.21	101.04	100.91
38.8	101.89	101.89	101.92	101.94	102.00	101.86	101.73	101.59	101.48	101.33	101.17	101.05	100.88
38.9	101.85	101.89	101.88	101.90	101.96	101.86	101.73	101.59	101.44	101.28	101.12	101.02	100.83
39.0	101.80	101.85	101.86	101.89	101.92	101.82	101.69	101.55	101.41	101.23	101.12	100.98	100.78
39.1	101.80	101.80	101.84	101.87	101.90	101.79	101.65	101.52	101.37	83.49	101.08	100.95	100.78
39.2	101.76	101.78	101.80	101.83	101.88	101.75	101.62	101.48	101.34	101.18	101.06	100.90	100.74
39.3	101.72	101.76	101.76	101.81	101.84	101.75	101.62	101.48	101.34	101.15	101.03	100.91	100.72
39.4	101.69	101.72	101.74	101.78	101.83	101.72	101.58	101.45	101.31	101.12	100.99	100.85	100.69
39.5	101.67	101.68	101.73	101.76	101.78	101.68	101.55	101.39	101.27	101.08	100.99	100.81	100.65
39.6	101.64	101.67	101.69	101.74	101.74	101.63	101.51	101.34	101.24	101.05	100.94	100.77	100.65
39.7	101.62	101.65	101.67	101.71	101.72	101.63	101.51	82.69	101.23	101.05	100.91	100.73	100.61
39.8	101.58	101.61	101.64	101.67	101.67	101.58	101.47	82.69	101.18	101.01	100.87	100.70	100.58
39.9	101.56	101.59	101.62	101.65	101.63	101.52	101.41	101.26	79.07	100.98	100.83	100.70	100.54
40.0	101.54	101.56	101.58	101.63	101.61	101.49	101.36	101.22	79.41	100.94	100.83	100.66	100.50
40.1	101.51	101.54	101.57	101.58	101.59	101.49	82.47	101.19	78.71	100.94	100.79	100.62	100.45
40.2	101.47	101.52	101.55	101.57	101.56	101.45	83.82	101.19	78.56	100.90	100.74	100.58	100.45

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
40.3	101.46	101.49	101.50	101.53	101.52	101.41	101.28	101.15	79.66	100.86	100.71	100.55	100.41
40.4	101.44	101.45	101.48	101.48	101.52	101.38	101.25	101.12	82.93	100.84	100.69	100.55	100.39
40.5	101.40	101.44	101.44	101.43	101.48	101.38	101.22	101.09	100.95	100.82	100.69	100.52	100.36
40.6	101.37	101.42	101.41	101.41	101.44	101.35	101.22	101.09	100.95	100.82	100.68	100.51	100.34
40.7	101.37	101.38	101.38	101.40	101.43	101.32	101.19	101.06	100.92	100.79	100.65	100.49	100.35
40.8	101.33	101.37	101.36	101.36	101.41	101.29	101.16	101.03	100.89	100.76	100.63	100.46	100.31
40.9	101.30	101.35	101.34	101.33	101.39	101.29	101.13	101.00	100.86	100.75	100.60	100.46	100.30
41.0	101.28	101.32	101.31	101.33	101.37	101.27	101.13	100.97	100.83	100.73	100.60	100.43	100.27
41.1	101.27	101.29	101.30	101.29	101.35	101.24	101.10	100.97	100.84	100.73	100.58	100.40	100.24
41.2	101.24	101.27	101.27	101.26	101.32	101.21	101.08	100.94	100.81	100.71	100.55	100.37	100.24
41.3	101.23	101.25	101.23	101.24	101.29	101.21	101.05	100.92	100.80	100.68	100.52	100.34	100.21
41.4	101.18	101.21	101.19	101.23	101.28	101.19	101.05	100.90	100.78	100.65	100.50	100.34	100.18
41.5	101.16	101.17	101.17	101.20	101.27	101.16	101.03	100.90	100.78	100.65	100.50	100.33	100.14
41.6	101.13	101.17	101.13	101.17	101.24	101.13	101.00	100.88	100.75	100.62	100.47	100.30	100.12
41.7	101.11	101.13	101.13	101.17	101.23	101.13	100.98	100.85	100.72	100.59	100.45	100.28	100.09
41.8	101.06	101.08	101.11	101.15	101.20	101.10	100.98	100.82	100.69	100.56	100.42	100.25	100.10
41.9	101.03	101.05	101.08	101.12	101.18	101.07	100.95	100.83	100.67	100.53	100.39	100.25	100.07
42.0	101.01	101.04	101.07	101.12	101.17	101.05	100.92	100.80	100.67	100.53	100.39	100.23	100.05
42.1	100.98	101.00	101.05	101.10	101.14	101.05	100.89	100.77	100.64	100.50	100.36	100.20	100.03
42.2	100.94	100.98	101.03	101.07	101.11	101.02	100.89	100.74	100.61	100.47	100.33	100.18	100.00
42.3	100.94	100.98	101.01	101.04	101.11	100.99	100.86	100.71	100.57	100.44	100.30	100.14	100.01
42.4	100.91	100.95	101.00	101.04	101.09	100.96	100.83	100.71	100.58	100.41	100.27	100.15	99.98
42.5	100.88	100.92	100.98	101.02	101.06	100.96	100.81	100.68	100.55	100.41	100.27	100.12	99.96
42.6	100.86	100.90	100.95	101.00	101.03	100.93	100.81	100.65	100.51	100.38	100.24	100.09	99.93
42.7	100.85	100.89	100.94	100.99	101.03	100.90	100.78	100.61	100.48	100.35	100.21	100.06	99.90
42.8	100.82	100.86	100.92	100.97	100.99	100.86	100.75	100.61	100.45	100.31	100.18	100.02	99.86
42.9	100.79	100.85	100.90	100.94	100.94	100.86	100.71	100.58	100.45	100.28	100.15	99.99	99.86
43.0	100.77	100.82	100.87	100.89	100.94	100.82	100.67	100.55	100.41	100.28	100.15	99.99	99.81
43.1	100.76	100.80	100.85	100.87	100.91	100.79	100.67	100.51	100.38	100.25	100.11	99.94	99.76
43.2	100.73	100.78	100.83	100.85	100.87	100.76	100.64	100.51	100.35	100.22	100.08	99.90	79.99
43.3	100.71	100.77	100.78	100.81	100.85	100.75	100.60	100.47	100.35	100.19	100.04	99.85	77.39
43.4	100.68	100.74	100.74	100.79	100.84	100.72	100.57	100.44	100.32	100.18	99.99	79.82	75.86
43.5	100.67	100.72	100.72	100.77	100.80	100.68	100.57	100.40	100.29	100.15	99.99	79.82	76.08
43.6	100.65	100.71	100.71	100.74	100.79	100.65	100.53	100.36	100.24	100.11	80.54	80.20	79.65

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 14 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
43.7	100.63	100.66	100.67	100.73	100.75	100.65	100.49	100.36	100.20	100.07	80.49	99.75	99.60
43.8	100.61	100.62	100.66	100.69	100.74	100.62	100.45	100.33	100.19	100.02	99.87	99.72	99.58
43.9	100.61	100.60	100.62	100.67	100.71	100.58	100.46	100.30	100.15	100.02	99.84	99.70	99.55
44.0	100.58	100.58	100.61	100.64	100.69	100.55	100.43	100.27	100.12	99.99	99.84	99.70	99.55
44.1	100.53	100.55	100.57	100.62	100.66	100.55	100.40	100.27	100.10	99.96	99.82	99.67	99.53
44.2	100.49	100.53	100.56	100.59	100.64	100.52	100.37	100.25	100.07	99.93	99.79	99.65	99.50
44.3	100.49	100.51	100.54	100.57	100.62	100.50	100.37	100.22	100.08	99.90	99.76	99.62	99.47
44.4	100.45	100.48	100.51	100.56	100.59	100.46	100.35	100.20	100.05	99.91	99.74	99.60	99.45
44.5	100.42	100.45	100.49	100.52	100.56	100.46	100.32	100.20	100.02	99.88	99.74	99.60	99.45
44.6	100.40	100.45	100.46	100.51	100.56	100.44	100.29	100.17	99.99	99.85	99.72	99.57	99.42
44.7	100.38	100.41	100.44	100.47	100.52	100.41	100.29	100.14	99.99	99.83	99.69	99.55	99.38
44.8	100.35	100.38	100.41	100.46	100.49	100.39	100.27	100.11	99.97	99.80	99.67	99.52	99.36
44.9	100.33	100.35	100.39	100.43	100.48	100.39	100.24	100.08	99.94	99.81	99.64	99.49	99.33
45.0	100.30	100.35	100.37	100.41	100.46	100.36	100.20	100.08	99.90	99.78	99.64	99.49	99.29
45.1	100.29	100.32	100.34	100.39	100.43	100.32	100.20	100.05	99.86	99.74	99.61	99.46	99.30
45.2	100.25	100.28	100.33	100.37	100.41	100.28	100.16	100.02	99.86	99.70	99.58	99.42	99.26
45.3	100.24	100.27	100.29	100.34	100.41	100.28	100.13	99.97	99.82	99.70	99.54	99.39	99.23
45.4	100.20	100.25	100.28	100.32	100.38	100.25	100.10	99.95	99.78	99.64	99.50	99.36	99.20
45.5	100.19	100.22	100.24	100.30	100.35	100.22	100.10	99.90	99.74	99.61	99.50	99.32	99.17
45.6	100.17	100.19	100.22	100.26	100.33	100.18	100.06	79.48	99.74	99.57	99.46	99.33	99.18
45.7	100.14	100.19	100.20	100.24	100.30	100.18	100.02	99.83	99.70	78.80	99.43	99.29	99.15
45.8	100.10	100.15	100.15	100.23	100.25	100.15	99.98	99.83	99.66	78.80	99.40	99.26	99.12
45.9	100.10	100.12	100.11	100.20	100.24	100.12	99.94	99.79	99.62	79.02	99.37	99.24	99.09
46.0	100.03	100.10	100.09	100.16	100.19	100.08	99.94	80.51	99.58	99.47	99.37	99.21	99.06
46.1	99.98	100.09	100.07	100.16	76.06	100.09	99.90	99.73	99.58	99.45	99.33	99.21	99.06
46.2	79.64	100.04	100.03	100.09	75.88	100.03	99.87	99.71	99.59	99.44	78.37	99.18	99.01
46.3	99.94	100.00	100.01	100.03	76.68	99.99	99.83	99.71	99.56	99.44	71.63	99.14	98.97
46.4	99.90	99.95	99.99	80.85	79.15	99.95	99.83	99.68	99.53	99.41	99.17	99.07	98.93
46.5	80.89	99.92	99.94	80.85	80.32	99.95	99.79	99.65	99.53	99.38	99.17	99.02	98.89
46.6	81.38	81.00	99.91	99.96	81.31	99.91	99.76	99.62	99.50	99.35	99.18	78.53	98.85
46.7	99.82	80.72	99.90	99.93	99.98	99.88	99.73	99.62	99.47	99.33	99.18	78.92	98.85
46.8	99.80	77.48	99.88	99.93	99.95	99.84	99.72	99.59	99.44	99.33	99.14	98.94	98.81
46.9	99.79	78.92	99.84	99.89	99.95	99.84	99.69	99.56	99.41	99.30	99.13	79.96	98.78
47.0	99.76	78.60	99.83	99.86	99.92	99.81	99.67	99.53	99.41	99.27	99.13	79.74	98.74

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
47.1	99.75	78.80	99.81	99.83	99.88	99.78	99.64	99.53	99.38	99.24	99.11	98.81	98.69
47.2	99.74	99.70	99.78	99.83	99.88	99.77	99.63	99.50	99.35	99.24	99.09	98.84	98.70
47.3	99.71	99.69	99.74	99.80	99.85	99.74	99.61	99.47	99.33	99.21	99.06	98.83	98.67
47.4	99.69	99.68	99.72	99.77	99.82	99.71	99.58	99.44	99.33	99.18	99.03	98.80	98.65
47.5	99.69	99.67	99.70	99.75	99.78	99.68	99.55	99.41	99.30	99.15	99.03	98.78	98.62
47.6	99.66	99.66	99.66	99.74	99.78	99.68	99.55	99.41	99.27	99.13	99.01	98.78	98.60
47.7	99.62	99.65	99.62	99.70	99.74	99.64	99.51	99.38	99.24	99.13	98.98	98.75	98.57
47.8	99.60	99.62	99.62	99.69	99.70	99.60	99.48	99.35	99.21	99.10	98.95	98.73	98.57
47.9	99.58	99.59	99.58	99.67	99.68	99.56	99.45	99.32	99.21	99.07	98.92	98.70	98.55
48.0	99.55	99.59	99.55	99.63	99.66	99.56	99.44	99.32	99.18	99.04	98.92	98.68	98.52
48.1	99.51	99.56	99.54	99.58	99.62	99.51	99.39	99.29	99.15	99.01	98.89	98.64	98.49
48.2	99.51	99.52	99.52	99.56	99.59	99.47	99.34	99.25	99.10	99.01	98.82	98.65	98.46
48.3	99.46	99.48	99.50	99.54	99.55	98.03	98.84	68.17	99.10	98.98	98.76	98.63	98.47
48.4	99.46	99.48	99.48	99.50	99.52	98.99	98.28	68.17	99.04	98.95	76.27	98.59	98.43
48.5	99.46	99.45	99.48	99.18	99.53	99.42	98.02	73.37	98.35	98.92	77.51	98.56	98.41
48.6	99.47	99.43	99.46	99.46	99.53	99.42	99.25	78.92	76.32	98.85	77.88	98.53	98.38
48.7	99.46	99.42	99.43	99.46	99.52	99.41	99.23	96.41	80.13	98.85	98.45	98.53	98.35
48.8	99.46	99.40	99.43	99.46	99.51	99.41	99.22	96.68	80.13	70.77	98.47	98.50	98.33
48.9	99.42	99.37	99.41	99.44	99.50	99.39	99.24	96.68	96.43	72.44	98.41	98.47	98.33
49.0	99.39	99.35	99.38	99.42	99.48	99.37	99.22	99.05	96.61	72.59	98.40	98.44	98.30
49.1	99.38	99.35	99.35	99.40	99.46	99.35	99.20	99.06	97.23	75.32	98.02	98.40	98.27
49.2	99.36	99.33	99.35	99.39	99.46	99.35	99.18	99.04	98.86	74.20	97.44	98.40	98.24
49.3	99.33	99.34	99.32	99.37	99.43	99.33	99.18	99.04	98.90	78.08	96.91	98.37	98.21
49.4	99.32	99.34	99.30	99.36	99.41	99.30	99.16	99.02	98.88	79.53	96.70	98.22	98.21
49.5	99.30	99.32	99.32	99.35	99.41	99.27	99.15	99.00	98.85	95.91	96.40	98.13	98.18
49.6	99.27	99.30	99.32	99.33	99.38	99.27	99.11	98.97	98.78	96.12	95.98	98.27	98.16
49.7	99.24	99.29	99.32	99.31	99.36	99.24	99.10	98.97	98.78	96.07	96.00	98.02	98.13
49.8	99.24	99.26	99.28	99.29	99.35	99.20	99.05	98.94	76.59	96.51	96.12	97.82	98.06
49.9	99.21	99.24	99.28	99.29	99.33	99.17	99.00	98.90	73.31	96.32	95.81	97.72	98.07
50.0	99.17	99.21	99.24	99.26	99.29	99.16	71.79	98.81	73.55	96.12	95.93	97.74	98.02
50.1	99.13	99.20	99.21	99.25	99.24	99.13	70.34	66.42	73.54	96.11	95.60	97.60	97.83
50.2	99.13	99.17	99.18	99.24	99.22	99.10	70.07	68.97	76.49	96.00	95.66	97.17	97.68
50.3	99.09	99.15	99.18	99.20	99.20	99.07	72.85	72.20	77.63	96.03	95.76	97.37	98.00
50.4	99.05	99.14	99.14	99.15	99.16	99.07	75.13	73.93	95.52	95.72	95.92	97.69	98.00

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
50.5	99.03	99.10	99.11	99.12	99.14	99.03	75.13	75.69	95.55	95.72	95.92	98.12	98.00
50.6	99.01	99.06	99.09	99.10	99.11	98.37	77.33	75.69	95.50	95.49	95.92	98.11	97.99
50.7	98.97	99.04	99.07	99.05	99.10	72.23	78.34	77.60	95.16	95.60	95.99	98.10	97.98
50.8	98.94	99.02	99.03	99.02	99.07	74.83	79.41	78.24	95.05	95.72	97.17	98.10	97.96
50.9	98.90	98.98	99.00	99.02	99.03	75.49	95.92	79.08	95.05	95.63	97.12	98.08	97.94
51.0	98.90	98.96	99.00	98.99	98.89	76.64	95.89	94.92	95.16	95.63	97.98	98.06	97.92
51.1	98.87	98.94	98.96	98.96	98.89	79.54	95.92	95.67	95.07	95.35	98.15	98.05	97.93
51.2	98.84	98.90	98.92	98.94	97.80	94.74	95.95	95.79	95.09	95.34	98.13	98.04	97.91
51.3	98.80	98.86	98.90	98.92	78.89	94.67	96.02	96.45	95.24	95.64	98.11	98.04	97.89
51.4	98.79	98.86	98.89	98.88	77.89	94.75	96.02	96.74	95.42	95.71	98.10	98.02	97.88
51.5	98.26	98.83	98.85	98.84	77.89	94.86	95.99	96.74	95.42	96.03	98.09	98.00	97.85
51.6	79.09	98.78	98.81	98.84	78.46	94.86	96.08	96.59	96.53	96.61	98.08	97.99	97.86
51.7	96.64	98.75	98.81	98.70	94.70	95.07	96.10	96.77	96.86	97.19	98.06	97.97	97.83
51.8	96.64	98.75	98.78	98.49	94.70	95.09	96.13	96.76	96.63	97.48	98.05	97.97	97.82
51.9	97.09	98.72	98.75	98.20	94.49	95.17	96.12	96.74	95.81	97.63	98.05	97.96	97.79
52.0	97.05	98.69	98.72	98.43	94.57	95.13	96.14	95.75	96.46	97.39	98.03	97.93	97.77
52.1	97.54	98.66	98.72	98.17	94.44	95.19	96.17	96.28	96.75	97.85	98.01	97.90	97.75
52.2	97.55	98.66	98.69	97.76	94.62	95.19	95.86	96.73	97.26	98.08	97.99	97.87	97.75
52.3	97.88	98.63	98.66	97.76	94.66	95.36	95.37	96.73	97.71	98.06	97.97	97.87	97.73
52.4	98.17	98.61	98.66	97.55	94.65	95.55	95.98	96.71	97.71	98.05	97.97	97.85	97.70
52.5	98.37	98.60	98.63	97.10	94.73	96.79	96.41	96.79	98.11	98.05	97.95	97.83	97.68
52.6	98.26	98.56	98.60	96.58	94.84	97.81	96.41	97.07	98.15	98.03	97.93	97.80	97.66
52.7	98.29	98.54	98.57	96.93	95.63	98.50	96.83	97.56	98.13	98.01	97.91	97.78	97.67
52.8	98.49	98.51	98.57	96.55	97.73	98.50	97.15	97.38	98.12	98.00	97.89	97.78	97.64
52.9	98.46	98.50	98.54	96.46	98.59	98.52	96.97	97.95	98.12	98.00	97.89	97.75	97.61
53.0	98.45	96.95	98.51	95.77	98.58	98.50	97.57	98.20	98.10	97.98	97.86	97.73	97.59
53.1	98.44	94.05	98.51	95.69	98.58	98.48	96.83	98.19	98.09	97.97	97.83	97.70	97.56
53.2	98.42	94.09	98.47	96.33	98.56	98.48	96.00	98.19	98.06	97.94	97.81	97.68	97.56
53.3	98.39	93.93	97.94	96.77	98.54	98.45	95.32	98.18	98.06	97.92	97.78	97.66	97.54
53.4	98.39	93.98	96.84	97.01	98.54	98.43	95.70	98.16	98.04	97.92	97.79	97.66	97.51
53.5	97.02	94.19	96.84	97.39	98.52	98.41	95.70	98.14	98.02	97.90	97.76	97.64	97.48
53.6	96.15	94.93	94.47	97.87	98.49	98.41	96.23	98.14	97.99	97.87	97.73	97.61	97.46
53.7	96.10	95.60	96.16	98.25	98.47	98.37	96.71	98.12	97.97	97.84	97.71	97.59	97.43
53.8	96.12	96.01	96.54	98.28	98.46	98.34	97.47	98.10	97.97	97.82	97.68	97.57	97.43

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
53.9	96.79	96.57	97.11	98.36	98.43	96.74	97.22	98.07	97.95	97.82	97.68	97.57	97.41
54.0	97.34	96.76	97.90	98.36	98.41	97.32	97.62	98.04	97.92	97.79	97.66	97.54	97.38
54.1	97.27	96.86	98.27	98.34	98.41	70.29	98.02	98.04	97.89	97.77	97.65	97.53	97.36
54.2	97.66	97.12	98.27	98.33	98.38	75.41	98.09	98.01	97.89	97.74	97.64	97.50	97.33
54.3	98.03	97.42	98.25	98.32	98.36	75.68	98.09	97.99	97.87	97.72	97.63	97.48	97.33
54.4	97.99	97.82	98.23	98.29	98.35	75.68	98.08	97.96	97.85	97.72	97.63	97.48	97.31
54.5	98.15	97.86	98.21	98.25	98.34	75.63	98.06	97.96	97.83	97.70	97.62	97.46	97.28
54.6	98.14	98.06	98.20	98.24	98.28	77.50	98.05	97.94	97.84	97.68	97.60	97.44	97.25
54.7	98.12	98.13	98.17	98.22	70.35	94.61	98.05	97.91	97.86	97.64	97.58	97.42	97.22
54.8	98.09	98.13	98.14	98.20	65.09	95.03	98.03	97.88	97.84	97.65	97.55	97.40	97.18
54.9	98.06	98.10	98.14	98.18	66.94	95.51	98.00	97.88	97.82	97.62	97.55	97.40	97.18
55.0	98.03	98.05	98.12	98.17	67.78	95.91	97.98	97.86	97.79	97.59	97.53	97.38	97.16
55.1	97.98	98.04	98.09	98.13	72.11	96.45	97.98	97.83	97.79	97.56	97.50	97.35	97.13
55.2	97.89	98.04	98.08	97.86	74.78	96.39	97.94	97.81	97.76	97.55	97.48	97.33	97.09
55.3	97.98	98.02	98.06	97.86	75.45	96.72	97.92	97.78	97.74	97.56	97.46	97.30	97.07
55.4	97.98	98.00	98.04	97.16	77.57	96.93	97.90	97.78	97.71	97.55	97.46	97.24	97.07
55.5	97.96	97.98	98.01	96.51	77.90	97.23	97.89	97.76	97.68	97.54	97.44	97.24	97.04
55.6	97.94	97.98	98.01	95.98	94.32	97.23	97.87	97.74	97.68	97.52	97.40	97.20	97.00
55.7	97.93	97.95	97.98	95.98	94.32	97.23	97.84	97.71	97.66	97.50	97.38	76.62	96.97
55.8	97.92	97.93	97.86	95.12	94.34	97.23	97.82	97.73	97.63	97.50	97.35	75.14	96.95
55.9	97.91	97.93	97.55	93.82	94.41	97.57	97.80	97.73	97.61	97.48	97.35	97.10	96.94
56.0	97.90	97.90	97.55	93.82	94.38	97.45	97.81	97.71	97.59	97.46	97.33	77.13	96.93
56.1	97.87	97.87	97.28	92.97	94.37	97.63	97.81	97.70	97.58	97.44	97.30	76.96	96.92
56.2	97.85	97.85	97.12	93.78	94.37	97.66	97.79	97.70	97.58	97.42	97.27	75.73	96.90
56.3	97.82	97.83	97.05	94.53	94.64	97.82	97.80	97.68	97.57	97.43	97.24	75.59	96.88
56.4	97.81	97.66	96.65	94.53	94.60	97.76	97.80	97.66	97.54	97.41	97.25	76.62	96.86
56.5	97.79	97.58	96.43	94.74	94.86	97.78	97.78	97.63	97.54	97.38	97.22	96.98	96.86
56.6	97.77	97.50	96.15	94.64	95.24	97.78	97.75	97.60	97.51	97.35	97.18	96.96	96.83
56.7	97.76	97.53	96.15	94.55	95.51	97.75	97.72	97.60	97.48	97.35	97.13	96.94	96.80
56.8	97.74	97.20	95.94	94.40	95.30	97.67	97.72	97.58	97.44	97.31	97.08	96.93	96.78
56.9	97.71	97.27	95.72	94.16	95.65	97.72	97.71	97.55	97.40	97.28	97.09	96.90	96.76
57.0	97.71	97.00	95.74	93.79	95.73	97.69	97.70	97.54	97.40	97.25	75.67	96.90	96.73
57.1	97.68	97.07	95.60	93.97	95.86	97.67	97.69	97.55	97.37	97.22	73.63	96.87	96.74
57.2	97.65	96.94	95.22	93.54	95.88	97.67	97.69	97.54	97.35	97.22	74.02	96.85	96.71

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
57.3	97.62	96.84	94.94	93.07	96.35	97.64	97.68	97.53	97.32	97.16	74.34	96.83	96.69
57.4	97.62	96.37	94.94	93.09	96.69	97.62	97.65	97.49	97.32	67.37	73.37	96.79	96.69
57.5	97.58	95.50	94.80	92.96	97.15	97.60	97.62	97.44	97.29	70.61	75.89	96.79	96.70
57.6	97.56	95.41	94.30	92.98	97.15	97.60	97.62	97.44	97.25	71.37	96.86	96.76	96.70
57.7	97.55	94.46	94.23	93.13	97.67	97.58	97.61	97.40	97.21	72.66	96.93	96.75	96.69
57.8	97.38	93.73	93.96	93.59	97.66	97.64	97.56	97.37	97.17	74.07	96.92	96.73	96.67
57.9	97.19	92.95	93.41	93.14	97.66	97.65	77.11	97.34	97.17	97.04	96.94	96.74	96.65
58.0	97.21	92.23	92.88	93.29	97.67	97.66	97.51	97.34	76.34	97.05	96.92	96.74	96.63
58.1	96.56	92.07	92.85	93.93	97.70	97.66	76.55	97.32	76.03	97.03	96.89	96.73	96.60
58.2	96.25	92.07	92.57	93.35	97.68	97.64	72.43	97.29	96.71	97.03	96.87	96.72	96.60
58.3	96.21	91.41	92.31	93.49	97.66	97.62	76.21	97.26	96.71	97.00	96.84	96.71	96.58
58.4	96.19	91.40	91.59	94.13	97.65	97.62	97.38	97.26	97.07	96.98	96.85	96.69	96.56
58.5	96.30	91.22	91.68	94.74	97.61	97.59	97.38	97.22	97.07	96.95	96.81	96.67	96.57
58.6	95.95	91.22	91.26	94.67	97.60	97.55	97.35	97.18	97.06	96.95	96.77	96.67	96.58
58.7	96.13	91.19	91.28	95.63	97.59	75.57	97.32	75.39	97.04	96.93	96.73	96.65	96.58
58.8	96.01	91.18	91.32	96.34	97.57	97.50	97.30	75.18	97.04	96.91	96.70	96.62	96.55
58.9	95.82	91.18	91.30	96.70	97.57	97.47	97.30	75.18	97.02	96.89	96.70	96.60	96.53
59.0	95.82	91.00	91.16	96.51	97.58	97.44	97.27	75.99	96.99	96.87	96.68	96.57	96.50
59.1	95.55	91.07	91.14	97.13	97.58	97.40	97.24	96.91	96.96	96.87	96.67	96.57	96.48
59.2	94.89	91.03	91.14	97.13	97.57	97.40	97.19	97.05	96.97	96.86	96.66	96.55	96.45
59.3	95.51	91.03	91.14	97.35	97.54	97.36	76.03	97.05	96.96	96.84	96.65	96.53	96.45
59.4	62.53	90.84	91.15	97.36	97.52	97.33	75.23	97.03	96.95	96.81	96.65	96.50	96.43
59.5	69.62	90.82	91.11	97.40	97.50	97.30	97.14	97.01	96.94	96.79	96.63	96.49	96.41
59.6	64.75	90.57	91.55	97.39	97.49	97.30	97.13	97.00	96.93	96.79	96.60	96.49	96.39
59.7	68.17	90.75	92.78	97.37	97.46	97.28	97.13	97.00	96.93	96.76	96.58	96.50	96.36
59.8	75.34	90.56	92.95	97.36	97.44	97.25	97.11	96.98	96.91	96.73	96.56	96.48	96.36
59.9	89.98	90.55	92.95	97.33	97.44	97.22	97.09	96.96	96.89	96.69	96.56	96.47	96.34
60.0	89.91	91.07	93.31	97.31	97.41	97.22	97.07	96.94	96.87	96.66	96.55	96.45	96.32
60.1	90.53	91.93	93.70	97.31	97.38	97.20	97.06	96.93	96.84	96.66	96.54	96.43	96.30
60.2	91.18	92.40	93.66	97.27	97.37	97.17	97.04	96.93	96.84	96.63	96.52	96.43	96.27
60.3	91.15	92.39	94.06	97.24	97.36	97.15	97.01	96.91	96.82	96.61	96.52	96.41	96.25
60.4	91.68	92.67	94.10	97.24	97.33	97.15	96.99	96.90	96.79	96.57	96.50	96.38	96.25
60.5	92.19	92.84	94.46	97.22	97.31	97.12	96.99	96.89	96.77	96.58	96.46	96.36	96.22
60.6	92.19	93.04	94.40	97.20	97.28	97.10	96.96	96.89	96.77	96.55	96.45	96.34	96.20

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
60.7	92.59	93.47	94.55	97.16	97.27	97.07	96.95	96.88	96.74	96.52	96.41	96.34	96.17
60.8	92.53	93.66	94.75	97.16	97.25	97.07	96.93	96.86	96.72	96.49	96.41	96.33	96.15
60.9	92.74	93.93	94.71	97.12	97.24	97.04	96.90	96.84	96.69	96.46	96.41	96.31	96.15
61.0	92.74	93.81	94.77	97.09	97.22	97.02	96.91	96.84	96.67	96.47	96.41	96.29	96.12
61.1	92.69	94.05	94.99	97.08	97.20	97.00	96.90	96.81	96.67	96.28	96.39	96.26	96.10
61.2	93.04	94.29	95.01	97.06	97.19	97.00	96.88	96.79	96.64	96.42	96.36	96.26	96.07
61.3	92.99	94.22	95.05	97.03	97.16	97.00	96.87	96.76	96.62	96.40	96.34	96.23	96.05
61.4	93.17	94.34	95.24	97.01	97.15	96.99	96.87	96.74	96.59	96.38	96.34	96.20	96.02
61.5	93.21	94.63	95.30	97.00	97.13	96.99	96.85	96.74	96.59	96.38	96.32	96.17	96.02
61.6	93.36	94.63	95.26	96.99	97.10	96.99	96.83	96.72	96.57	96.36	96.31	96.14	96.00
61.7	93.55	94.71	95.27	96.97	97.07	96.97	96.81	96.70	96.53	96.34	96.28	96.14	95.97
61.8	93.76	94.70	95.38	96.98	97.07	96.95	96.81	96.68	96.48	96.32	96.27	96.12	95.95
61.9	93.68	94.91	95.82	96.98	97.03	96.92	96.79	96.68	96.15	96.33	96.27	96.09	95.93
62.0	93.87	94.91	96.00	96.98	96.99	96.92	96.77	96.65	96.38	96.33	96.25	96.07	95.93
62.1	93.84	94.92	96.85	96.98	96.96	96.89	96.74	96.63	96.08	96.33	96.23	96.04	95.90
62.2	94.05	94.86	96.87	96.95	96.96	96.87	96.74	96.60	96.40	96.32	96.20	96.02	95.86
62.3	94.09	94.86	96.87	96.94	96.93	96.85	96.71	96.57	96.42	96.31	96.17	96.02	95.82
62.4	95.19	94.86	96.89	96.93	96.91	96.85	96.69	96.57	96.42	96.30	96.17	96.00	95.79
62.5	96.68	94.97	96.87	96.92	96.89	96.83	96.67	96.54	96.39	96.30	96.15	95.97	95.27
62.6	96.68	96.03	96.85	96.90	96.88	96.81	96.67	96.52	96.37	96.29	96.11	95.95	95.27
62.7	96.71	96.03	96.83	96.89	96.84	96.80	96.66	96.49	96.35	96.26	96.08	95.92	74.01
62.8	96.73	96.67	96.82	96.88	96.84	96.80	96.65	96.49	96.34	96.22	96.05	95.92	72.42
62.9	96.71	96.66	96.79	96.86	96.83	96.79	96.63	96.45	96.34	96.22	96.05	95.88	74.49
63.0	96.70	96.66	96.78	96.84	96.82	96.77	96.60	96.42	96.32	96.18	96.03	95.85	94.45
63.1	96.64	96.68	96.75	96.82	96.81	96.75	96.60	96.41	96.31	96.16	96.00	95.79	94.45
63.2	63.81	96.70	96.74	96.80	96.78	96.75	96.56	96.41	96.30	96.13	95.98	95.39	94.53
63.3	96.57	96.69	96.71	96.77	96.76	96.73	96.53	96.39	96.30	96.10	95.95	95.39	94.45
63.4	96.60	96.66	96.70	96.77	96.74	96.71	96.50	96.38	96.28	96.11	95.95	95.02	94.42
63.5	96.60	96.65	96.69	96.75	96.73	96.69	96.50	96.36	96.26	96.08	95.93	94.81	94.32
63.6	96.58	96.63	96.66	96.72	96.70	96.68	96.46	96.34	96.23	96.05	95.89	95.43	94.36
63.7	96.56	96.61	96.63	96.70	96.70	96.66	96.44	96.34	96.19	96.03	95.86	95.73	94.48
63.8	96.55	96.60	96.62	96.70	96.69	96.63	96.41	96.33	96.19	96.01	95.66	95.73	94.36
63.9	96.53	96.57	96.60	96.68	96.67	96.61	96.41	96.31	96.16	96.00	95.65	95.72	94.27
64.0	96.51	96.56	96.58	96.66	96.65	96.61	96.43	96.29	96.12	95.98	95.24	95.69	94.14

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 20 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
64.1	96.45	96.53	96.56	96.65	96.65	96.58	96.43	96.29	95.92	95.96	94.98	95.67	94.02
64.2	96.45	96.52	96.55	96.63	96.64	96.56	96.41	96.27	95.66	95.93	95.39	95.65	94.02
64.3	67.81	96.49	96.53	96.61	96.63	96.53	96.41	96.25	95.66	95.90	95.76	95.65	94.18
64.4	62.57	96.48	96.50	96.58	96.63	96.53	96.39	96.22	95.66	95.90	95.76	95.62	93.95
64.5	64.91	96.42	96.49	96.58	96.62	96.51	96.37	96.22	95.66	95.87	95.75	95.49	93.90
64.6	63.52	96.42	96.47	96.55	96.60	96.49	96.35	96.19	95.43	95.80	95.73	94.98	93.75
64.7	63.55	62.10	96.45	96.53	96.57	96.46	96.35	96.16	95.54	95.52	95.71	94.63	93.56
64.8	70.86	62.53	96.43	96.50	96.56	96.46	96.32	96.13	95.41	95.52	95.68	94.13	93.53
64.9	70.86	65.95	96.42	96.50	96.54	96.44	96.29	96.10	95.28	95.37	95.68	94.21	93.46
65.0	94.93	68.35	96.39	96.48	96.52	96.41	96.26	96.10	95.27	95.23	95.39	93.60	93.50
65.1	95.56	72.03	96.37	96.45	96.50	96.38	96.26	95.96	95.11	95.43	95.31	93.46	93.39
65.2	95.71	96.28	96.35	96.45	96.48	96.38	96.24	95.63	95.08	95.58	95.16	93.44	93.34
65.3	96.16	96.30	96.34	96.42	96.46	96.36	96.21	95.31	94.93	95.41	95.14	93.63	93.39
65.4	96.25	96.29	96.32	96.37	96.45	96.33	96.18	95.31	94.68	95.72	95.10	93.90	93.51
65.5	96.23	96.27	96.30	96.36	96.43	96.31	96.15	95.04	94.29	95.70	94.87	93.97	93.78
65.6	96.21	96.25	96.27	96.33	96.41	96.31	96.15	94.73	94.16	95.69	94.59	94.41	93.96
65.7	96.20	96.25	96.26	96.28	96.41	96.28	96.12	94.66	93.86	95.68	94.30	94.12	94.13
65.8	96.18	96.22	96.24	95.98	96.39	96.26	96.09	94.64	93.84	95.67	94.00	94.16	94.22
65.9	96.17	96.19	96.19	96.10	96.36	96.23	96.06	94.57	94.00	95.66	94.12	94.34	94.32
66.0	96.15	96.16	96.23	95.94	96.35	96.23	96.06	94.49	94.12	95.63	93.95	94.23	94.42
66.1	96.14	96.16	96.23	96.25	96.32	96.21	96.03	94.39	94.16	95.44	93.62	94.13	94.45
66.2	96.13	96.14	96.22	96.26	96.29	96.18	95.75	94.18	94.32	95.18	93.45	93.89	94.55
66.3	96.12	96.12	96.21	96.25	96.27	96.16	95.35	94.14	94.41	95.08	93.48	93.96	94.48
66.4	96.11	96.11	96.21	96.23	96.27	96.16	95.32	93.88	94.50	94.98	93.49	93.96	94.55
66.5	96.11	96.09	96.19	96.21	96.24	96.13	95.07	93.72	94.50	94.80	93.49	93.96	94.49
66.6	96.07	96.08	96.18	96.20	96.20	96.11	94.61	93.57	94.78	94.37	93.93	93.90	94.43
66.7	96.05	96.07	96.16	96.19	96.19	96.08	94.37	93.54	95.12	94.37	93.97	93.66	94.37
66.8	96.01	96.06	96.14	96.16	96.17	96.08	94.37	93.68	95.31	94.32	93.99	93.61	94.29
66.9	96.01	96.06	96.13	96.15	96.14	96.06	94.24	93.80	95.03	94.15	93.83	93.54	94.24
67.0	95.80	96.05	96.10	96.12	96.15	96.03	94.40	93.97	95.03	93.82	93.96	93.72	94.24
67.1	95.53	96.04	96.09	96.11	96.12	96.01	93.99	94.38	94.36	93.57	93.91	93.81	94.07
67.2	95.14	96.03	96.06	96.09	96.10	95.99	94.01	94.50	93.75	93.57	93.93	93.72	94.04
67.3	95.39	96.01	96.05	95.65	96.09	95.96	94.01	94.83	93.60	93.44	93.76	93.74	93.87
67.4	95.15	96.00	96.04	71.66	96.07	95.75	93.84	95.17	93.49	93.32	93.78	93.56	93.85

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 21 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
67.5	94.87	95.98	96.01	68.92	96.05	95.39	93.78	95.09	93.43	93.21	93.66	93.68	93.85
67.6	94.72	95.95	95.98	62.36	96.04	95.07	93.65	95.09	93.42	93.21	93.57	93.63	93.80
67.7	94.65	95.91	95.97	64.01	96.03	95.07	93.65	94.68	93.23	93.21	93.51	93.62	93.71
67.8	94.43	95.89	95.96	64.12	96.00	95.08	93.87	94.33	93.05	93.24	93.57	93.43	93.53
67.9	94.28	69.35	95.92	66.10	95.95	95.15	93.88	94.03	93.03	93.31	93.55	93.21	93.45
68.0	94.28	67.80	95.90	73.19	95.95	95.08	94.32	93.95	92.73	93.44	93.44	93.31	93.40
68.1	94.22	67.95	95.50	94.30	95.76	95.14	94.34	93.73	92.65	93.46	93.34	93.22	93.38
68.2	94.16	71.03	95.00	94.24	95.70	95.04	94.59	93.44	92.52	93.46	93.32	93.23	93.34
68.3	93.97	70.70	70.26	94.62	95.77	94.98	94.79	92.89	92.68	93.30	93.33	93.15	93.18
68.4	93.78	95.73	68.90	95.04	95.72	94.98	94.90	92.69	92.68	93.22	93.35	93.11	93.11
68.5	93.78	95.42	68.76	95.59	95.51	94.95	95.03	92.69	92.69	93.23	93.29	92.91	93.10
68.6	93.79	95.02	66.19	95.59	95.45	94.86	94.99	92.66	92.63	93.32	93.25	92.89	93.10
68.7	93.69	94.71	64.86	95.45	95.37	94.74	94.82	93.12	92.55	93.10	93.22	92.89	93.14
68.8	93.61	70.82	66.65	94.92	95.17	94.62	94.63	93.22	92.51	93.22	93.26	92.90	93.15
68.9	93.52	94.27	73.07	94.92	95.13	94.62	94.63	93.31	92.52	93.06	93.36	92.87	93.07
69.0	93.25	68.82	70.70	93.90	95.22	94.52	94.41	93.47	92.47	93.21	93.39	92.92	93.07
69.1	92.67	68.82	71.03	69.15	95.20	94.31	94.08	93.42	92.31	93.16	93.17	92.92	93.05
69.2	92.54	67.67	93.64	69.48	95.26	94.03	93.91	93.37	92.20	93.17	92.95	92.93	93.05
69.3	92.15	66.17	93.53	69.48	95.30	93.95	93.74	93.21	92.12	93.30	92.79	92.86	93.09
69.4	91.48	70.75	93.53	94.64	94.88	93.54	93.30	92.82	92.05	93.23	92.78	92.61	93.05
69.5	91.46	70.75	93.41	94.85	94.76	93.09	93.01	92.40	92.13	93.34	92.68	92.37	93.10
69.6	68.76	93.37	93.28	94.74	94.37	92.78	92.81	92.11	92.33	93.25	92.45	92.37	93.04
69.7	67.55	93.61	93.25	94.69	94.16	92.79	92.51	91.75	92.33	92.82	92.27	92.19	92.97
69.8	65.96	93.78	93.21	94.48	93.98	92.66	92.51	91.69	92.25	92.71	92.05	92.18	92.83
69.9	67.08	93.63	93.23	94.41	93.98	92.38	92.30	91.61	91.88	92.39	92.03	92.13	92.66
70.0	69.93	93.52	92.98	94.53	93.85	92.17	91.96	91.47	91.74	92.06	91.80	91.91	92.50
70.1	90.82	93.39	92.96	94.53	93.70	92.25	91.80	91.38	91.52	92.06	91.67	91.91	92.32
70.2	90.55	93.39	92.99	94.70	93.45	92.01	91.64	91.38	91.49	91.98	91.53	91.83	92.14
70.3	90.68	93.32	93.25	94.90	93.45	91.78	91.64	91.31	91.48	91.95	91.35	91.82	92.04
70.4	90.55	93.17	93.79	94.98	93.30	91.45	91.39	91.30	91.49	91.70	91.37	91.70	91.80
70.5	90.55	93.16	94.00	95.12	93.11	91.45	91.28	91.22	91.42	91.45	91.21	91.68	91.70
70.6	90.14	93.05	94.52	95.19	92.75	91.27	91.28	91.12	91.34	91.45	91.00	91.58	91.55
70.7	89.65	92.97	94.76	94.95	92.81	91.04	91.14	91.05	91.28	91.05	90.57	91.42	91.32
70.8	89.77	92.85	94.74	94.42	92.47	90.79	91.02	90.96	91.16	90.89	90.41	91.29	91.27

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 22 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
70.9	90.03	92.82	94.82	93.84	92.18	90.76	90.97	90.86	91.02	90.62	90.04	91.22	91.17
71.0	91.66	92.77	94.92	93.70	91.83	90.44	90.99	90.89	90.97	90.43	89.46	91.20	90.93
71.1	92.21	92.70	95.18	93.61	91.84	90.37	90.84	90.82	90.97	90.43	89.24	91.07	90.78
71.2	92.14	92.65	95.15	93.67	91.50	90.28	90.81	90.73	90.82	90.05	88.60	90.96	90.79
71.3	92.18	92.55	95.29	93.47	91.34	90.23	90.71	90.66	90.03	89.64	88.27	90.83	90.62
71.4	92.04	92.45	95.30	93.39	91.28	90.17	90.64	90.41	89.36	89.56	68.96	90.67	90.62
71.5	91.91	92.43	94.82	93.49	90.95	90.08	90.53	90.32	88.99	89.24	68.01	90.56	90.51
71.6	91.56	92.34	94.98	93.28	69.60	89.96	90.42	89.77	88.99	89.13	67.44	90.49	90.44
71.7	91.71	92.26	94.61	93.03	69.14	89.96	90.11	89.34	88.55	88.76	68.03	90.49	90.13
71.8	91.65	92.17	94.77	92.85	69.65	89.86	89.84	88.91	88.06	88.40	67.18	90.39	89.76
71.9	91.66	92.19	94.92	92.89	68.78	89.76	89.67	88.55	87.75	88.21	67.42	89.98	89.76
72.0	91.63	92.30	94.67	92.67	68.52	89.69	89.30	88.55	87.60	68.88	66.84	89.78	89.29
72.1	91.63	92.86	94.98	92.55	68.56	89.66	89.04	89.25	69.75	69.03	66.86	89.34	89.11
72.2	91.49	93.01	94.27	92.36	68.56	89.50	89.03	89.79	67.73	68.60	67.75	89.34	88.79
72.3	91.39	93.28	93.86	92.36	69.78	89.11	89.20	89.95	68.19	68.00	68.89	89.00	88.48
72.4	91.24	93.32	94.12	92.38	69.86	88.84	89.53	89.95	69.65	68.23	68.46	88.53	88.23
72.5	91.24	93.59	94.56	92.28	69.55	88.93	89.84	89.85	87.19	67.99	86.55	88.14	88.18
72.6	91.26	93.62	94.40	92.29	69.54	88.98	89.86	89.82	87.74	66.98	86.89	87.75	87.90
72.7	91.54	93.69	94.41	92.15	69.49	89.15	89.86	89.84	87.81	67.04	86.78	87.43	87.63
72.8	91.65	93.68	93.98	91.81	69.70	89.09	89.89	89.91	87.85	68.07	86.92	87.26	87.37
72.9	91.69	93.68	92.90	91.54	88.91	89.06	89.86	89.94	87.92	68.48	86.69	87.04	87.22
73.0	91.97	93.51	92.90	91.54	88.87	89.00	89.96	89.78	87.92	86.67	86.42	86.81	87.22
73.1	92.06	93.43	67.68	91.32	89.20	88.95	89.92	89.68	87.59	86.64	86.39	86.57	86.82
73.2	91.92	93.74	69.59	90.86	89.19	89.25	89.80	89.64	87.36	86.56	86.19	86.51	86.59
73.3	92.13	93.56	67.43	90.50	89.35	89.25	89.61	89.64	87.05	86.38	85.95	86.35	86.22
73.4	91.74	93.73	69.25	90.50	89.38	89.34	89.26	89.39	87.13	86.09	85.59	86.28	86.07
73.5	91.19	93.78	69.93	90.18	89.46	89.50	89.21	89.15	86.78	86.06	85.23	86.19	85.87
73.6	90.47	93.78	68.13	90.10	89.58	89.49	89.03	89.04	86.11	85.69	84.89	85.85	85.81
73.7	90.42	93.59	68.66	90.19	89.59	89.51	89.08	88.93	85.70	85.53	68.28	85.75	85.76
73.8	90.22	93.42	68.85	90.54	89.59	89.64	88.96	88.36	85.70	85.97	84.36	85.55	85.68
73.9	90.00	93.14	67.44	91.01	89.72	89.68	88.85	88.03	85.63	86.11	68.15	85.49	85.44
74.0	90.02	93.03	91.31	91.10	89.82	89.56	88.87	87.67	85.83	86.16	84.30	85.25	84.92
74.1	90.02	92.54	91.33	91.10	89.82	89.62	88.58	87.34	85.98	86.02	84.20	85.38	85.00
74.2	89.95	92.30	91.37	90.99	89.86	89.24	88.47	87.26	86.32	86.04	84.15	85.05	67.85

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 23 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
74.3	89.86	92.17	91.25	90.90	89.96	88.87	88.35	86.81	86.32	85.91	84.01	84.74	67.14
74.4	89.84	92.09	91.29	90.80	89.89	88.49	88.30	86.56	86.57	85.86	84.37	68.22	65.92
74.5	89.73	91.99	91.29	90.78	89.89	88.49	88.26	86.13	87.01	85.82	84.58	66.48	64.81
74.6	89.70	91.85	91.20	90.35	89.35	88.18	87.46	85.91	87.12	85.73	84.36	65.79	64.01
74.7	90.70	91.89	91.07	90.04	88.79	87.93	86.85	85.75	87.41	85.68	84.70	64.60	63.98
74.8	91.04	91.80	91.06	89.68	88.36	87.60	86.85	85.44	87.47	85.71	84.68	63.37	65.94
74.9	91.46	91.71	90.83	89.58	88.24	87.54	86.39	85.67	87.77	85.80	85.06	63.37	65.59
75.0	91.69	91.56	90.70	89.16	87.86	87.20	85.99	85.67	87.90	85.67	85.20	64.51	65.47
75.1	91.77	91.48	90.69	88.79	87.52	86.68	85.79	86.13	88.06	85.41	85.13	64.89	65.61
75.2	91.58	91.30	90.57	88.82	87.07	86.03	85.62	86.38	88.06	85.29	85.07	66.01	62.84
75.3	91.53	91.27	90.36	88.48	86.84	69.02	85.63	86.67	88.09	85.23	84.95	65.14	62.88
75.4	91.48	90.99	89.90	88.09	67.75	86.15	85.58	87.07	87.97	85.33	84.96	66.07	63.32
75.5	91.26	90.83	89.85	87.75	66.39	86.62	85.64	87.07	87.97	85.93	84.89	67.15	63.73
75.6	91.25	90.70	89.57	87.82	86.68	86.88	85.66	87.31	87.81	86.77	84.77	67.73	63.94
75.7	91.19	90.66	89.36	87.59	86.68	86.88	85.56	87.57	87.81	86.88	84.69	82.93	64.31
75.8	91.12	90.55	89.30	87.42	86.61	86.93	85.27	87.52	87.14	86.86	84.60	83.20	64.31
75.9	90.99	90.37	68.44	87.30	86.48	86.80	85.08	87.43	86.70	87.00	84.60	83.49	64.63
76.0	90.88	90.36	88.93	87.45	86.38	86.75	85.15	87.55	86.11	86.76	84.52	84.02	64.83
76.1	90.84	90.19	88.89	87.19	86.38	86.74	84.99	87.61	85.74	86.93	84.57	84.25	65.00
76.2	90.65	90.09	88.95	87.07	86.27	86.61	85.05	87.56	85.74	87.02	84.80	84.32	65.29
76.3	90.49	90.08	88.85	86.96	86.22	86.52	85.29	87.66	86.03	87.02	85.03	84.30	65.29
76.4	90.49	89.97	88.64	86.96	86.17	86.43	85.42	87.66	86.57	87.24	85.30	84.25	65.86
76.5	90.45	89.82	88.32	86.75	86.11	86.39	85.42	87.37	87.02	87.34	85.52	84.25	66.53
76.6	90.73	89.72	88.28	86.49	86.00	85.72	85.86	87.13	86.99	87.38	85.70	84.42	67.76
76.7	91.24	89.73	68.22	86.48	85.95	85.20	85.92	86.91	87.08	87.44	85.91	84.67	81.21
76.8	91.52	89.59	67.51	86.20	85.88	84.67	86.29	86.97	86.98	87.44	86.04	84.63	81.98
76.9	92.13	89.48	67.70	68.65	85.05	84.63	86.26	86.63	86.94	87.33	86.15	85.00	81.98
77.0	91.93	89.48	66.95	67.49	67.96	84.58	86.43	86.42	87.05	87.34	86.28	85.00	82.88
77.1	91.75	89.40	66.32	67.49	84.65	84.57	86.37	86.29	87.00	87.33	86.23	85.46	83.34
77.2	91.21	89.33	65.80	85.75	84.86	84.50	86.38	86.27	87.07	87.43	86.17	85.36	83.56
77.3	65.44	89.17	65.46	85.93	85.36	84.50	86.33	85.84	87.01	87.43	85.89	84.89	83.84
77.4	59.84	89.17	65.46	85.96	85.55	84.51	86.56	85.99	86.96	87.56	85.82	84.36	83.84
77.5	63.02	89.07	64.96	85.97	85.65	84.28	86.58	86.20	86.89	86.98	85.29	84.36	84.07
77.6	61.88	88.93	64.99	85.87	85.77	84.38	86.66	86.27	86.96	86.80	84.73	83.96	84.08

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 24 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
77.7	62.53	88.93	65.20	86.02	85.71	84.38	86.66	86.20	86.76	86.68	84.22	83.74	84.23
77.8	64.28	88.08	65.66	86.02	85.69	84.65	86.82	86.44	86.51	86.68	83.84	83.34	83.88
77.9	65.83	86.89	66.19	85.92	85.52	84.96	86.89	86.59	86.32	86.34	83.76	82.99	83.71
78.0	66.58	67.55	66.38	86.05	85.52	85.36	86.83	86.07	86.24	85.68	83.25	82.99	83.28
78.1	66.71	61.89	67.08	85.92	85.22	85.33	86.43	86.07	86.02	85.13	82.90	82.52	82.89
78.2	64.78	62.18	68.10	86.11	85.14	85.28	86.26	85.71	85.92	84.49	82.76	82.15	81.90
78.3	65.18	65.79	86.34	86.34	84.83	85.33	86.04	85.05	85.29	66.68	66.90	82.42	81.97
78.4	65.18	63.64	86.68	86.28	84.78	85.45	85.45	84.71	84.61	64.71	66.18	82.81	83.17
78.5	66.02	65.27	86.88	86.21	84.26	85.45	85.15	83.98	84.35	62.57	67.33	82.81	83.19
78.6	66.12	63.80	87.06	86.37	83.29	85.50	85.15	83.51	83.55	64.06	82.37	82.75	83.19
78.7	66.56	63.98	87.22	86.02	82.87	85.66	85.05	68.38	65.11	61.29	82.51	82.66	83.21
78.8	66.64	85.99	87.62	85.36	82.89	85.93	84.56	83.64	83.19	61.87	82.41	82.55	83.14
78.9	65.26	86.11	87.75	84.72	83.82	85.89	84.20	84.15	83.19	62.62	82.38	82.54	83.02
79.0	64.33	86.66	87.69	84.79	84.33	86.08	84.16	84.31	84.10	65.89	82.30	82.68	83.00
79.1	63.08	86.82	87.52	84.48	84.68	86.43	83.73	84.84	84.81	83.14	82.22	82.51	82.95
79.2	62.12	87.13	87.47	84.30	84.65	86.32	83.33	84.96	85.15	83.34	82.12	82.72	82.85
79.3	61.33	87.48	87.31	84.34	84.79	86.39	83.44	84.96	85.09	83.49	82.03	82.67	82.80
79.4	61.48	87.40	87.32	84.29	84.72	86.03	83.39	84.90	85.04	83.65	81.95	82.94	82.75
79.5	61.20	87.48	87.03	83.99	84.82	85.69	83.45	84.80	84.91	83.82	81.98	83.14	82.57
79.6	60.54	87.51	86.60	83.82	84.82	85.31	83.65	84.68	84.79	83.96	81.88	83.22	82.49
79.7	60.66	87.83	85.70	84.00	84.76	85.31	83.86	84.71	84.48	83.96	82.50	83.45	82.49
79.8	61.01	87.81	85.64	83.43	84.76	85.13	83.86	84.60	84.60	84.03	83.16	83.58	82.31
79.9	63.25	87.75	84.98	83.17	84.66	84.72	83.91	84.55	84.42	84.27	83.89	83.34	82.16
80.0	63.25	87.48	84.64	83.61	84.80	84.34	83.93	84.37	84.28	84.40	84.07	83.20	81.93
80.1	65.25	87.78	84.79	83.61	85.06	84.34	84.05	84.38	84.22	84.51	84.57	83.20	81.24
80.2	66.98	87.42	84.60	83.67	85.28	83.97	83.96	84.28	83.98	84.51	84.92	82.90	81.24
80.3	68.35	87.04	68.34	83.55	85.28	83.69	83.93	84.21	83.98	84.71	84.88	82.71	81.39
80.4	68.35	87.04	84.01	83.57	85.52	83.60	83.84	84.20	83.92	84.72	84.80	82.39	81.58
80.5	87.13	86.75	67.97	83.52	85.80	83.57	83.80	84.06	83.68	84.74	84.77	82.34	81.74
80.6	87.78	86.52	67.27	83.46	85.59	83.32	84.14	84.00	83.40	84.74	84.65	82.22	81.68
80.7	87.77	86.06	66.58	83.85	85.56	83.09	84.14	84.12	83.62	84.74	84.08	82.40	81.83
80.8	87.33	85.76	66.11	83.85	85.46	83.13	84.58	84.14	83.62	84.62	83.70	82.24	82.09
80.9	87.02	85.05	65.09	84.24	85.62	83.27	84.76	84.24	83.67	84.51	83.30	81.93	82.37
81.0	86.77	64.50	66.01	84.57	85.57	83.46	84.45	84.19	83.56	84.43	83.26	81.79	82.77

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 25 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
81.1	86.29	64.50	66.46	85.12	85.69	84.48	84.53	84.18	83.62	84.48	83.09	82.22	83.15
81.2	86.14	60.14	66.11	85.12	85.77	84.89	83.99	84.18	83.70	84.42	82.83	82.19	83.36
81.3	66.98	62.73	66.32	85.61	85.66	84.89	83.65	83.51	83.59	84.51	82.84	82.65	83.36
81.4	67.16	63.15	67.13	86.00	85.48	84.66	83.26	83.36	83.54	84.51	82.98	82.90	83.48
81.5	66.21	63.15	66.78	85.95	85.54	83.91	83.21	83.30	83.43	84.30	83.09	83.08	83.35
81.6	65.37	61.81	66.98	85.91	85.28	83.50	83.00	83.24	83.37	84.36	83.15	83.39	83.13
81.7	65.42	64.47	82.69	85.84	84.81	83.44	82.90	83.14	83.33	84.18	83.31	83.46	83.08
81.8	61.47	64.78	83.12	85.81	84.15	83.00	82.84	83.09	83.16	84.10	83.39	83.72	82.77
81.9	60.72	66.92	83.07	85.80	84.15	82.60	82.84	82.69	83.16	84.05	83.52	83.77	82.85
82.0	60.72	83.66	83.37	85.57	83.63	82.43	82.71	82.27	82.91	84.01	83.52	83.76	82.60
82.1	60.69	83.86	83.86	85.20	83.04	82.37	82.60	82.15	82.33	83.97	83.55	83.65	82.30
82.2	64.04	83.86	84.30	84.68	82.87	82.31	82.57	81.52	82.25	83.85	83.44	83.65	82.06
82.3	65.49	83.91	84.30	84.66	82.61	82.20	82.39	81.11	81.75	83.79	83.43	83.59	81.55
82.4	65.40	84.00	84.47	84.08	67.06	82.10	82.39	80.37	81.60	83.62	83.47	83.51	81.51
82.5	66.14	84.04	84.35	83.70	68.40	82.06	82.16	80.29	81.88	83.32	83.47	83.43	81.07
82.6	67.16	84.09	84.15	83.28	65.67	82.05	81.76	67.05	81.44	83.35	83.47	83.39	80.72
82.7	84.37	84.14	83.92	83.24	64.46	81.92	81.36	65.76	82.02	83.06	83.52	83.31	80.23
82.8	67.33	84.28	83.65	82.87	65.02	81.87	80.93	65.30	81.89	82.97	83.42	83.31	80.27
82.9	84.28	84.27	83.42	82.40	66.18	81.78	66.88	64.17	80.93	82.80	83.52	83.16	80.62
83.0	84.19	84.27	83.39	82.41	65.70	81.75	63.80	63.97	81.11	82.48	83.52	83.09	80.62
83.1	84.14	84.17	83.10	66.25	65.85	81.69	61.15	63.38	79.55	82.64	83.29	83.01	81.08
83.2	84.11	84.15	82.79	64.40	66.92	81.58	59.52	63.60	63.88	82.61	82.92	82.96	81.32
83.3	84.23	83.89	82.59	64.64	67.28	81.43	60.04	63.66	59.75	82.25	82.68	82.96	81.58
83.4	84.02	83.50	82.36	64.61	66.69	81.43	61.46	63.45	62.45	82.12	82.41	82.83	81.63
83.5	83.94	83.41	82.05	63.94	67.52	80.79	62.34	63.16	62.45	82.08	82.41	82.81	81.81
83.6	83.81	83.00	81.57	64.59	65.11	66.96	62.34	61.98	78.52	82.08	81.67	82.61	81.73
83.7	83.63	82.69	81.53	64.94	63.96	64.00	62.20	61.95	78.73	82.02	81.28	82.61	81.84
83.8	83.33	82.35	81.51	64.90	63.96	64.00	62.46	62.09	78.81	80.92	81.29	82.45	82.04
83.9	82.99	82.23	81.25	65.17	63.09	61.83	63.24	62.41	64.51	80.37	80.97	82.31	82.01
84.0	82.99	81.79	81.19	65.74	62.28	59.57	63.56	63.31	65.31	80.15	80.97	82.27	82.10
84.1	66.69	81.46	80.98	63.86	61.40	61.80	63.53	63.83	62.42	79.92	80.52	82.05	82.10
84.2	66.14	66.97	80.91	63.86	61.40	61.82	64.46	64.77	60.32	79.56	80.21	82.05	82.23
84.3	66.14	81.16	80.56	61.75	60.37	62.34	65.02	64.77	57.98	79.31	80.13	81.88	82.17
84.4	66.10	66.30	80.50	60.62	59.96	62.87	65.49	65.58	59.86	78.98	80.00	81.70	82.23

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
84.5	65.58	66.59	80.40	60.62	60.00	63.84	65.49	65.88	61.76	66.31	80.00	81.58	82.15
84.6	65.37	66.11	80.34	59.15	59.78	63.80	66.51	66.16	59.93	66.30	79.89	81.36	82.10
84.7	65.37	66.31	80.00	58.21	62.15	64.79	67.19	66.07	61.68	65.16	79.82	81.28	82.02
84.8	65.13	65.94	79.93	59.51	64.43	65.78	77.86	66.16	62.56	63.31	79.41	81.04	81.96
84.9	64.73	65.94	79.90	59.51	65.41	66.40	78.05	66.28	62.56	64.45	65.46	81.04	81.86
85.0	64.80	66.40	79.78	63.11	65.39	66.40	78.06	67.15	63.69	62.57	65.46	80.90	81.84
85.1	64.63	66.37	79.74	66.30	66.45	67.07	78.19	67.33	64.70	63.67	64.37	80.65	81.70
85.2	64.42	79.80	79.67	67.78	67.39	67.80	77.63	67.33	63.59	63.79	64.68	80.55	81.53
85.3	64.17	66.31	79.63	67.84	79.12	78.09	67.42	77.10	64.28	64.57	64.95	80.13	81.42
85.4	63.80	66.70	66.70	67.89	79.12	78.09	67.30	77.17	64.28	65.64	64.58	80.13	81.29
85.5	63.61	66.44	64.84	68.04	79.32	78.29	66.42	77.22	65.87	64.47	64.58	79.77	81.06
85.6	63.33	66.44	62.60	68.04	79.41	78.24	65.88	77.19	66.66	65.25	64.24	79.42	80.70
85.7	62.70	66.15	63.69	68.06	79.31	78.48	65.88	77.09	65.78	65.27	63.42	79.39	80.52
85.8	62.21	63.28	64.98	79.72	79.31	78.43	66.01	76.58	67.16	64.50	63.34	79.26	80.41
85.9	62.51	62.43	78.42	79.65	79.25	78.37	67.22	67.12	67.31	65.32	63.45	79.26	80.09
86.0	62.91	62.72	79.03	79.66	79.11	78.27	76.76	67.12	66.85	64.22	63.45	79.00	79.98
86.1	62.97	62.41	79.03	79.63	79.11	78.17	77.24	66.96	67.19	65.78	63.64	79.18	79.63
86.2	63.20	64.87	78.99	79.76	79.02	78.17	77.26	66.93	66.66	65.74	63.69	79.05	79.58
86.3	63.20	65.05	78.91	79.66	78.92	78.10	77.28	67.08	75.58	64.89	63.90	78.91	79.01
86.4	63.44	66.12	78.83	79.65	78.88	78.03	77.24	75.79	75.95	64.89	64.08	79.00	78.95
86.5	63.25	78.99	78.75	79.78	78.83	77.65	76.44	76.03	75.77	61.90	64.08	78.62	78.62
86.6	63.34	78.99	78.57	79.72	78.70	77.60	76.44	75.82	66.39	61.00	64.37	78.77	78.68
86.7	63.08	78.90	78.56	79.63	78.69	77.30	66.77	75.25	66.04	61.73	64.48	78.46	78.46
86.8	63.26	79.06	78.65	79.63	78.57	77.03	65.88	66.14	64.41	61.11	64.62	78.24	78.44
86.9	63.93	79.24	78.56	79.27	78.52	76.58	65.71	65.74	63.33	61.11	64.74	77.79	78.44
87.0	63.99	79.23	78.68	79.12	78.37	76.78	65.41	64.79	62.33	59.82	64.74	77.78	78.39
87.1	64.48	79.29	78.89	79.11	78.15	76.22	65.36	64.16	62.64	58.85	64.91	77.28	78.00
87.2	64.79	79.32	78.98	78.78	77.76	66.12	65.79	64.02	64.38	59.47	64.96	76.90	77.57
87.3	65.11	79.58	79.19	78.65	78.06	65.84	65.78	64.69	64.56	59.73	64.21	76.82	77.32
87.4	65.52	79.69	79.44	78.19	77.10	65.84	65.58	64.69	66.52	59.73	64.06	76.38	77.35
87.5	65.76	79.69	79.70	78.19	66.27	65.57	65.85	66.06	74.29	59.37	64.06	76.34	76.83
87.6	65.77	79.96	79.66	78.14	65.69	64.84	65.80	75.00	74.66	59.22	64.99	76.11	65.67
87.7	66.41	79.94	79.12	78.02	65.69	64.41	65.92	75.09	74.95	59.47	65.35	75.87	65.08
87.8	66.92	80.09	78.67	77.91	64.62	64.41	65.09	75.17	75.23	60.21	65.44	75.78	65.25

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
87.9	79.49	80.08	78.01	77.91	63.98	64.19	64.83	75.29	75.14	60.80	65.47	75.72	65.42
88.0	79.52	80.22	77.92	77.77	63.85	64.14	64.56	75.46	75.44	60.86	65.47	75.64	65.42
88.1	79.86	79.91	77.74	77.46	63.50	64.22	63.83	75.66	75.44	61.00	65.54	75.60	65.70
88.2	79.97	79.69	77.47	65.85	61.99	64.34	63.74	75.83	75.35	61.26	65.52	75.47	65.81
88.3	79.97	79.20	77.46	65.85	60.51	64.25	63.74	75.78	75.45	61.54	65.59	65.29	65.90
88.4	80.19	79.17	77.33	64.57	60.94	64.37	65.28	76.16	75.54	61.84	65.28	63.89	65.97
88.5	80.46	78.73	77.30	63.60	60.00	64.33	65.90	76.43	75.59	60.99	65.28	61.25	65.97
88.6	80.37	78.39	77.17	63.60	60.89	64.37	66.57	76.49	75.76	60.79	65.16	60.52	75.78
88.7	80.10	78.29	77.10	62.40	62.09	64.30	66.58	76.26	75.62	60.70	64.16	53.36	66.10
88.8	80.02	77.85	77.02	57.94	61.37	63.33	74.64	75.80	75.38	61.08	63.87	55.06	64.05
88.9	79.81	77.36	76.99	56.92	61.73	63.47	74.91	75.14	75.08	61.75	61.22	56.77	61.11
89.0	79.78	77.36	76.84	56.79	63.02	63.47	75.11	74.63	74.85	61.25	61.22	55.58	59.00
89.1	79.37	77.13	76.78	58.33	63.46	63.87	75.09	74.63	74.64	61.61	52.67	55.54	55.77
89.2	79.04	76.93	76.70	59.07	62.94	64.12	75.54	73.93	74.36	61.60	56.23	57.03	54.32
89.3	78.97	76.80	75.68	59.87	63.15	64.38	75.79	73.87	74.26	61.60	54.91	58.20	53.22
89.4	78.67	76.80	75.34	60.24	63.47	64.56	75.94	73.93	74.20	61.27	55.65	58.69	54.87
89.5	78.36	76.61	74.70	61.64	63.88	64.83	75.94	74.11	74.20	61.56	55.65	58.54	56.18
89.6	78.11	76.24	66.13	60.97	63.88	65.58	75.95	74.39	74.11	62.12	57.56	59.05	53.65
89.7	65.71	76.24	64.85	62.55	64.45	66.23	76.28	74.44	74.03	63.03	58.94	59.05	53.62
89.8	65.27	75.82	65.09	63.22	65.52	66.54	76.34	74.82	73.94	63.03	57.74	59.36	55.06
89.9	64.52	67.02	64.39	64.37	66.11	74.10	76.28	74.89	73.87	63.83	59.15	59.71	55.81
90.0	64.68	65.26	64.41	65.17	66.11	75.00	76.23	74.99	73.87	64.27	58.06	59.56	55.59
90.1	61.52	65.26	64.46	65.41	66.84	75.81	76.20	75.36	72.91	64.70	59.57	59.07	55.59
90.2	61.50	65.02	63.71	66.38	74.84	75.81	76.09	75.32	65.26	65.66	59.52	59.07	55.59
90.3	61.50	64.35	64.87	66.93	75.07	76.29	75.97	74.84	64.19	65.66	58.61	58.30	56.79
90.4	61.55	65.03	66.63	75.42	75.09	76.30	75.97	74.10	64.46	66.38	59.86	58.23	57.18
90.5	61.72	64.46	73.76	75.54	75.31	76.19	75.86	74.10	64.54	66.79	60.35	58.66	58.60
90.6	61.64	64.62	74.31	75.97	75.48	76.30	75.30	73.42	71.28	73.48	59.90	59.02	58.91
90.7	61.72	64.97	74.78	75.93	75.81	75.79	74.77	72.63	72.22	73.77	61.20	59.02	59.23
90.8	61.69	65.49	74.93	76.11	75.85	75.34	74.73	71.74	73.11	73.77	62.16	59.15	59.23
90.9	61.66	65.11	75.38	76.09	75.90	74.93	74.12	71.28	72.95	73.86	63.31	59.36	60.48
91.0	61.55	66.07	75.37	75.98	76.13	75.10	73.57	64.89	73.13	73.98	64.27	60.06	64.91
91.1	64.33	66.20	75.48	75.87	76.20	74.62	72.88	65.10	73.30	74.02	65.07	60.33	65.90
91.2	64.26	66.63	75.45	75.89	76.03	74.15	72.83	71.28	73.25	74.00	66.47	60.33	64.77

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
91.3	64.32	74.66	75.47	76.02	76.64	73.73	72.09	71.28	73.16	74.00	74.02	60.97	64.77
91.4	64.25	74.70	75.76	76.36	76.20	72.92	70.92	72.38	73.16	73.92	73.97	61.06	64.04
91.5	64.19	74.98	75.91	76.84	75.19	73.09	62.45	72.64	73.24	74.08	73.98	61.26	64.41
91.6	64.30	75.01	76.00	76.95	75.19	71.99	70.82	72.83	73.29	74.15	73.88	61.09	63.95
91.7	64.26	75.15	76.09	77.11	74.47	65.22	70.82	72.95	73.67	74.25	73.61	61.21	64.24
91.8	64.31	75.15	76.38	76.60	73.65	62.65	71.17	73.02	73.87	74.27	65.98	61.64	64.30
91.9	64.28	74.96	76.58	76.14	72.77	62.60	71.95	73.50	73.83	74.21	65.38	61.72	64.30
92.0	64.31	74.85	76.67	76.14	65.22	61.54	72.19	73.97	74.05	74.36	64.34	62.18	64.16
92.1	64.31	74.90	76.81	75.31	61.53	62.60	72.14	74.14	74.39	74.20	64.75	62.54	64.34
92.2	64.30	75.38	77.13	75.09	58.62	62.72	72.36	74.14	74.43	74.01	64.04	63.16	64.64
92.3	64.56	75.64	76.97	74.92	57.65	62.81	73.16	73.89	74.57	73.90	63.45	63.24	64.77
92.4	65.32	75.96	76.63	74.93	59.16	72.25	73.65	72.92	74.49	73.64	63.12	63.74	64.77
92.5	75.38	76.12	76.01	74.20	56.77	73.66	73.65	72.06	73.83	73.47	62.25	64.40	65.05
92.6	75.38	76.48	75.80	73.37	59.71	73.84	74.08	71.17	73.36	73.16	62.96	65.26	65.03
92.7	75.63	76.61	75.34	73.37	60.08	73.84	74.29	71.30	73.36	73.05	63.01	65.54	65.65
92.8	76.00	76.69	75.00	73.14	62.79	74.06	74.17	70.15	72.65	72.63	62.69	65.54	65.94
92.9	76.15	77.07	74.73	65.80	62.77	74.05	73.95	69.99	71.91	71.75	62.50	65.89	65.87
93.0	76.20	77.19	74.63	62.30	72.15	74.12	73.62	66.60	71.12	64.96	62.11	66.02	72.72
93.1	76.53	77.25	74.25	65.13	72.24	74.30	72.92	69.95	69.71	64.27	62.25	71.97	72.78
93.2	76.69	77.22	73.92	62.45	72.69	74.14	72.15	69.80	65.25	64.05	61.87	66.37	73.00
93.3	76.66	76.83	73.83	62.43	73.21	74.30	71.45	69.79	60.69	61.64	61.83	72.10	72.95
93.4	76.84	76.58	73.83	62.45	73.49	73.95	71.09	69.98	62.04	60.30	62.47	66.28	72.86
93.5	76.80	76.58	73.71	65.81	73.49	73.55	70.05	71.20	62.48	60.51	62.84	72.24	72.93
93.6	76.93	76.56	73.61	62.41	73.11	73.18	69.62	71.20	69.46	60.81	62.94	72.29	72.93
93.7	76.98	76.41	73.58	64.92	72.81	72.49	65.65	71.06	69.78	60.81	63.66	72.77	73.04
93.8	76.95	76.13	73.50	65.87	72.43	71.80	64.28	71.25	70.60	60.66	64.36	72.96	72.96
93.9	77.13	76.29	73.38	72.70	72.63	71.80	63.48	71.24	71.41	60.32	64.98	72.95	72.84
94.0	77.22	76.18	73.26	73.31	72.01	70.75	69.38	71.28	71.50	60.51	65.48	73.01	72.81
94.1	77.12	75.96	73.26	73.81	71.60	69.78	69.95	71.51	71.50	60.23	65.57	73.11	72.79
94.2	77.05	75.96	73.21	73.92	70.74	69.66	69.95	71.68	71.56	60.23	71.94	73.24	72.72
94.3	77.01	75.68	72.97	74.33	64.60	65.58	70.44	71.89	71.55	60.04	72.33	73.26	72.64
94.4	76.85	75.61	72.92	74.44	61.51	62.81	70.38	71.89	71.76	60.20	72.30	73.24	72.53
94.5	76.74	75.54	72.74	73.89	61.41	63.42	70.81	72.20	71.34	61.69	72.28	73.45	72.49
94.6	76.74	75.22	72.90	73.72	61.41	63.68	70.77	72.15	71.34	64.73	72.21	73.37	72.40

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
94.7	76.63	74.95	73.07	73.36	61.36	64.13	71.25	71.96	70.79	64.73	72.25	73.32	72.40
94.8	76.50	74.78	73.37	72.68	61.28	63.65	71.28	71.88	70.09	71.10	72.14	73.28	72.60
94.9	76.43	74.70	73.43	71.76	61.29	61.18	71.49	71.77	68.95	71.76	72.29	73.44	72.64
95.0	76.35	74.46	73.91	71.76	61.15	64.20	71.46	71.33	64.40	71.87	72.30	73.44	72.97
95.1	76.27	74.05	73.90	61.34	61.15	64.20	71.80	70.91	64.40	71.98	72.26	73.32	73.00
95.2	76.18	74.04	74.22	64.17	61.12	64.63	72.12	70.41	62.53	72.02	72.21	73.42	73.00
95.3	76.15	73.62	74.24	63.98	61.14	66.00	72.45	70.41	63.42	72.41	72.21	73.42	73.17
95.4	75.82	73.86	73.76	62.42	65.51	69.00	72.05	68.49	69.15	72.88	72.37	73.60	73.29
95.5	75.46	74.21	73.64	61.20	64.65	69.00	72.33	68.41	69.95	73.36	72.32	73.60	73.45
95.6	74.98	74.25	73.01	65.36	70.20	69.14	72.00	68.42	70.62	73.43	72.28	73.55	73.64
95.7	74.48	74.41	72.45	65.36	70.73	70.24	71.46	70.10	70.52	73.76	72.39	73.57	73.83
95.8	74.62	74.54	71.90	71.39	70.85	70.73	70.86	70.01	70.47	74.14	72.39	73.61	73.84
95.9	74.84	74.53	71.90	71.91	71.06	70.87	70.83	70.00	70.59	74.51	72.46	73.57	73.80
96.0	75.55	74.43	71.45	72.20	71.36	71.47	70.24	69.91	70.59	74.76	72.63	73.55	73.94
96.1	75.41	74.15	71.41	72.25	71.49	71.95	69.43	69.92	70.97	74.78	72.62	73.66	73.86
96.2	75.35	73.92	71.41	72.35	71.63	72.28	69.16	69.83	71.04	74.96	73.17	73.59	73.66
96.3	75.33	74.02	65.32	72.25	71.96	72.36	69.16	69.17	71.59	74.91	73.19	73.51	73.66
96.4	75.25	73.66	64.72	72.19	71.99	72.51	68.45	68.00	71.71	74.86	73.22	73.59	73.49
96.5	75.06	73.44	64.43	72.16	72.44	71.99	68.38	67.76	72.01	74.73	73.03	73.59	73.15
96.6	75.06	73.47	64.43	72.05	72.38	71.83	68.43	68.41	72.33	74.70	73.00	73.57	72.90
96.7	74.79	72.99	65.25	71.96	72.35	71.83	68.33	68.41	72.72	74.59	72.93	73.54	72.55
96.8	74.45	72.72	71.16	71.96	72.23	71.70	68.24	69.47	72.80	74.60	72.85	73.62	72.13
96.9	74.42	72.27	71.24	71.79	72.17	71.64	68.29	69.71	72.92	74.56	72.76	73.73	72.29
97.0	74.11	72.28	71.22	71.70	72.17	71.64	68.24	71.17	73.04	74.50	72.72	73.73	72.09
97.1	73.83	71.81	71.13	71.66	72.10	71.76	68.38	71.02	73.23	74.43	72.73	73.73	71.99
97.2	73.73	71.47	71.10	71.63	71.97	71.63	68.38	72.29	73.43	74.32	72.73	73.83	71.76
97.3	73.51	71.50	71.10	71.62	71.85	71.57	68.62	73.70	73.41	74.22	72.75	73.97	71.59
97.4	72.84	71.34	71.33	71.48	71.85	71.57	68.65	73.57	73.47	73.73	72.81	73.93	71.28
97.5	72.56	71.27	71.51	71.34	71.74	71.71	68.59	73.57	73.59	73.41	72.96	74.08	71.28
97.6	72.49	64.81	71.51	71.29	71.65	71.46	68.66	72.83	73.75	73.39	73.19	74.08	70.89
97.7	72.09	71.32	71.51	71.25	71.65	70.76	68.48	70.98	73.91	73.01	73.19	74.13	70.47
97.8	65.35	71.31	71.65	71.20	71.57	70.41	68.61	64.84	73.91	72.66	73.14	74.02	70.38
97.9	65.35	71.24	71.82	71.06	71.47	70.41	68.52	61.69	73.85	72.47	72.99	73.93	70.34
98.0	64.80	71.24	71.76	71.03	71.41	70.56	68.52	60.04	74.03	71.98	73.07	73.98	70.10

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
98.1	71.45	71.14	71.94	70.96	71.45	70.73	68.84	56.61	74.07	71.98	73.03	73.64	69.88
98.2	71.45	71.04	72.04	70.87	71.56	70.93	68.95	58.24	73.70	71.84	73.03	73.62	69.84
98.3	71.69	71.04	72.24	70.85	71.53	70.85	68.88	63.49	73.66	71.47	72.80	73.16	69.76
98.4	71.82	70.92	72.24	70.80	71.47	70.89	69.09	63.49	73.54	64.95	72.64	72.87	64.75
98.5	71.54	70.81	72.37	70.68	71.36	70.50	69.09	70.64	73.16	63.81	72.91	72.62	60.84
98.6	71.48	70.74	72.58	70.58	71.40	70.74	69.10	71.85	73.05	62.56	72.58	72.45	60.84
98.7	71.36	70.74	72.73	70.58	71.29	70.95	69.37	72.48	72.84	61.14	72.58	72.24	59.91
98.8	65.04	71.43	72.77	70.47	71.21	70.95	69.65	72.91	72.79	59.63	72.12	71.97	62.65
98.9	65.04	72.03	72.84	72.10	71.15	71.04	69.65	72.91	72.81	57.92	71.37	71.61	64.08
99.0	65.05	71.95	72.94	72.77	71.15	71.14	69.94	72.94	72.73	59.20	70.85	71.24	69.24
99.1	65.02	72.80	72.94	72.77	71.02	71.11	70.27	72.92	72.69	58.07	64.78	71.06	69.24
99.2	64.80	73.28	73.15	72.89	70.99	71.23	70.33	73.08	72.69	58.15	64.78	70.85	69.18
99.3	64.99	73.53	73.21	73.03	70.85	71.45	70.41	72.94	72.65	58.21	60.88	64.91	68.99
99.4	64.96	73.53	73.37	73.03	70.88	71.47	70.67	72.94	72.42	58.80	58.55	61.81	68.93
99.5	64.91	73.39	73.37	72.99	70.79	71.37	70.79	73.16	72.45	58.70	56.11	61.94	68.97
99.6	64.60	73.27	73.31	73.05	70.66	71.31	71.05	73.08	72.35	59.08	56.43	60.31	68.89
99.7	64.95	73.22	73.44	73.04	70.72	71.55	71.09	73.10	72.35	59.24	56.43	58.59	68.90
99.8	70.53	73.15	73.44	73.04	70.85	71.71	71.20	73.10	72.20	60.07	57.29	58.59	68.83
99.9	70.53	73.05	73.35	73.11	70.60	71.86	71.26	73.18	72.04	60.30	59.31	57.62	68.77
100.0	70.73	72.90	73.17	73.00	70.93	71.79	71.38	73.14	71.88	60.97	57.65	58.08	68.73
100.1	70.73	72.89	73.06	72.93	71.21	71.91	71.38	73.18	71.53	61.22	60.49	57.39	64.45
100.2	70.85	72.90	73.06	72.88	71.52	72.16	71.42	73.16	71.76	61.06	60.49	55.59	62.08
100.3	70.75	72.75	73.01	72.62	71.80	72.05	71.43	73.10	71.46	61.19	61.54	55.59	63.58
100.4	70.71	72.73	72.90	72.42	72.23	72.05	71.35	72.95	71.34	60.94	63.00	54.95	61.44
100.5	70.68	72.65	72.90	72.07	72.18	71.84	71.44	72.81	71.12	61.26	61.89	55.60	60.44
100.6	70.62	72.60	72.75	72.01	71.83	71.40	71.39	72.81	71.08	61.57	62.44	55.05	59.75
100.7	70.48	72.46	72.62	71.71	70.92	71.25	71.39	72.69	70.82	61.76	62.44	55.53	59.60
100.8	70.55	72.41	72.53	71.35	70.24	71.20	71.30	72.41	70.61	62.15	62.87	54.20	59.53
100.9	70.55	72.35	72.53	71.39	70.24	70.70	71.14	72.23	70.37	62.10	63.53	53.62	59.41
101.0	70.83	72.20	72.43	71.19	69.57	70.36	71.14	72.16	70.13	62.36	62.67	54.01	59.15
101.1	71.08	72.17	72.29	70.94	69.10	70.15	71.03	72.14	70.13	62.42	63.46	54.98	58.96
101.2	71.24	72.04	72.29	70.70	69.07	70.08	70.97	71.99	69.82	62.92	63.46	55.31	58.72
101.3	71.38	71.96	71.93	70.69	68.98	70.02	70.89	71.83	64.15	63.16	63.82	55.84	58.70
101.4	71.63	71.90	71.50	70.51	68.86	69.81	70.87	71.70	64.02	63.52	64.37	55.84	58.70

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
101.5	71.54	71.85	71.06	70.21	69.14	69.35	70.67	71.70	64.00	63.73	63.48	55.94	58.74
101.6	71.48	71.75	71.06	70.14	69.21	69.35	70.58	71.59	63.86	64.32	64.74	56.15	58.79
101.7	71.46	71.70	70.50	70.11	69.31	68.67	70.52	71.38	63.80	64.88	64.74	56.49	58.78
101.8	71.26	71.58	70.39	70.03	69.25	64.54	70.46	71.23	63.45	69.55	64.88	56.98	58.74
101.9	71.24	71.50	70.64	69.95	69.30	64.69	70.43	71.09	62.91	69.55	64.58	56.98	58.74
102.0	71.11	71.41	70.64	69.90	69.46	62.65	70.20	71.09	62.89	69.84	63.34	57.07	58.76
102.1	71.08	71.41	70.62	69.90	69.36	60.96	70.14	70.88	62.14	69.88	63.65	57.32	59.44
102.2	71.01	71.32	70.72	70.00	69.36	62.19	69.92	70.76	61.86	69.97	63.65	57.64	60.42
102.3	71.18	71.21	70.72	69.72	69.07	60.96	69.75	70.59	61.19	70.05	63.36	58.13	60.08
102.4	71.30	71.13	70.61	69.71	68.74	60.55	69.76	70.54	60.73	70.10	62.97	58.13	59.00
102.5	71.26	71.04	70.09	69.12	68.74	60.99	69.55	70.41	60.75	69.97	61.40	57.09	59.00
102.6	70.99	70.91	64.50	64.81	68.37	61.36	69.29	70.12	60.89	69.29	60.68	56.52	58.16
102.7	70.81	70.62	64.50	63.35	64.64	61.16	69.29	69.93	60.89	69.05	60.68	55.53	57.31
102.8	70.40	70.62	62.37	63.35	64.62	61.16	68.81	69.85	60.48	62.74	59.67	54.68	56.91
102.9	70.40	70.39	60.90	61.95	64.25	60.61	68.53	69.85	60.71	61.79	59.16	54.50	57.32
103.0	70.35	69.70	60.90	61.60	64.46	60.60	68.52	69.72	60.73	61.56	57.76	53.91	57.94
103.1	70.23	69.22	59.33	60.95	64.04	61.19	68.34	69.59	61.42	60.86	57.04	53.66	58.38
103.2	69.94	69.22	57.77	60.95	63.28	61.36	67.78	69.42	61.57	60.37	56.25	54.44	59.47
103.3	69.87	68.65	56.94	60.93	63.41	61.35	67.46	69.24	62.03	56.76	57.35	55.66	60.52
103.4	69.48	64.03	56.94	60.90	62.96	62.04	64.09	63.43	62.30	57.11	57.34	56.56	60.64
103.5	69.14	63.94	57.26	60.95	61.01	62.06	63.57	61.45	62.55	55.61	59.45	56.75	60.57
103.6	68.97	63.03	57.34	60.92	59.74	61.64	62.11	60.16	62.84	55.72	61.53	57.79	60.49
103.7	68.92	61.94	57.61	60.98	59.88	62.07	60.46	60.16	62.91	58.43	61.24	58.90	60.51
103.8	68.56	59.18	57.73	61.09	58.84	60.99	59.20	58.96	62.48	57.66	62.18	59.36	60.40
103.9	68.49	59.18	57.94	61.04	58.16	60.23	59.16	57.84	61.83	60.45	61.42	60.48	60.02
104.0	63.51	57.28	58.10	60.93	58.02	60.21	58.28	57.74	61.63	60.39	61.57	60.28	59.93
104.1	63.44	55.64	58.10	60.11	57.17	59.84	57.31	57.39	60.53	60.75	61.67	60.46	59.57
104.2	63.42	55.83	58.36	58.78	56.94	59.52	57.27	56.52	59.75	60.29	61.08	60.40	59.57
104.3	63.19	55.48	58.43	58.63	56.51	59.53	57.12	55.14	59.75	60.34	61.88	60.55	59.36
104.4	61.18	55.44	57.83	57.81	56.51	59.42	57.37	54.73	59.14	60.37	61.18	60.42	58.98
104.5	61.19	57.31	57.84	57.73	55.98	58.86	57.41	55.37	58.68	60.52	61.90	60.22	58.54
104.6	62.78	58.64	57.72	57.25	55.84	58.17	57.76	55.37	58.42	60.51	62.00	60.22	57.88
104.7	61.12	58.80	57.15	57.16	55.87	58.84	57.91	54.29	58.35	60.11	61.38	60.16	57.75
104.8	60.02	57.99	57.15	56.67	55.87	58.69	57.91	54.74	58.35	60.44	62.15	60.18	57.45

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 32 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
104.9	60.87	57.52	56.72	56.48	56.05	57.74	58.17	55.36	58.37	59.90	61.49	59.67	57.10
105.0	59.19	56.52	55.88	56.12	56.63	58.16	58.28	54.40	58.34	60.15	61.59	59.25	56.92
105.1	58.26	56.82	55.87	55.73	56.76	58.17	58.28	54.40	58.34	60.02	61.68	58.91	56.97
105.2	58.26	56.92	55.70	56.44	56.74	58.35	58.48	53.90	58.32	59.66	61.09	57.80	57.11
105.3	56.81	57.04	55.40	57.29	57.14	58.35	58.53	53.43	58.30	59.66	61.67	57.49	57.11
105.4	55.64	57.19	54.91	57.32	57.24	58.99	58.51	53.35	58.35	59.20	60.96	56.56	57.22
105.5	55.10	57.29	54.92	57.85	57.83	59.61	58.63	54.02	58.12	59.08	60.64	56.25	57.36
105.6	55.10	57.13	55.05	58.77	57.96	60.29	58.69	56.46	57.52	58.77	60.41	55.88	57.38
105.7	55.01	56.47	55.88	59.65	58.03	60.26	58.69	56.82	57.12	57.34	59.29	55.69	56.93
105.8	54.50	56.57	56.18	59.65	58.62	60.53	58.78	57.40	56.52	57.34	59.57	55.25	56.97
105.9	54.99	56.34	56.35	60.64	58.58	61.18	58.82	57.70	56.14	55.43	58.62	53.83	56.90
106.0	54.55	55.49	57.12	61.19	58.61	61.60	58.78	57.70	55.33	54.21	58.29	51.71	57.06
106.1	54.70	55.22	57.16	61.58	58.55	61.27	58.93	57.62	55.79	52.91	57.68	50.30	57.08
106.2	55.37	55.50	57.48	61.58	59.27	62.08	60.29	57.72	55.79	53.25	57.08	50.30	57.13
106.3	55.53	55.56	57.81	61.50	59.34	62.17	61.16	57.34	56.29	53.25	57.28	51.06	56.62
106.4	55.03	56.85	58.16	61.43	59.34	62.45	61.95	57.08	56.61	54.32	56.82	53.11	56.50
106.5	55.31	57.41	58.42	61.40	60.06	62.45	61.95	57.35	56.96	54.91	54.85	53.60	56.35
106.6	55.84	57.93	58.42	61.36	60.45	62.27	63.13	57.37	57.61	55.04	54.49	55.26	56.33
106.7	55.82	57.95	58.50	61.29	61.12	61.99	62.70	57.33	57.61	55.67	55.07	55.26	56.56
106.8	55.46	57.94	58.98	61.26	61.31	62.09	61.71	57.58	58.62	56.40	55.51	54.89	56.89
106.9	56.06	57.56	59.00	61.20	62.04	61.94	61.44	57.40	59.00	56.97	56.92	55.14	56.92
107.0	56.90	57.90	58.93	61.14	62.11	61.22	60.71	57.47	59.20	57.56	56.85	56.17	56.85
107.1	58.84	57.96	59.45	60.57	62.61	61.54	59.76	57.65	59.19	57.72	57.19	57.16	57.01
107.2	58.84	57.92	59.40	60.06	62.66	60.98	59.48	57.60	59.19	58.06	56.88	57.16	57.80
107.3	60.88	57.92	59.44	60.28	62.78	60.64	59.51	57.33	59.20	58.70	57.57	57.65	58.95
107.4	61.46	57.94	59.38	60.08	62.80	60.69	59.51	57.61	59.18	59.18	57.30	58.13	60.12
107.5	61.56	57.92	59.31	59.40	62.74	59.92	60.71	57.59	59.17	59.43	57.70	58.86	59.46
107.6	61.56	57.87	59.33	59.01	63.11	59.77	62.77	57.84	59.16	59.22	58.10	58.95	61.11
107.7	64.19	57.87	59.25	58.96	62.94	59.77	63.60	57.95	59.15	59.03	57.86	59.62	61.43
107.8	64.31	59.29	59.22	58.80	62.87	59.59	64.21	58.29	59.55	59.31	58.72	59.34	61.82
107.9	64.23	60.99	59.15	58.05	62.95	59.91	65.97	58.39	59.67	59.31	58.56	59.96	61.46
108.0	64.16	60.99	59.17	58.01	62.76	60.45	66.47	58.83	59.98	59.48	59.07	59.99	61.55
108.1	64.05	62.70	59.10	58.05	62.30	60.23	66.61	59.06	59.98	59.32	59.51	59.99	61.55
108.2	63.96	63.81	59.05	58.78	61.50	60.57	66.57	59.06	60.01	60.07	59.26	59.92	61.41

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
108.3	63.85	65.09	59.06	59.50	61.50	60.92	66.50	59.08	60.23	61.20	59.72	59.66	61.77
108.4	63.74	65.09	58.97	59.72	60.78	60.66	66.37	59.48	60.52	61.14	59.68	59.76	61.67
108.5	60.71	65.09	58.95	60.18	60.48	60.34	66.23	59.46	60.34	62.49	59.91	59.03	61.56
108.6	60.54	64.72	58.88	60.73	61.03	60.61	66.23	59.69	61.22	63.98	60.25	58.25	61.49
108.7	60.01	64.76	58.88	61.44	61.19	61.12	66.17	59.82	61.80	63.98	60.08	56.55	61.49
108.8	57.73	63.77	58.81	61.36	61.57	61.82	66.10	59.36	62.39	64.38	60.14	56.55	61.30
108.9	58.52	62.74	58.78	61.57	61.51	61.82	66.12	59.73	63.13	64.41	60.14	55.79	61.34
109.0	57.93	60.74	58.79	62.29	61.48	62.63	66.01	59.72	63.02	64.05	60.39	55.81	61.32
109.1	58.16	60.74	58.62	62.48	61.33	62.96	65.95	59.72	63.75	63.36	60.51	51.75	61.50
109.2	58.16	59.46	58.53	62.48	61.32	62.80	65.89	59.35	63.74	63.36	60.24	53.71	61.50
109.3	59.47	55.37	58.22	62.63	61.22	62.82	65.74	59.19	63.67	62.21	60.27	55.60	61.63
109.4	60.29	56.47	58.23	62.12	61.12	62.64	65.64	59.01	63.88	61.07	60.27	55.45	61.59
109.5	60.54	52.97	58.53	61.65	61.04	62.36	65.64	58.89	63.99	60.66	60.20	55.75	61.49
109.6	60.54	50.03	58.50	61.87	60.94	62.54	65.54	58.47	64.35	47.47	60.22	56.54	61.61
109.7	63.60	52.10	58.27	61.50	60.93	62.36	65.43	59.34	64.03	47.47	59.96	57.08	62.18
109.8	66.54	59.04	57.66	61.34	60.77	61.97	63.98	59.74	63.36	45.57	59.96	57.68	62.57
109.9	66.54	59.51	57.93	61.34	60.77	62.45	63.88	60.94	63.37	47.09	59.96	57.48	63.41
110.0	66.62	62.93	57.29	61.24	60.63	63.61	65.38	60.61	63.07	48.24	59.93	57.82	66.14
110.1	63.62	63.49	57.44	61.12	60.64	66.65	63.89	61.57	62.88	48.81	59.69	58.16	66.89
110.2	63.56	63.95	57.83	61.07	60.60	66.65	63.75	62.14	61.45	48.81	59.73	58.20	66.61
110.3	60.00	63.92	57.53	60.99	60.46	67.27	65.31	62.48	61.14	49.87	59.71	58.66	66.12
110.4	59.64	63.83	58.40	60.81	60.43	67.64	63.73	62.40	61.93	50.28	59.71	58.14	66.12
110.5	59.60	63.70	58.87	60.57	60.34	67.90	63.34	62.35	61.38	52.06	59.65	58.49	63.59
110.6	59.43	63.61	58.61	60.47	60.25	67.72	63.09	62.23	61.63	54.76	59.33	58.51	65.88
110.7	59.48	62.90	58.87	60.71	60.14	67.65	62.86	62.22	61.36	54.76	59.44	58.65	66.14
110.8	59.32	62.83	59.41	60.71	60.14	67.58	62.81	62.44	61.36	55.16	59.42	58.70	66.38
110.9	59.30	61.36	59.52	60.61	60.09	67.02	62.60	62.26	60.56	57.22	59.42	58.58	66.01
111.0	59.13	59.53	59.22	60.74	59.96	66.57	62.39	62.72	60.14	60.56	59.39	58.58	66.10
111.1	59.20	59.45	59.47	61.35	59.93	66.80	62.09	63.11	58.47	60.58	59.17	58.78	65.89
111.2	59.12	58.15	60.02	61.06	59.84	66.65	62.09	63.48	60.02	60.58	59.20	58.82	65.59
111.3	59.02	48.90	59.97	61.42	59.86	66.46	62.07	63.48	60.02	60.87	59.19	58.75	65.65
111.4	58.84	45.45	60.48	61.91	59.67	66.46	62.16	63.30	60.33	60.79	59.19	58.59	65.71
111.5	58.81	45.90	60.96	62.31	59.67	66.50	61.92	62.53	60.45	61.13	59.19	58.59	65.71
111.6	58.79	47.52	61.61	62.26	59.59	66.36	61.99	62.06	60.42	61.17	58.94	58.50	65.90

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 34 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
111.7	58.67	48.23	61.60	62.64	59.56	66.06	61.93	61.28	60.54	60.72	58.97	58.54	65.80
111.8	58.68	48.67	61.95	63.10	59.52	66.15	61.80	61.18	60.54	61.60	58.96	58.47	65.73
111.9	58.68	49.59	62.07	62.05	59.42	66.17	62.10	61.03	60.73	61.76	58.96	58.37	65.71
112.0	58.66	54.64	62.17	61.60	59.32	65.97	62.76	60.97	60.62	62.32	58.94	58.33	65.71
112.1	58.58	55.63	62.67	61.29	59.20	65.88	62.76	61.00	60.65	62.30	58.70	58.21	65.69
112.2	58.57	57.63	62.90	61.29	59.15	65.95	65.05	60.85	60.80	62.30	58.74	58.26	65.96
112.3	58.59	58.57	62.89	60.53	59.09	65.80	65.30	60.67	60.77	62.32	58.73	58.42	66.15
112.4	58.43	59.55	62.86	60.35	59.10	65.75	65.26	60.67	60.75	62.19	58.73	58.46	66.36
112.5	58.44	59.55	62.81	60.41	59.02	65.73	65.35	60.57	60.64	61.95	58.64	58.88	66.36
112.6	58.38	61.03	62.73	60.41	58.93	65.73	65.52	60.46	60.75	62.06	57.71	58.65	66.30
112.7	58.42	62.08	62.82	60.68	59.64	65.50	65.41	60.42	60.85	61.86	58.08	58.90	66.49
112.8	58.34	62.21	62.82	60.87	59.71	61.77	65.47	60.29	60.78	61.74	57.96	59.00	66.45
112.9	58.37	62.21	62.70	61.02	60.48	58.84	65.47	60.22	60.72	61.73	57.96	59.33	66.61
113.0	58.29	62.13	62.64	61.13	60.94	58.84	65.45	60.20	60.61	61.52	57.41	59.33	67.12
113.1	58.28	62.42	62.80	61.12	60.99	57.84	65.35	60.26	60.72	61.64	57.42	59.33	67.39
113.2	58.27	62.42	62.70	61.43	61.59	57.37	65.17	61.02	60.72	61.47	57.38	59.35	67.43
113.3	58.23	62.63	62.49	61.36	61.76	56.23	65.17	61.50	60.74	61.22	57.54	59.53	67.56
113.4	55.88	62.76	62.16	61.48	61.76	56.03	64.88	62.43	60.69	61.30	57.69	59.72	67.45
113.5	58.18	62.68	62.17	61.23	61.93	56.22	64.98	62.43	60.59	61.19	57.55	59.76	67.32
113.6	58.21	62.68	62.06	60.83	61.83	55.23	65.08	62.97	60.53	61.19	57.58	59.95	67.21
113.7	58.65	62.82	61.69	60.41	61.19	54.50	65.30	63.53	60.48	61.07	57.71	59.80	67.20
113.8	62.68	62.76	61.13	59.47	61.19	55.03	65.25	64.03	60.55	60.90	57.69	59.79	67.10
113.9	62.68	62.85	61.06	59.30	60.39	53.61	65.36	66.31	60.85	60.93	57.57	59.99	67.04
114.0	58.71	62.82	60.89	58.83	59.60	52.83	65.47	66.29	61.17	60.77	57.58	59.77	66.94
114.1	58.05	62.34	60.73	58.67	59.09	53.33	65.47	66.41	61.49	60.77	57.64	60.08	66.86
114.2	55.53	61.91	60.57	58.49	58.87	52.57	65.47	66.53	62.18	60.71	57.75	59.74	66.78
114.3	58.07	61.42	60.50	58.14	58.63	52.82	65.41	66.58	62.41	60.50	57.78	60.00	66.78
114.4	57.99	61.09	60.34	57.34	58.50	52.93	65.43	66.58	62.72	59.92	57.68	59.87	66.70
114.5	58.01	60.52	60.13	55.43	58.35	52.61	65.59	66.54	62.73	59.12	57.91	59.82	66.59
114.6	55.38	59.89	59.42	55.58	58.29	52.94	65.55	66.34	62.96	59.12	57.71	60.05	66.52
114.7	55.07	59.59	59.10	52.14	58.16	53.41	65.65	66.31	62.84	58.70	57.63	59.89	66.45
114.8	55.33	59.40	58.23	52.20	58.09	53.23	65.86	66.20	62.65	56.38	57.65	60.02	66.66
114.9	55.31	59.14	57.97	51.33	58.04	52.82	65.84	66.20	62.38	56.32	57.61	60.02	66.87
115.0	55.26	59.02	56.64	48.04	58.04	52.97	65.84	66.07	62.44	55.97	57.74	60.32	67.15

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
 (Page 35 of 39)

Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
115.1	54.81	58.95	54.46	45.91	57.09	52.97	65.52	65.95	62.25	55.97	57.79	60.20	66.74
115.2	54.41	58.37	52.49	44.95	54.64	52.23	65.24	65.86	62.15	56.23	57.65	60.31	66.35
115.3	44.32	58.08	51.84	44.40	52.29	52.05	65.07	65.81	62.03	56.24	57.67	60.31	66.17
115.4	37.78	55.49	50.25	43.02	52.29	52.31	64.90	65.69	62.17	55.88	57.74	60.49	66.17
115.5	38.69	54.39	49.60	41.90	51.26	51.76	64.82	65.83	62.22	55.83	57.80	60.47	66.09
115.6	40.04	50.56	48.01	41.90	49.90	51.19	64.59	65.69	62.25	55.83	57.79	60.98	65.95
115.7	41.36	50.06	47.91	41.74	49.47	51.71	64.18	63.08	62.46	56.09	58.28	63.23	65.75
115.8	40.84	48.43	46.70	43.39	48.37	51.90	61.40	63.08	62.67	56.09	58.45	63.23	65.35
115.9	42.25	47.51	45.92	44.35	47.76	51.43	61.40	63.04	62.77	55.73	58.56	65.87	65.26
116.0	43.20	47.13	46.64	44.95	47.57	51.61	56.88	63.08	62.84	55.65	58.78	65.77	65.33
116.1	45.02	46.25	42.15	46.33	46.83	51.60	51.25	65.59	62.83	55.65	58.99	65.62	65.13
116.2	45.02	45.62	39.22	47.84	46.09	51.54	50.23	65.52	62.83	55.95	59.31	65.54	64.84
116.3	45.63	45.92	39.65	47.84	46.61	51.54	48.33	65.67	62.79	58.78	59.41	65.48	61.82
116.4	47.61	45.40	40.09	48.78	46.17	51.57	45.68	62.98	62.79	55.59	59.58	63.18	61.50
116.5	47.11	45.22	41.12	49.99	46.36	51.24	44.63	62.38	62.67	58.51	59.78	63.18	61.46
116.6	47.11	44.25	43.48	50.72	46.36	51.50	44.43	62.09	62.52	58.93	59.93	62.89	61.57
116.7	47.21	43.89	45.04	51.04	48.08	51.27	44.53	61.79	62.46	55.81	60.19	63.03	56.59
116.8	47.42	42.53	46.23	51.54	48.95	51.07	45.28	61.00	62.33	58.62	60.26	65.24	56.65
116.9	47.52	42.27	47.31	52.09	50.05	51.24	46.05	60.72	62.33	55.46	60.62	63.02	58.90
117.0	46.40	42.27	48.32	51.58	50.05	50.98	46.47	60.13	62.22	58.71	60.93	65.61	58.03
117.1	46.78	43.28	49.17	51.30	51.02	50.48	46.88	60.00	62.18	58.94	60.91	65.85	58.70
117.2	46.91	45.06	48.81	50.70	51.04	50.37	46.92	59.92	62.00	59.15	61.06	66.16	59.30
117.3	46.73	45.91	49.28	50.61	50.90	49.79	46.87	59.75	62.01	59.94	61.11	66.52	58.50
117.4	45.67	46.30	49.61	50.51	50.90	49.38	47.10	59.82	62.05	59.90	62.06	66.52	59.35
117.5	46.05	47.22	49.61	50.21	50.84	49.38	47.18	59.78	61.82	60.40	63.29	66.56	59.32
117.6	45.47	48.64	49.77	49.92	50.78	48.99	45.98	59.79	61.62	60.67	63.29	66.37	59.51
117.7	45.58	48.64	49.58	49.58	50.68	48.62	46.87	59.80	61.52	60.77	64.83	65.84	59.51
117.8	44.43	49.52	49.86	49.24	50.01	48.14	45.99	59.76	61.43	61.38	64.79	65.40	59.33
117.9	44.66	49.96	49.55	49.34	50.36	48.04	45.70	59.57	61.20	61.41	64.66	65.08	58.74
118.0	44.97	50.29	49.62	49.35	50.47	47.76	45.70	59.57	60.97	61.64	64.52	65.25	58.31
118.1	44.50	50.29	49.69	49.59	50.59	47.67	44.48	59.50	60.75	61.60	64.52	62.69	57.14
118.2	44.50	50.82	49.69	49.83	51.04	47.87	42.98	55.54	60.51	61.50	64.40	64.84	57.14
118.3	43.72	50.81	48.90	50.20	51.41	48.23	42.52	53.61	60.51	61.33	63.20	65.21	55.82
118.4	44.20	50.81	49.07	50.16	51.73	48.32	41.41	47.66	60.10	61.12	63.16	65.22	55.07

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	<u>46°</u>	<u>47°</u>	<u>48°</u>	<u>49°</u>	<u>50°</u>	<u>51°</u>	<u>52°</u>	<u>53°</u>	<u>54°</u>	<u>55°</u>	<u>56°</u>	<u>57°</u>	<u>58°</u>
118.5	43.51	50.91	48.29	50.55	51.55	49.08	41.41	45.14	58.75	61.12	63.10	65.37	55.07
118.6	43.51	50.57	48.29	50.55	51.83	49.58	39.88	46.43	58.63	60.74	63.10	65.48	54.75
118.7	43.94	50.22	48.30	51.27	52.28	49.84	39.96	45.50	53.92	60.55	63.02	65.60	55.03
118.8	45.04	50.22	48.43	51.60	52.20	50.52	40.32	43.97	53.92	60.38	62.77	65.50	55.11
118.9	45.26	49.69	48.43	52.17	52.20	51.07	40.30	43.97	53.81	60.04	62.90	65.44	55.41
119.0	44.62	49.53	49.08	52.05	52.64	51.41	41.01	42.92	53.78	60.04	62.85	65.40	55.90
119.1	46.05	49.37	50.03	52.47	52.70	50.78	41.37	44.33	53.72	59.61	62.85	65.34	56.01
119.2	46.11	49.01	50.61	52.45	52.78	51.37	42.21	43.30	53.57	59.47	62.68	65.06	56.63
119.3	46.64	49.11	50.61	52.45	52.75	50.97	42.21	41.86	52.82	59.02	62.42	64.64	56.97
119.4	46.45	49.04	51.55	52.32	52.54	50.82	42.71	43.25	52.55	58.33	62.29	64.38	56.53
119.5	46.95	49.21	51.54	51.99	52.53	50.79	43.13	43.25	51.26	58.33	62.21	61.65	56.80
119.6	46.94	49.12	51.54	51.62	52.41	50.86	43.53	42.73	51.76	52.61	62.21	61.65	56.93
119.7	47.21	49.12	51.54	51.52	52.25	50.83	43.53	43.10	50.85	52.26	62.14	52.91	56.94
119.8	46.89	49.19	51.46	51.40	52.34	50.23	43.96	41.95	48.70	52.49	61.66	56.80	57.03
119.9	46.92	49.13	51.43	51.40	51.71	50.28	44.24	42.20	47.47	51.66	61.08	57.44	56.66
120.0	47.06	48.84	51.43	51.42	51.60	50.28	44.44	43.16	46.33	51.66	52.86	52.71	56.94
120.1	46.69	48.52	51.40	51.28	51.43	50.28	44.64	42.61	44.98	49.99	52.86	52.71	56.79
120.2	47.03	48.74	51.29	51.30	51.56	49.78	44.83	42.16	44.98	49.05	52.71	52.67	57.18
120.3	46.94	48.62	51.19	51.20	51.52	49.75	45.12	42.70	42.90	48.15	60.68	57.18	56.96
120.4	47.94	49.13	51.22	51.20	51.44	49.76	45.45	42.30	42.00	47.60	60.95	57.38	56.95
120.5	48.03	49.27	50.94	51.00	51.44	49.81	45.74	42.96	41.25	47.60	61.36	57.45	56.95
120.6	48.78	49.26	50.79	50.82	51.35	49.99	45.74	43.05	40.19	47.08	61.36	52.49	56.58
120.7	50.56	49.24	50.79	50.31	51.31	49.48	46.13	42.25	40.19	46.33	61.29	52.43	56.63
120.8	51.51	49.19	50.70	50.34	51.07	49.53	46.17	42.99	39.04	46.31	61.05	56.51	56.35
120.9	51.51	49.18	51.08	50.33	51.13	49.29	46.28	43.19	39.21	47.36	60.98	55.20	56.40
121.0	52.51	49.09	51.10	50.24	50.65	49.27	46.16	43.20	38.68	47.36	60.72	54.68	57.25
121.1	54.25	49.19	51.09	50.27	50.68	49.33	45.95	43.20	39.11	48.65	60.93	49.93	57.25
121.2	54.46	49.36	50.95	50.28	50.83	49.33	45.96	43.45	38.59	48.85	60.83	49.93	57.16
121.3	53.95	49.78	50.89	50.39	51.01	49.86	45.99	44.18	38.16	49.93	60.59	48.58	57.59
121.4	54.06	50.32	50.89	50.70	51.22	49.91	45.89	44.41	38.29	51.19	60.55	51.91	57.38
121.5	54.17	50.88	50.88	50.64	51.32	50.02	45.89	44.58	37.85	51.02	60.27	51.52	57.11
121.6	54.26	50.92	50.78	50.64	51.55	50.28	45.71	44.27	38.24	52.14	60.20	47.64	57.11
121.7	53.30	51.03	50.80	50.54	51.42	50.36	45.70	44.83	38.14	52.96	60.40	47.64	56.47
121.8	53.28	51.01	50.80	50.63	51.52	50.41	45.85	45.22	38.77	52.59	60.14	47.76	55.85

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
121.9	53.08	51.01	50.72	50.77	51.41	50.62	45.74	46.10	39.30	52.80	60.09	51.73	55.19
122.0	53.10	50.81	50.53	50.77	51.31	50.77	45.80	44.98	39.72	51.69	59.81	51.78	55.24
122.1	52.54	50.40	50.15	50.33	51.31	50.36	45.92	44.44	39.66	50.97	52.27	48.02	55.26
122.2	52.80	50.20	50.09	50.06	51.31	50.48	45.92	43.54	39.93	49.00	52.05	51.94	55.00
122.3	52.57	50.23	49.54	49.91	51.20	50.66	45.86	42.86	41.23	47.68	51.99	48.16	55.13
122.4	52.60	49.43	49.45	49.65	51.11	50.66	45.99	42.74	42.21	47.64	51.44	51.95	54.87
122.5	52.33	49.08	49.45	49.47	50.75	50.63	46.06	42.74	41.98	46.80	51.65	51.98	54.87
122.6	52.18	49.19	49.20	49.27	50.26	50.59	46.16	42.86	42.73	46.02	50.45	48.24	54.85
122.7	52.18	48.50	48.89	49.12	50.04	50.58	46.14	43.19	43.04	45.33	49.72	52.02	55.35
122.8	51.84	48.20	48.37	48.88	49.71	50.51	46.34	42.97	43.87	44.82	48.47	48.28	55.23
122.9	51.84	47.96	48.37	48.69	49.59	50.69	46.25	43.25	43.81	44.98	45.54	48.32	55.78
123.0	51.04	47.99	48.42	48.56	49.47	51.23	46.44	43.02	43.29	44.53	48.71	52.04	56.08
123.1	51.09	47.86	48.08	48.39	49.26	51.34	46.46	42.89	43.73	43.62	46.56	52.00	55.87
123.2	50.82	47.63	48.02	48.19	49.03	51.33	46.46	42.25	43.82	42.30	44.19	51.98	55.84
123.3	50.16	47.63	48.06	48.05	48.70	51.33	46.65	41.54	43.98	41.62	44.65	48.24	55.79
123.4	50.17	47.66	47.88	47.80	48.63	51.12	46.67	41.38	44.28	41.62	44.25	48.29	55.52
123.5	49.55	47.54	47.72	47.72	48.35	50.24	46.75	41.18	44.08	40.30	45.68	52.00	55.01
123.6	49.91	47.54	47.73	47.54	48.21	50.85	46.62	41.36	44.42	39.67	44.29	51.95	54.53
123.7	48.86	47.37	47.21	47.25	48.02	50.21	46.90	41.16	44.71	39.29	42.87	51.93	54.46
123.8	48.94	47.32	47.05	47.25	47.91	49.71	46.86	41.33	44.56	39.78	43.12	48.23	54.24
123.9	48.73	47.26	46.89	47.18	47.70	49.74	46.96	41.14	44.56	39.78	43.00	48.23	54.24
124.0	48.61	47.26	46.93	47.03	47.70	49.44	46.97	41.15	44.89	40.05	44.01	51.92	53.60
124.1	48.21	47.53	46.99	47.25	47.67	49.17	47.05	40.53	44.92	40.36	43.13	51.84	53.12
124.2	48.38	47.97	47.06	46.79	47.67	49.21	47.12	40.23	45.11	40.98	42.81	51.92	52.81
124.3	48.32	48.06	47.41	46.79	47.80	48.69	47.04	39.92	45.04	41.46	44.12	52.33	52.55
124.4	48.02	48.47	47.56	46.74	47.61	48.32	47.17	39.87	44.81	41.46	44.30	49.05	52.47
124.5	47.56	48.77	47.79	47.07	47.44	48.29	47.25	40.01	45.00	41.89	45.04	49.84	52.34
124.6	47.81	48.99	47.82	47.25	47.43	48.23	47.44	40.19	45.11	41.77	45.42	53.20	52.48
124.7	46.60	49.39	48.83	47.26	47.31	48.21	47.51	40.19	43.67	42.79	44.88	53.20	52.44
124.8	47.02	49.42	49.24	47.44	47.10	48.19	47.47	41.53	42.82	43.28	45.75	52.76	52.54
124.9	46.38	49.70	49.84	47.68	47.02	48.19	47.32	42.66	42.93	43.28	46.06	49.71	52.85
125.0	45.43	49.89	50.43	47.68	47.66	48.08	47.43	42.28	42.86	43.78	46.68	49.65	52.85
125.1	45.86	50.02	50.59	47.85	47.11	47.98	47.57	43.41	42.57	44.74	46.89	53.06	52.70
125.2	47.03	50.44	50.67	48.20	46.70	47.88	47.55	43.32	42.66	45.17	46.93	52.58	52.64

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
125.3	47.41	50.51	50.98	47.90	45.75	47.84	47.55	43.48	42.66	44.86	46.93	51.91	52.28
125.4	47.66	50.70	51.08	48.19	44.73	47.75	47.38	43.54	42.31	44.86	47.03	47.70	52.50
125.5	47.83	50.68	51.26	48.14	44.70	47.68	47.43	43.56	41.90	45.37	47.71	47.70	52.56
125.6	47.83	50.96	51.26	48.32	44.70	47.55	47.30	43.56	41.16	45.90	47.79	47.27	52.66
125.7	47.91	51.05	51.56	47.77	45.06	47.51	47.36	43.57	40.91	45.91	48.17	50.78	52.72
125.8	48.83	51.18	51.81	48.26	45.40	47.45	47.55	43.65	40.91	46.13	47.72	51.04	52.70
125.9	49.10	51.17	51.97	48.68	45.52	47.54	47.59	43.79	40.69	46.13	47.48	47.16	52.76
126.0	49.45	51.32	52.01	48.74	46.12	47.55	47.50	43.79	40.67	46.03	47.54	47.16	52.52
126.1	49.99	51.28	51.82	49.05	46.58	47.55	47.57	43.79	40.53	46.05	48.13	47.19	52.50
126.2	49.95	51.23	51.96	49.44	46.65	47.38	47.42	43.82	40.56	46.07	48.60	50.96	52.50
126.3	49.96	51.52	51.45	49.30	46.77	47.31	47.40	43.86	40.56	45.83	48.87	50.93	52.07
126.4	49.52	51.56	51.33	49.49	46.79	47.23	47.48	44.00	40.54	45.83	49.97	47.06	51.41
126.5	49.88	51.67	51.52	49.72	47.00	47.11	47.39	43.88	41.07	46.28	50.28	50.92	49.82
126.6	49.79	51.61	51.29	50.09	46.91	47.18	47.23	43.91	41.52	46.49	50.75	47.08	48.85
126.7	50.69	51.61	50.74	50.11	46.91	47.13	47.41	44.05	41.98	47.29	50.91	50.86	48.74
126.8	51.00	51.85	50.07	49.05	46.93	47.07	47.31	44.07	42.41	47.56	51.17	50.82	45.82
126.9	51.13	51.69	49.71	48.28	46.96	47.06	47.23	44.03	43.46	48.32	51.61	46.93	42.47
127.0	51.24	51.65	49.37	47.87	46.90	47.06	47.23	44.03	43.75	48.81	51.81	50.76	40.41
127.1	51.57	51.64	48.40	47.08	46.73	47.08	47.14	44.07	43.93	49.68	52.04	46.89	37.68
127.2	51.16	51.09	47.91	45.69	46.73	47.06	47.11	44.08	43.95	49.98	51.96	46.88	35.64
127.3	51.42	50.48	47.88	45.69	46.60	46.98	47.15	44.15	44.20	50.35	51.96	50.37	35.64
127.4	51.26	50.12	47.70	43.82	46.55	47.00	47.10	44.06	44.64	50.82	51.53	50.20	36.56
127.5	51.13	50.04	47.66	44.72	46.77	47.01	46.97	44.12	44.49	51.35	50.97	49.83	38.48
127.6	51.13	49.00	48.31	45.56	46.55	46.97	47.09	44.72	44.15	50.52	49.97	45.59	35.80
127.7	50.93	48.82	47.60	45.56	45.48	46.91	46.84	44.69	44.15	49.53	49.39	45.59	38.74
127.8	51.25	48.76	47.59	46.59	45.30	46.96	46.52	44.20	43.57	49.08	47.61	49.52	38.37
127.9	51.41	48.38	47.53	46.94	44.73	46.93	46.52	44.11	43.53	47.57	46.41	49.29	39.17
128.0	50.70	48.76	48.32	46.94	44.68	46.64	46.49	44.10	43.16	46.77	46.48	49.12	38.95
128.1	50.57	48.26	47.52	47.10	43.93	46.46	46.10	44.77	42.71	38.40	45.91	49.02	38.10
128.2	50.18	48.63	47.49	47.37	44.06	46.46	45.94	44.76	42.71	34.61	45.98	45.11	38.56
128.3	50.45	48.49	47.50	46.96	44.40	46.34	45.81	44.72	42.16	34.65	45.75	44.87	37.84
128.4	49.68	48.35	47.51	46.67	44.55	46.29	45.84	44.77	42.08	31.69	43.78	48.93	37.34
128.5	49.60	48.35	46.41	46.58	45.07	46.23	45.92	44.72	41.87	29.29	44.23	48.88	37.19
128.6	49.48	48.33	44.64	43.96	45.63	46.09	45.86	44.69	41.84	29.37	42.42	48.82	36.50

Exhibit 42 - Table I
LONGLEY-RICE SIGNAL STRENGTH DATA
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Distance (km)	Signal Strength (dBμ)												
	Azimuth												
	46°	47°	48°	49°	50°	51°	52°	53°	54°	55°	56°	57°	58°
128.7	48.88	48.16	44.04	43.55	45.91	45.98	45.72	44.79	41.60	31.02	44.16	44.79	36.62
128.8	48.49	48.02	42.80	42.66	45.91	46.05	45.32	44.74	41.25	31.02	44.12	44.79	36.94
128.9	48.55	47.99	40.65	42.92	45.77	45.06	45.35	44.41	41.38	32.67	42.98	48.82	37.58
129.0	48.27	47.71	40.81	42.89	45.86	44.52	45.21	44.16	41.19	32.57	44.62	48.83	37.45
129.1	47.97	47.60	41.92	44.09	46.02	44.82	45.09	42.94	41.04	33.68	45.33	48.73	38.56
129.2	47.75	47.60	41.82	44.95	46.22	44.35	45.18	42.94	40.90	34.84	46.18	44.80	39.46
129.3	47.67	47.37	42.03	46.04	46.14	43.90	45.21	42.77	40.91	34.84	45.68	44.80	40.32
129.4	47.76	46.46	42.37	46.63	46.23	43.90	45.30	42.50	40.84	35.62	45.63	45.33	40.93
129.5	47.34	44.97	43.25	46.20	46.12	43.16	45.25	41.74	40.85	35.44	46.12	49.37	42.06
129.6	47.38	44.97	44.26	46.21	46.35	42.48	44.95	41.46	40.78	35.94	42.40	49.33	42.06
129.7	45.88	43.70	45.28	46.24	46.64	41.97	45.03	41.61	40.58	36.62	40.15	45.06	42.82
129.8	45.58	42.47	45.41	46.44	46.56	41.16	44.92	41.51	40.63	36.62	38.66	45.06	43.10
129.9	45.58	41.83	45.97	46.80	46.65	40.88	44.88	41.53	40.51	37.09	38.66	44.85	43.69
130.0	43.82	42.02	46.60	47.01	46.51	41.03	44.84	41.27	40.42	37.41	37.52	49.02	44.29
130.1	41.80	42.87	47.16	47.64	45.06	41.31	44.85	41.68	40.47	38.34	36.68	48.55	44.29
130.2	41.08	43.88	47.16	47.55	44.41	41.82	44.88	42.65	40.43	39.63	36.03	44.16	44.71
130.3	41.08	43.88	47.94	47.31	44.52	42.06	44.83	42.19	40.50	39.63	36.12	48.30	45.00
130.4	40.17	45.09	47.16	47.09	44.72	42.11	44.83	43.21	40.36	40.54	36.12	44.10	45.63
130.5	40.06	45.92	46.43	46.67	44.67	43.36	44.83	42.78	40.17	40.26	32.90	48.25	46.16
130.6	41.18	46.05	46.15	46.06	44.68	42.29	44.79	42.78	40.27	41.03	32.52	48.21	47.43
130.7	41.35	46.78	44.37	46.06	44.68	42.29	44.65	43.79	40.20	41.29	33.07	44.01	47.15
130.8	40.99	47.21	43.11	45.89	44.91	43.13	44.59	43.94	40.15	41.29	35.57	47.88	48.20
130.9	41.62	47.39	43.11	44.94	44.58	43.65	44.55	43.82	40.02	41.73	35.57	43.64	48.94
131.0	41.79	47.33	42.31	44.83	44.82	43.75	44.56	44.11	39.85	42.12	37.07	43.23	49.17
131.1	42.84	46.31	41.22	44.08	44.67	43.62	44.46	44.45	39.63	42.27	38.01	47.04	48.53
131.2	43.87	44.54	40.90	42.96	44.03	43.20	44.39	44.46	39.65	39.73	39.29	46.62	48.44
131.3	44.08	44.11	40.56	41.97	43.77	42.69	44.34	44.73	39.62	39.73	40.27	43.79	47.91
131.4	44.13	43.02	39.91	41.97	43.53	42.25	44.36	44.66	39.62	38.98	40.27	39.72	45.97
131.5	44.38	42.18	39.12	41.87	43.52	42.52	44.30	44.78	39.45	38.64	41.16	36.92	46.54
131.6	41.97	40.84	39.12	42.86	43.14	41.86	44.21	44.65	39.40	38.30	40.84	37.36	44.36
131.7	40.87	40.73	37.44	42.92	42.90	41.91	44.33	44.37	39.46	38.42	41.78	34.37	43.82
131.8	39.81	40.26	40.30	43.01	42.89	42.08	44.12	44.20	39.48	38.42	41.55	33.05	43.32
131.9	39.23	39.93	40.21	43.41	42.95	42.08	43.93	44.32	39.45	38.72	42.05	31.19	43.26
132.0	38.89	39.76	40.21	43.22	43.13	42.18	44.08	43.72	39.41	38.87	41.53	27.12	42.06

Exhibit 42 - Table II
DISTANCE TO 48 dB μ CONTOURS
FCC VERSUS LONGLEY-RICE METHOD

prepared for
Mike Simons
KTAQ-DT Greenville, Texas
Facility ID 42359
Ch. 46 600 kW (MAX-DA) 496 m

Distance to 48 dB μ Contour

Azimuth (<u>°T</u>)	Longley-Rice (<u>km</u>)	FCC Method (<u>km</u>)	Percent <u>Increase</u>
46	115.2	93.2	23.6%
47	115.8	93.3	24.1%
48	115.6	93.4	23.8%
49	115.0	93.5	23.0%
50	115.8	93.6	23.7%
51	117.9	93.3	26.4%
52	116.3	93.1	24.9%
53	118.3	92.9	27.3%
54	119.8	92.8	29.1%
55	109.5	92.5	18.4%
56	122.8	92.3	33.0%
57	121.5	92.1	31.9%
58	126.7	91.8	38.0%



