Power Generation

Sound Data

100DGDB 60 Hz

Sound Pressure Levels @ 7 meters dB(A)

Configuration		Position (Note 1)								8 Position Average
		1	2	3	4	5	6	7	8	
Standard - Unhoused (Note 3)	Infinite Exhaust	82.1	86.4	85.5	85.4	82.0	85.3	84.7	85.1	84.6
F182 - Weather (Note 3)	Infinite Exhaust	84.1	86.8	85.2	85.3	79.5	83.8	84.8	85.8	84.4
F182 - Weather	Mounted Muffler	85.3	87.9	85.9	85.6	80.8	85.3	86.1	87.5	85.6
F172 - Quiet Site II First Stage	Mounted Muffler	85.2	83.1	74.6	72.8	68.8	70.7	73.5	83.9	76.6
F173 - Quiet Site II Second Stage	Mounted Muffler	67.8	71.1	71.9	71.6	67.3	68.8	68.2	70.9	69.6

Note:

1. Position 1 faces the engine front at 23 feet (7 m) from the center of the generator set. The positions proceed around the generator set in a counter-clockwise direction in 45° increments.
2. Data based on full rated load with standard radiator-fan package.
3. Sound data for generator set with infinite exhaust do not include exhaust noise.
4. Sound pressure levels per ANSI S1.13-1971 as applicable.
5. Reference sound pressure is 20 µPa.
6. Sound pressure levels are subject to instrumentation, measurement, installation and generator set variability.

Sound Power Levels dB(A)

Configuration		Octave Band Center Frequency (Hz)								Sound Power Level
		63	125	250	500	1000	2000	4000	8000	
Standard - Unhoused (Note 3)	Infinite Exhaust	71.2	85.3	96.4	99.9	105.1	105.0	101.5	96.5	109.9
F182 - Weather	Mounted Muffler	87.7	99.5	99.7	103.9	106.9	106.7	102.3	97.9	112.1
F172 - Quiet SIte II First Stage	Mounted Muffler	76.5	90.7	93.5	99.8	102.6	102.8	99.0	91.5	107.8
F173 - Quiet SIte II Second Stage	Mounted Muffler	75.1	90.4	89.8	90.2	92.0	90.3	87.3	87.3	98.2

Note:

1. Data based on full rated load with standard radiator-fan package.
2. Sound power per ANSI S12.34-1988 and ISO 3744 as applicable.
3. Sound data for generator set with infinite exhaust do not include exhaust noise.
4. Reference sound power is $1pW=1 \times 10^{-12}$ W.
5. Sound power levels are subject to instrumentation, measurement, installation and generator set variability.

Case No. 16784
Exhibit No. 12
Board of Zoning Adjustment
District of Columbia
CASE NO.16784
EXHIBIT NO.12