APPENDIX N
EQUIPMENT SOUND POWER LEVELS

Appendix N – Equipment Sound Power Levels

Name	Type	31.5	63	125	250	500	1000	2000	4000	8000	dBA	Linear
GT Enclosure Walls	Lw	93	94	86	77	70	74	75	67	57	80.1	97
GT Enclosure Air Inlet Vents	Lw	89	95	84	80	73	71	76	77	83	85.1	96.7
GT Enclosure Air Discharge Vents	Lw	91	96	88	84	75	74	74	73	78	83.2	98
OAC GT Generator	Lw	109	117	107	96	89	87	88	85	76	97.1	118
Inlet Duct Walls - Unlagged	Lw	106	103	101	92	92	101	98	96	93	104.6	110
Overhead Filter House - Pad Filter + Evap Cooler	Lw	116	110	103	88	80	84	79	79	88	92.7	117.2
Unenclosed Lube Oil Package	Lw	99	102	100	100	100	100	101	98	91	106.2	109.2
Lube Oil Cooler (2 x 50% fans)	Lw	108	111	108	98	95	91	92	80	70	98.9	114.2
Roto Air cooler - 1 x 100% fin-fan	Lw	107	111	102	96	94	89	85	93	79	97.9	113
Fuel Gas Metering Piping	Lw	104	100	89	81	89	86	88	91	89	95.9	106
GT Exhaust Diffuser & Expansion Joint	Lw	120	115	108	108	105	101	97	97	79	107.1	121.8
GT Main GSU Transformer	Lw	101	106	110	100	110	91	89	81	76	107.3	114.2
GT Auxiliary Transformer	Lw	87	87	91	88	94	86	76	71	65	92.5	97.7
Total STG Including Gen - no Aux	Lw	107	107	114	110	108	108	105	102	98	112.6	118
ST Lube Oil Skid	Lw	93	106	117	87	96	92	96	94	85	103.9	117.4
ST Lube Oil Cooler	Lw	105	108	105	95	92	88	89	77	67	95.9	111.2
ST Gland Steam Cooler	Lw	102	105	102	92	89	85	86	74	64	92.9	108.2
Boiler Feed Water Pump	Lw	101	106	108	99	104	103	102	97	93	108	112.8
Condensate Pump	Lw	92	106	101	99	99	98	98	93	91	103.7	109.3
HRSG T1 - No Shroud	Lw	118	115	106	108	98	99	92	94	79	104.3	120.3
HRSG T2 - No Shroud	Lw	118	115	106	108	98	99	92	94	79	104.3	120.3
HRSG B1	Lw	113	104	101	93	92	89	82	84	69	94.4	113.8
HRSG B2	Lw	119	113	101	96	88	79	70	69	54	92.6	120
HRSG S1	Lw	118	105	98	93	88	91	72	70	50	93.4	118.3
HRSG S2	Lw	114	97	86	76	65	61	47	48	28	77.7	114.1
Stack Exit with Directivity to grade at 400 feet	Lw	90	98	103	105	105	109	96	94	71	110.3	112.5

Name	Type	31.5	63	125	250	500	1000	2000	4000	8000	dBA	Linear
SCR Ammonia Skid - each	Lw	104	103	95	97	100	102	98	93	91	105.2	109.5
ST Main GSU Transformer	Lw	98	103	107	97	107	88	86	78	73	104.3	111.2
Air Cooled Heat Exchanger	Lw	111	111	110	107	102	100	94	88	82	105	116.3
Steam Duct #1 - ST to ACHE	Lw	109	92	74	78	84	84	83	82	83	90	109.1
Steam Duct #2 - Within ACHE	Lw	111	94	76	80	86	86	85	84	85	92	111.1
Boiler Feed Pump FFC 1x100%	Lw	102	105	102	92	89	85	86	74	64	92.9	108.2
Gas Compressor Building - 4 GC operating	Lw	109	110	103	105	109	102	102	95	92	109.3	115.4
Air Compressor - untreated	Lw	96	108	95	95	93	89	87	87	82	95.8	108.9