



ENGINEERING STATEMENT

IN SUPPORT OF
MINOR MODIFICATION OF GRANTED CONSTRUCTION PERMIT
POST-INCENTIVE AUCTION ASSIGNMENT FACILITY
WSEE-TV
ERIE, PA

Background

Lilly Broadcasting of Pennsylvania License Subsidiary, LLC (Lilly) is the licensee of WSEE, located at Erie, PA which has a construction permit to build its maximized post incentive auction facility on Ch. 21 with the following parameters:

Post-Incentive Auction Facility (Ch. 21)

Coordinates: 42° 02' 16.0" N (NAD83)
80° 03' 43.0" W
ERP: 105.0 kW (Omni)
RCAMSL: 628.7m

PROVIDING COMMUNICATION SYSTEMS ENGINEERING

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As WSEE has moved forward with preparing for the construction of its new post-incentive auction facility, it selected a different antenna manufacturer (Alive) than was proposed in its latest construction permit application (Dielectric). As part of that process, the radiation center height of the antenna will also change from the previously proposed 628.7m AMSL to 633.7m AMSL. To compensate for the height increase, WSEE is proposing to reduce the ERP from 105.0 kW to 96.0 kW to ensure that the noise-limited contour of the facility, as proposed in the modification application, does not exceed the noise-limited contour of the authorized facility. As can be seen in Table 1, attached hereto, the predicted noise-limited contour of the proposed facility in the instant application will not exceed the predicted noise-limited of the facility authorized in the underlying construction permit (LMS File#0000028628).

The location of WSEE is within the Canadian border zone; however, since WSEE is not seeking to expand the noise-limited contour of the facility beyond that of the authorized facility, no coordination with Canada should be necessary.

Antenna System and Tower

The existing side-mounted directional WSEE Ch. 16 antenna [Dielectric TLP-24M(C)] is a coaxial slot antenna that is channel specific and not usable on Ch. 21. Lilly intends to replace the existing side-mounted antenna with a new, top-mounted omni-directional coaxial slot antenna for Ch. 21 [Alive ATC-BCE416O-V0-21]. The antenna will have a center of radiation of 633.7m AMSL (with a calculated HAAT of 296.0m).

The new Ch. 21 antenna will be elliptically polarized. The vertically polarized radiation will not exceed the horizontally polarized component in any azimuth.

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Coverage

The entire principal community of Erie, PA is well within the predicted F(50,90) 48 dBu contour based on the proposed non-directional 96.0 kW ERP.

Interference

Lilly is not seeking to expand the WSEE noise-limited service contour beyond the noise-limited contour of its authorized (LMS File#0000028628), maximized post-incentive auction facility in any direction; therefore, no interference analysis is required to be submitted with this application.

Environmental/RFR

This report addresses only the conditions specified in 47CFR1.1307 that deal with Radio Frequency Radiation (RFR). 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 assumed to be 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 0.001472 mW/cm², which is less than 5% of the MPE for public exposure (0.343333 mW/cm²) at Ch. 21 (512-518 MHz). The contribution to the overall RFR from the proposed facility is negligible and, therefore, the site will remain “in compliance” with FCC guidelines.

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Lilly 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.
September 24, 2018

Attached:

Table 1 - Noise-Limited Contour Comparison of Authorized Maximized Facility vs. Proposed Facility

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WSEE-TV (Ch. 21 at Erie, PA)

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

Post-Incentive Auction Maximized Facility

ERP: 105 kW
RCAMSL: 628.7 m
HAAT: 291.0 m

Proposed Facility

ERP: 96.0 kW
RCAMSL: 633.7 m
HAAT: 296.0 m

Post-Incentive Auction Maximized Facility

Proposed Facility

Azimuth (deg)	Distance to NLC (km)	HAAT (m)		Azimuth (deg)	Distance to NLC (km)	HAAT (m)	Difference (km)
0	90.1	401.4		0	89.7	406.4	-0.36
1	89.9	400.8		1	89.6	405.8	-0.35
2	89.8	399.5		2	89.4	404.5	-0.35
3	89.6	398.5		3	89.2	403.5	-0.34
4	89.4	397.0		4	89.1	402.0	-0.34
5	89.2	396.5		5	88.9	401.5	-0.34
6	89.0	395.3		6	88.7	400.3	-0.33
7	88.8	393.8		7	88.5	398.8	-0.31
8	88.6	392.8		8	88.3	397.8	-0.30
9	88.5	391.7		9	88.2	396.7	-0.30
10	88.3	390.3		10	88.0	395.3	-0.29
11	88.0	388.6		11	87.7	393.6	-0.27
12	87.8	386.7		12	87.5	391.7	-0.26
13	87.5	384.8		13	87.3	389.8	-0.24
14	87.3	382.8		14	87.0	387.8	-0.23
15	87.0	380.9		15	86.8	385.9	-0.22
16	86.7	378.6		16	86.5	383.6	-0.21
17	86.5	375.9		17	86.3	380.9	-0.19
18	86.2	372.5		18	86.0	377.5	-0.19
19	85.9	369.0		19	85.7	374.0	-0.17
20	85.6	365.7		20	85.4	370.7	-0.16
21	85.3	363.5		21	85.1	368.5	-0.15
22	85.0	361.1		22	84.8	366.1	-0.14
23	84.7	358.1		23	84.5	363.1	-0.13
24	84.3	355.4		24	84.2	360.4	-0.13
25	84.0	352.4		25	83.9	357.4	-0.11
26	83.7	349.4		26	83.6	354.4	-0.11
27	83.4	347.5		27	83.3	352.5	-0.10
28	83.0	345.9		28	82.9	350.9	-0.10
29	82.7	340.8		29	82.6	345.8	-0.09
30	82.4	337.3		30	82.3	342.3	-0.08
31	82.0	333.1		31	82.0	338.1	-0.08
32	81.7	327.7		32	81.6	332.7	-0.07
33	81.4	322.9		33	81.3	327.9	-0.07
34	81.0	318.9		34	81.0	323.9	-0.06
35	80.7	314.5		35	80.6	319.5	-0.05
36	80.3	309.9		36	80.3	314.9	-0.04
37	80.0	306.3		37	80.0	311.3	-0.04

WSEE-TV (Ch. 21 at Erie, PA)

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

Post-Incentive Auction Maximized Facility				Proposed Facility			
Azimuth (deg)	Distance to NLC (km)	HAAT (m)		Azimuth (deg)	Distance to NLC (km)	HAAT (m)	Difference (km)
38	79.7	303.0		38	79.6	308.0	-0.03
39	79.3	296.7		39	79.3	301.7	-0.03
40	79.0	291.3		40	79.0	296.3	-0.02
41	78.7	286.7		41	78.6	291.7	-0.02
42	78.3	282.6		42	78.3	287.6	-0.02
43	78.0	276.9		43	78.0	281.9	-0.02
44	77.7	273.5		44	77.7	278.5	-0.03
45	77.4	267.8		45	77.4	272.8	-0.03
46	77.3	263.7		46	77.3	268.7	-0.03
47	77.2	259.0		47	77.2	264.0	-0.03
48	77.1	255.5		48	77.0	260.5	-0.03
49	77.0	252.0		49	76.9	257.0	-0.04
50	76.9	247.6		50	76.8	252.6	-0.03
51	76.8	243.8		51	76.7	248.8	-0.05
52	76.7	240.5		52	76.6	245.5	-0.05
53	76.6	236.6		53	76.5	241.6	-0.05
54	76.5	233.2		54	76.4	238.2	-0.05
55	76.4	230.5		55	76.3	235.5	-0.05
56	76.3	226.6		56	76.2	231.6	-0.06
57	76.2	224.0		57	76.1	229.0	-0.06
58	76.1	221.4		58	76.0	226.4	-0.06
59	76.0	219.3		59	75.9	224.3	-0.07
60	75.9	219.5		60	75.8	224.5	-0.06
61	75.8	218.6		61	75.7	223.6	-0.07
62	75.7	218.3		62	75.7	223.3	-0.08
63	75.6	217.8		63	75.6	222.8	-0.08
64	75.6	216.7		64	75.5	221.7	-0.08
65	75.5	215.9		65	75.4	220.9	-0.09
66	75.4	214.7		66	75.3	219.7	-0.08
67	75.3	213.6		67	75.2	218.6	-0.09
68	75.2	212.9		68	75.1	217.9	-0.09
69	75.1	212.8		69	75.0	217.8	-0.10
70	75.1	211.9		70	75.0	216.9	-0.11
71	75.0	212.6		71	74.9	217.6	-0.11
72	74.9	214.2		72	74.8	219.2	-0.11
73	74.8	214.7		73	74.7	219.7	-0.11
74	74.7	215.5		74	74.6	220.5	-0.11
75	74.7	216.9		75	74.6	221.9	-0.11
76	74.6	218.6		76	74.5	223.6	-0.11
77	74.5	219.8		77	74.4	224.8	-0.10
78	74.4	221.3		78	74.3	226.3	-0.10
79	74.4	222.4		79	74.2	227.4	-0.11
80	74.3	223.8		80	74.2	228.8	-0.11
81	74.2	224.0		81	74.1	229.0	-0.11

WSEE-TV (Ch. 21 at Erie, PA)

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

Post-Incentive Auction Maximized Facility				Proposed Facility			
Azimuth (deg)	Distance to NLC (km)	HAAT (m)		Azimuth (deg)	Distance to NLC (km)	HAAT (m)	Difference (km)
82	74.1	224.4		82	74.0	229.4	-0.10
83	74.0	223.6		83	73.9	228.6	-0.11
84	74.0	221.9		84	73.9	226.9	-0.11
85	73.9	220.7		85	73.8	225.7	-0.10
86	73.8	220.1		86	73.7	225.1	-0.11
87	73.7	219.2		87	73.6	224.2	-0.11
88	73.7	218.6		88	73.6	223.6	-0.11
89	73.6	219.2		89	73.5	224.2	-0.11
90	73.5	219.7		90	73.4	224.7	-0.11
91	73.5	219.4		91	73.4	224.4	-0.11
92	73.5	217.6		92	73.4	222.6	-0.11
93	73.6	217.2		93	73.5	222.2	-0.10
94	73.6	216.6		94	73.5	221.6	-0.11
95	73.6	215.5		95	73.5	220.5	-0.11
96	73.6	214.9		96	73.5	219.9	-0.11
97	73.6	214.8		97	73.5	219.8	-0.11
98	73.6	213.7		98	73.5	218.7	-0.10
99	73.7	212.8		99	73.5	217.8	-0.11
100	73.7	213.0		100	73.6	218.0	-0.11
101	73.7	213.8		101	73.6	218.8	-0.11
102	73.7	215.3		102	73.6	220.3	-0.11
103	73.7	216.5		103	73.6	221.5	-0.10
104	73.7	216.7		104	73.6	221.7	-0.11
105	73.8	216.8		105	73.6	221.8	-0.11
106	73.8	216.6		106	73.7	221.6	-0.10
107	73.8	216.7		107	73.7	221.7	-0.11
108	73.8	216.5		108	73.7	221.5	-0.11
109	73.8	216.3		109	73.7	221.3	-0.11
110	73.8	216.7		110	73.7	221.7	-0.11
111	73.8	217.6		111	73.7	222.6	-0.10
112	73.9	217.3		112	73.8	222.3	-0.11
113	73.9	214.9		113	73.8	219.9	-0.11
114	73.9	214.1		114	73.8	219.1	-0.10
115	73.9	213.4		115	73.8	218.4	-0.11
116	73.9	213.3		116	73.8	218.3	-0.10
117	73.9	214.8		117	73.8	219.8	-0.11
118	74.0	216.6		118	73.9	221.6	-0.11
119	74.0	218.4		119	73.9	223.4	-0.10
120	74.0	220.4		120	73.9	225.4	-0.11
121	74.0	223.2		121	73.9	228.2	-0.11
122	74.0	226.1		122	73.9	231.1	-0.10
123	74.0	227.1		123	73.9	232.1	-0.11
124	74.1	225.5		124	74.0	230.5	-0.11
125	74.1	225.0		125	74.0	230.0	-0.11

WSEE-TV (Ch. 21 at Erie, PA)

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

Post-Incentive Auction Maximized Facility				Proposed Facility			
Azimuth (deg)	Distance to NLC (km)	HAAT (m)		Azimuth (deg)	Distance to NLC (km)	HAAT (m)	Difference (km)
126	74.1	225.8		126	74.0	230.8	-0.11
127	74.1	229.3		127	74.0	234.3	-0.10
128	74.1	230.3		128	74.0	235.3	-0.11
129	74.1	228.4		129	74.0	233.4	-0.11
130	74.2	226.1		130	74.1	231.1	-0.10
131	74.2	226.2		131	74.1	231.2	-0.11
132	74.2	226.0		132	74.1	231.0	-0.11
133	74.2	226.9		133	74.1	231.9	-0.10
134	74.2	228.2		134	74.1	233.2	-0.11
135	74.2	229.9		135	74.1	234.9	-0.11
136	74.2	230.2		136	74.1	235.2	-0.11
137	74.2	231.3		137	74.0	236.3	-0.11
138	74.1	234.0		138	74.0	239.0	-0.10
139	74.1	234.8		139	74.0	239.8	-0.11
140	74.0	235.3		140	73.9	240.3	-0.11
141	74.0	236.3		141	73.9	241.3	-0.10
142	73.9	239.4		142	73.8	244.4	-0.11
143	73.9	237.4		143	73.8	242.4	-0.11
144	73.8	233.5		144	73.7	238.5	-0.10
145	73.8	230.7		145	73.7	235.7	-0.11
146	73.8	228.8		146	73.7	233.8	-0.11
147	73.7	227.9		147	73.6	232.9	-0.11
148	73.7	227.0		148	73.6	232.0	-0.11
149	73.6	224.0		149	73.5	229.0	-0.11
150	73.6	222.1		150	73.5	227.1	-0.11
151	73.5	223.3		151	73.4	228.3	-0.10
152	73.5	223.7		152	73.4	228.7	-0.11
153	73.5	224.2		153	73.4	229.2	-0.11
154	73.4	227.3		154	73.3	232.3	-0.11
155	73.4	231.5		155	73.3	236.5	-0.10
156	73.3	230.5		156	73.2	235.5	-0.11
157	73.3	226.1		157	73.2	231.1	-0.11
158	73.3	221.3	158	73.1	226.3	-0.11	
159	73.2	219.3	159	73.1	224.3	-0.10	
160	73.2	221.4	160	73.1	226.4	-0.11	
161	73.1	223.1	161	73.0	228.1	-0.11	
162	73.1	223.7	162	73.0	228.7	-0.11	
163	73.0	222.8	163	72.9	227.8	-0.10	
164	73.0	220.1	164	72.9	225.1	-0.11	
165	73.0	216.6	165	72.8	221.6	-0.11	
166	72.9	214.3	166	72.8	219.3	-0.11	
167	72.9	211.0	167	72.8	216.0	-0.10	
168	72.8	204.4	168	72.7	209.4	-0.10	
169	72.8	202.9	169	72.7	207.9	-0.11	

WSEE-TV (Ch. 21 at Erie, PA)

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

Post-Incentive Auction Maximized Facility				Proposed Facility			
Azimuth (deg)	Distance to NLC (km)	HAAT (m)		Azimuth (deg)	Distance to NLC (km)	HAAT (m)	Difference (km)
170	72.7	202.1		170	72.6	207.1	-0.11
171	72.7	201.7		171	72.6	206.7	-0.11
172	72.7	201.0		172	72.6	206.0	-0.10
173	72.6	199.8		173	72.5	204.8	-0.10
174	72.6	202.9		174	72.5	207.9	-0.11
175	72.5	205.4		175	72.4	210.4	-0.11
176	72.5	204.4		176	72.4	209.4	-0.11
177	72.4	202.4		177	72.3	207.4	-0.10
178	72.4	202.6		178	72.3	207.6	-0.10
179	72.4	203.9		179	72.3	208.9	-0.11
180	72.3	202.6		180	72.2	207.6	-0.11
181	72.4	201.3		181	72.3	206.3	-0.11
182	72.5	203.9		182	72.4	208.9	-0.11
183	72.6	206.4		183	72.5	211.4	-0.11
184	72.6	208.0		184	72.5	213.0	-0.11
185	72.7	206.9		185	72.6	211.9	-0.11
186	72.8	204.1		186	72.7	209.1	-0.11
187	72.9	201.7		187	72.8	206.7	-0.11
188	73.0	200.5		188	72.9	205.5	-0.11
189	73.0	200.5		189	72.9	205.5	-0.11
190	73.1	200.2		190	73.0	205.2	-0.11
191	73.2	200.7		191	73.1	205.7	-0.11
192	73.3	201.6		192	73.2	206.6	-0.11
193	73.4	202.1		193	73.3	207.1	-0.11
194	73.4	203.1		194	73.3	208.1	-0.11
195	73.5	204.4		195	73.4	209.4	-0.10
196	73.6	205.0		196	73.5	210.0	-0.10
197	73.7	207.2		197	73.6	212.2	-0.11
198	73.8	209.1		198	73.7	214.1	-0.11
199	73.9	212.0		199	73.7	217.0	-0.11
200	73.9	215.7		200	73.8	220.7	-0.11
201	74.0	217.9		201	73.9	222.9	-0.10
202	74.1	220.6		202	74.0	225.6	-0.11
203	74.2	223.8		203	74.1	228.8	-0.11
204	74.3	226.4		204	74.2	231.4	-0.10
205	74.4	227.2		205	74.2	232.2	-0.11
206	74.4	228.9		206	74.3	233.9	-0.11
207	74.5	228.1		207	74.4	233.1	-0.11
208	74.6	228.1		208	74.5	233.1	-0.11
209	74.7	228.2		209	74.6	233.2	-0.10
210	74.8	227.8		210	74.7	232.8	-0.11
211	74.9	228.6		211	74.8	233.6	-0.11
212	74.9	229.0		212	74.8	234.0	-0.10
213	75.0	230.9		213	74.9	235.9	-0.10

WSEE-TV (Ch. 21 at Erie, PA)

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

Post-Incentive Auction Maximized Facility				Proposed Facility			
Azimuth (deg)	Distance to NLC (km)	HAAT (m)		Azimuth (deg)	Distance to NLC (km)	HAAT (m)	Difference (km)
214	75.1	233.3		214	75.0	238.3	-0.09
215	75.2	234.0		215	75.1	239.0	-0.09
216	75.3	235.1		216	75.2	240.1	-0.09
217	75.4	237.3		217	75.3	242.3	-0.09
218	75.5	240.8		218	75.4	245.8	-0.08
219	75.6	243.8		219	75.5	248.8	-0.08
220	75.7	245.5		220	75.6	250.5	-0.07
221	75.8	247.3		221	75.7	252.3	-0.07
222	75.9	248.6		222	75.8	253.6	-0.07
223	76.0	250.7		223	75.9	255.7	-0.07
224	76.0	251.8		224	76.0	256.8	-0.06
225	76.1	254.5		225	76.1	259.5	-0.06
226	76.3	256.8		226	76.3	261.8	-0.05
227	76.5	258.6		227	76.5	263.6	-0.05
228	76.7	260.4		228	76.7	265.4	-0.04
229	76.9	263.4		229	76.9	268.4	-0.04
230	77.1	266.6		230	77.1	271.6	-0.04
231	77.3	270.1		231	77.3	275.1	-0.03
232	77.5	273.5		232	77.5	278.5	-0.03
233	77.8	276.9		233	77.7	281.9	-0.02
234	78.0	280.1		234	77.9	285.1	-0.02
235	78.2	282.8		235	78.2	287.8	-0.02
236	78.4	286.7		236	78.4	291.7	-0.02
237	78.6	291.0		237	78.6	296.0	-0.02
238	78.9	295.2		238	78.9	300.2	-0.02
239	79.1	300.7		239	79.1	305.7	-0.02
240	79.3	304.3		240	79.3	309.3	-0.02
241	79.6	308.3		241	79.6	313.3	-0.03
242	79.8	312.5		242	79.8	317.5	-0.03
243	80.1	313.4		243	80.0	318.4	-0.04
244	80.3	315.7		244	80.3	320.7	-0.04
245	80.5	316.9		245	80.5	321.9	-0.05
246	80.8	319.8		246	80.7	324.8	-0.06
247	81.0	324.0		247	81.0	329.0	-0.05
248	81.3	323.9		248	81.2	328.9	-0.06
249	81.5	322.8		249	81.4	327.8	-0.07
250	81.7	322.1		250	81.7	327.1	-0.08
251	82.0	318.9		251	81.9	323.9	-0.08
252	82.2	318.7		252	82.1	323.7	-0.09
253	82.4	318.3		253	82.4	323.3	-0.08
254	82.7	318.4		254	82.6	323.4	-0.09
255	82.9	318.2		255	82.8	323.2	-0.09
256	83.1	318.5		256	83.0	323.5	-0.10
257	83.4	319.8		257	83.3	324.8	-0.10

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Post-Incentive Auction Maximized Facility				Proposed Facility			
Azimuth (deg)	Distance to NLC (km)	HAAT (m)		Azimuth (deg)	Distance to NLC (km)	HAAT (m)	Difference (km)
258	83.6	319.9		258	83.5	324.9	-0.11
259	83.8	320.6		259	83.7	325.6	-0.11
260	84.1	322.0		260	84.0	327.0	-0.11
261	84.3	323.7		261	84.2	328.7	-0.13
262	84.5	325.9		262	84.4	330.9	-0.13
263	84.7	328.1		263	84.6	333.1	-0.13
264	85.0	330.8		264	84.8	335.8	-0.14
265	85.2	335.2		265	85.0	340.2	-0.15
266	85.4	339.0		266	85.2	344.0	-0.15
267	85.6	340.3		267	85.4	345.3	-0.16
268	85.8	344.0		268	85.6	349.0	-0.17
269	86.0	346.5		269	85.8	351.5	-0.18
270	86.2	348.4		270	86.1	353.4	-0.18
271	86.4	350.7		271	86.2	355.7	-0.19
272	86.5	352.7		272	86.3	357.7	-0.20
273	86.6	355.3		273	86.4	360.3	-0.20
274	86.7	357.8		274	86.5	362.8	-0.21
275	86.8	362.5		275	86.6	367.5	-0.21
276	87.0	365.5		276	86.7	370.5	-0.22
277	87.1	367.5		277	86.9	372.5	-0.22
278	87.2	368.4		278	87.0	373.4	-0.22
279	87.3	369.4		279	87.1	374.4	-0.23
280	87.4	370.7		280	87.2	375.7	-0.23
281	87.5	371.0		281	87.3	376.0	-0.24
282	87.6	372.4		282	87.4	377.4	-0.25
283	87.7	373.2		283	87.5	378.2	-0.25
284	87.8	374.6		284	87.6	379.6	-0.26
285	87.9	377.3		285	87.7	382.3	-0.26
286	88.0	378.9		286	87.8	383.9	-0.27
287	88.1	380.7		287	87.9	385.7	-0.28
288	88.2	381.3		288	88.0	386.3	-0.29
289	88.3	382.2		289	88.0	387.2	-0.29
290	88.4	383.6		290	88.1	388.6	-0.30
291	88.5	385.3		291	88.2	390.3	-0.30
292	88.6	386.5		292	88.3	391.5	-0.31
293	88.7	387.8		293	88.4	392.8	-0.32
294	88.8	388.4		294	88.5	393.4	-0.32
295	88.9	389.1		295	88.6	394.1	-0.32
296	89.0	390.2		296	88.6	395.2	-0.32
297	89.0	391.2		297	88.7	396.2	-0.33
298	89.1	392.5		298	88.8	397.5	-0.33
299	89.2	393.5		299	88.9	398.5	-0.33
300	89.3	394.1		300	88.9	399.1	-0.33
301	89.4	394.9		301	89.0	399.9	-0.34

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Authorized Post-Incentive Auction Maximized Facility vs. Proposed Facility**

Post-Incentive Auction Maximized Facility				Proposed Facility			
Azimuth (deg)	Distance to NLC (km)	HAAT (m)		Azimuth (deg)	Distance to NLC (km)	HAAT (m)	Difference (km)
302	89.4	396.1		302	89.1	401.1	-0.35
303	89.5	397.1		303	89.2	402.1	-0.34
304	89.6	398.0		304	89.2	403.0	-0.35
305	89.7	399.3		305	89.3	404.3	-0.35
306	89.7	400.1		306	89.4	405.1	-0.35
307	89.8	400.6		307	89.5	405.6	-0.35
308	89.9	400.9		308	89.5	405.9	-0.35
309	90.0	401.6		309	89.6	406.6	-0.36
310	90.0	402.9		310	89.7	407.9	-0.36
311	90.1	403.7		311	89.7	408.7	-0.36
312	90.2	404.4		312	89.8	409.4	-0.36
313	90.2	404.8		313	89.9	409.8	-0.36
314	90.3	405.5		314	89.9	410.5	-0.37
315	90.4	406.5		315	90.0	411.5	-0.37
316	90.4	407.5		316	90.0	412.5	-0.36
317	90.4	407.9		317	90.0	412.9	-0.36
318	90.4	408.4		318	90.0	413.4	-0.37
319	90.4	409.0		319	90.0	414.0	-0.36
320	90.4	409.9		320	90.0	414.9	-0.37
321	90.3	410.7		321	90.0	415.7	-0.36
322	90.3	410.7		322	90.0	415.7	-0.36
323	90.3	410.5		323	90.0	415.5	-0.37
324	90.3	410.2		324	90.0	415.2	-0.36
325	90.3	410.4		325	90.0	415.4	-0.37
326	90.3	410.7		326	90.0	415.7	-0.36
327	90.3	410.7		327	89.9	415.7	-0.36
328	90.3	410.8		328	89.9	415.8	-0.37
329	90.3	410.7		329	89.9	415.7	-0.36
330	90.3	411.3		330	89.9	416.3	-0.36
331	90.3	411.7		331	89.9	416.7	-0.36
332	90.3	412.0		332	89.9	417.0	-0.36
333	90.3	411.7		333	89.9	416.7	-0.37
334	90.3	411.5		334	89.9	416.5	-0.36
335	90.3	411.8		335	89.9	416.8	-0.36
336	90.3	412.0		336	89.9	417.0	-0.37
337	90.2	412.1		337	89.9	417.1	-0.36
338	90.2	412.1		338	89.9	417.1	-0.36
339	90.2	412.1		339	89.9	417.1	-0.36
340	90.2	412.0		340	89.9	417.0	-0.36
341	90.2	411.9		341	89.9	416.9	-0.37
342	90.2	411.5		342	89.9	416.5	-0.36
343	90.2	411.1		343	89.8	416.1	-0.36
344	90.2	410.9		344	89.8	415.9	-0.36
345	90.2	410.7		345	89.8	415.7	-0.36

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Post-Incentive Auction Maximized Facility				Proposed Facility			
Azimuth (deg)	Distance to NLC (km)	HAAT (m)		Azimuth (deg)	Distance to NLC (km)	HAAT (m)	Difference (km)
346	90.2	410.3		346	89.8	415.3	-0.36
347	90.2	410.2		347	89.8	415.2	-0.36
348	90.2	410.0		348	89.8	415.0	-0.36
349	90.2	409.6		349	89.8	414.6	-0.37
350	90.2	409.6		350	89.8	414.6	-0.36
351	90.2	409.8		351	89.8	414.8	-0.36
352	90.2	409.1		352	89.8	414.1	-0.36
353	90.1	409.3		353	89.8	414.3	-0.36
354	90.1	408.1		354	89.8	413.1	-0.36
355	90.1	407.0		355	89.8	412.0	-0.36
356	90.1	406.3		356	89.8	411.3	-0.36
357	90.1	404.2		357	89.8	409.2	-0.35
358	90.1	403.0		358	89.8	408.0	-0.36
359	90.1	402.4		359	89.7	407.4	-0.36