

03MAR 10 1998 4:41PM FAX 212 SWANKE HAYDEN CONNELL ARCHITECTS WILKE

NO. 5404 HAYDEN 212 002



TECHNOLOGY CONSULTANTS IN TELECOMMUNICATIONS,
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March 10, 1998

Mr. Joseph Aliotta
Swanke Hayden Connell Architects
295 Lafayette Street
New York, NY 10012

Re: Mayor's Office of Emergency Management
Emergency Generator Noise

Dear Joseph,

We submit the following information and comments regarding the expected noise level outside the 7th floor emergency generator room in response to the March 4, 1998 letter from Silverstein Properties..

Noise Control Treatments

The partitions enclosing the generator room shall consist of 3 5/8" metal studs with three (3) layers of 5/8" gypboard on each side and full depth insulation within the stud cavities, all extending slab to slab. ✓

The generators shall be mounted on spring vibration isolators selected to provide minimum 2" static deflection. ✓

High efficiency hospital grade mufflers shall be provided on each generator. ✓

Noise Transmission Analysis

Based on measured generator noise levels at other installations with similar sized generators, the noise level inside the generator room when both engines operate will be about 115 dBA.

The generator room partition construction described above has an acoustical rating of STC-60 and is thus capable, in simplified terms, of stopping or containing roughly 60 dBA of noise.

Therefore, with a source level of 115 dBA inside the room the noise transmitted to surrounding spaces will be reduced to 55 dBA (115 minus 60 equals 55), or an equivalent Noise Criteria level of NC-50 to 55.

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Mr. Joseph Aliotta
Re: Emergency Gen. Noise Control

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As we stated in our 2/25/98 letter, this noise will be greater than being outside a typical fan room but is not so loud as to prevent normal office functions on a short term basis.

Should you have any questions, kindly advise.

Your very truly,

SHEN MILSOM & WILKE, INC.



Denis Milsom, VP

5149

cc: Michael Maybaum/Cosentini

Shen Milsom & Wilke, Inc.