



ENGINEERING STATEMENT
OF
BENJAMIN L. PIDEK, P.E.
IN SUPPORT OF
APPLICATION FOR CONSTRUCTION PERMIT
POST-INCENTIVE AUCTION ASSIGNMENT FACILITY
WCPO-TV
CINCINNATI, OH

Background

Scripps Broadcasting Holdings LLC (Scripps) is the licensee of WCPO, located at Cincinnati, OH, which is presently authorized to operate its digital facility on Channel 22 with the following parameters:

Pre-Incentive Auction Facility (Ch. 22)

Coordinates: 39° 07' 30.4" N (NAD83)
84° 29' 56.0" W
ERP: 880 kW (omni)
RCAMSL: 508.9m

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WCPO has been assigned Ch. 26 for its post-incentive auction facility with the following parameters:

Post-Incentive Auction Facility (Ch. 26)

Coordinates: 39° 07' 30.4" N (NAD83)
84° 29' 56.0" W
ERP: 963 kW (omni)
RCAMSL: 508.9m

Antenna System and Tower

The existing top-mounted omni-directional WCPO Ch. 22 antenna (Dielectric TFU-36GTH/VP-R 06) is a coaxial slot antenna that is channel specific and not usable on Ch. 26. Scripps intends to replace the existing top-mounted antenna with a new omni-directional coaxial slot antenna for Ch. 26 (Dielectric TFU-36GTH/VP-R 06). The replacement of the top-mounted antenna will result in a 2.5m reduction in the overall height of the structure. The height of the antenna radiation center will be reduced by 2.1m. Scripps plans to notify the FAA of the reduction in structure height and update the ASR after construction of the new Ch. 26 facility is complete.

The current Ch. 22 antenna is elliptically polarized and the new Ch. 26 antenna will also be elliptically polarized. The vertically polarized radiation will not exceed the horizontally polarized component in any azimuth.

The new Ch. 26 antenna will be installed on the registered tower ASR#1013618 which will have a new overall height of 518.7m AMSL (with appurtenances) and the antenna will have a center of radiation of 506.7m AMSL (with a calculated HAAT of 297m).

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To offset the 2.1m decrease in the height of the antenna radiation center, Scripps proposes to increase the WCPO ERP from the assigned 963 kW to 985 kW. The proposed parameters of the WCPO 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 WCPO facility parameters. As can be seen from the table, the maximum difference between the two calculated contours is a de minimis 0.05 km (0.05%).

Coverage

The entire principal community of Cincinnati, OH is well within the predicted F(50,90) 48 dBu contour based on the proposed omni-directional 985 kW ERP.

Interference

An interference check study was run using the FCC TVStudy software (Version 2.2.2) for the proposed WCPO 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



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 0.005377 mW/cm^2 , which is less than 5% of the MPE for public exposure (0.363333 mW/cm^2) at Ch. 26 (542-548 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", is written over a horizontal line.

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

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WCPO-TV (Ch. 26 at Cincinnati, OH)
Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility

Post-Incentive Auction Assigned Facility

ERP: 962 kW
RCAMSL: 508.9 m
HAAT: 300.0 m

Proposed Facility

ERP: 985 kW
RCAMSL: 506.8 m
HAAT: 297.0 m

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
0	98.31	40.00956	84.49883	296.81	29.84		0	98.25	40.00892	84.49889	294.56	29.93	-0.06
1	98.25	40.00888	84.47869	296.30	29.84		1	98.19	40.00823	84.47876	294.05	29.93	-0.06
2	98.19	40.00792	84.45858	295.79	29.84		2	98.12	40.00727	84.45867	293.54	29.93	-0.07
3	98.13	40.00669	84.43851	295.28	29.84		3	98.06	40.00603	84.43861	293.03	29.93	-0.07
4	98.07	40.00518	84.41849	294.77	29.84		4	98.00	40.00452	84.41860	292.52	29.93	-0.07
5	98.01	40.00340	84.39851	294.25	29.84		5	97.94	40.00274	84.39864	292.01	29.93	-0.07
6	97.94	40.00136	84.37860	293.74	29.84		6	97.88	40.00068	84.37874	291.50	29.93	-0.06
7	97.88	39.99904	84.35874	293.23	29.84		7	97.81	39.99836	84.35890	290.99	29.93	-0.07
8	97.82	39.99645	84.33896	292.72	29.84		8	97.75	39.99576	84.33913	290.48	29.93	-0.07
9	97.76	39.99359	84.31926	292.21	29.84		9	97.69	39.99290	84.31944	289.97	29.93	-0.07
10	97.69	39.99046	84.29963	291.70	29.84		10	97.62	39.98978	84.29983	289.46	29.93	-0.07
11	97.63	39.98707	84.28010	291.19	29.84		11	97.56	39.98638	84.28032	288.95	29.93	-0.07
12	97.57	39.98342	84.26066	290.67	29.84		12	97.49	39.98273	84.26089	288.44	29.93	-0.08
13	97.50	39.97950	84.24133	290.16	29.84		13	97.43	39.97881	84.24157	287.93	29.93	-0.07
14	97.44	39.97533	84.22210	289.65	29.84		14	97.36	39.97463	84.22236	287.42	29.93	-0.08
15	97.37	39.97089	84.20298	289.14	29.84		15	97.30	39.97020	84.20326	286.91	29.93	-0.07
16	97.31	39.96620	84.18399	288.63	29.84		16	97.24	39.96550	84.18428	286.40	29.93	-0.07
17	97.24	39.96125	84.16512	288.12	29.84		17	97.17	39.96055	84.16543	285.89	29.93	-0.07
18	97.18	39.95605	84.14638	287.61	29.84		18	97.11	39.95535	84.14671	285.38	29.93	-0.07
19	97.11	39.95060	84.12778	287.09	29.84		19	97.04	39.94990	84.12813	284.88	29.93	-0.07
20	97.05	39.94490	84.10932	286.58	29.84		20	96.97	39.94420	84.10969	284.37	29.93	-0.08
21	96.98	39.93895	84.09102	286.07	29.84		21	96.91	39.93824	84.09140	283.86	29.93	-0.07
22	96.92	39.93275	84.07287	285.56	29.84		22	96.84	39.93205	84.07327	283.35	29.93	-0.08
23	96.85	39.92631	84.05488	285.05	29.84		23	96.77	39.92561	84.05529	282.84	29.93	-0.08
24	96.78	39.91963	84.03705	284.54	29.84		24	96.71	39.91893	84.03749	282.33	29.93	-0.07
25	96.72	39.91272	84.01940	284.03	29.84		25	96.64	39.91202	84.01985	281.82	29.93	-0.08
26	96.65	39.90556	84.00193	283.51	29.84		26	96.57	39.90487	84.00239	281.31	29.93	-0.08
27	96.58	39.89818	83.98463	283.00	29.84		27	96.51	39.89749	83.98511	280.80	29.93	-0.07
28	96.52	39.89057	83.96753	282.49	29.84		28	96.44	39.88988	83.96802	280.29	29.93	-0.08
29	96.45	39.88273	83.95062	281.98	29.84		29	96.37	39.88204	83.95113	279.78	29.93	-0.08
30	96.38	39.87466	83.93390	281.47	29.84		30	96.30	39.87398	83.93443	279.27	29.93	-0.08
31	96.31	39.86638	83.91739	280.96	29.84		31	96.23	39.86570	83.91793	278.76	29.93	-0.08
32	96.25	39.85788	83.90108	280.45	29.84		32	96.16	39.85719	83.90166	278.25	29.93	-0.09
33	96.18	39.84915	83.88500	279.93	29.84		33	96.09	39.84847	83.88559	277.74	29.93	-0.09
34	96.11	39.84021	83.86914	279.42	29.84		34	96.02	39.83953	83.86975	277.23	29.93	-0.09
35	96.04	39.83106	83.85350	278.91	29.84		35	95.95	39.83038	83.85412	276.72	29.93	-0.09
36	95.97	39.82170	83.83809	278.40	29.84		36	95.88	39.82103	83.83873	276.21	29.93	-0.09
37	95.90	39.81215	83.82291	277.89	29.84		37	95.81	39.81148	83.82356	275.70	29.93	-0.09
38	95.82	39.80239	83.80796	277.38	29.84		38	95.74	39.80173	83.80864	275.19	29.93	-0.08
39	95.75	39.79244	83.79326	276.87	29.84		39	95.67	39.79179	83.79395	274.68	29.93	-0.08
40	95.68	39.78230	83.77880	276.35	29.84		40	95.60	39.78165	83.77951	274.17	29.93	-0.08
41	95.61	39.77197	83.76460	275.84	29.84		41	95.53	39.77133	83.76531	273.66	29.93	-0.08
42	95.54	39.76145	83.75064	275.33	29.84		42	95.45	39.76082	83.75137	273.15	29.93	-0.09
43	95.47	39.75076	83.73694	274.82	29.84		43	95.38	39.75012	83.73770	272.64	29.93	-0.09
44	95.39	39.73987	83.72352	274.31	29.84		44	95.31	39.73924	83.72430	272.13	29.93	-0.08
45	95.32	39.72882	83.71036	273.80	29.84		45	95.23	39.72819	83.71116	271.62	29.93	-0.09
46	95.25	39.71920	83.69527	273.29	29.84		46	95.16	39.71860	83.69606	271.11	29.93	-0.09
47	95.18	39.70933	83.68041	272.78	29.84		47	95.09	39.70875	83.68121	270.60	29.93	-0.09
48	95.11	39.69924	83.66577	272.27	29.84		48	95.02	39.69867	83.66657	270.09	29.93	-0.09
49	95.04	39.68892	83.65135	271.76	29.84		49	94.95	39.68836	83.65216	269.58	29.93	-0.09
50	94.97	39.67837	83.63716	271.25	29.84		50	94.88	39.67783	83.63798	269.07	29.93	-0.08
51	94.90	39.66759	83.62324	270.74	29.84		51	94.81	39.66707	83.62405	268.56	29.93	-0.08
52	94.83	39.65659	83.60957	270.23	29.84		52	94.74	39.65608	83.61038	268.05	29.93	-0.08

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

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
53	96.74	39.64537	83.59614	284.18	29.84		53	96.66	39.64488	83.59695	281.95	29.93	-0.08
54	96.91	39.63395	83.58296	285.47	29.84		54	96.83	39.63347	83.58378	283.24	29.93	-0.08
55	97.07	39.62233	83.57004	286.77	29.84		55	96.99	39.62186	83.57086	284.53	29.93	-0.08
56	97.24	39.61049	83.55740	288.07	29.84		56	97.16	39.61005	83.55821	285.82	29.93	-0.08
57	97.40	39.59846	83.54502	289.36	29.84		57	97.33	39.59803	83.54584	287.11	29.93	-0.07
58	97.56	39.58623	83.53292	290.66	29.84		58	97.49	39.58582	83.53373	288.40	29.93	-0.07
59	97.72	39.57382	83.52110	291.96	29.84		59	97.65	39.57342	83.52191	289.69	29.93	-0.07
60	97.88	39.56122	83.50956	293.26	29.84		60	97.81	39.56083	83.51036	290.98	29.93	-0.07
61	98.04	39.54843	83.49832	294.55	29.84		61	97.97	39.54806	83.49911	292.27	29.93	-0.07
62	98.20	39.53547	83.48737	295.85	29.84		62	98.13	39.53512	83.48816	293.56	29.93	-0.07
63	98.35	39.52233	83.47673	297.15	29.84		63	98.28	39.52199	83.47751	294.85	29.93	-0.07
64	98.50	39.50902	83.46639	298.45	29.84		64	98.44	39.50870	83.46716	296.14	29.93	-0.06
65	98.65	39.49554	83.45639	299.74	29.84		65	98.59	39.49524	83.45711	297.43	29.93	-0.06
66	98.80	39.48189	83.44671	301.04	29.84		66	98.74	39.48162	83.44739	298.73	29.93	-0.06
67	98.95	39.46809	83.43735	302.34	29.84		67	98.89	39.46784	83.43798	300.02	29.93	-0.06
68	99.09	39.45413	83.42831	303.63	29.84		68	99.04	39.45391	83.42889	301.31	29.93	-0.05
69	99.23	39.44003	83.41961	304.93	29.84		69	99.19	39.43983	83.42014	302.60	29.93	-0.04
70	99.37	39.42579	83.41124	306.23	29.84		70	99.33	39.42561	83.41172	303.89	29.93	-0.04
71	99.51	39.41141	83.40320	307.53	29.84		71	99.47	39.41125	83.40363	305.18	29.93	-0.04
72	99.64	39.39690	83.39550	308.82	29.84		72	99.61	39.39676	83.39588	306.47	29.93	-0.03
73	99.78	39.38226	83.38814	310.12	29.84		73	99.75	39.38214	83.38847	307.76	29.93	-0.03
74	99.91	39.36750	83.38112	311.42	29.84		74	99.89	39.36739	83.38141	309.05	29.93	-0.02
75	100.05	39.35263	83.37445	312.72	29.84		75	100.03	39.35253	83.37469	310.34	29.93	-0.02
76	100.18	39.33764	83.36812	314.01	29.84		76	100.16	39.33756	83.36831	311.63	29.93	-0.02
77	100.31	39.32255	83.36215	315.31	29.84		77	100.30	39.32248	83.36229	312.92	29.93	-0.01
78	100.44	39.30736	83.35652	316.61	29.84		78	100.43	39.30730	83.35662	314.21	29.93	-0.01
79	100.56	39.29208	83.35124	317.91	29.84		79	100.56	39.29202	83.35130	315.50	29.93	0.00
80	100.69	39.27670	83.34633	319.20	29.84		80	100.69	39.27664	83.34634	316.79	29.93	0.00
81	100.82	39.26124	83.34177	320.50	29.84		81	100.82	39.26119	83.34173	318.08	29.93	0.00
82	100.94	39.24569	83.33757	321.80	29.84		82	100.95	39.24565	83.33749	319.37	29.93	0.01
83	101.06	39.23008	83.33374	323.09	29.84		83	101.08	39.23003	83.33361	320.66	29.93	0.02
84	101.19	39.21439	83.33026	324.39	29.84		84	101.21	39.21434	83.33009	321.96	29.93	0.02
85	101.31	39.19864	83.32715	325.69	29.84		85	101.33	39.19859	83.32693	323.25	29.93	0.02
86	101.43	39.18283	83.32439	326.99	29.84		86	101.46	39.18278	83.32414	324.54	29.93	0.03
87	101.55	39.16696	83.32201	328.28	29.84		87	101.58	39.16691	83.32171	325.83	29.93	0.03
88	101.67	39.15105	83.32000	329.58	29.84		88	101.70	39.15099	83.31965	327.12	29.93	0.03
89	101.79	39.13509	83.31835	330.88	29.84		89	101.83	39.13503	83.31797	328.41	29.93	0.04
90	101.91	39.11909	83.31707	332.18	29.84		90	101.95	39.11903	83.31665	329.70	29.93	0.04
91	101.89	39.10310	83.31765	332.05	29.84		91	101.94	39.10303	83.31722	329.58	29.93	0.05
92	101.88	39.08712	83.31858	331.93	29.84		92	101.92	39.08704	83.31816	329.47	29.93	0.04
93	101.87	39.07115	83.31988	331.81	29.84		93	101.91	39.07107	83.31945	329.35	29.93	0.04
94	101.86	39.05521	83.32153	331.68	29.84		94	101.90	39.05512	83.32110	329.23	29.93	0.04
95	101.85	39.03929	83.32354	331.56	29.84		95	101.89	39.03919	83.32311	329.12	29.93	0.04
96	101.84	39.02341	83.32591	331.44	29.84		96	101.88	39.02330	83.32547	329.00	29.93	0.04
97	101.83	39.00756	83.32863	331.32	29.84		97	101.87	39.00745	83.32819	328.89	29.93	0.04
98	101.82	38.99175	83.33170	331.19	29.84		98	101.86	38.99163	83.33127	328.77	29.93	0.04
99	101.81	38.97599	83.33513	331.07	29.84		99	101.85	38.97586	83.33469	328.65	29.93	0.04
100	101.79	38.96028	83.33891	330.95	29.84		100	101.84	38.96014	83.33847	328.54	29.93	0.05
101	101.78	38.94462	83.34304	330.82	29.84		101	101.83	38.94448	83.34260	328.42	29.93	0.05
102	101.77	38.92902	83.34752	330.70	29.84		102	101.82	38.92887	83.34708	328.30	29.93	0.05
103	101.76	38.91349	83.35234	330.58	29.84		103	101.80	38.91333	83.35190	328.19	29.93	0.04
104	101.75	38.89803	83.35751	330.46	29.84		104	101.79	38.89786	83.35707	328.07	29.93	0.04
105	101.74	38.88264	83.36302	330.33	29.84		105	101.78	38.88247	83.36258	327.96	29.93	0.04
106	101.73	38.86733	83.36888	330.21	29.84		106	101.77	38.86715	83.36844	327.84	29.93	0.04
107	101.72	38.85210	83.37507	330.09	29.84		107	101.76	38.85192	83.37463	327.72	29.93	0.04
108	101.70	38.83696	83.38160	329.96	29.84		108	101.75	38.83677	83.38116	327.61	29.93	0.05
109	101.69	38.82192	83.38846	329.84	29.84		109	101.74	38.82172	83.38802	327.49	29.93	0.05
110	101.68	38.80697	83.39566	329.72	29.84		110	101.73	38.80676	83.39522	327.37	29.93	0.05
111	101.67	38.79212	83.40318	329.60	29.84		111	101.72	38.79190	83.40275	327.26	29.93	0.05
112	101.66	38.77737	83.41104	329.47	29.84		112	101.71	38.77715	83.41060	327.14	29.93	0.05

WCPO-TV (Ch. 26 at Cincinnati, OH)
Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
113	101.65	38.76274	83.41922	329.35	29.84		113	101.69	38.76251	83.41878	327.03	29.93	0.04
114	101.64	38.74822	83.42772	329.23	29.84		114	101.68	38.74799	83.42728	326.91	29.93	0.04
115	101.63	38.73382	83.43654	329.10	29.84		115	101.67	38.73358	83.43610	326.79	29.93	0.04
116	101.61	38.71955	83.44567	328.98	29.84		116	101.66	38.71930	83.44524	326.68	29.93	0.05
117	101.60	38.70540	83.45512	328.86	29.84		117	101.65	38.70514	83.45469	326.56	29.93	0.05
118	101.59	38.69138	83.46488	328.74	29.84		118	101.64	38.69111	83.46445	326.44	29.93	0.05
119	101.58	38.67750	83.47495	328.61	29.84		119	101.63	38.67723	83.47452	326.33	29.93	0.05
120	101.57	38.66376	83.48532	328.49	29.84		120	101.62	38.66348	83.48489	326.21	29.93	0.05
121	101.56	38.65016	83.49599	328.37	29.84		121	101.61	38.64987	83.49557	326.10	29.93	0.05
122	101.55	38.63671	83.50695	328.24	29.84		122	101.59	38.63641	83.50654	325.98	29.93	0.04
123	101.53	38.62341	83.51821	328.12	29.84		123	101.58	38.62311	83.51780	325.86	29.93	0.05
124	101.52	38.61027	83.52976	328.00	29.84		124	101.57	38.60996	83.52935	325.75	29.93	0.05
125	101.51	38.59729	83.54160	327.88	29.84		125	101.56	38.59697	83.54119	325.63	29.93	0.05
126	101.50	38.58447	83.55372	327.75	29.84		126	101.55	38.58415	83.55332	325.51	29.93	0.05
127	101.49	38.57182	83.56612	327.63	29.84		127	101.54	38.57149	83.56572	325.40	29.93	0.05
128	101.48	38.55934	83.57879	327.51	29.84		128	101.53	38.55900	83.57839	325.28	29.93	0.05
129	101.47	38.54704	83.59173	327.39	29.84		129	101.52	38.54669	83.59134	325.17	29.93	0.05
130	101.46	38.53491	83.60494	327.26	29.84		130	101.51	38.53455	83.60456	325.05	29.93	0.05
131	101.44	38.52297	83.61842	327.14	29.84		131	101.49	38.52260	83.61803	324.93	29.93	0.05
132	101.43	38.51121	83.63215	327.02	29.84		132	101.48	38.51084	83.63177	324.82	29.93	0.05
133	101.42	38.49964	83.64613	326.89	29.84		133	101.47	38.49926	83.64576	324.70	29.93	0.05
134	101.41	38.48826	83.66037	326.77	29.84		134	101.46	38.48788	83.66000	324.58	29.93	0.05
135	101.40	38.47708	83.67485	326.65	29.84		135	101.45	38.47669	83.67449	324.47	29.93	0.05
136	101.37	38.46618	83.68967	326.39	29.84		136	101.42	38.46579	83.68933	324.21	29.93	0.05
137	101.35	38.45549	83.70473	326.13	29.84		137	101.40	38.45510	83.70440	323.95	29.93	0.05
138	101.32	38.44500	83.72001	325.87	29.84		138	101.37	38.44461	83.71970	323.68	29.93	0.05
139	101.30	38.43473	83.73552	325.61	29.84		139	101.35	38.43434	83.73522	323.42	29.93	0.05
140	101.28	38.42467	83.75125	325.35	29.84		140	101.32	38.42428	83.75096	323.16	29.93	0.04
141	101.25	38.41483	83.76719	325.09	29.84		141	101.30	38.41444	83.76691	322.90	29.93	0.05
142	101.23	38.40520	83.78334	324.83	29.84		142	101.27	38.40482	83.78308	322.64	29.93	0.04
143	101.20	38.39580	83.79969	324.57	29.84		143	101.25	38.39542	83.79944	322.38	29.93	0.05
144	101.18	38.38663	83.81624	324.31	29.84		144	101.22	38.38625	83.81601	322.11	29.93	0.04
145	101.15	38.37768	83.83299	324.05	29.84		145	101.20	38.37730	83.83277	321.85	29.93	0.05
146	101.13	38.36896	83.84992	323.79	29.84		146	101.17	38.36859	83.84972	321.59	29.93	0.04
147	101.10	38.36048	83.86704	323.53	29.84		147	101.14	38.36011	83.86685	321.33	29.93	0.04
148	101.08	38.35223	83.88434	323.27	29.84		148	101.12	38.35187	83.88416	321.07	29.93	0.04
149	101.05	38.34422	83.90180	323.01	29.84		149	101.09	38.34386	83.90164	320.81	29.93	0.04
150	101.03	38.33644	83.91944	322.75	29.84		150	101.07	38.33609	83.91929	320.54	29.93	0.04
151	101.01	38.32891	83.93724	322.49	29.84		151	101.04	38.32857	83.93710	320.28	29.93	0.03
152	100.98	38.32163	83.95520	322.22	29.84		152	101.02	38.32129	83.95506	320.02	29.93	0.04
153	100.96	38.31459	83.97330	321.96	29.84		153	100.99	38.31425	83.97318	319.76	29.93	0.03
154	100.93	38.30780	83.99156	321.70	29.84		154	100.96	38.30747	83.99145	319.50	29.93	0.03
155	100.91	38.30125	84.00995	321.44	29.84		155	100.94	38.30093	84.00985	319.24	29.93	0.03
156	100.88	38.29497	84.02848	321.18	29.84		156	100.91	38.29465	84.02839	318.98	29.93	0.03
157	100.86	38.28893	84.04714	320.92	29.84		157	100.89	38.28862	84.04706	318.71	29.93	0.03
158	100.83	38.28315	84.06592	320.66	29.84		158	100.86	38.28285	84.06585	318.45	29.93	0.03
159	100.81	38.27763	84.08482	320.40	29.84		159	100.83	38.27733	84.08476	318.19	29.93	0.02
160	100.78	38.27236	84.10384	320.14	29.84		160	100.81	38.27207	84.10379	317.93	29.93	0.03
161	100.76	38.26736	84.12296	319.88	29.84		161	100.78	38.26707	84.12292	317.67	29.93	0.02
162	100.73	38.26261	84.14218	319.62	29.84		162	100.76	38.26234	84.14215	317.41	29.93	0.03
163	100.71	38.25813	84.16149	319.36	29.84		163	100.73	38.25786	84.16147	317.14	29.93	0.02
164	100.68	38.25391	84.18090	319.10	29.84		164	100.70	38.25365	84.18089	316.88	29.93	0.02
165	100.65	38.24996	84.20039	318.84	29.84		165	100.68	38.24971	84.20038	316.62	29.93	0.03
166	100.63	38.24627	84.21996	318.58	29.84		166	100.65	38.24603	84.21996	316.36	29.93	0.02
167	100.60	38.24285	84.23960	318.32	29.84		167	100.62	38.24262	84.23961	316.10	29.93	0.02
168	100.58	38.23970	84.25931	318.06	29.84		168	100.60	38.23947	84.25932	315.84	29.93	0.02
169	100.55	38.23682	84.27908	317.80	29.84		169	100.57	38.23660	84.27909	315.58	29.93	0.02
170	100.53	38.23420	84.29890	317.54	29.84		170	100.54	38.23399	84.29892	315.31	29.93	0.01
171	100.50	38.23185	84.31877	317.28	29.84		171	100.52	38.23166	84.31880	315.05	29.93	0.02
172	100.48	38.22978	84.33868	317.02	29.84		172	100.49	38.22959	84.33872	314.79	29.93	0.01

WCPO-TV (Ch. 26 at Cincinnati, OH)
Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
173	100.45	38.22798	84.35864	316.76	29.84		173	100.46	38.22779	84.35867	314.53	29.93	0.01
174	100.42	38.22644	84.37862	316.50	29.84		174	100.44	38.22627	84.37866	314.27	29.93	0.02
175	100.40	38.22518	84.39862	316.24	29.84		175	100.41	38.22502	84.39867	314.01	29.93	0.01
176	100.37	38.22419	84.41865	315.98	29.84		176	100.38	38.22404	84.41870	313.74	29.93	0.01
177	100.35	38.22348	84.43869	315.72	29.84		177	100.36	38.22333	84.43874	313.48	29.93	0.01
178	100.32	38.22303	84.45874	315.46	29.84		178	100.33	38.22290	84.45879	313.22	29.93	0.01
179	100.30	38.22286	84.47879	315.20	29.84		179	100.30	38.22273	84.47884	312.96	29.93	0.00
180	100.27	38.22295	84.49883	314.94	29.84		180	100.28	38.22284	84.49889	312.70	29.93	0.01
181	100.21	38.22360	84.51886	314.38	29.84		181	100.22	38.22350	84.51892	312.14	29.93	0.01
182	100.16	38.22451	84.53886	313.82	29.84		182	100.16	38.22443	84.53892	311.58	29.93	0.00
183	100.10	38.22570	84.55883	313.26	29.84		183	100.10	38.22564	84.55888	311.02	29.93	0.00
184	100.04	38.22715	84.57875	312.70	29.84		184	100.04	38.22711	84.57881	310.46	29.93	0.00
185	99.99	38.22888	84.59863	312.14	29.84		185	99.98	38.22886	84.59869	309.89	29.93	-0.01
186	99.93	38.23088	84.61846	311.58	29.84		186	99.92	38.23088	84.61851	309.33	29.93	-0.01
187	99.87	38.23315	84.63823	311.01	29.84		187	99.86	38.23316	84.63828	308.77	29.93	-0.01
188	99.81	38.23569	84.65794	310.45	29.84		188	99.80	38.23572	84.65798	308.21	29.93	-0.01
189	99.76	38.23849	84.67758	309.89	29.84		189	99.74	38.23854	84.67761	307.65	29.93	-0.02
190	99.70	38.24156	84.69714	309.33	29.84		190	99.68	38.24163	84.69716	307.09	29.93	-0.02
191	99.64	38.24490	84.71662	308.77	29.84		191	99.62	38.24499	84.71663	306.53	29.93	-0.02
192	99.58	38.24850	84.73601	308.21	29.84		192	99.56	38.24861	84.73602	305.97	29.93	-0.02
193	99.52	38.25236	84.75531	307.65	29.84		193	99.50	38.25249	84.75531	305.41	29.93	-0.02
194	99.46	38.25648	84.77451	307.09	29.84		194	99.44	38.25663	84.77450	304.85	29.93	-0.02
195	99.40	38.26087	84.79360	306.53	29.84		195	99.38	38.26103	84.79358	304.29	29.93	-0.02
196	99.34	38.26550	84.81259	305.97	29.84		196	99.31	38.26569	84.81256	303.73	29.93	-0.03
197	99.28	38.27040	84.83146	305.41	29.84		197	99.25	38.27060	84.83141	303.17	29.93	-0.03
198	99.22	38.27555	84.85020	304.85	29.84		198	99.19	38.27577	84.85015	302.61	29.93	-0.03
199	99.16	38.28095	84.86883	304.29	29.84		199	99.12	38.28119	84.86875	302.05	29.93	-0.04
200	99.10	38.28661	84.88731	303.73	29.84		200	99.06	38.28687	84.88722	301.49	29.93	-0.04
201	99.04	38.29251	84.90566	303.17	29.84		201	99.00	38.29279	84.90555	300.93	29.93	-0.04
202	98.97	38.29866	84.92387	302.60	29.84		202	98.93	38.29896	84.92374	300.36	29.93	-0.04
203	98.91	38.30506	84.94192	302.04	29.84		203	98.87	38.30537	84.94178	299.80	29.93	-0.04
204	98.85	38.31169	84.95982	301.48	29.84		204	98.80	38.31202	84.95966	299.24	29.93	-0.05
205	98.79	38.31857	84.97757	300.92	29.84		205	98.74	38.31892	84.97738	298.68	29.93	-0.05
206	98.72	38.32569	84.99514	300.36	29.84		206	98.67	38.32605	84.99494	298.12	29.93	-0.05
207	98.66	38.33304	85.01255	299.80	29.84		207	98.61	38.33342	85.01232	297.56	29.93	-0.05
208	98.60	38.34062	85.02978	299.24	29.84		208	98.54	38.34102	85.02953	297.00	29.93	-0.06
209	98.53	38.34844	85.04682	298.68	29.84		209	98.47	38.34884	85.04656	296.44	29.93	-0.06
210	98.47	38.35649	85.06368	298.12	29.84		210	98.41	38.35690	85.06340	295.88	29.93	-0.06
211	98.40	38.36476	85.08035	297.56	29.84		211	98.34	38.36518	85.08004	295.32	29.93	-0.06
212	98.33	38.37326	85.09682	297.00	29.84		212	98.27	38.37368	85.09650	294.76	29.93	-0.06
213	98.27	38.38197	85.11309	296.44	29.84		213	98.20	38.38239	85.11275	294.20	29.93	-0.07
214	98.20	38.39090	85.12915	295.88	29.84		214	98.14	38.39132	85.12879	293.64	29.93	-0.06
215	98.13	38.40004	85.14500	295.32	29.84		215	98.07	38.40047	85.14463	293.08	29.93	-0.06
216	98.07	38.40940	85.16064	294.76	29.84		216	98.00	38.40982	85.16025	292.52	29.93	-0.07
217	98.00	38.41895	85.17606	294.19	29.84		217	97.93	38.41938	85.17565	291.96	29.93	-0.07
218	97.93	38.42872	85.19125	293.63	29.84		218	97.86	38.42914	85.19083	291.40	29.93	-0.07
219	97.86	38.43868	85.20622	293.07	29.84		219	97.79	38.43910	85.20578	290.83	29.93	-0.07
220	97.79	38.44883	85.22095	292.51	29.84		220	97.72	38.44926	85.22049	290.27	29.93	-0.07
221	97.72	38.45919	85.23545	291.95	29.84		221	97.65	38.45961	85.23497	289.71	29.93	-0.07
222	97.65	38.46973	85.24970	291.39	29.84		222	97.58	38.47015	85.24921	289.15	29.93	-0.07
223	97.58	38.48045	85.26371	290.83	29.84		223	97.51	38.48087	85.26320	288.59	29.93	-0.07
224	97.52	38.49136	85.27747	290.27	29.84		224	97.44	38.49178	85.27694	288.03	29.93	-0.08
225	97.44	38.50245	85.29097	289.71	29.84		225	97.37	38.50286	85.29043	287.47	29.93	-0.07
226	97.42	38.51342	85.30460	289.52	29.84		226	97.35	38.51382	85.30406	287.29	29.93	-0.07
227	97.40	38.52457	85.31798	289.32	29.84		227	97.33	38.52495	85.31745	287.11	29.93	-0.07
228	97.37	38.53590	85.33111	289.13	29.84		228	97.30	38.53626	85.33058	286.93	29.93	-0.07
229	97.35	38.54741	85.34399	288.93	29.84		229	97.28	38.54775	85.34346	286.76	29.93	-0.07
230	97.32	38.55908	85.35661	288.74	29.84		230	97.26	38.55940	85.35609	286.58	29.93	-0.06
231	97.30	38.57092	85.36896	288.55	29.84		231	97.23	38.57122	85.36845	286.40	29.93	-0.07
232	97.27	38.58292	85.38106	288.35	29.84		232	97.21	38.58321	85.38055	286.22	29.93	-0.06

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Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
233	97.25	38.59508	85.39288	288.16	29.84		233	97.19	38.59535	85.39238	286.04	29.93	-0.06
234	97.23	38.60740	85.40443	287.97	29.84		234	97.17	38.60765	85.40393	285.86	29.93	-0.06
235	97.20	38.61986	85.41570	287.77	29.84		235	97.14	38.62010	85.41522	285.68	29.93	-0.06
236	97.18	38.63248	85.42670	287.58	29.84		236	97.12	38.63270	85.42622	285.50	29.93	-0.06
237	97.15	38.64524	85.43741	287.39	29.84		237	97.10	38.64545	85.43694	285.33	29.93	-0.05
238	97.13	38.65814	85.44784	287.19	29.84		238	97.07	38.65833	85.44738	285.15	29.93	-0.06
239	97.10	38.67117	85.45797	287.00	29.84		239	97.05	38.67135	85.45753	284.97	29.93	-0.05
240	97.08	38.68434	85.46782	286.81	29.84		240	97.03	38.68451	85.46738	284.79	29.93	-0.05
241	97.05	38.69763	85.47737	286.61	29.84		241	97.01	38.69779	85.47694	284.61	29.93	-0.04
242	97.03	38.71106	85.48662	286.42	29.84		242	96.98	38.71119	85.48620	284.43	29.93	-0.05
243	97.00	38.72460	85.49557	286.23	29.84		243	96.96	38.72472	85.49516	284.25	29.93	-0.04
244	96.98	38.73825	85.50421	286.03	29.84		244	96.94	38.73836	85.50382	284.07	29.93	-0.04
245	96.95	38.75202	85.51255	285.84	29.84		245	96.91	38.75212	85.51218	283.90	29.93	-0.04
246	96.93	38.76589	85.52058	285.65	29.84		246	96.89	38.76598	85.52022	283.72	29.93	-0.04
247	96.90	38.77987	85.52830	285.45	29.84		247	96.87	38.77995	85.52796	283.54	29.93	-0.03
248	96.88	38.79395	85.53571	285.26	29.84		248	96.84	38.79401	85.53538	283.36	29.93	-0.04
249	96.85	38.80812	85.54280	285.06	29.84		249	96.82	38.80818	85.54249	283.18	29.93	-0.03
250	96.83	38.82238	85.54958	284.87	29.84		250	96.80	38.82243	85.54928	283.00	29.93	-0.03
251	96.80	38.83673	85.55603	284.68	29.84		251	96.77	38.83677	85.55575	282.82	29.93	-0.03
252	96.78	38.85116	85.56216	284.48	29.84		252	96.75	38.85119	85.56190	282.64	29.93	-0.03
253	96.75	38.86567	85.56797	284.29	29.84		253	96.73	38.86568	85.56772	282.46	29.93	-0.02
254	96.73	38.88025	85.57345	284.10	29.84		254	96.70	38.88025	85.57322	282.29	29.93	-0.03
255	96.70	38.89490	85.57861	283.90	29.84		255	96.68	38.89489	85.57839	282.11	29.93	-0.02
256	96.68	38.90961	85.58343	283.71	29.84		256	96.65	38.90960	85.58324	281.93	29.93	-0.03
257	96.65	38.92438	85.58793	283.52	29.84		257	96.63	38.92436	85.58775	281.75	29.93	-0.02
258	96.63	38.93920	85.59209	283.32	29.84		258	96.61	38.93918	85.59194	281.57	29.93	-0.02
259	96.60	38.95408	85.59593	283.13	29.84		259	96.58	38.95405	85.59579	281.39	29.93	-0.02
260	96.58	38.96900	85.59942	282.94	29.84		260	96.56	38.96897	85.59931	281.21	29.93	-0.02
261	96.55	38.98397	85.60259	282.74	29.84		261	96.54	38.98392	85.60249	281.03	29.93	-0.01
262	96.52	38.99897	85.60541	282.55	29.84		262	96.51	38.99892	85.60533	280.86	29.93	-0.01
263	96.50	39.01400	85.60790	282.36	29.84		263	96.49	39.01395	85.60784	280.68	29.93	-0.01
264	96.47	39.02906	85.61005	282.16	29.84		264	96.47	39.02900	85.61002	280.50	29.93	0.00
265	96.45	39.04414	85.61186	281.97	29.84		265	96.44	39.04408	85.61185	280.32	29.93	-0.01
266	96.42	39.05924	85.61334	281.77	29.84		266	96.42	39.05918	85.61334	280.14	29.93	0.00
267	96.40	39.07435	85.61447	281.58	29.84		267	96.39	39.07429	85.61450	279.96	29.93	-0.01
268	96.37	39.08948	85.61526	281.39	29.84		268	96.37	39.08942	85.61531	279.78	29.93	0.00
269	96.35	39.10460	85.61572	281.19	29.84		269	96.35	39.10454	85.61579	279.60	29.93	0.00
270	96.32	39.11973	85.61583	281.00	29.84		270	96.32	39.11967	85.61592	279.43	29.93	0.00
271	96.30	39.13485	85.61571	280.88	29.84		271	96.31	39.13479	85.61579	279.29	29.93	0.01
272	96.29	39.14997	85.61524	280.75	29.84		272	96.29	39.14991	85.61531	279.16	29.93	0.00
273	96.27	39.16508	85.61444	280.63	29.84		273	96.27	39.16501	85.61450	279.03	29.93	0.00
274	96.25	39.18016	85.61330	280.50	29.84		274	96.25	39.18010	85.61335	278.90	29.93	0.00
275	96.24	39.19523	85.61181	280.37	29.84		275	96.24	39.19517	85.61185	278.77	29.93	0.00
276	96.22	39.21028	85.60998	280.25	29.84		276	96.22	39.21021	85.61001	278.64	29.93	0.00
277	96.20	39.22529	85.60781	280.12	29.84		277	96.20	39.22523	85.60783	278.51	29.93	0.00
278	96.19	39.24027	85.60531	280.00	29.84		278	96.18	39.24021	85.60532	278.38	29.93	-0.01
279	96.17	39.25521	85.60246	279.87	29.84		279	96.16	39.25514	85.60246	278.25	29.93	-0.01
280	96.15	39.27011	85.59928	279.75	29.84		280	96.15	39.27004	85.59927	278.11	29.93	0.00
281	96.13	39.28496	85.59576	279.62	29.84		281	96.13	39.28489	85.59574	277.98	29.93	0.00
282	96.12	39.29975	85.59191	279.50	29.84		282	96.11	39.29968	85.59188	277.85	29.93	-0.01
283	96.10	39.31449	85.58772	279.37	29.84		283	96.09	39.31442	85.58768	277.72	29.93	-0.01
284	96.08	39.32917	85.58320	279.25	29.84		284	96.07	39.32909	85.58315	277.59	29.93	-0.01
285	96.07	39.34378	85.57835	279.12	29.84		285	96.05	39.34370	85.57829	277.46	29.93	-0.02
286	96.05	39.35833	85.57317	279.00	29.84		286	96.04	39.35824	85.57310	277.33	29.93	-0.01
287	96.03	39.37279	85.56766	278.87	29.84		287	96.02	39.37270	85.56758	277.20	29.93	-0.01
288	96.01	39.38718	85.56182	278.75	29.84		288	96.00	39.38708	85.56173	277.07	29.93	-0.01
289	96.00	39.40148	85.55566	278.62	29.84		289	95.98	39.40138	85.55556	276.93	29.93	-0.02
290	95.98	39.41570	85.54917	278.50	29.84		290	95.96	39.41559	85.54906	276.80	29.93	-0.02
291	95.96	39.42982	85.54236	278.37	29.84		291	95.95	39.42971	85.54225	276.67	29.93	-0.01
292	95.94	39.44384	85.53523	278.25	29.84		292	95.93	39.44373	85.53511	276.54	29.93	-0.01

WCPO-TV (Ch. 26 at Cincinnati, OH)
Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
293	95.93	39.45777	85.52779	278.12	29.84		293	95.91	39.45765	85.52765	276.41	29.93	-0.02
294	95.91	39.47159	85.52003	278.00	29.84		294	95.89	39.47146	85.51988	276.28	29.93	-0.02
295	95.89	39.48529	85.51195	277.87	29.84		295	95.87	39.48516	85.51180	276.15	29.93	-0.02
296	95.88	39.49889	85.50357	277.75	29.84		296	95.86	39.49875	85.50341	276.02	29.93	-0.02
297	95.86	39.51237	85.49487	277.62	29.84		297	95.84	39.51222	85.49471	275.89	29.93	-0.02
298	95.84	39.52572	85.48588	277.50	29.84		298	95.82	39.52557	85.48570	275.76	29.93	-0.02
299	95.82	39.53895	85.47657	277.37	29.84		299	95.80	39.53879	85.47639	275.62	29.93	-0.02
300	95.81	39.55205	85.46697	277.25	29.84		300	95.78	39.55188	85.46678	275.49	29.93	-0.03
301	95.79	39.56501	85.45707	277.12	29.84		301	95.76	39.56483	85.45688	275.36	29.93	-0.03
302	95.77	39.57783	85.44688	276.99	29.84		302	95.75	39.57765	85.44668	275.23	29.93	-0.02
303	95.75	39.59052	85.43640	276.87	29.84		303	95.73	39.59033	85.43619	275.10	29.93	-0.02
304	95.74	39.60305	85.42563	276.74	29.84		304	95.71	39.60285	85.42541	274.97	29.93	-0.03
305	95.72	39.61544	85.41457	276.62	29.84		305	95.69	39.61523	85.41435	274.84	29.93	-0.03
306	95.70	39.62767	85.40324	276.49	29.84		306	95.67	39.62746	85.40301	274.71	29.93	-0.03
307	95.68	39.63974	85.39162	276.37	29.84		307	95.65	39.63952	85.39139	274.58	29.93	-0.03
308	95.67	39.65166	85.37974	276.24	29.84		308	95.64	39.65143	85.37950	274.44	29.93	-0.03
309	95.65	39.66341	85.36758	276.12	29.84		309	95.62	39.66316	85.36734	274.31	29.93	-0.03
310	95.63	39.67499	85.35515	275.99	29.84		310	95.60	39.67473	85.35491	274.18	29.93	-0.03
311	95.61	39.68639	85.34247	275.87	29.84		311	95.58	39.68613	85.34222	274.05	29.93	-0.03
312	95.60	39.69762	85.32952	275.74	29.84		312	95.56	39.69735	85.32927	273.92	29.93	-0.04
313	95.58	39.70868	85.31632	275.62	29.84		313	95.54	39.70840	85.31607	273.79	29.93	-0.04
314	95.56	39.71955	85.30287	275.49	29.84		314	95.52	39.71926	85.30261	273.66	29.93	-0.04
315	95.54	39.73023	85.28918	275.37	29.84		315	95.51	39.72993	85.28892	273.53	29.93	-0.03
316	95.61	39.74127	85.27593	275.84	29.84		316	95.57	39.74096	85.27567	273.99	29.93	-0.04
317	95.68	39.75213	85.26242	276.32	29.84		317	95.64	39.75181	85.26215	274.46	29.93	-0.04
318	95.74	39.76281	85.24864	276.80	29.84		318	95.70	39.76248	85.24838	274.93	29.93	-0.04
319	95.81	39.77331	85.23462	277.27	29.84		319	95.77	39.77297	85.23435	275.40	29.93	-0.04
320	95.88	39.78362	85.22034	277.75	29.84		320	95.83	39.78327	85.22007	275.86	29.93	-0.05
321	95.94	39.79375	85.20581	278.23	29.84		321	95.90	39.79339	85.20554	276.33	29.93	-0.04
322	96.01	39.80368	85.19104	278.70	29.84		322	95.96	39.80331	85.19077	276.80	29.93	-0.05
323	96.07	39.81342	85.17603	279.18	29.84		323	96.03	39.81304	85.17576	277.27	29.93	-0.04
324	96.14	39.82295	85.16078	279.66	29.84		324	96.09	39.82256	85.16052	277.73	29.93	-0.05
325	96.20	39.83228	85.14530	280.13	29.84		325	96.16	39.83188	85.14504	278.20	29.93	-0.04
326	96.27	39.84141	85.12960	280.61	29.84		326	96.22	39.84100	85.12934	278.67	29.93	-0.05
327	96.33	39.85031	85.11366	281.09	29.84		327	96.28	39.84990	85.11342	279.14	29.93	-0.05
328	96.39	39.85900	85.09751	281.56	29.84		328	96.35	39.85858	85.09727	279.60	29.93	-0.04
329	96.46	39.86748	85.08115	282.04	29.84		329	96.41	39.86705	85.08091	280.07	29.93	-0.05
330	96.52	39.87574	85.06458	282.52	29.84		330	96.47	39.87529	85.06435	280.54	29.93	-0.05
331	96.58	39.88377	85.04782	282.99	29.84		331	96.53	39.88332	85.04759	281.01	29.93	-0.05
332	96.65	39.89158	85.03085	283.47	29.84		332	96.59	39.89112	85.03063	281.47	29.93	-0.06
333	96.71	39.89917	85.01370	283.94	29.84		333	96.66	39.89869	85.01348	281.94	29.93	-0.05
334	96.77	39.90652	84.99636	284.42	29.84		334	96.72	39.90604	84.99614	282.41	29.93	-0.05
335	96.83	39.91364	84.97883	284.90	29.84		335	96.78	39.91315	84.97862	282.87	29.93	-0.05
336	96.89	39.92052	84.96114	285.37	29.84		336	96.84	39.92002	84.96093	283.34	29.93	-0.05
337	96.96	39.92717	84.94327	285.85	29.84		337	96.90	39.92666	84.94307	283.81	29.93	-0.06
338	97.02	39.93358	84.92524	286.33	29.84		338	96.96	39.93306	84.92505	284.28	29.93	-0.06
339	97.08	39.93974	84.90705	286.80	29.84		339	97.02	39.93921	84.90687	284.74	29.93	-0.06
340	97.14	39.94565	84.88870	287.28	29.84		340	97.08	39.94512	84.88853	285.21	29.93	-0.06
341	97.20	39.95132	84.87021	287.76	29.84		341	97.14	39.95078	84.87005	285.68	29.93	-0.06
342	97.26	39.95673	84.85158	288.23	29.84		342	97.20	39.95619	84.85142	286.15	29.93	-0.06
343	97.32	39.96190	84.83281	288.71	29.84		343	97.26	39.96134	84.83266	286.61	29.93	-0.06
344	97.38	39.96681	84.81391	289.19	29.84		344	97.32	39.96625	84.81378	287.08	29.93	-0.06
345	97.44	39.97146	84.79489	289.66	29.84		345	97.38	39.97089	84.79476	287.55	29.93	-0.06
346	97.50	39.97586	84.77575	290.14	29.84		346	97.44	39.97529	84.77563	288.02	29.93	-0.06
347	97.56	39.98000	84.75649	290.62	29.84		347	97.50	39.97942	84.75639	288.48	29.93	-0.06
348	97.62	39.98388	84.73713	291.09	29.84		348	97.56	39.98329	84.73704	288.95	29.93	-0.06
349	97.68	39.98749	84.71768	291.57	29.84		349	97.62	39.98690	84.71759	289.42	29.93	-0.06
350	97.74	39.99085	84.69812	292.05	29.84		350	97.67	39.99024	84.69805	289.89	29.93	-0.07
351	97.79	39.99393	84.67848	292.52	29.84		351	97.73	39.99332	84.67842	290.35	29.93	-0.06
352	97.85	39.99675	84.65876	293.00	29.84		352	97.79	39.99614	84.65872	290.82	29.93	-0.06

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Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)		Azimuth (deg)	Distance to NLC (km)	Latitude	Longitude	HAAT (m)	ERP (dBk)	Difference (km)
353	97.91	39.99930	84.63897	293.48	29.84		353	97.85	39.99869	84.63893	291.29	29.93	-0.06
354	97.97	40.00158	84.61910	293.95	29.84		354	97.91	40.00096	84.61908	291.76	29.93	-0.06
355	98.03	40.00359	84.59918	294.43	29.84		355	97.96	40.00297	84.59917	292.22	29.93	-0.07
356	98.08	40.00533	84.57919	294.90	29.84		356	98.02	40.00470	84.57920	292.69	29.93	-0.06
357	98.14	40.00680	84.55916	295.38	29.84		357	98.08	40.00617	84.55918	293.16	29.93	-0.06
358	98.20	40.00799	84.53909	295.86	29.84		358	98.13	40.00736	84.53912	293.62	29.93	-0.07
359	98.26	40.00891	84.51897	296.33	29.84		359	98.19	40.00828	84.51902	294.09	29.93	-0.07