



ENGINEERING STATEMENT
OF
BENJAMIN L. PIDEK, P.E.
IN SUPPORT OF
APPLICATION FOR CONSTRUCTION PERMIT
POST-INCENTIVE AUCTION ASSIGNMENT FACILITY
KSHB-TV
KANSAS CITY, MO

Background

Scripps Broadcasting Holdings LLC (Scripps) is the licensee of KSHB, located at Kansas City, MO, which is presently authorized to operate its digital facility on Channel 42 with the following parameters:

Pre-Incentive Auction Facility (Ch. 42)

Coordinates: 38° 58' 42.0" N (NAD83)
 94° 32' 01.8" W
ERP: 730 kW (omni)
RCAMSL: 611.9m

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KSHB has been assigned Ch. 36 for its post-incentive auction facility with the following parameters:

Post-Incentive Auction Facility (Ch. 36)

Coordinates: 38° 58' 42.0" N (NAD83)
94° 32' 01.8" W
ERP: 650 kW (omni)
RCAMSL: 611.9m

Antenna System and Tower

The existing top-mounted omni-directional KSHB Ch. 42 antenna (Dielectric TFU-30GTH/VP-R 06 DC) is a coaxial slot antenna that is only usable on Ch. 42 and Ch. 41. Scripps intends to replace the existing top-mounted antenna with a new omni-directional coaxial slot antenna for Ch. 36 (Dielectric TFU-28GTH/VP-R 06).

The replacement of the top-mounted antenna will result in a 0.8m reduction in the overall height of the structure. Scripps plans to notify the FAA of the reduction in structure height and update the ASR (#1234587) after construction of the new Ch. 36 facility is complete.

The current Ch. 42 antenna is elliptically polarized and the new Ch. 36 antenna will also be elliptically polarized. The vertically polarized radiation will not exceed the horizontally polarized component in any azimuth.

The new Ch. 36 antenna will have a center of radiation of 612.4 m AMSL (with a calculated HAAT of 325m) which is 0.5m higher than the radiation center height of the assigned repack facility (611.9m AMSL). To offset the 0.5m increase in the height of the antenna radiation center, Scripps proposes to decrease the KSHB ERP from the assigned 650 kW to 647 kW. The proposed

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parameters of the KSHB post-repack facility result in a very minor increase in the noise-limited contour of the proposed station beyond the noise-limited contour of its assigned post-incentive auction facility.

Table 1, attached hereto, compares the calculated distances to the contour in every azimuth for both the assigned (baseline) facility and the proposed facility. The data comes from output files generated by the FCC TVStudy software for the contours of the assigned repack facility parameters and the proposed KSHB facility parameters. As can be seen from the table, the maximum difference between the two calculated contours is a de minimis 0.02 km (0.02%).

Coverage

The entire principal community of Kansas City, MO is well within the predicted F(50,90) 48 dBu contour based on the proposed omni-directional 647 kW ERP.

Interference

An interference check study was run using the FCC TVStudy software (Version 2.2.2) for the proposed KSHB post-repack facility parameters. The results of the study show that the proposed facility is not predicted to cause more than 0.5% new interference to any other surrounding co-channel or adjacent channel post-repack facilities.

Environmental/RFR

This report addresses only the conditions specified in 47CFR1.1307 that deal with Radio Frequency Radiation. Any other non-RFR conditions that might require the preparation of an EA

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are beyond the scope of this report; since the structure is existing and registered, such conditions should not be an issue requiring further consideration.

The location of the proposed post-incentive auction facility is a multi-user site and it is assumed that the site is currently “in compliance” with FCC guidelines for human exposure to RFR (as defined in OET-65). The worst case ground level RFR contributed to the site by this proposal in public areas is calculated to be 0.004190 mW/cm^2 , which is less than 5% of the MPE for public exposure (0.404000 mW/cm^2) at Ch. 36 (603-609 MHz). The contribution to the overall RFR from the proposed facility is negligible and, therefore, the site will remain “in compliance” with FCC guidelines.

Scripps agrees to comply with the Commission’s requirements regarding power adjustments or cessation of operation as may be necessary to ensure a compliant environment for worker access. Workers will be trained on RFR issues and encouraged to wear personal RFR monitors when on the structure. The tower base is enclosed by a locked security fence and appropriate signage warning of potential RFR hazards is posted.

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Certification

I hereby certify that the foregoing report or statement was prepared by me but may include work performed by others under my supervision or direction. The statements of fact contained therein are believed to be true and correct based on personal knowledge, information and belief unless otherwise stated; with respect to facts not known of my own personal knowledge, I believe them to be true and correct based on their origin from sources known to me to be generally reliable and accurate. I have prepared this document with due care and in accordance with applicable standards of professional practice.

A handwritten signature in black ink, appearing to read "B. Pidek", written over a horizontal line.

Benjamin L. Pidek, P.E.
June 6, 2017

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KSHB-TV (Ch. 36 at Kansas City, MO)

**Table 1 - Distance to Noise-Limited Contour Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility**

Post-Incentive Auction Assigned Facility

ERP: 650 kW
RCAMSL: 611.9 m
HAAT: 323.7 m

Proposed Facility

ERP: 647 kW
RCAMSL: 612.4 m
HAAT: 325.0 m

Baseline Contour .csv File

tvixcontour.csv

Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
0	97.93	39.85936	94.53384	345.62	28.13		0	97.93	39.85939	94.53384	346.12	28.11	0
0.23	97.92	39.85931	94.52921	345.48	28.13		0.23	97.92	39.85934	94.52921	345.98	28.11	0
0.39	97.91	39.85922	94.52604	345.38	28.13		0.39	97.92	39.85925	94.52604	345.88	28.11	0.01
0.5	97.91	39.85914	94.52378	345.31	28.13		0.5	97.91	39.85917	94.52378	345.81	28.11	0
1	97.87	39.85874	94.51382	345	28.13		1	97.88	39.85877	94.51382	345.5	28.11	0.01
2	97.82	39.85785	94.49383	344.37	28.13		2	97.82	39.85788	94.49383	344.87	28.11	0
3	97.76	39.85668	94.47388	343.75	28.13		3	97.77	39.85672	94.47388	344.25	28.11	0.01
4	97.71	39.85525	94.45396	343.12	28.13		4	97.71	39.85528	94.45396	343.62	28.11	0
5	97.65	39.85354	94.4341	342.5	28.13		5	97.66	39.85358	94.43409	343	28.11	0.01
6	97.6	39.85156	94.41429	341.87	28.13		6	97.6	39.8516	94.41428	342.37	28.11	0
7	97.54	39.84931	94.39454	341.24	28.13		7	97.55	39.84935	94.39453	341.74	28.11	0.01
8	97.49	39.84679	94.37486	340.62	28.13		8	97.49	39.84684	94.37485	341.12	28.11	0
9	97.43	39.84401	94.35525	339.99	28.13		9	97.44	39.84405	94.35524	340.49	28.11	0.01
10	97.38	39.84095	94.33572	339.37	28.13		10	97.38	39.841	94.33571	339.87	28.11	0
11	97.32	39.83764	94.31627	338.74	28.13		11	97.33	39.83768	94.31626	339.24	28.11	0.01
12	97.26	39.83405	94.29692	338.12	28.13		12	97.27	39.8341	94.29691	338.62	28.11	0.01
13	97.21	39.83021	94.27767	337.49	28.13		13	97.21	39.83026	94.27765	337.99	28.11	0
14	97.15	39.82611	94.25852	336.87	28.13		14	97.16	39.82616	94.2585	337.37	28.11	0.01
15	97.09	39.82174	94.23948	336.24	28.13		15	97.1	39.82179	94.23946	336.74	28.11	0.01
16	97.04	39.81712	94.22056	335.62	28.13		16	97.04	39.81717	94.22054	336.12	28.11	0
17	96.98	39.81224	94.20176	334.99	28.13		17	96.98	39.8123	94.20174	335.49	28.11	0
18	96.92	39.80711	94.18309	334.37	28.13		18	96.93	39.80717	94.18307	334.87	28.11	0.01
19	96.86	39.80173	94.16456	333.74	28.13		19	96.87	39.80179	94.16453	334.24	28.11	0.01
20	96.8	39.79609	94.14617	333.12	28.13		20	96.81	39.79616	94.14614	333.62	28.11	0.01
21	96.74	39.79021	94.12792	332.49	28.13		21	96.75	39.79028	94.12789	332.99	28.11	0.01
22	96.68	39.78409	94.10982	331.87	28.13		22	96.69	39.78415	94.10979	332.37	28.11	0.01
23	96.62	39.77771	94.09189	331.24	28.13		23	96.63	39.77778	94.09185	331.74	28.11	0.01
24	96.56	39.7711	94.07411	330.62	28.13		24	96.57	39.77117	94.07407	331.12	28.11	0.01
25	96.5	39.76425	94.05651	329.99	28.13		25	96.51	39.76432	94.05647	330.49	28.11	0.01
26	96.44	39.75716	94.03908	329.37	28.13		26	96.45	39.75723	94.03903	329.87	28.11	0.01
27	96.38	39.74984	94.02183	328.74	28.13		27	96.39	39.74991	94.02178	329.24	28.11	0.01
28	96.32	39.74229	94.00477	328.11	28.13		28	96.33	39.74236	94.00472	328.61	28.11	0.01
29	96.26	39.73451	93.98789	327.49	28.13		29	96.27	39.73458	93.98784	327.99	28.11	0.01
30	96.2	39.7265	93.97121	326.86	28.13		30	96.2	39.72658	93.97116	327.36	28.11	0
31	96.13	39.71827	93.95474	326.24	28.13		31	96.14	39.71835	93.95468	326.74	28.11	0.01
32	96.07	39.70982	93.93847	325.61	28.13		32	96.08	39.7099	93.93841	326.11	28.11	0.01
33	96.01	39.70116	93.92241	324.99	28.13		33	96.02	39.70123	93.92235	325.49	28.11	0.01
34	95.94	39.69228	93.90657	324.36	28.13		34	95.95	39.69235	93.9065	324.86	28.11	0.01
35	95.88	39.68319	93.89095	323.74	28.13		35	95.89	39.68327	93.89088	324.24	28.11	0.01
36	95.81	39.67389	93.87556	323.11	28.13		36	95.82	39.67397	93.87548	323.61	28.11	0.01
37	95.75	39.66439	93.86039	322.49	28.13		37	95.76	39.66447	93.86031	322.99	28.11	0.01
38	95.68	39.65469	93.84546	321.86	28.13		38	95.7	39.65477	93.84538	322.36	28.11	0.02
39	95.62	39.64479	93.83077	321.24	28.13		39	95.63	39.64487	93.83069	321.74	28.11	0.01
40	95.55	39.6347	93.81633	320.61	28.13		40	95.56	39.63478	93.81624	321.11	28.11	0.01
41	95.49	39.62441	93.80213	319.99	28.13		41	95.5	39.62449	93.80204	320.49	28.11	0.01
42	95.42	39.61394	93.78818	319.36	28.13		42	95.43	39.61403	93.78809	319.86	28.11	0.01
43	95.35	39.60329	93.7745	318.74	28.13		43	95.36	39.60337	93.7744	319.24	28.11	0.01
44	95.28	39.59246	93.76107	318.11	28.13		44	95.3	39.59254	93.76097	318.61	28.11	0.02
45	95.22	39.58145	93.74791	317.49	28.13		45	95.23	39.58153	93.7478	317.99	28.11	0.01
46	95.25	39.57089	93.73418	317.76	28.13		46	95.26	39.57097	93.73407	318.26	28.11	0.01
47	95.28	39.56013	93.72069	318.04	28.13		47	95.29	39.56021	93.72058	318.54	28.11	0.01

KSHB-TV (Ch. 36 at Kansas City, MO)

**Table 1 - Distance to Noise-Limited Contour Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility**

Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
48	95.31	39.54919	93.70745	318.32	28.13		48	95.32	39.54926	93.70734	318.82	28.11	0.01
49	95.34	39.53807	93.69446	318.6	28.13		49	95.35	39.53814	93.69434	319.1	28.11	0.01
50	95.37	39.52676	93.68172	318.88	28.13		50	95.38	39.52684	93.68161	319.38	28.11	0.01
51	95.4	39.51529	93.66924	319.15	28.13		51	95.41	39.51536	93.66913	319.65	28.11	0.01
52	95.43	39.50364	93.65702	319.43	28.13		52	95.44	39.50371	93.65691	319.93	28.11	0.01
53	95.46	39.49182	93.64508	319.71	28.13		53	95.47	39.49189	93.64496	320.21	28.11	0.01
54	95.49	39.47984	93.6334	319.99	28.13		54	95.5	39.4799	93.63328	320.49	28.11	0.01
55	95.52	39.4677	93.62199	320.27	28.13		55	95.53	39.46776	93.62188	320.77	28.11	0.01
56	95.55	39.4554	93.61086	320.55	28.13		56	95.56	39.45546	93.61075	321.05	28.11	0.01
57	95.57	39.44295	93.60002	320.82	28.13		57	95.59	39.443	93.5999	321.32	28.11	0.02
58	95.6	39.43035	93.58946	321.1	28.13		58	95.62	39.4304	93.58934	321.6	28.11	0.02
59	95.63	39.4176	93.57918	321.38	28.13		59	95.64	39.41765	93.57907	321.88	28.11	0.01
60	95.66	39.40471	93.5692	321.66	28.13		60	95.67	39.40476	93.56909	322.16	28.11	0.01
61	95.69	39.39168	93.55951	321.94	28.13		61	95.7	39.39173	93.5594	322.44	28.11	0.01
62	95.72	39.37852	93.55012	322.21	28.13		62	95.73	39.37857	93.55001	322.71	28.11	0.01
63	95.75	39.36523	93.54103	322.49	28.13		63	95.76	39.36528	93.54091	322.99	28.11	0.01
64	95.78	39.35182	93.53224	322.77	28.13		64	95.79	39.35186	93.53213	323.27	28.11	0.01
65	95.81	39.33828	93.52376	323.05	28.13		65	95.82	39.33832	93.52364	323.55	28.11	0.01
66	95.84	39.32462	93.51559	323.33	28.13		66	95.85	39.32466	93.51547	323.83	28.11	0.01
67	95.86	39.31085	93.50772	323.6	28.13		67	95.88	39.31089	93.50761	324.1	28.11	0.02
68	95.89	39.29698	93.50017	323.88	28.13		68	95.9	39.29701	93.50006	324.38	28.11	0.01
69	95.92	39.28299	93.49294	324.16	28.13		69	95.93	39.28303	93.49282	324.66	28.11	0.01
70	95.95	39.26891	93.48602	324.44	28.13		70	95.96	39.26894	93.48591	324.94	28.11	0.01
71	95.98	39.25473	93.47943	324.72	28.13		71	95.99	39.25476	93.47931	325.22	28.11	0.01
72	96.01	39.24046	93.47315	325	28.13		72	96.02	39.24049	93.47304	325.5	28.11	0.01
73	96.04	39.22611	93.4672	325.27	28.13		73	96.05	39.22613	93.46709	325.77	28.11	0.01
74	96.06	39.21167	93.46158	325.55	28.13		74	96.07	39.21169	93.46147	326.05	28.11	0.01
75	96.09	39.19715	93.45628	325.83	28.13		75	96.1	39.19717	93.45617	326.33	28.11	0.01
76	96.12	39.18255	93.45132	326.11	28.13		76	96.13	39.18257	93.45121	326.61	28.11	0.01
77	96.15	39.16789	93.44668	326.39	28.13		77	96.16	39.16791	93.44657	326.89	28.11	0.01
78	96.18	39.15316	93.44238	326.66	28.13		78	96.18	39.15318	93.44227	327.16	28.11	0
79	96.2	39.13837	93.43841	326.94	28.13		79	96.21	39.13839	93.4383	327.44	28.11	0.01
80	96.23	39.12353	93.43477	327.22	28.13		80	96.24	39.12354	93.43467	327.72	28.11	0.01
81	96.26	39.10863	93.43148	327.5	28.13		81	96.27	39.10865	93.43137	328	28.11	0.01
82	96.29	39.09369	93.42851	327.78	28.13		82	96.3	39.0937	93.42841	328.28	28.11	0.01
83	96.31	39.07871	93.42589	328.05	28.13		83	96.32	39.07872	93.42579	328.55	28.11	0.01
84	96.34	39.06368	93.4236	328.33	28.13		84	96.35	39.06369	93.4235	328.83	28.11	0.01
85	96.37	39.04863	93.42166	328.61	28.13		85	96.38	39.04863	93.42156	329.11	28.11	0.01
86	96.4	39.03354	93.42005	328.89	28.13		86	96.4	39.03355	93.41995	329.39	28.11	0
87	96.42	39.01844	93.41879	329.17	28.13		87	96.43	39.01844	93.41869	329.67	28.11	0.01
88	96.45	39.00331	93.41786	329.45	28.13		88	96.46	39.00331	93.41776	329.95	28.11	0.01
89	96.48	38.98817	93.41728	329.72	28.13		89	96.49	38.98817	93.41718	330.22	28.11	0.01
89.35	96.49	38.98289	93.41713	329.82	28.13		89.35	96.5	38.98289	93.41703	330.32	28.11	0.01
89.45	96.49	38.9814	93.41709	329.85	28.13		89.45	96.5	38.9814	93.41699	330.35	28.11	0.01
89.59	96.5	38.97927	93.41705	329.89	28.13		89.59	96.51	38.97927	93.41695	330.39	28.11	0.01
89.78	96.5	38.97628	93.41701	329.94	28.13		89.78	96.51	38.97628	93.41692	330.44	28.11	0.01
90	96.5	38.97302	93.41703	330	28.13		90	96.51	38.97302	93.41694	330.5	28.11	0.01
90.28	96.5	38.96874	93.41715	329.93	28.13		90.28	96.51	38.96874	93.41705	330.43	28.11	0.01
90.46	96.5	38.96598	93.41727	329.89	28.13		90.46	96.5	38.96597	93.41718	330.39	28.11	0
90.59	96.49	38.96412	93.41737	329.86	28.13		90.59	96.5	38.96412	93.41727	330.36	28.11	0.01
90.67	96.49	38.96283	93.41744	329.83	28.13		90.67	96.5	38.96283	93.41734	330.33	28.11	0.01
90.75	96.49	38.9617	93.4175	329.82	28.13		90.75	96.5	38.9617	93.4174	330.32	28.11	0.01
91	96.48	38.95787	93.41772	329.75	28.13		91	96.49	38.95787	93.41762	330.25	28.11	0.01
92	96.46	38.94275	93.41875	329.5	28.13		92	96.46	38.94274	93.41865	330	28.11	0
93	96.43	38.92764	93.42012	329.25	28.13		93	96.44	38.92763	93.42002	329.75	28.11	0.01
94	96.41	38.91256	93.42182	329	28.13		94	96.42	38.91255	93.42172	329.5	28.11	0.01
95	96.38	38.8975	93.42387	328.75	28.13		95	96.39	38.89749	93.42377	329.25	28.11	0.01
96	96.36	38.88248	93.42625	328.51	28.13		96	96.37	38.88247	93.42615	329.01	28.11	0.01
97	96.33	38.8675	93.42896	328.26	28.13		97	96.34	38.86749	93.42886	328.76	28.11	0.01

KSHB-TV (Ch. 36 at Kansas City, MO)

**Table 1 - Distance to Noise-Limited Contour Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility**

Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
98	96.31	38.85256	93.43201	328.01	28.13		98	96.32	38.85255	93.43191	328.51	28.11	0.01
99	96.28	38.83767	93.43539	327.76	28.13		99	96.29	38.83766	93.43529	328.26	28.11	0.01
100	96.26	38.82283	93.43911	327.51	28.13		100	96.27	38.82282	93.439	328.01	28.11	0.01
101	96.23	38.80805	93.44315	327.26	28.13		101	96.24	38.80804	93.44304	327.76	28.11	0.01
102	96.21	38.79333	93.44752	327.01	28.13		102	96.22	38.79331	93.44742	327.51	28.11	0.01
103	96.19	38.77868	93.45222	326.76	28.13		103	96.19	38.77866	93.45211	327.26	28.11	0
104	96.16	38.76409	93.45724	326.51	28.13		104	96.17	38.76407	93.45714	327.01	28.11	0.01
105	96.14	38.74958	93.46259	326.26	28.13		105	96.14	38.74955	93.46248	326.76	28.11	0
106	96.11	38.73515	93.46826	326.01	28.13		106	96.12	38.73512	93.46815	326.51	28.11	0.01
107	96.08	38.7208	93.47424	325.76	28.13		107	96.09	38.72077	93.47413	326.26	28.11	0.01
108	96.06	38.70653	93.48054	325.51	28.13		108	96.07	38.7065	93.48044	326.01	28.11	0.01
109	96.03	38.69236	93.48716	325.26	28.13		109	96.04	38.69233	93.48705	325.76	28.11	0.01
110	96.01	38.67829	93.49409	325.02	28.13		110	96.02	38.67825	93.49398	325.52	28.11	0.01
111	95.98	38.66431	93.50133	324.77	28.13		111	95.99	38.66428	93.50122	325.27	28.11	0.01
112	95.96	38.65044	93.50887	324.52	28.13		112	95.97	38.6504	93.50876	325.02	28.11	0.01
113	95.93	38.63668	93.51672	324.27	28.13		113	95.94	38.63664	93.51661	324.77	28.11	0.01
114	95.91	38.62303	93.52488	324.02	28.13		114	95.92	38.62299	93.52477	324.52	28.11	0.01
115	95.88	38.60949	93.53333	323.77	28.13		115	95.89	38.60945	93.53322	324.27	28.11	0.01
116	95.86	38.59608	93.54207	323.52	28.13		116	95.87	38.59604	93.54196	324.02	28.11	0.01
117	95.83	38.58279	93.55111	323.27	28.13		117	95.84	38.58274	93.551	323.77	28.11	0.01
118	95.8	38.56963	93.56044	323.02	28.13		118	95.82	38.56958	93.56033	323.52	28.11	0.02
119	95.78	38.5566	93.57006	322.77	28.13		119	95.79	38.55655	93.56995	323.27	28.11	0.01
120	95.75	38.54371	93.57996	322.52	28.13		120	95.76	38.54366	93.57985	323.02	28.11	0.01
121	95.73	38.53096	93.59014	322.27	28.13		121	95.74	38.5309	93.59003	322.77	28.11	0.01
122	95.7	38.51835	93.6006	322.02	28.13		122	95.71	38.51829	93.60049	322.52	28.11	0.01
123	95.67	38.50589	93.61133	321.77	28.13		123	95.69	38.50583	93.61122	322.27	28.11	0.02
124	95.65	38.49358	93.62233	321.52	28.13		124	95.66	38.49352	93.62222	322.02	28.11	0.01
125	95.62	38.48142	93.6336	321.28	28.13		125	95.63	38.48136	93.63349	321.78	28.11	0.01
126	95.6	38.46943	93.64513	321.03	28.13		126	95.61	38.46936	93.64502	321.53	28.11	0.01
127	95.57	38.45759	93.65692	320.78	28.13		127	95.58	38.45753	93.65682	321.28	28.11	0.01
128	95.54	38.44592	93.66897	320.53	28.13		128	95.55	38.44585	93.66886	321.03	28.11	0.01
129	95.52	38.43442	93.68127	320.28	28.13		129	95.53	38.43435	93.68116	320.78	28.11	0.01
130	95.49	38.42309	93.69381	320.03	28.13		130	95.5	38.42302	93.69371	320.53	28.11	0.01
131	95.46	38.41194	93.7066	319.78	28.13		131	95.48	38.41186	93.7065	320.28	28.11	0.02
132	95.44	38.40096	93.71963	319.53	28.13		132	95.45	38.40089	93.71952	320.03	28.11	0.01
133	95.41	38.39017	93.73289	319.28	28.13		133	95.42	38.39009	93.73279	319.78	28.11	0.01
134	95.38	38.37956	93.74639	319.03	28.13		134	95.4	38.37948	93.74628	319.53	28.11	0.02
134.73	95.36	38.37195	93.75637	318.85	28.13		134.73	95.38	38.37187	93.75627	319.35	28.11	0.02
135	95.36	38.36914	93.76011	318.78	28.13		135	95.37	38.36906	93.76001	319.28	28.11	0.01
135.9	95.34	38.3599	93.77262	318.59	28.13		135.9	95.35	38.35982	93.77252	319.09	28.11	0.01
136	95.33	38.35888	93.77402	318.57	28.13		136	95.35	38.3588	93.77392	319.07	28.11	0.02
137	95.31	38.34882	93.78815	318.37	28.13		137	95.32	38.34873	93.78805	318.87	28.11	0.01
138	95.29	38.33895	93.80249	318.16	28.13		138	95.3	38.33886	93.80239	318.66	28.11	0.01
139	95.27	38.32928	93.81704	317.95	28.13		139	95.28	38.32919	93.81695	318.45	28.11	0.01
140	95.24	38.31981	93.8318	317.74	28.13		140	95.26	38.31972	93.83171	318.24	28.11	0.02
141	95.22	38.31054	93.84676	317.53	28.13		141	95.23	38.31045	93.84667	318.03	28.11	0.01
142	95.2	38.30149	93.86192	317.32	28.13		142	95.21	38.30139	93.86183	317.82	28.11	0.01
143	95.18	38.29264	93.87727	317.11	28.13		143	95.19	38.29254	93.87718	317.61	28.11	0.01
144	95.15	38.284	93.89281	316.91	28.13		144	95.17	38.2839	93.89272	317.41	28.11	0.02
145	95.13	38.27558	93.90853	316.7	28.13		145	95.14	38.27548	93.90844	317.2	28.11	0.01
146	95.11	38.26737	93.92443	316.49	28.13		146	95.12	38.26727	93.92434	316.99	28.11	0.01
147	95.08	38.25939	93.9405	316.28	28.13		147	95.1	38.25928	93.94041	316.78	28.11	0.02
148	95.06	38.25162	93.95674	316.07	28.13		148	95.07	38.25152	93.95665	316.57	28.11	0.01
149	95.04	38.24408	93.97314	315.86	28.13		149	95.05	38.24397	93.97306	316.36	28.11	0.01
150	95.01	38.23677	93.9897	315.66	28.13		150	95.03	38.23666	93.98962	316.16	28.11	0.02
151	94.99	38.22968	94.00641	315.45	28.13		151	95	38.22957	94.00633	315.95	28.11	0.01
152	94.97	38.22282	94.02327	315.24	28.13		152	94.98	38.22271	94.02319	315.74	28.11	0.01
153	94.94	38.21619	94.04027	315.03	28.13		153	94.96	38.21608	94.0402	315.53	28.11	0.02
154	94.92	38.2098	94.05741	314.82	28.13		154	94.94	38.20969	94.05734	315.32	28.11	0.02

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Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
155	94.9	38.20365	94.07468	314.61	28.13		155	94.91	38.20353	94.07462	315.11	28.11	0.01
156	94.87	38.19773	94.09208	314.4	28.13		156	94.89	38.19761	94.09202	314.9	28.11	0.02
157	94.85	38.19204	94.10961	314.2	28.13		157	94.87	38.19192	94.10954	314.7	28.11	0.02
158	94.83	38.1866	94.12724	313.99	28.13		158	94.84	38.18648	94.12718	314.49	28.11	0.01
159	94.8	38.1814	94.14499	313.78	28.13		159	94.82	38.18128	94.14493	314.28	28.11	0.02
160	94.78	38.17645	94.16285	313.57	28.13		160	94.8	38.17632	94.16279	314.07	28.11	0.02
161	94.76	38.17174	94.18081	313.36	28.13		161	94.77	38.17161	94.18075	313.86	28.11	0.01
162	94.73	38.16727	94.19886	313.15	28.13		162	94.75	38.16714	94.19881	313.65	28.11	0.02
163	94.71	38.16305	94.217	312.95	28.13		163	94.72	38.16292	94.21695	313.45	28.11	0.01
164	94.69	38.15908	94.23523	312.74	28.13		164	94.7	38.15895	94.23518	313.24	28.11	0.01
165	94.66	38.15536	94.25353	312.53	28.13		165	94.68	38.15523	94.25349	313.03	28.11	0.02
166	94.64	38.15189	94.27191	312.32	28.13		166	94.65	38.15176	94.27187	312.82	28.11	0.01
167	94.61	38.14867	94.29036	312.11	28.13		167	94.63	38.14854	94.29032	312.61	28.11	0.02
168	94.59	38.1457	94.30887	311.9	28.13		168	94.61	38.14557	94.30883	312.4	28.11	0.02
169	94.57	38.14299	94.32743	311.69	28.13		169	94.58	38.14285	94.3274	312.19	28.11	0.01
170	94.54	38.14053	94.34605	311.49	28.13		170	94.56	38.14039	94.34602	311.99	28.11	0.02
171	94.52	38.13832	94.36471	311.28	28.13		171	94.53	38.13818	94.36469	311.78	28.11	0.01
172	94.49	38.13637	94.38342	311.07	28.13		172	94.51	38.13623	94.38339	311.57	28.11	0.02
173	94.47	38.13467	94.40216	310.86	28.13		173	94.49	38.13453	94.40214	311.36	28.11	0.02
174	94.45	38.13323	94.42093	310.65	28.13		174	94.46	38.13308	94.42091	311.15	28.11	0.01
175	94.42	38.13204	94.43972	310.44	28.13		175	94.44	38.1319	94.4397	310.94	28.11	0.02
176	94.4	38.13111	94.45853	310.24	28.13		176	94.41	38.13096	94.45852	310.74	28.11	0.01
177	94.37	38.13043	94.47735	310.03	28.13		177	94.39	38.13029	94.47734	310.53	28.11	0.02
178	94.35	38.13001	94.49618	309.82	28.13		178	94.36	38.12987	94.49618	310.32	28.11	0.01
179	94.32	38.12985	94.51501	309.61	28.13		179	94.34	38.1297	94.51501	310.11	28.11	0.02
180	94.3	38.12994	94.53384	309.4	28.13		180	94.32	38.12979	94.53384	309.9	28.11	0.02
181	94.35	38.1296	94.55267	309.85	28.13		181	94.37	38.12945	94.55268	310.35	28.11	0.02
182	94.4	38.12952	94.57152	310.29	28.13		182	94.42	38.12937	94.57153	310.79	28.11	0.02
183	94.46	38.12969	94.59038	310.73	28.13		183	94.47	38.12955	94.59039	311.23	28.11	0.01
184	94.51	38.13012	94.60924	311.18	28.13		184	94.52	38.12998	94.60925	311.68	28.11	0.01
185	94.56	38.13082	94.6281	311.62	28.13		185	94.57	38.13068	94.62811	312.12	28.11	0.01
186	94.61	38.13176	94.64695	312.06	28.13		186	94.62	38.13163	94.64697	312.56	28.11	0.01
187	94.66	38.13297	94.66579	312.51	28.13		187	94.67	38.13284	94.66581	313.01	28.11	0.01
188	94.71	38.13444	94.6846	312.95	28.13		188	94.73	38.13431	94.68463	313.45	28.11	0.02
189	94.76	38.13616	94.7034	313.4	28.13		189	94.78	38.13603	94.70342	313.9	28.11	0.02
190	94.81	38.13815	94.72216	313.84	28.13		190	94.83	38.13802	94.72219	314.34	28.11	0.02
191	94.86	38.14039	94.74089	314.28	28.13		191	94.88	38.14026	94.74092	314.78	28.11	0.02
192	94.91	38.14288	94.75957	314.73	28.13		192	94.92	38.14276	94.7596	315.23	28.11	0.01
193	94.96	38.14563	94.77821	315.17	28.13		193	94.97	38.14551	94.77824	315.67	28.11	0.01
194	95.01	38.14864	94.79679	315.62	28.13		194	95.02	38.14852	94.79683	316.12	28.11	0.01
195	95.06	38.15191	94.81531	316.06	28.13		195	95.07	38.15179	94.81535	316.56	28.11	0.01
196	95.11	38.15543	94.83377	316.5	28.13		196	95.12	38.15531	94.83382	317	28.11	0.01
197	95.16	38.1592	94.85216	316.95	28.13		197	95.17	38.15909	94.85221	317.45	28.11	0.01
198	95.21	38.16323	94.87048	317.39	28.13		198	95.22	38.16311	94.87052	317.89	28.11	0.01
199	95.25	38.1675	94.88871	317.84	28.13		199	95.27	38.16739	94.88876	318.34	28.11	0.02
200	95.3	38.17203	94.90685	318.28	28.13		200	95.31	38.17192	94.9069	318.78	28.11	0.01
201	95.35	38.17681	94.9249	318.72	28.13		201	95.36	38.1767	94.92496	319.22	28.11	0.01
202	95.4	38.18184	94.94286	319.17	28.13		202	95.41	38.18173	94.94291	319.67	28.11	0.01
203	95.45	38.18711	94.96071	319.61	28.13		203	95.46	38.18701	94.96076	320.11	28.11	0.01
204	95.49	38.19263	94.97845	320.06	28.13		204	95.5	38.19253	94.9785	320.56	28.11	0.01
205	95.54	38.1984	94.99607	320.5	28.13		205	95.55	38.1983	94.99613	321	28.11	0.01
206	95.59	38.2044	95.01358	320.94	28.13		206	95.6	38.20431	95.01364	321.44	28.11	0.01
207	95.63	38.21065	95.03096	321.39	28.13		207	95.65	38.21056	95.03102	321.89	28.11	0.02
208	95.68	38.21714	95.04821	321.83	28.13		208	95.69	38.21705	95.04827	322.33	28.11	0.01
209	95.73	38.22387	95.06532	322.27	28.13		209	95.74	38.22378	95.06538	322.77	28.11	0.01
210	95.77	38.23083	95.08229	322.72	28.13		210	95.78	38.23075	95.08235	323.22	28.11	0.01
211	95.82	38.23803	95.09911	323.16	28.13		211	95.83	38.23795	95.09917	323.66	28.11	0.01
212	95.86	38.24546	95.11578	323.61	28.13		212	95.88	38.24538	95.11585	324.11	28.11	0.02
213	95.91	38.25312	95.1323	324.05	28.13		213	95.92	38.25304	95.13236	324.55	28.11	0.01

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Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
214	95.96	38.26101	95.14865	324.49	28.13		214	95.97	38.26093	95.14871	324.99	28.11	0.01
215	96	38.26912	95.16483	324.94	28.13		215	96.01	38.26905	95.16489	325.44	28.11	0.01
216	96.05	38.27746	95.18084	325.38	28.13		216	96.06	38.27739	95.1809	325.88	28.11	0.01
217	96.09	38.28602	95.19667	325.83	28.13		217	96.1	38.28595	95.19674	326.33	28.11	0.01
218	96.14	38.2948	95.21232	326.27	28.13		218	96.15	38.29473	95.21239	326.77	28.11	0.01
219	96.18	38.30379	95.22778	326.71	28.13		219	96.19	38.30373	95.22785	327.21	28.11	0.01
220	96.22	38.313	95.24305	327.16	28.13		220	96.23	38.31294	95.24311	327.66	28.11	0.01
221	96.27	38.32242	95.25811	327.6	28.13		221	96.28	38.32236	95.25818	328.1	28.11	0.01
222	96.31	38.33205	95.27298	328.05	28.13		222	96.32	38.33199	95.27305	328.55	28.11	0.01
223	96.36	38.34189	95.28764	328.49	28.13		223	96.37	38.34183	95.28771	328.99	28.11	0.01
224	96.4	38.35193	95.30209	328.93	28.13		224	96.41	38.35187	95.30216	329.43	28.11	0.01
224.53	96.43	38.35731	95.30972	329.17	28.13		224.53	96.44	38.35725	95.30979	329.67	28.11	0.01
224.68	96.44	38.35881	95.31182	329.23	28.13		224.68	96.44	38.35876	95.31189	329.73	28.11	0
224.89	96.44	38.361	95.31479	329.33	28.13		224.89	96.45	38.36095	95.31485	329.83	28.11	0.01
225	96.44	38.36217	95.31632	329.38	28.13		225	96.45	38.36211	95.31639	329.88	28.11	0.01
225.25	96.44	38.3649	95.31977	329.27	28.13		225.25	96.45	38.36485	95.31984	329.77	28.11	0.01
225.42	96.43	38.36677	95.32205	329.19	28.13		225.42	96.44	38.36672	95.32212	329.69	28.11	0.01
225.54	96.43	38.36808	95.32362	329.14	28.13		225.54	96.43	38.36802	95.32369	329.64	28.11	0
226	96.4	38.37314	95.32963	328.94	28.13		226	96.41	38.37309	95.3297	329.44	28.11	0.01
227	96.36	38.3843	95.34269	328.51	28.13		227	96.37	38.38424	95.34276	329.01	28.11	0.01
228	96.32	38.39562	95.35549	328.08	28.13		228	96.32	38.39556	95.35557	328.58	28.11	0
229	96.27	38.40711	95.36804	327.64	28.13		229	96.28	38.40706	95.36812	328.14	28.11	0.01
230	96.23	38.41877	95.38033	327.21	28.13		230	96.24	38.41871	95.38041	327.71	28.11	0.01
231	96.19	38.43058	95.39235	326.78	28.13		231	96.2	38.43053	95.39244	327.28	28.11	0.01
232	96.14	38.44256	95.40411	326.34	28.13		232	96.15	38.4425	95.40419	326.84	28.11	0.01
233	96.1	38.45468	95.41559	325.91	28.13		233	96.11	38.45463	95.41568	326.41	28.11	0.01
234	96.06	38.46696	95.4268	325.48	28.13		234	96.07	38.46691	95.42689	325.98	28.11	0.01
235	96.01	38.47938	95.43773	325.04	28.13		235	96.02	38.47933	95.43782	325.54	28.11	0.01
236	95.97	38.49195	95.44838	324.61	28.13		236	95.98	38.49189	95.44847	325.11	28.11	0.01
237	95.92	38.50465	95.45874	324.18	28.13		237	95.93	38.5046	95.45884	324.68	28.11	0.01
238	95.88	38.51748	95.46881	323.74	28.13		238	95.89	38.51743	95.46892	324.24	28.11	0.01
239	95.83	38.53045	95.4786	323.31	28.13		239	95.85	38.5304	95.4787	323.81	28.11	0.02
240	95.79	38.54354	95.48809	322.88	28.13		240	95.8	38.54349	95.4882	323.38	28.11	0.01
241	95.74	38.55675	95.49728	322.45	28.13		241	95.76	38.5567	95.4974	322.95	28.11	0.02
242	95.7	38.57008	95.50618	322.01	28.13		242	95.71	38.57003	95.50629	322.51	28.11	0.01
243	95.65	38.58352	95.51477	321.58	28.13		243	95.67	38.58348	95.51489	322.08	28.11	0.02
244	95.61	38.59708	95.52306	321.15	28.13		244	95.62	38.59703	95.52318	321.65	28.11	0.01
245	95.56	38.61073	95.53105	320.71	28.13		245	95.57	38.61069	95.53117	321.21	28.11	0.01
246	95.52	38.62449	95.53872	320.28	28.13		246	95.53	38.62445	95.53885	320.78	28.11	0.01
247	95.47	38.63834	95.54608	319.85	28.13		247	95.48	38.6383	95.54621	320.35	28.11	0.01
248	95.42	38.65229	95.55313	319.41	28.13		248	95.44	38.65225	95.55326	319.91	28.11	0.02
249	95.38	38.66632	95.55987	318.98	28.13		249	95.39	38.66628	95.56	319.48	28.11	0.01
250	95.33	38.68044	95.56628	318.55	28.13		250	95.34	38.6804	95.56642	319.05	28.11	0.01
251	95.28	38.69463	95.57238	318.11	28.13		251	95.3	38.69459	95.57252	318.61	28.11	0.02
252	95.24	38.7089	95.57815	317.68	28.13		252	95.25	38.70886	95.57829	318.18	28.11	0.01
253	95.19	38.72324	95.58361	317.25	28.13		253	95.2	38.7232	95.58375	317.75	28.11	0.01
254	95.14	38.73764	95.58873	316.81	28.13		254	95.16	38.73761	95.58888	317.31	28.11	0.02
255	95.09	38.75211	95.59354	316.38	28.13		255	95.11	38.75207	95.59369	316.88	28.11	0.02
256	95.05	38.76663	95.59801	315.95	28.13		256	95.06	38.7666	95.59816	316.45	28.11	0.01
257	95	38.7812	95.60216	315.51	28.13		257	95.01	38.78117	95.60231	316.01	28.11	0.01
258	94.95	38.79582	95.60597	315.08	28.13		258	94.96	38.79579	95.60613	315.58	28.11	0.01
259	94.9	38.81048	95.60946	314.65	28.13		259	94.92	38.81045	95.60962	315.15	28.11	0.02
260	94.85	38.82518	95.61262	314.21	28.13		260	94.87	38.82516	95.61278	314.71	28.11	0.02
261	94.8	38.83991	95.61544	313.78	28.13		261	94.82	38.83989	95.6156	314.28	28.11	0.02
262	94.76	38.85467	95.61793	313.35	28.13		262	94.77	38.85465	95.6181	313.85	28.11	0.01
263	94.71	38.86946	95.62008	312.91	28.13		263	94.72	38.86944	95.62025	313.41	28.11	0.01
264	94.66	38.88427	95.6219	312.48	28.13		264	94.67	38.88425	95.62208	312.98	28.11	0.01
265	94.61	38.89909	95.62339	312.05	28.13		265	94.62	38.89907	95.62357	312.55	28.11	0.01
266	94.56	38.91392	95.62454	311.61	28.13		266	94.57	38.91391	95.62472	312.11	28.11	0.01

KSHB-TV (Ch. 36 at Kansas City, MO)

**Table 1 - Distance to Noise-Limited Contour Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility**

Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
267	94.51	38.92875	95.62536	311.18	28.13		267	94.52	38.92874	95.62554	311.68	28.11	0.01
268	94.46	38.94359	95.62584	310.75	28.13		268	94.47	38.94358	95.62602	311.25	28.11	0.01
269	94.41	38.95842	95.62598	310.31	28.13		269	94.42	38.95842	95.62617	310.81	28.11	0.01
270	94.36	38.97325	95.62579	309.88	28.13		270	94.37	38.97325	95.62598	310.38	28.11	0.01
270.18	94.36	38.97596	95.62588	309.99	28.13		270.18	94.38	38.97596	95.62606	310.49	28.11	0.02
271	94.43	38.98807	95.62668	310.49	28.13		271	94.44	38.98807	95.62687	310.99	28.11	0.01
272	94.5	39.00291	95.62723	311.11	28.13		272	94.51	39.00291	95.62742	311.61	28.11	0.01
273	94.57	39.01777	95.62745	311.72	28.13		273	94.58	39.01777	95.62763	312.22	28.11	0.01
274	94.64	39.03263	95.62733	312.33	28.13		274	94.65	39.03264	95.6275	312.83	28.11	0.01
275	94.71	39.04751	95.62686	312.95	28.13		275	94.72	39.04752	95.62703	313.45	28.11	0.01
276	94.78	39.06238	95.62606	313.56	28.13		276	94.79	39.0624	95.62623	314.06	28.11	0.01
277	94.85	39.07726	95.62491	314.17	28.13		277	94.86	39.07727	95.62508	314.67	28.11	0.01
278	94.92	39.09212	95.62343	314.78	28.13		278	94.93	39.09214	95.62359	315.28	28.11	0.01
279	94.99	39.10698	95.6216	315.4	28.13		279	95	39.107	95.62176	315.9	28.11	0.01
280	95.05	39.12182	95.61943	316.01	28.13		280	95.07	39.12184	95.61959	316.51	28.11	0.02
281	95.12	39.13663	95.61693	316.62	28.13		281	95.13	39.13665	95.61708	317.12	28.11	0.01
282	95.19	39.15142	95.61408	317.24	28.13		282	95.2	39.15144	95.61423	317.74	28.11	0.01
283	95.26	39.16618	95.61089	317.85	28.13		283	95.27	39.1662	95.61103	318.35	28.11	0.01
284	95.32	39.1809	95.60736	318.46	28.13		284	95.33	39.18093	95.6075	318.96	28.11	0.01
285	95.39	39.19558	95.60349	319.07	28.13		285	95.4	39.19561	95.60363	319.57	28.11	0.01
286	95.45	39.21022	95.59928	319.69	28.13		286	95.47	39.21024	95.59941	320.19	28.11	0.02
287	95.52	39.2248	95.59473	320.3	28.13		287	95.53	39.22483	95.59486	320.8	28.11	0.01
288	95.58	39.23933	95.58984	320.91	28.13		288	95.6	39.23936	95.58997	321.41	28.11	0.02
289	95.65	39.2538	95.58461	321.53	28.13		289	95.66	39.25383	95.58474	322.03	28.11	0.01
290	95.71	39.2682	95.57905	322.14	28.13		290	95.72	39.26824	95.57918	322.64	28.11	0.01
291	95.78	39.28254	95.57316	322.75	28.13		291	95.79	39.28257	95.57328	323.25	28.11	0.01
292	95.84	39.2968	95.56693	323.36	28.13		292	95.85	39.29684	95.56705	323.86	28.11	0.01
293	95.9	39.31099	95.56037	323.98	28.13		293	95.91	39.31102	95.56049	324.48	28.11	0.01
294	95.97	39.32509	95.55348	324.59	28.13		294	95.98	39.32512	95.55359	325.09	28.11	0.01
295	96.03	39.3391	95.54627	325.2	28.13		295	96.04	39.33913	95.54637	325.7	28.11	0.01
296	96.09	39.35302	95.53872	325.82	28.13		296	96.1	39.35305	95.53882	326.32	28.11	0.01
297	96.15	39.36684	95.53085	326.43	28.13		297	96.16	39.36688	95.53095	326.93	28.11	0.01
298	96.21	39.38056	95.52265	327.04	28.13		298	96.22	39.3806	95.52275	327.54	28.11	0.01
299	96.27	39.39417	95.51414	327.65	28.13		299	96.28	39.39421	95.51423	328.15	28.11	0.01
300	96.33	39.40768	95.5053	328.27	28.13		300	96.34	39.40772	95.50539	328.77	28.11	0.01
301	96.39	39.42107	95.49615	328.88	28.13		301	96.4	39.42111	95.49624	329.38	28.11	0.01
302	96.45	39.43434	95.48669	329.49	28.13		302	96.46	39.43437	95.48677	329.99	28.11	0.01
303	96.51	39.44748	95.47691	330.11	28.13		303	96.52	39.44752	95.47699	330.61	28.11	0.01
304	96.57	39.4605	95.46682	330.72	28.13		304	96.58	39.46054	95.4669	331.22	28.11	0.01
305	96.63	39.47338	95.45643	331.33	28.13		305	96.64	39.47342	95.45651	331.83	28.11	0.01
306	96.69	39.48613	95.44573	331.95	28.13		306	96.7	39.48617	95.44581	332.45	28.11	0.01
307	96.75	39.49873	95.43474	332.56	28.13		307	96.76	39.49877	95.43481	333.06	28.11	0.01
308	96.81	39.51119	95.42344	333.17	28.13		308	96.81	39.51123	95.42351	333.67	28.11	0
309	96.87	39.5235	95.41186	333.78	28.13		309	96.87	39.52354	95.41192	334.28	28.11	0
310	96.92	39.53566	95.39998	334.4	28.13		310	96.93	39.5357	95.40004	334.9	28.11	0.01
311	96.98	39.54766	95.38781	335.01	28.13		311	96.99	39.5477	95.38787	335.51	28.11	0.01
312	97.04	39.55949	95.37536	335.62	28.13		312	97.04	39.55953	95.37541	336.12	28.11	0
313	97.09	39.57116	95.36263	336.24	28.13		313	97.1	39.5712	95.36268	336.74	28.11	0.01
314	97.15	39.58267	95.34962	336.85	28.13		314	97.15	39.5827	95.34967	337.35	28.11	0
314.43	97.18	39.58759	95.34396	337.11	28.13		314.43	97.18	39.58762	95.34401	337.61	28.11	0
314.55	97.18	39.58892	95.34242	337.18	28.13		314.55	97.19	39.58896	95.34246	337.68	28.11	0.01
314.72	97.19	39.5909	95.34008	337.29	28.13		314.72	97.2	39.59094	95.34013	337.79	28.11	0.01
314.97	97.2	39.59369	95.33672	337.44	28.13		314.97	97.21	39.59373	95.33677	337.94	28.11	0.01
315	97.2	39.59399	95.33634	337.46	28.13		315	97.21	39.59403	95.33639	337.96	28.11	0.01
315.43	97.21	39.59872	95.33041	337.54	28.13		315.43	97.22	39.59875	95.33046	338.04	28.11	0.01
315.73	97.22	39.60201	95.3262	337.59	28.13		315.73	97.22	39.60204	95.32625	338.09	28.11	0
315.93	97.22	39.60411	95.32348	337.63	28.13		315.93	97.23	39.60415	95.32353	338.13	28.11	0.01
316	97.22	39.60489	95.32247	337.64	28.13		316	97.23	39.60493	95.32252	338.14	28.11	0.01
317	97.24	39.6156	95.30835	337.82	28.13		317	97.24	39.61564	95.30839	338.32	28.11	0

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Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
318	97.25	39.62612	95.29398	338.01	28.13		318	97.26	39.62616	95.29402	338.51	28.11	0.01
319	97.27	39.63645	95.27936	338.19	28.13		319	97.28	39.63649	95.27941	338.69	28.11	0.01
320	97.29	39.64657	95.26451	338.37	28.13		320	97.29	39.64661	95.26455	338.87	28.11	0
321	97.3	39.6565	95.24943	338.55	28.13		321	97.31	39.65654	95.24947	339.05	28.11	0.01
322	97.32	39.66622	95.23411	338.73	28.13		322	97.33	39.66626	95.23415	339.23	28.11	0.01
323	97.34	39.67573	95.21857	338.91	28.13		323	97.34	39.67577	95.21861	339.41	28.11	0
324	97.35	39.68503	95.20281	339.09	28.13		324	97.36	39.68507	95.20285	339.59	28.11	0.01
325	97.37	39.69412	95.18683	339.27	28.13		325	97.37	39.69416	95.18687	339.77	28.11	0
326	97.39	39.70299	95.17064	339.46	28.13		326	97.39	39.70303	95.17068	339.96	28.11	0
327	97.4	39.71164	95.15425	339.64	28.13		327	97.41	39.71168	95.15428	340.14	28.11	0.01
328	97.42	39.72007	95.13766	339.82	28.13		328	97.42	39.7201	95.13769	340.32	28.11	0
329	97.43	39.72827	95.12087	340	28.13		329	97.44	39.72831	95.1209	340.5	28.11	0.01
330	97.45	39.73624	95.10389	340.18	28.13		330	97.46	39.73628	95.10392	340.68	28.11	0.01
331	97.47	39.74399	95.08672	340.36	28.13		331	97.47	39.74403	95.08675	340.86	28.11	0
332	97.48	39.7515	95.06938	340.54	28.13		332	97.49	39.75154	95.0694	341.04	28.11	0.01
333	97.5	39.75877	95.05186	340.73	28.13		333	97.5	39.75881	95.05188	341.23	28.11	0
334	97.51	39.76581	95.03417	340.91	28.13		334	97.52	39.76585	95.03419	341.41	28.11	0.01
335	97.53	39.77261	95.01632	341.09	28.13		335	97.54	39.77265	95.01634	341.59	28.11	0.01
336	97.55	39.77916	94.99831	341.27	28.13		336	97.55	39.7792	94.99833	341.77	28.11	0
337	97.56	39.78547	94.98014	341.45	28.13		337	97.57	39.78551	94.98016	341.95	28.11	0.01
338	97.58	39.79154	94.96183	341.63	28.13		338	97.58	39.79158	94.96185	342.13	28.11	0
339	97.59	39.79735	94.94338	341.81	28.13		339	97.6	39.79739	94.9434	342.31	28.11	0.01
340	97.61	39.80292	94.92479	341.99	28.13		340	97.62	39.80296	94.92481	342.49	28.11	0.01
341	97.63	39.80823	94.90608	342.18	28.13		341	97.63	39.80827	94.90609	342.68	28.11	0
342	97.64	39.81329	94.88724	342.36	28.13		342	97.65	39.81333	94.88725	342.86	28.11	0.01
343	97.66	39.81809	94.86828	342.54	28.13		343	97.66	39.81813	94.86829	343.04	28.11	0
344	97.67	39.82264	94.84921	342.72	28.13		344	97.68	39.82267	94.84922	343.22	28.11	0.01
345	97.69	39.82692	94.83003	342.9	28.13		345	97.69	39.82696	94.83005	343.4	28.11	0
346	97.71	39.83095	94.81076	343.08	28.13		346	97.71	39.83099	94.81077	343.58	28.11	0
347	97.72	39.83471	94.79139	343.26	28.13		347	97.73	39.83475	94.7914	343.76	28.11	0.01
348	97.74	39.83821	94.77193	343.45	28.13		348	97.74	39.83825	94.77194	343.95	28.11	0
349	97.75	39.84145	94.75239	343.63	28.13		349	97.76	39.84149	94.7524	344.13	28.11	0.01
350	97.77	39.84442	94.73277	343.81	28.13		350	97.77	39.84446	94.73278	344.31	28.11	0
351	97.78	39.84713	94.71309	343.99	28.13		351	97.79	39.84716	94.7131	344.49	28.11	0.01
352	97.8	39.84956	94.69334	344.17	28.13		352	97.8	39.8496	94.69335	344.67	28.11	0
353	97.82	39.85173	94.67354	344.35	28.13		353	97.82	39.85177	94.67354	344.85	28.11	0
354	97.83	39.85363	94.65368	344.53	28.13		354	97.84	39.85367	94.65369	345.03	28.11	0.01
355	97.85	39.85526	94.63378	344.71	28.13		355	97.85	39.8553	94.63379	345.21	28.11	0
356	97.86	39.85663	94.61385	344.9	28.13		356	97.87	39.85666	94.61385	345.4	28.11	0.01
357	97.88	39.85772	94.59388	345.08	28.13		357	97.88	39.85775	94.59388	345.58	28.11	0
358	97.89	39.85854	94.57388	345.26	28.13		358	97.9	39.85857	94.57388	345.76	28.11	0.01
359	97.91	39.85908	94.55387	345.44	28.13		359	97.91	39.85912	94.55387	345.94	28.11	0
359.07	97.91	39.85911	94.55243	345.45	28.13		359.07	97.91	39.85915	94.55243	345.95	28.11	0
359.15	97.91	39.85914	94.55095	345.47	28.13		359.15	97.92	39.85918	94.55095	345.97	28.11	0.01
359.21	97.91	39.85917	94.54958	345.48	28.13		359.21	97.92	39.8592	94.54958	345.98	28.11	0.01
359.31	97.92	39.85921	94.54767	345.5	28.13		359.31	97.92	39.85924	94.54767	346	28.11	0
359.45	97.92	39.85926	94.54482	345.52	28.13		359.45	97.92	39.85929	94.54482	346.02	28.11	0
359.66	97.92	39.85932	94.54057	345.56	28.13		359.66	97.93	39.85935	94.54057	346.06	28.11	0.01
359.97	97.93	39.85936	94.53451	345.62	28.13		359.97	97.93	39.85939	94.53451	346.12	28.11	0