GE EQUIPMENT LIST

Equipment		Number of Units		Octave Band Sound Pressure Levels at 3 feet (dBA)								Lp (dBA)	Distance	Notes	Cumulate Octave Band Sound Pressure Levels (dBA)								Lp (dBA)
		Total	Active	63	125	250	500	1k	2k	4k	8k	1 Unit	(feet)		63	125	250	500	1k	2k	4k	8k	4 Units
Engine	Aggregate	5	4	95.0	101.0	99.0	94.0	93.0	92.0	94.0	95.0	105	3	GE	101	107	105	100	99	98	100	101	112
Stack	Exhaust Gas	5	4									88	3	GE									94

Note: Equipment emission noise levels were provided by GE.

NRWP Noise Calculations

Equipment	In Structure	Shielded by Structure	Octave Band Sound Pressure Level at 3 feet								Lp1 at 3 ft	Distance factor (A_{div}) = 20logD								Shielding	Transmission Loss factor (A_{TL})								Octave Band Sound Pressure Level (dBA) at receptor								Lp dBA
												Source Location			Receptor Location			Distance	dB																	
			63	125	250	500	1k	2k	4k	8k		X	Y	Z	X	Y	Z	(feet)			63	125	250	500	1k	2k	4k	8k	63	125	250	500	1k	2k	4k	8k	
Site A																																					
Engine	Yes	Yes	101	107	105	100	99	98	100	101	112	996867	240595	20	996867	240422	54	176	**35**	10	34	34	42	44	51	58	60	60	22	28	18	11	3	0	0	0	29.0
Stack	No	No									94	996710	240491	161	996867	240422	54	202	**37**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57.5
																																					57.5
Site 1																																					
Engine	Yes	Yes	101	107	105	100	99	98	100	101	112	996867	240595	20	997473	240468	5	619	**46**	10	34	34	42	44	51	58	60	60	11	17	7	0	0	0	0	0	18.4
Stack	No	No									94	996710	240491	161	997473	240468	5	779	**48**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45.7
																																					45.7
Site 2																																					
Engine	Yes	Yes	101	107	105	100	99	98	100	101	112	996867	240595	20	996980	239859	5	745	**48**	10	34	34	42	44	51	58	60	60	9	15	5	0	0	0	0	0	16.9
Stack	No	No									94	996710	240491	161	996980	239859	5	705	**47**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46.6
																																					46.6
Site 3																																					
Engine	Yes	Yes	101	107	105	100	99	98	100	101	112	996867	240595	20	996553	240289	54	440	**43**	10	34	34	42	44	51	58	60	60	14	20	10	3	0	0	0	0	21.2
Stack	No	No									94	996710	240491	161	996553	240289	54	277	**39**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54.7
																																					54.7
Site 4																																					
Engine	Yes	Yes	101	107	105	100	99	98	100	101	112	996867	240595	20	996441	240607	54	428	**43**	10	34	34	42	44	51	58	60	60	14	20	10	3	0	0	0	0	21.4
Stack	No	No									94	996710	240491	161	996441	240607	54	312	**40**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53.7
																																					53.7
Site 5																																					
Engine	Yes	Yes	101	107	105	100	99	98	100	101	112	996867	240595	20	996777	240875	54	296	**40**	10	34	34	42	44	51	58	60	60	17	23	13	6	0	0	0	0	24.6
Stack	No	No									94	996710	240491	161	996777	240875	54	404	**43**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51.4
																																					51.4
Site 6																																					
Engine	Yes	Yes	101	107	105	100	99	98	100	101	112	996867	240595	20	997235	240273	5	489	**44**	10	34	34	42	44	51	58	60	60	13	19	9	2	0	0	0	0	20.3
Stack	No	No									94	996710	240491	161	997235	240273	5	589	**46**	0																	48.2
																																					48.2

Note:
Sound Pressure Level Lp = Lp1 - Adiv - Shielding - ATL
Lp1 = Reference sound pressure level at 3 feet)
Adiv = 20log(Distance/reference distance)
Shielding = Shielding attenuation see Table 6-10 in FTA Transit Noise and Vibration Impact Assessment, May 2006.
ATL = Sound transmission loss of concrete masonry units 12"x8"x16" (see P373 in Noise Control Manual for Residential Buildings, David A. Harris).

NRWP Noise Analysis Results

CEQR

Site	Land Use	Time	Existing L_{eq}	Project Leq	Total Leq	Change	Existing L_{10}	Future L_{10}
1	Residential	Late Night	62.3	45.7	62.4	0.1	64.8	64.9
2	Residential	Late Night	61.5	46.6	61.6	0.1	63.0	63.1
3	Open Space	Late Night	60.0	54.7	61.1	1.1	61.3	62.4
4	Open Space	Late Night	54.8	53.7	57.3	2.5	55.6	58.1
5	Open Space	Late Night	57.4	51.4	58.4	1.0	58.5	59.5
6	Open Space	Late Night	61.5	48.2	61.7	0.2	62.2	62.4

NYC Noise Code

Site	Location	Ambient Noise Quality Zone	Project Lp	Noise Criteria	Impact?
A	Property Line	N3	57.5	70	No