

Report Rev#	0
Created by	Kyle Cassidy
Date	26-Jan-12

Source ID	Description	Total Sound Power Level (dBA)	Source Location	Sound Characteristics	Noise Control Measures
Sub	44-kV/10-MVA Substation transformer	90.8	O	S-T	U
Inv1	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv2	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv3	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv4	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv5	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv6	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv7	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv8	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv9	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv10	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S

Source ID	Description	Spectra ID	Total Sound Power Level - 24 Hours (dBA)	Correction - 24 Hours (dBA)	Height (m)	Coordinates (m)		
						X	Y	Z
Sub	44-kV/10-MVA Substation transformer	Transformer10MVA	90.8	5.0	3.0	358855.1	4902833.6	133.0
Inv1	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	358435.6	4903561.5	134.7
Inv2	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	358488.0	4903441.5	133.5
Inv3	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	358546.4	4903308.1	133.5
Inv4	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	358645.9	4903090.7	133.5
Inv5	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	358658.7	4902987.2	133.5
Inv6	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	358510.9	4903655.0	136.0
Inv7	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	358652.5	4903575.1	134.8
Inv8	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	358668.3	4903441.7	133.5
Inv9	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	358866.6	4903103.9	133.5
Inv10	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	358911.8	4903000.6	133.5

Source ID	POR 1		POR 2		POR 9	
	Distance (m)	L _{eq} Sound Level (dBA)	Distance (m)	L _{eq} Sound Level (dBA)	Distance (m)	L _{eq} Sound Level (dBA)
Sub	316	29.3	288	30.1	1181	16.1
Inv1	873	15.9	883	15.8	443	22.4
Inv2	759	17.3	755	17.3	529	20.7
Inv3	640	18.9	616	19.3	643	18.9
Inv4	475	21.7	398	23.4	853	16.1
Inv5	457	22.1	298	26.1	933	15.2
Inv6	881	15.8	965	14.9	510	21.1
Inv7	727	17.7	882	15.8	656	18.7
Inv8	619	19.2	750	17.4	699	18.1
Inv9	264	27.3	486	21.5	1023	14.3
Inv10	204	29.8	434	22.6	1118	13.4

ID	Description	Total Sound Pressure (dBA)	Performance Limit (dBA)	Height (m)	Coordinates NAD83 Zone 18			Min dist. to source (m)
					X (m)	Y (m)	Z (m)	
1	Existing	34.8	40.0	4.5	359115.1	4903014.0	134.5	203.8
2	Existing	33.6	40.0	4.5	358603.2	4902694.9	134.5	287.6
3	Existing	33.5	40.0	4.5	359131.6	4902819.0	134.0	276.9
4	Existing	32.9	40.0	4.5	358652.2	4902622.2	134.3	293.1
5	Existing	31.3	40.0	4.5	358496.1	4902641.0	134.5	382.5
6	Existing	31.8	40.0	4.5	358604.2	4902595.2	134.2	346.1
7	Existing	29.6	40.0	4.5	359345.2	4903129.1	134.5	452.1
8	Existing	30.7	40.0	4.5	358548.2	4902562.2	134.1	409.7
9	Existing	29.0	40.0	4.5	358001.2	4903649.2	138.6	443.2
10	Existing	28.8	40.0	4.5	358003.2	4903690.2	139.3	451.1
11	Existing	28.5	40.0	4.5	359416.2	4903164.1	134.5	530.3
12	Existing	28.7	40.0	4.5	358381.2	4902532.2	134.0	533.0
13	Existing	28.2	40.0	4.5	357962.2	4903698.2	139.5	492.7
14	Existing	27.9	40.0	4.5	357946.2	4903724.2	139.5	515.7
15	Existing	27.2	40.0	4.5	359507.6	4903223.7	134.9	636.2
16	Existing	28.6	40.0	4.5	359354.4	4902709.1	131.6	514.5
17	Existing	26.7	40.0	4.5	359537.6	4903284.1	135.2	687.1
18	Existing	27.2	40.0	4.5	359528.2	4903054.1	133.5	618.7
19	Existing	27.2	40.0	4.5	358315.2	4902433.2	132.5	651.9
20	Existing	26.5	40.0	4.5	359560.2	4903291.1	135.1	710.5
21	Existing	26.5	40.0	4.5	359571.2	4903236.1	134.6	700.2
22	Existing	26.7	40.0	4.5	359567.2	4903120.1	134.2	666.2
23	Existing	27.0	40.0	4.5	358332.2	4902403.2	132.3	669.1
24	Existing	26.4	40.0	4.5	359577.2	4903262.1	134.8	715.0
25	Existing	26.4	40.0	4.5	358216.2	4902432.2	130.4	709.9
26	Existing	26.3	40.0	4.5	358191.2	4902441.2	129.8	718.8
27	Existing	25.8	40.0	4.5	359627.2	4903281.1	134.6	768.5
28	Existing	25.7	40.0	4.5	359643.9	4903266.3	134.5	778.9
29	Existing	25.8	40.0	4.5	358141.2	4902414.2	129.5	772.1
30	Existing	25.5	40.0	4.5	359672.6	4903204.3	134.5	787.7
31	Existing	25.3	40.0	4.5	358185.9	4902318.7	130.0	818.8
32	Existing	24.5	40.0	4.5	359418.7	4904020.9	139.5	886.4
33	Existing	24.5	40.0	4.5	359706.8	4903494.2	135.6	926.4
34	Existing	24.9	40.0	4.5	358087.2	4902354.2	129.5	852.9
35	Existing	24.1	40.0	4.5	359603.2	4903838.1	138.8	986.4
36	Existing	24.0	40.0	4.5	359583.1	4903879.4	139.2	979.0
37	Existing	24.0	40.0	4.5	359561.3	4903926.1	139.5	974.2
38	Existing	24.0	40.0	4.5	359607.2	4903857.1	138.9	995.4
39	Existing	24.1	40.0	4.5	359733.2	4903571.1	136.1	984.5
40	Existing	24.1	40.0	4.5	359803.9	4903274.1	134.5	933.1
41	Existing	24.1	40.0	4.5	359812.4	4903243.0	134.1	932.7
42	Existing	23.9	40.0	4.5	359837.2	4903190.1	133.3	944.6
43	Existing	24.3	40.0	4.5	358402.2	4902083.2	129.5	876.5
44	Existing	23.4	40.0	4.5	359891.2	4903228.1	133.1	1005.5
45	Existing	23.3	40.0	4.5	359896.4	4903295.6	133.9	1027.9
46	Existing	23.4	40.0	4.5	357947.2	4902252.2	129.5	1023.0
47	Existing	23.4	40.0	4.5	357989.1	4902219.2	129.5	1018.9
48	Existing	19.6	40.0	4.5	357710.8	4904126.2	131.3	918.8
49	Existing	23.3	40.0	4.5	357984.2	4902203.2	129.5	1034.3
50	Existing	23.1	40.0	4.5	359928.1	4903209.0	132.7	1037.5
51	Existing	23.1	40.0	4.5	359937.2	4903165.1	132.1	1038.5
52	Existing	22.7	40.0	4.5	357875.2	4902209.2	129.5	1104.2
53	Existing	22.5	40.0	4.5	357907.2	4902146.2	129.5	1127.9
54	Existing	22.4	40.0	4.5	360010.5	4903292.5	132.7	1136.9
55	Existing	22.1	40.0	4.5	360021.2	4903444.1	134.5	1194.8
56	Existing	22.2	40.0	4.5	357823.2	4902177.2	129.5	1163.7
57	Existing	21.8	40.0	4.5	359106.9	4904620.1	144.5	1134.3
58	Existing	21.7	40.0	4.5	359151.3	4904616.4	144.5	1154.5
59	Existing	21.0	40.0	4.5	359161.2	4904728.2	143.3	1254.8
60	Existing	20.9	40.0	4.5	357744.0	4902008.7	129.5	1339.5
61	Existing	20.7	40.0	4.5	359185.2	4904754.1	143.2	1289.5
62	Existing	20.8	40.0	4.5	357693.8	4902029.4	129.5	1359.6
63	Existing	20.8	40.0	4.5	357680.1	4902039.2	129.5	1362.5
64	Existing	16.1	40.0	4.5	359109.2	4904866.2	139.5	1350.9
65	Existing	19.3	40.0	4.5	358583.2	4901492.2	127.3	1368.7
66	Existing	15.8	40.0	4.5	358872.2	4905084.2	136.5	1474.1
67	Existing	15.3	40.0	4.5	358914.2	4905104.2	137.0	1504.2

Spectra ID	Octave Spectrum (dBA)											lin
	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
Transformer10MVA	43.0	62.2	74.3	76.8	2.2	79.4	75.6	70.4	61.3	85.8	94.4	
SC1000MV		64.8	78.9	93.0	91.6	90.1	87.6	79.9	65.4	97.2	103.7	

Name	Octave Spectrum (dBA)									
	31.5	63	125	250	500	1000	2000	4000	8000	
Greenheck Louver	0	10	10	12	16	23	18	0	0	0