

Ballyfeeny Green Energy Project



Environmental Impact Assessment Report Volume III

Appendix 10.5 – Predicted Noise Levels

September 2025

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Predicted Noise Levels – Turbine Technology Option 1:

NSL	3	4	5	6	7	8	9	10		NSL	3	4	5	6	7	8	9	10
1	21.9	22.9	29.9	32.9	33.9	33.9	33.9	33.9		111	15	16	23	26	27	27	27	27
2	20.8	21.8	28.8	31.8	32.8	32.8	32.8	32.8		112	15.2	16.2	23.2	26.2	27.2	27.2	27.2	27.2
3	21.2	22.2	29.2	32.2	33.2	33.2	33.2	33.2		113	15.5	16.5	23.5	26.5	27.5	27.5	27.5	27.5
4	23	24	31	34	35	35	35	35		114	15.4	16.4	23.4	26.4	27.4	27.4	27.4	27.4
5	25.5	26.5	33.5	36.5	37.5	37.5	37.5	37.5		115	16	17	24	27	28	28	28	28
6	25.9	26.9	33.9	36.9	37.9	37.9	37.9	37.9		116	16.4	17.4	24.4	27.4	28.4	28.4	28.4	28.4
7	26.4	27.4	34.4	37.4	38.4	38.4	38.4	38.4		117	16.1	17.1	24.1	27.1	28.1	28.1	28.1	28.1
8	22.1	23.1	30.1	33.1	34.1	34.1	34.1	34.1		118	16.2	17.2	24.2	27.2	28.2	28.2	28.2	28.2
9	22	23	30	33	34	34	34	34		119	16.7	17.7	24.7	27.7	28.7	28.7	28.7	28.7
10	23.5	24.5	31.5	34.5	35.5	35.5	35.5	35.5		120	16.8	17.8	24.8	27.8	28.8	28.8	28.8	28.8
11	22.5	23.5	30.5	33.5	34.5	34.5	34.5	34.5		121	17	18	25	28	29	29	29	29
12	24.2	25.2	32.2	35.2	36.2	36.2	36.2	36.2		122	16.6	17.6	24.6	27.6	28.6	28.6	28.6	28.6
13	23.7	24.7	31.7	34.7	35.7	35.7	35.7	35.7		123	16.6	17.6	24.6	27.6	28.6	28.6	28.6	28.6
14	23.7	24.7	31.7	34.7	35.7	35.7	35.7	35.7		124	16.4	17.4	24.4	27.4	28.4	28.4	28.4	28.4
15	21.5	22.5	29.5	32.5	33.5	33.5	33.5	33.5		125	16.3	17.3	24.3	27.3	28.3	28.3	28.3	28.3
16	22	23	30	33	34	34	34	34		126	17.5	18.5	25.5	28.5	29.5	29.5	29.5	29.5
17	25.4	26.4	33.4	36.4	37.4	37.4	37.4	37.4		127	17.8	18.8	25.8	28.8	29.8	29.8	29.8	29.8
18	27.6	28.6	35.6	38.6	39.6	39.6	39.6	39.6		128	15.7	16.7	23.7	26.7	27.7	27.7	27.7	27.7
19	23.9	24.9	31.9	34.9	35.9	35.9	35.9	35.9		129	15.5	16.5	23.5	26.5	27.5	27.5	27.5	27.5
20	22.6	23.6	30.6	33.6	34.6	34.6	34.6	34.6		130	15.6	16.6	23.6	26.6	27.6	27.6	27.6	27.6
21	19.9	20.9	27.9	30.9	31.9	31.9	31.9	31.9		131	15.2	16.2	23.2	26.2	27.2	27.2	27.2	27.2
22	19.7	20.7	27.7	30.7	31.7	31.7	31.7	31.7		132	14.5	15.5	22.5	25.5	26.5	26.5	26.5	26.5
23	19.2	20.2	27.2	30.2	31.2	31.2	31.2	31.2		133	15	16	23	26	27	27	27	27
24	18.3	19.3	26.3	29.3	30.3	30.3	30.3	30.3		134	13.9	14.9	21.9	24.9	25.9	25.9	25.9	25.9
25	20.8	21.8	28.8	31.8	32.8	32.8	32.8	32.8		135	13.7	14.7	21.7	24.7	25.7	25.7	25.7	25.7
26	22.9	23.9	30.9	33.9	34.9	34.9	34.9	34.9		136	13.7	14.7	21.7	24.7	25.7	25.7	25.7	25.7
27	23.3	24.3	31.3	34.3	35.3	35.3	35.3	35.3		137	14	15	22	25	26	26	26	26
28	23.4	24.4	31.4	34.4	35.4	35.4	35.4	35.4		138	14.1	15.1	22.1	25.1	26.1	26.1	26.1	26.1
29	23.5	24.5	31.5	34.5	35.5	35.5	35.5	35.5		139	14.7	15.7	22.7	25.7	26.7	26.7	26.7	26.7
30	23	24	31	34	35	35	35	35		140	14.8	15.8	22.8	25.8	26.8	26.8	26.8	26.8
31	22.9	23.9	30.9	33.9	34.9	34.9	34.9	34.9		141	14.9	15.9	22.9	25.9	26.9	26.9	26.9	26.9
32	23.6	24.6	31.6	34.6	35.6	35.6	35.6	35.6		142	15	16	23	26	27	27	27	27
33	23.1	24.1	31.1	34.1	35.1	35.1	35.1	35.1		143	15.2	16.2	23.2	26.2	27.2	27.2	27.2	27.2
34	23.7	24.7	31.7	34.7	35.7	35.7	35.7	35.7		144	15.3	16.3	23.3	26.3	27.3	27.3	27.3	27.3
35	27	28	35	38	39	39	39	39		145	15.4	16.4	23.4	26.4	27.4	27.4	27.4	27.4
36	22.9	23.9	30.9	33.9	34.9	34.9	34.9	34.9		146	15.2	16.2	23.2	26.2	27.2	27.2	27.2	27.2
37	23.6	24.6	31.6	34.6	35.6	35.6	35.6	35.6		147	15	16	23	26	27	27	27	27
38	23.5	24.5	31.5	34.5	35.5	35.5	35.5	35.5		148	14.9	15.9	22.9	25.9	26.9	26.9	26.9	26.9
39	22.5	23.5	30.5	33.5	34.5	34.5	34.5	34.5		149	14.8	15.8	22.8	25.8	26.8	26.8	26.8	26.8
40	23.2	24.2	31.2	34.2	35.2	35.2	35.2	35.2		150	14.6	15.6	22.6	25.6	26.6	26.6	26.6	26.6
41	22.2	23.2	30.2	33.2	34.2	34.2	34.2	34.2		151	14.1	15.1	22.1	25.1	26.1	26.1	26.1	26.1
42	23.3	24.3	31.3	34.3	35.3	35.3	35.3	35.3		152	13.9	14.9	21.9	24.9	25.9	25.9	25.9	25.9

43	23.8	24.8	31.8	34.8	35.8	35.8	35.8	35.8		153	13.8	14.8	21.8	24.8	25.8	25.8	25.8	25.8
44	23.8	24.8	31.8	34.8	35.8	35.8	35.8	35.8		154	13.5	14.5	21.5	24.5	25.5	25.5	25.5	25.5
45	23.6	24.6	31.6	34.6	35.6	35.6	35.6	35.6		155	13.3	14.3	21.3	24.3	25.3	25.3	25.3	25.3
46	23.2	24.2	31.2	34.2	35.2	35.2	35.2	35.2		156	12.7	13.7	20.7	23.7	24.7	24.7	24.7	24.7
47	21.5	22.5	29.5	32.5	33.5	33.5	33.5	33.5		157	12.9	13.9	20.9	23.9	24.9	24.9	24.9	24.9
48	23.4	24.4	31.4	34.4	35.4	35.4	35.4	35.4		158	12.8	13.8	20.8	23.8	24.8	24.8	24.8	24.8
49	23.6	24.6	31.6	34.6	35.6	35.6	35.6	35.6		159	12.6	13.6	20.6	23.6	24.6	24.6	24.6	24.6
50	23.9	24.9	31.9	34.9	35.9	35.9	35.9	35.9		160	12.5	13.5	20.5	23.5	24.5	24.5	24.5	24.5
51	23.6	24.6	31.6	34.6	35.6	35.6	35.6	35.6		161	12	13	20	23	24	24	24	24
52	23.1	24.1	31.1	34.1	35.1	35.1	35.1	35.1		162	12.5	13.5	20.5	23.5	24.5	24.5	24.5	24.5
53	22.7	23.7	30.7	33.7	34.7	34.7	34.7	34.7		163	12.3	13.3	20.3	23.3	24.3	24.3	24.3	24.3
54	21.6	22.6	29.6	32.6	33.6	33.6	33.6	33.6		164	12.1	13.1	20.1	23.1	24.1	24.1	24.1	24.1
55	20.7	21.7	28.7	31.7	32.7	32.7	32.7	32.7		165	12	13	20	23	24	24	24	24
56	20.3	21.3	28.3	31.3	32.3	32.3	32.3	32.3		166	13.2	14.2	21.2	24.2	25.2	25.2	25.2	25.2
57	20.3	21.3	28.3	31.3	32.3	32.3	32.3	32.3		167	13.4	14.4	21.4	24.4	25.4	25.4	25.4	25.4
58	21.4	22.4	29.4	32.4	33.4	33.4	33.4	33.4		168	13	14	21	24	25	25	25	25
59	21.9	22.9	29.9	32.9	33.9	33.9	33.9	33.9		169	13	14	21	24	25	25	25	25
60	22.7	23.7	30.7	33.7	34.7	34.7	34.7	34.7		170	12.9	13.9	20.9	23.9	24.9	24.9	24.9	24.9
61	20.1	21.1	28.1	31.1	32.1	32.1	32.1	32.1		171	12.9	13.9	20.9	23.9	24.9	24.9	24.9	24.9
62	20	21	28	31	32	32	32	32		172	12.8	13.8	20.8	23.8	24.8	24.8	24.8	24.8
63	18.8	19.8	26.8	29.8	30.8	30.8	30.8	30.8		173	13	14	21	24	25	25	25	25
64	17.3	18.3	25.3	28.3	29.3	29.3	29.3	29.3		174	12.9	13.9	20.9	23.9	24.9	24.9	24.9	24.9
65	16.6	17.6	24.6	27.6	28.6	28.6	28.6	28.6		175	12.9	13.9	20.9	23.9	24.9	24.9	24.9	24.9
66	16.2	17.2	24.2	27.2	28.2	28.2	28.2	28.2		176	12.8	13.8	20.8	23.8	24.8	24.8	24.8	24.8
67	19.8	20.8	27.8	30.8	31.8	31.8	31.8	31.8		177	12.7	13.7	20.7	23.7	24.7	24.7	24.7	24.7
68	19.7	20.7	27.7	30.7	31.7	31.7	31.7	31.7		178	12.7	13.7	20.7	23.7	24.7	24.7	24.7	24.7
69	16.1	17.1	24.1	27.1	28.1	28.1	28.1	28.1		179	12.9	13.9	20.9	23.9	24.9	24.9	24.9	24.9
70	13.7	14.7	21.7	24.7	25.7	25.7	25.7	25.7		180	12.8	13.8	20.8	23.8	24.8	24.8	24.8	24.8
71	19.8	20.8	27.8	30.8	31.8	31.8	31.8	31.8		181	12.7	13.7	20.7	23.7	24.7	24.7	24.7	24.7
72	18.7	19.7	26.7	29.7	30.7	30.7	30.7	30.7		182	12.6	13.6	20.6	23.6	24.6	24.6	24.6	24.6
73	16.8	17.8	24.8	27.8	28.8	28.8	28.8	28.8		183	12.5	13.5	20.5	23.5	24.5	24.5	24.5	24.5
74	16.4	17.4	24.4	27.4	28.4	28.4	28.4	28.4		184	12.4	13.4	20.4	23.4	24.4	24.4	24.4	24.4
75	15.9	16.9	23.9	26.9	27.9	27.9	27.9	27.9		185	12.9	13.9	20.9	23.9	24.9	24.9	24.9	24.9
76	15.6	16.6	23.6	26.6	27.6	27.6	27.6	27.6		186	12.8	13.8	20.8	23.8	24.8	24.8	24.8	24.8
77	15.1	16.1	23.1	26.1	27.1	27.1	27.1	27.1		187	12.7	13.7	20.7	23.7	24.7	24.7	24.7	24.7
78	14.8	15.8	22.8	25.8	26.8	26.8	26.8	26.8		188	12.7	13.7	20.7	23.7	24.7	24.7	24.7	24.7
79	17.5	18.5	25.5	28.5	29.5	29.5	29.5	29.5		189	12.6	13.6	20.6	23.6	24.6	24.6	24.6	24.6
80	19	20	27	30	31	31	31	31		190	12.6	13.6	20.6	23.6	24.6	24.6	24.6	24.6
81	19.6	20.6	27.6	30.6	31.6	31.6	31.6	31.6		191	12.5	13.5	20.5	23.5	24.5	24.5	24.5	24.5
82	19.7	20.7	27.7	30.7	31.7	31.7	31.7	31.7		192	12.5	13.5	20.5	23.5	24.5	24.5	24.5	24.5
83	18.1	19.1	26.1	29.1	30.1	30.1	30.1	30.1		193	12.4	13.4	20.4	23.4	24.4	24.4	24.4	24.4
84	17.6	18.6	25.6	28.6	29.6	29.6	29.6	29.6		194	12.3	13.3	20.3	23.3	24.3	24.3	24.3	24.3
85	16.6	17.6	24.6	27.6	28.6	28.6	28.6	28.6		195	12.3	13.3	20.3	23.3	24.3	24.3	24.3	24.3
86	14.1	15.1	22.1	25.1	26.1	26.1	26.1	26.1		196	14.4	15.4	22.4	25.4	26.4	26.4	26.4	26.4
87	14.2	15.2	22.2	25.2	26.2	26.2	26.2	26.2		197	15.2	16.2	23.2	26.2	27.2	27.2	27.2	27.2

88	14	15	22	25	26	26	26	26		198	16	17	24	27	28	28	28	28
89	13.9	14.9	21.9	24.9	25.9	25.9	25.9	25.9		199	16	17	24	27	28	28	28	28
90	14	15	22	25	26	26	26	26		200	17	18	25	28	29	29	29	29
91	14	15	22	25	26	26	26	26		201	19.5	20.5	27.5	30.5	31.5	31.5	31.5	31.5
92	14.8	15.8	22.8	25.8	26.8	26.8	26.8	26.8		202	19.3	20.3	27.3	30.3	31.3	31.3	31.3	31.3
93	13.9	14.9	21.9	24.9	25.9	25.9	25.9	25.9		203	18	19	26	29	30	30	30	30
94	14.4	15.4	22.4	25.4	26.4	26.4	26.4	26.4		204	17.5	18.5	25.5	28.5	29.5	29.5	29.5	29.5
95	14	15	22	25	26	26	26	26		205	17.3	18.3	25.3	28.3	29.3	29.3	29.3	29.3
96	14.2	15.2	22.2	25.2	26.2	26.2	26.2	26.2		206	21.3	22.3	29.3	32.3	33.3	33.3	33.3	33.3
97	14.2	15.2	22.2	25.2	26.2	26.2	26.2	26.2		207	21.4	22.4	29.4	32.4	33.4	33.4	33.4	33.4
98	13.6	14.6	21.6	24.6	25.6	25.6	25.6	25.6		208	19.6	20.6	27.6	30.6	31.6	31.6	31.6	31.6
99	13.5	14.5	21.5	24.5	25.5	25.5	25.5	25.5		209	18.3	19.3	26.3	29.3	30.3	30.3	30.3	30.3
100	13.7	14.7	21.7	24.7	25.7	25.7	25.7	25.7		210	16.8	17.8	24.8	27.8	28.8	28.8	28.8	28.8
101	15.2	16.2	23.2	26.2	27.2	27.2	27.2	27.2		211	15	16	23	26	27	27	27	27
102	15.7	16.7	23.7	26.7	27.7	27.7	27.7	27.7		212	15.8	16.8	23.8	26.8	27.8	27.8	27.8	27.8
103	16.5	17.5	24.5	27.5	28.5	28.5	28.5	28.5		213	15	16	23	26	27	27	27	27
104	17	18	25	28	29	29	29	29		214	14.5	15.5	22.5	25.5	26.5	26.5	26.5	26.5
105	17.1	18.1	25.1	28.1	29.1	29.1	29.1	29.1		215	14.4	15.4	22.4	25.4	26.4	26.4	26.4	26.4
106	17.4	18.4	25.4	28.4	29.4	29.4	29.4	29.4		216	13.9	14.9	21.9	24.9	25.9	25.9	25.9	25.9
107	18.2	19.2	26.2	29.2	30.2	30.2	30.2	30.2		217	14	15	22	25	26	26	26	26
108	19.2	20.2	27.2	30.2	31.2	31.2	31.2	31.2		218	13.8	14.8	21.8	24.8	25.8	25.8	25.8	25.8
109	20.9	21.9	28.9	31.9	32.9	32.9	32.9	32.9		219	14	15	22	25	26	26	26	26
110	14.9	15.9	22.9	25.9	26.9	26.9	26.9	26.9										

Predicted Noise Levels – Turbine Technology Option 2:

NSL	3	4	5	6	7	8	9	10		NSL	3	4	5	6	7	8	9	10
1	22.9	23.6	29.6	32.6	34.2	34.4	34.4	34.4		111	16.4	17.1	22.7	26.1	27.7	28.1	28.1	28.1
2	21.7	22.5	28.5	31.5	33.1	33.2	33.2	33.2		112	16.6	17.3	22.9	26.3	27.9	28.3	28.3	28.3
3	22.1	22.8	28.8	31.8	33.4	33.6	33.6	33.6		113	16.9	17.6	23.2	26.5	28.1	28.5	28.5	28.5
4	24	24.7	30.7	33.7	35.3	35.5	35.5	35.5		114	17	17.6	23.2	26.6	28.2	28.6	28.7	28.7
5	26.5	27.3	33.2	36.3	37.8	38	38	38		115	17.5	18.2	23.8	27.1	28.7	29.2	29.2	29.2
6	27	27.7	33.7	36.7	38.3	38.5	38.5	38.5		116	18	18.7	24.2	27.6	29.3	29.7	29.8	29.8
7	27.4	28.1	34.1	37.1	38.7	38.9	38.9	38.9		117	17.9	18.5	24	27.5	29.1	29.6	29.6	29.6
8	23	23.7	29.7	32.7	34.3	34.5	34.5	34.5		118	18	18.6	24.1	27.6	29.3	29.8	29.8	29.8
9	23	23.7	29.7	32.7	34.3	34.5	34.5	34.5		119	18.7	19.3	24.6	28.2	29.9	30.4	30.4	30.4
10	24.5	25.2	31.2	34.2	35.8	36	36	36		120	18.9	19.5	24.8	28.4	30.1	30.7	30.7	30.7
11	23.5	24.3	30.2	33.3	34.8	35	35	35		121	19.2	19.8	25.1	28.7	30.4	31	31	31
12	25.2	26	32	35	36.6	36.7	36.7	36.7		122	19	19.6	24.7	28.5	30.2	30.9	30.9	30.9
13	24.7	25.4	31.4	34.4	36	36.2	36.2	36.2		123	19	19.5	24.7	28.5	30.2	30.9	30.9	30.9
14	24.7	25.5	31.4	34.5	36	36.2	36.2	36.2		124	19.1	19.6	24.6	28.5	30.2	30.9	31	31
15	22.5	23.3	29.2	32.3	33.8	34.1	34.1	34.1		125	19	19.6	24.5	28.5	30.2	30.9	31	31
16	23	23.7	29.6	32.7	34.3	34.5	34.5	34.5		126	19.7	20.3	25.6	29.2	30.9	31.5	31.5	31.5
17	26.5	27.2	33.2	36.2	37.8	38	38	38		127	19.9	20.5	25.8	29.4	31.1	31.7	31.7	31.7
18	28.7	29.5	35.4	38.5	40	40.2	40.2	40.2		128	18.9	19.4	24.1	28.2	30	30.9	30.9	30.9
19	25.1	25.8	31.7	34.8	36.4	36.7	36.7	36.7		129	18.8	19.3	24	28.2	29.9	30.8	30.9	30.9
20	23.9	24.6	30.4	33.6	35.2	35.5	35.5	35.5		130	18.9	19.4	24.1	28.2	30	30.9	30.9	30.9
21	21.4	22.1	27.7	31.1	32.7	33.1	33.1	33.1		131	18.8	19.2	23.8	28.1	29.9	30.8	30.8	30.8
22	21.3	21.9	27.6	30.9	32.5	33	33	33		132	18.7	19.1	23.4	27.9	29.8	30.8	30.8	30.8
23	20.8	21.4	27	30.4	32	32.4	32.4	32.4		133	18.7	19.1	23.7	28	29.8	30.8	30.8	30.8
24	20	20.7	26.2	29.6	31.3	31.7	31.7	31.7		134	18.6	18.9	23	27.8	29.6	30.8	30.8	30.8
25	22.1	22.8	28.6	31.8	33.4	33.7	33.7	33.7		135	18.6	18.9	22.9	27.7	29.6	30.8	30.8	30.8
26	24	24.8	30.6	33.7	35.3	35.6	35.6	35.6		136	18.6	18.9	22.9	27.7	29.6	30.7	30.8	30.8
27	24.4	25.2	31.1	34.2	35.7	36	36	36		137	18.5	18.9	23.1	27.7	29.6	30.7	30.7	30.7
28	24.5	25.3	31.2	34.3	35.8	36.1	36.1	36.1		138	18.5	18.9	23.1	27.7	29.6	30.7	30.7	30.7
29	24.6	25.3	31.2	34.3	35.9	36.1	36.1	36.1		139	18.5	18.9	23.4	27.8	29.6	30.6	30.6	30.6
30	24.1	24.8	30.7	33.8	35.4	35.6	35.6	35.6		140	18.6	18.9	23.4	27.8	29.6	30.6	30.6	30.6
31	23.9	24.7	30.6	33.7	35.2	35.4	35.4	35.4		141	18.6	19	23.5	27.9	29.7	30.6	30.6	30.6
32	24.6	25.4	31.3	34.4	35.9	36.1	36.1	36.1		142	18.6	19	23.6	27.9	29.7	30.6	30.7	30.7
33	24.2	24.9	30.8	33.9	35.5	35.7	35.7	35.7		143	18.6	19.1	23.7	28	29.7	30.6	30.7	30.7
34	24.7	25.5	31.4	34.5	36	36.2	36.2	36.2		144	18.7	19.1	23.8	28	29.8	30.7	30.7	30.7
35	28.1	28.8	34.8	37.8	39.4	39.6	39.6	39.6		145	18.7	19.1	23.8	28	29.8	30.7	30.7	30.7
36	23.9	24.7	30.6	33.7	35.2	35.4	35.4	35.4		146	18.6	19	23.7	27.9	29.7	30.6	30.6	30.6
37	24.6	25.4	31.3	34.3	35.9	36.1	36.1	36.1		147	18.6	19	23.6	27.9	29.7	30.6	30.6	30.6
38	24.5	25.2	31.1	34.2	35.8	36	36	36		148	18.5	18.9	23.5	27.8	29.6	30.6	30.6	30.6
39	23.4	24.2	30.1	33.2	34.8	35	35	35		149	18.5	18.9	23.4	27.8	29.6	30.5	30.6	30.6
40	24.2	25	30.9	34	35.5	35.7	35.7	35.7		150	18.5	18.9	23.3	27.7	29.6	30.5	30.6	30.6
41	23.1	23.9	29.8	32.9	34.4	34.6	34.6	34.6		151	18.5	18.8	23.1	27.7	29.5	30.6	30.7	30.7
42	24.3	25	31	34	35.6	35.8	35.8	35.8		152	18.5	18.8	23	27.7	29.5	30.6	30.7	30.7

43	24.8	25.6	31.5	34.6	36.1	36.3	36.3	36.3		153	18.5	18.8	22.9	27.7	29.5	30.6	30.7	30.7
44	24.7	25.5	31.4	34.5	36	36.2	36.2	36.2		154	18.5	18.8	22.8	27.7	29.5	30.7	30.7	30.7
45	24.6	25.3	31.3	34.3	35.9	36.1	36.1	36.1		155	18.5	18.8	22.7	27.6	29.5	30.7	30.7	30.7
46	24.2	24.9	30.9	33.9	35.5	35.7	35.7	35.7		156	18.5	18.8	22.5	27.6	29.5	30.6	30.8	30.8
47	22.4	23.2	29.1	32.2	33.7	33.9	33.9	33.9		157	18.5	18.7	22.5	27.6	29.5	30.7	30.7	30.7
48	24.4	25.1	31.1	34.1	35.7	35.9	35.9	35.9		158	18.5	18.7	22.4	27.5	29.5	30.7	30.7	30.7
49	24.6	25.3	31.3	34.3	35.9	36.1	36.1	36.1		159	18.5	18.8	22.4	27.6	29.5	30.8	30.8	30.8
50	24.9	25.7	31.6	34.7	36.2	36.4	36.4	36.4		160	18.5	18.8	22.4	27.6	29.5	30.8	30.8	30.8
51	24.6	25.4	31.3	34.4	35.9	36.1	36.1	36.1		161	18.7	18.9	22.3	27.7	29.7	31	31.1	31.1
52	24.1	24.8	30.8	33.8	35.4	35.6	35.6	35.6		162	18.5	18.7	22.3	27.5	29.4	30.7	30.7	30.7
53	23.6	24.4	30.4	33.4	35	35.1	35.1	35.1		163	18.4	18.7	22.2	27.5	29.4	30.7	30.7	30.7
54	22.6	23.3	29.3	32.3	33.9	34.1	34.1	34.1		164	18.4	18.6	22.1	27.4	29.4	30.7	30.7	30.7
55	21.6	22.4	28.3	31.4	32.9	33.1	33.1	33.1		165	18.4	18.6	22.1	27.4	29.4	30.7	30.7	30.7
56	21.2	21.9	27.9	30.9	32.5	32.7	32.7	32.7		166	18.4	18.7	22.6	27.5	29.4	30.5	30.6	30.6
57	21.2	21.9	27.9	30.9	32.5	32.7	32.7	32.7		167	18.3	18.6	22.6	27.5	29.4	30.5	30.5	30.5
58	22.4	23.1	29.1	32.1	33.7	33.9	33.9	33.9		168	18.3	18.6	22.5	27.4	29.3	30.5	30.5	30.5
59	22.9	23.6	29.6	32.6	34.2	34.4	34.4	34.4		169	18.2	18.5	22.4	27.3	29.2	30.4	30.4	30.4
60	23.7	24.5	30.4	33.5	35	35.2	35.2	35.2		170	18.2	18.5	22.4	27.3	29.2	30.4	30.5	30.5
61	21.1	21.8	27.8	30.8	32.4	32.6	32.6	32.6		171	18.2	18.5	22.4	27.3	29.2	30.4	30.5	30.5
62	20.9	21.7	27.6	30.7	32.2	32.4	32.4	32.4		172	18.3	18.5	22.3	27.4	29.3	30.5	30.5	30.5
63	19.7	20.5	26.4	29.5	31	31.2	31.2	31.2		173	18.2	18.5	22.4	27.3	29.2	30.4	30.4	30.4
64	18.2	18.9	24.9	27.9	29.5	29.7	29.7	29.7		174	18.2	18.5	22.4	27.3	29.2	30.4	30.4	30.4
65	17.5	18.2	24.2	27.2	28.8	29	29	29		175	18.2	18.5	22.3	27.3	29.2	30.4	30.4	30.4
66	17	17.8	23.8	26.8	28.4	28.5	28.5	28.5		176	18.2	18.5	22.3	27.3	29.2	30.4	30.5	30.5
67	20.7	21.4	27.4	30.4	32	32.2	32.2	32.2		177	18.2	18.5	22.3	27.3	29.2	30.4	30.5	30.5
68	20.6	21.4	27.3	30.4	31.9	32.1	32.1	32.1		178	18.2	18.5	22.3	27.3	29.2	30.4	30.5	30.5
69	16.9	17.7	23.6	26.7	28.2	28.4	28.4	28.4		179	18	18.3	22.3	27.2	29.1	30.2	30.3	30.3
70	14.6	15.3	21.3	24.3	25.9	26.1	26.1	26.1		180	18.1	18.4	22.3	27.2	29.1	30.3	30.4	30.4
71	20.7	21.5	27.4	30.5	32	32.2	32.2	32.2		181	18.1	18.4	22.2	27.2	29.1	30.4	30.4	30.4
72	19.6	20.4	26.3	29.4	30.9	31.1	31.1	31.1		182	18.2	18.4	22.2	27.2	29.2	30.4	30.4	30.4
73	17.6	18.4	24.3	27.4	28.9	29.1	29.1	29.1		183	18.2	18.4	22.2	27.3	29.2	30.4	30.4	30.4
74	17.2	18	23.9	27	28.5	28.7	28.7	28.7		184	18.2	18.5	22.1	27.3	29.2	30.4	30.5	30.5
75	16.8	17.5	23.5	26.5	28.1	28.3	28.3	28.3		185	18	18.3	22.2	27.1	29	30.2	30.2	30.2
76	16.4	17.1	23.1	26.1	27.7	27.9	27.9	27.9		186	18	18.3	22.2	27.1	29	30.2	30.2	30.2
77	15.9	16.6	22.6	25.6	27.2	27.4	27.4	27.4		187	18	18.3	22.2	27.1	29	30.2	30.2	30.2
78	15.6	16.4	22.3	25.4	26.9	27.1	27.1	27.1		188	18.1	18.4	22.2	27.2	29.1	30.3	30.3	30.3
79	18.4	19.1	25.1	28.1	29.7	29.9	29.9	29.9		189	18.1	18.4	22.2	27.2	29.1	30.3	30.4	30.4
80	19.9	20.7	26.6	29.7	31.2	31.4	31.4	31.4		190	18.1	18.4	22.2	27.2	29.1	30.3	30.4	30.4
81	20.5	21.3	27.3	30.3	31.9	32	32	32		191	18.1	18.4	22.1	27.2	29.1	30.3	30.4	30.4
82	20.6	21.4	27.3	30.4	31.9	32.1	32.1	32.1		192	18.1	18.4	22.1	27.2	29.1	30.4	30.4	30.4
83	18.9	19.7	25.7	28.7	30.3	30.4	30.4	30.4		193	18.1	18.4	22.1	27.2	29.1	30.4	30.4	30.4
84	18.4	19.2	25.1	28.2	29.7	29.9	29.9	29.9		194	18.2	18.4	22.1	27.2	29.1	30.4	30.4	30.4
85	17.4	18.2	24.1	27.2	28.7	28.9	28.9	28.9		195	18.2	18.4	22.1	27.2	29.2	30.4	30.5	30.5
86	14.9	15.7	21.6	24.7	26.2	26.4	26.4	26.4		196	18.2	18.6	23.1	27.5	29.3	30.3	30.3	30.3
87	15	15.7	21.7	24.7	26.3	26.5	26.5	26.5		197	18.5	18.9	23.7	27.8	29.6	30.4	30.5	30.5

88	14.9	15.6	21.6	24.6	26.2	26.4	26.4	26.4		198	18.7	19.2	24.2	28.1	29.8	30.6	30.6	30.6
89	14.8	15.5	21.5	24.5	26.1	26.3	26.3	26.3		199	18.6	19.1	24.2	28.1	29.8	30.5	30.5	30.5
90	14.8	15.5	21.5	24.5	26.1	26.3	26.3	26.3		200	19.2	19.7	25	28.7	30.4	31	31	31
91	14.8	15.6	21.5	24.6	26.1	26.3	26.3	26.3		201	20.5	21.2	27.1	30.2	31.8	32	32	32
92	15.7	16.4	22.4	25.4	27	27.2	27.2	27.2		202	20.2	20.9	26.9	29.9	31.5	31.7	31.7	31.7
93	14.7	15.5	21.5	24.5	26.1	26.2	26.2	26.2		203	18.9	19.6	25.6	28.6	30.2	30.4	30.4	30.4
94	15.2	15.9	21.9	24.9	26.5	26.7	26.7	26.7		204	18.4	19.1	25.1	28.1	29.7	29.9	29.9	29.9
95	14.8	15.6	21.5	24.6	26.1	26.3	26.3	26.3		205	18.1	18.9	24.8	27.9	29.4	29.6	29.6	29.6
96	15	15.8	21.7	24.8	26.3	26.5	26.5	26.5		206	22.2	23	28.9	32	33.5	33.7	33.7	33.7
97	15	15.7	21.7	24.7	26.3	26.5	26.5	26.5		207	22.3	23.1	29	32.1	33.6	33.8	33.8	33.8
98	14.5	15.2	21.2	24.2	25.8	26	26	26		208	20.4	21.2	27.2	30.2	31.8	31.9	31.9	31.9
99	14.4	15.1	21.1	24.1	25.7	25.9	25.9	25.9		209	19.2	19.9	25.9	28.9	30.5	30.7	30.7	30.7
100	14.5	15.2	21.2	24.2	25.8	26	26	26		210	17.7	18.4	24.4	27.4	29	29.2	29.2	29.2
101	16.3	17	22.8	26	27.6	27.9	27.9	27.9		211	15.9	16.6	22.6	25.6	27.2	27.4	27.4	27.4
102	16.9	17.6	23.3	26.5	28.1	28.5	28.5	28.5		212	16.7	17.4	23.4	26.4	28	28.2	28.2	28.2
103	17.7	18.4	24.2	27.4	28.9	29.2	29.3	29.3		213	15.9	16.6	22.6	25.6	27.2	27.4	27.4	27.4
104	18.1	18.8	24.7	27.8	29.4	29.7	29.7	29.7		214	15.3	16.1	22	25.1	26.6	26.8	26.8	26.8
105	18.2	18.9	24.7	27.9	29.5	29.7	29.7	29.7		215	15.2	16	22	25	26.6	26.7	26.7	26.7
106	18.5	19.2	25	28.2	29.8	30	30	30		216	14.7	15.4	21.4	24.4	26	26.2	26.2	26.2
107	19.2	19.9	25.8	28.9	30.5	30.8	30.8	30.8		217	14.8	15.5	21.5	24.5	26.1	26.3	26.3	26.3
108	20.3	21	26.9	30	31.6	31.8	31.8	31.8		218	14.6	15.4	21.4	24.4	26	26.1	26.1	26.1
109	21.9	22.6	28.5	31.6	33.2	33.4	33.4	33.4		219	14.8	15.6	21.5	24.6	26.1	26.3	26.3	26.3
110	16.4	17	22.6	26	27.6	28	28	28										

Predicted Noise Levels - Turbine Technology Option 3:

NSL	4	5	6	7	8	9	10		NSL	4	5	6	7	8	9	10
1	26.1	31.7	34.5	35.6	35.7	35.7	35.7		111	19.3	24.9	27.7	28.8	28.9	28.9	28.9
2	25	30.6	33.4	34.5	34.6	34.6	34.6		112	19.5	25.1	27.9	29	29.1	29.1	29.1
3	25.3	30.9	33.7	34.8	34.9	34.9	34.9		113	19.8	25.4	28.2	29.3	29.4	29.4	29.4
4	27.2	32.8	35.6	36.7	36.8	36.8	36.8		114	19.8	25.4	28.2	29.3	29.4	29.4	29.4
5	29.8	35.4	38.2	39.3	39.4	39.4	39.4		115	20.4	26	28.8	29.9	30	30	30
6	30.2	35.8	38.6	39.7	39.8	39.8	39.8		116	20.8	26.4	29.2	30.3	30.4	30.4	30.4
7	30.6	36.2	39	40.1	40.2	40.2	40.2		117	20.6	26.2	29	30.1	30.2	30.2	30.2
8	26.2	31.8	34.6	35.7	35.8	35.8	35.8		118	20.8	26.4	29.2	30.3	30.4	30.4	30.4
9	26.2	31.8	34.6	35.7	35.8	35.8	35.8		119	21.3	26.9	29.7	30.8	30.9	30.9	30.9
10	27.7	33.3	36.1	37.2	37.3	37.3	37.3		120	21.5	27.1	29.9	31	31.1	31.1	31.1
11	26.7	32.3	35.1	36.2	36.3	36.3	36.3		121	21.8	27.4	30.2	31.3	31.4	31.4	31.4
12	28.5	34.1	36.9	38	38.1	38.1	38.1		122	21.5	27.1	29.9	31	31.1	31.1	31.1
13	27.9	33.5	36.3	37.4	37.5	37.5	37.5		123	21.4	27	29.8	30.9	31	31	31
14	27.9	33.5	36.3	37.4	37.5	37.5	37.5		124	21.4	27	29.8	30.9	31	31	31
15	25.7	31.3	34.1	35.2	35.3	35.3	35.3		125	21.4	27	29.8	30.9	31	31	31
16	26.2	31.8	34.6	35.7	35.8	35.8	35.8		126	22.3	27.9	30.7	31.8	31.9	31.9	31.9
17	29.7	35.3	38.1	39.2	39.3	39.3	39.3		127	22.5	28.1	30.9	32	32.1	32.1	32.1
18	32	37.6	40.4	41.5	41.6	41.6	41.6		128	21	26.6	29.4	30.5	30.6	30.6	30.6
19	28.3	33.9	36.7	37.8	37.9	37.9	37.9		129	20.9	26.5	29.3	30.4	30.5	30.5	30.5
20	27	32.6	35.4	36.5	36.6	36.6	36.6		130	21	26.6	29.4	30.5	30.6	30.6	30.6
21	24.4	30	32.8	33.9	34	34	34		131	20.7	26.3	29.1	30.2	30.3	30.3	30.3
22	24.2	29.8	32.6	33.7	33.8	33.8	33.8		132	20.4	26	28.8	29.9	30	30	30
23	23.6	29.2	32	33.1	33.2	33.2	33.2		133	20.7	26.3	29.1	30.2	30.3	30.3	30.3
24	22.8	28.4	31.2	32.3	32.4	32.4	32.4		134	20.2	25.8	28.6	29.7	29.8	29.8	29.8
25	25.2	30.8	33.6	34.7	34.8	34.8	34.8		135	20.1	25.7	28.5	29.6	29.7	29.7	29.7
26	27.2	32.8	35.6	36.7	36.8	36.8	36.8		136	20.1	25.7	28.5	29.6	29.7	29.7	29.7
27	27.6	33.2	36	37.1	37.2	37.2	37.2		137	20.2	25.8	28.6	29.7	29.8	29.8	29.8
28	27.7	33.3	36.1	37.2	37.3	37.3	37.3		138	20.2	25.8	28.6	29.7	29.8	29.8	29.8
29	27.8	33.4	36.2	37.3	37.4	37.4	37.4		139	20.4	26	28.8	29.9	30	30	30
30	27.3	32.9	35.7	36.8	36.9	36.9	36.9		140	20.4	26	28.8	29.9	30	30	30
31	27.1	32.7	35.5	36.6	36.7	36.7	36.7		141	20.5	26.1	28.9	30	30.1	30.1	30.1
32	27.8	33.4	36.2	37.3	37.4	37.4	37.4		142	20.6	26.2	29	30.1	30.2	30.2	30.2
33	27.4	33	35.8	36.9	37	37	37		143	20.7	26.3	29.1	30.2	30.3	30.3	30.3
34	27.9	33.5	36.3	37.4	37.5	37.5	37.5		144	20.7	26.3	29.1	30.2	30.3	30.3	30.3
35	31.3	36.9	39.7	40.8	40.9	40.9	40.9		145	20.7	26.3	29.1	30.2	30.3	30.3	30.3
36	27.1	32.7	35.5	36.6	36.7	36.7	36.7		146	20.6	26.2	29	30.1	30.2	30.2	30.2
37	27.8	33.4	36.2	37.3	37.4	37.4	37.4		147	20.5	26.1	28.9	30	30.1	30.1	30.1
38	27.7	33.3	36.1	37.2	37.3	37.3	37.3		148	20.5	26.1	28.9	30	30.1	30.1	30.1
39	26.7	32.3	35.1	36.2	36.3	36.3	36.3		149	20.4	26	28.8	29.9	30	30	30
40	27.4	33	35.8	36.9	37	37	37		150	20.3	25.9	28.7	29.8	29.9	29.9	29.9
41	26.3	31.9	34.7	35.8	35.9	35.9	35.9		151	20.2	25.8	28.6	29.7	29.8	29.8	29.8
42	27.5	33.1	35.9	37	37.1	37.1	37.1		152	20.1	25.7	28.5	29.6	29.7	29.7	29.7

43	28	33.6	36.4	37.5	37.6	37.6	37.6		153	20.1	25.7	28.5	29.6	29.7	29.7	29.7
44	28	33.6	36.4	37.5	37.6	37.6	37.6		154	20	25.6	28.4	29.5	29.6	29.6	29.6
45	27.8	33.4	36.2	37.3	37.4	37.4	37.4		155	19.9	25.5	28.3	29.4	29.5	29.5	29.5
46	27.4	33	35.8	36.9	37	37	37		156	19.8	25.4	28.2	29.3	29.4	29.4	29.4
47	25.6	31.2	34	35.1	35.2	35.2	35.2		157	19.8	25.4	28.2	29.3	29.4	29.4	29.4
48	27.6	33.2	36	37.1	37.2	37.2	37.2		158	19.8	25.4	28.2	29.3	29.4	29.4	29.4
49	27.8	33.4	36.2	37.3	37.4	37.4	37.4		159	19.7	25.3	28.1	29.2	29.3	29.3	29.3
50	28.1	33.7	36.5	37.6	37.7	37.7	37.7		160	19.7	25.3	28.1	29.2	29.3	29.3	29.3
51	27.8	33.4	36.2	37.3	37.4	37.4	37.4		161	19.7	25.3	28.1	29.2	29.3	29.3	29.3
52	27.3	32.9	35.7	36.8	36.9	36.9	36.9		162	19.7	25.3	28.1	29.2	29.3	29.3	29.3
53	26.9	32.5	35.3	36.4	36.5	36.5	36.5		163	19.6	25.2	28	29.1	29.2	29.2	29.2
54	25.8	31.4	34.2	35.3	35.4	35.4	35.4		164	19.5	25.1	27.9	29	29.1	29.1	29.1
55	24.9	30.5	33.3	34.4	34.5	34.5	34.5		165	19.5	25.1	27.9	29	29.1	29.1	29.1
56	24.4	30	32.8	33.9	34	34	34		166	19.8	25.4	28.2	29.3	29.4	29.4	29.4
57	24.4	30	32.8	33.9	34	34	34		167	19.8	25.4	28.2	29.3	29.4	29.4	29.4
58	25.6	31.2	34	35.1	35.2	35.2	35.2		168	19.7	25.3	28.1	29.2	29.3	29.3	29.3
59	26.1	31.7	34.5	35.6	35.7	35.7	35.7		169	19.6	25.2	28	29.1	29.2	29.2	29.2
60	26.9	32.5	35.3	36.4	36.5	36.5	36.5		170	19.6	25.2	28	29.1	29.2	29.2	29.2
61	24.3	29.9	32.7	33.8	33.9	33.9	33.9		171	19.6	25.2	28	29.1	29.2	29.2	29.2
62	24.1	29.7	32.5	33.6	33.7	33.7	33.7		172	19.6	25.2	28	29.1	29.2	29.2	29.2
63	22.9	28.5	31.3	32.4	32.5	32.5	32.5		173	19.6	25.2	28	29.1	29.2	29.2	29.2
64	21.3	26.9	29.7	30.8	30.9	30.9	30.9		174	19.6	25.2	28	29.1	29.2	29.2	29.2
65	20.6	26.2	29	30.1	30.2	30.2	30.2		175	19.6	25.2	28	29.1	29.2	29.2	29.2
66	20.2	25.8	28.6	29.7	29.8	29.8	29.8		176	19.6	25.2	28	29.1	29.2	29.2	29.2
67	23.9	29.5	32.3	33.4	33.5	33.5	33.5		177	19.6	25.2	28	29.1	29.2	29.2	29.2
68	23.8	29.4	32.2	33.3	33.4	33.4	33.4		178	19.5	25.1	27.9	29	29.1	29.1	29.1
69	20.1	25.7	28.5	29.6	29.7	29.7	29.7		179	19.5	25.1	27.9	29	29.1	29.1	29.1
70	17.7	23.3	26.1	27.2	27.3	27.3	27.3		180	19.5	25.1	27.9	29	29.1	29.1	29.1
71	23.9	29.5	32.3	33.4	33.5	33.5	33.5		181	19.5	25.1	27.9	29	29.1	29.1	29.1
72	22.8	28.4	31.2	32.3	32.4	32.4	32.4		182	19.5	25.1	27.9	29	29.1	29.1	29.1
73	20.8	26.4	29.2	30.3	30.4	30.4	30.4		183	19.5	25.1	27.9	29	29.1	29.1	29.1
74	20.4	26	28.8	29.9	30	30	30		184	19.5	25.1	27.9	29	29.1	29.1	29.1
75	19.9	25.5	28.3	29.4	29.5	29.5	29.5		185	19.4	25	27.8	28.9	29	29	29
76	19.6	25.2	28	29.1	29.2	29.2	29.2		186	19.4	25	27.8	28.9	29	29	29
77	19	24.6	27.4	28.5	28.6	28.6	28.6		187	19.4	25	27.8	28.9	29	29	29
78	18.8	24.4	27.2	28.3	28.4	28.4	28.4		188	19.5	25.1	27.9	29	29.1	29.1	29.1
79	21.6	27.2	30	31.1	31.2	31.2	31.2		189	19.4	25	27.8	28.9	29	29	29
80	23.1	28.7	31.5	32.6	32.7	32.7	32.7		190	19.4	25	27.8	28.9	29	29	29
81	23.7	29.3	32.1	33.2	33.3	33.3	33.3		191	19.4	25	27.8	28.9	29	29	29
82	23.8	29.4	32.2	33.3	33.4	33.4	33.4		192	19.4	25	27.8	28.9	29	29	29
83	22.1	27.7	30.5	31.6	31.7	31.7	31.7		193	19.4	25	27.8	28.9	29	29	29
84	21.6	27.2	30	31.1	31.2	31.2	31.2		194	19.4	25	27.8	28.9	29	29	29
85	20.6	26.2	29	30.1	30.2	30.2	30.2		195	19.4	25	27.8	28.9	29	29	29
86	18.1	23.7	26.5	27.6	27.7	27.7	27.7		196	20.1	25.7	28.5	29.6	29.7	29.7	29.7
87	18.1	23.7	26.5	27.6	27.7	27.7	27.7		197	20.6	26.2	29	30.1	30.2	30.2	30.2

88	18	23.6	26.4	27.5	27.6	27.6	27.6		198	21	26.6	29.4	30.5	30.6	30.6	30.6
89	17.9	23.5	26.3	27.4	27.5	27.5	27.5		199	21	26.6	29.4	30.5	30.6	30.6	30.6
90	17.9	23.5	26.3	27.4	27.5	27.5	27.5		200	21.7	27.3	30.1	31.2	31.3	31.3	31.3
91	18	23.6	26.4	27.5	27.6	27.6	27.6		201	23.6	29.2	32	33.1	33.2	33.2	33.2
92	18.8	24.4	27.2	28.3	28.4	28.4	28.4		202	23.4	29	31.8	32.9	33	33	33
93	17.9	23.5	26.3	27.4	27.5	27.5	27.5		203	22.1	27.7	30.5	31.6	31.7	31.7	31.7
94	18.3	23.9	26.7	27.8	27.9	27.9	27.9		204	21.6	27.2	30	31.1	31.2	31.2	31.2
95	17.9	23.5	26.3	27.4	27.5	27.5	27.5		205	21.3	26.9	29.7	30.8	30.9	30.9	30.9
96	18.2	23.8	26.6	27.7	27.8	27.8	27.8		206	25.4	31	33.8	34.9	35	35	35
97	18.1	23.7	26.5	27.6	27.7	27.7	27.7		207	25.6	31.2	34	35.1	35.2	35.2	35.2
98	17.6	23.2	26	27.1	27.2	27.2	27.2		208	23.7	29.3	32.1	33.2	33.3	33.3	33.3
99	17.5	23.1	25.9	27	27.1	27.1	27.1		209	22.4	28	30.8	31.9	32	32	32
100	17.6	23.2	26	27.1	27.2	27.2	27.2		210	20.8	26.4	29.2	30.3	30.4	30.4	30.4
101	19.3	24.9	27.7	28.8	28.9	28.9	28.9		211	19	24.6	27.4	28.5	28.6	28.6	28.6
102	19.9	25.5	28.3	29.4	29.5	29.5	29.5		212	19.8	25.4	28.2	29.3	29.4	29.4	29.4
103	20.7	26.3	29.1	30.2	30.3	30.3	30.3		213	19	24.6	27.4	28.5	28.6	28.6	28.6
104	21.2	26.8	29.6	30.7	30.8	30.8	30.8		214	18.5	24.1	26.9	28	28.1	28.1	28.1
105	21.2	26.8	29.6	30.7	30.8	30.8	30.8		215	18.4	24	26.8	27.9	28	28	28
106	21.5	27.1	29.9	31	31.1	31.1	31.1		216	17.8	23.4	26.2	27.3	27.4	27.4	27.4
107	22.3	27.9	30.7	31.8	31.9	31.9	31.9		217	17.9	23.5	26.3	27.4	27.5	27.5	27.5
108	23.4	29	31.8	32.9	33	33	33		218	17.8	23.4	26.2	27.3	27.4	27.4	27.4
109	25	30.6	33.4	34.5	34.6	34.6	34.6		219	18	23.6	26.4	27.5	27.6	27.6	27.6
110	19.2	24.8	27.6	28.7	28.8	28.8	28.8									