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If flight operations adjustment is not feasible, the only possible mitigation measure for significant aircraft noise impacts is treatment of all exterior walls and roofs of buildings to ensure that interior noise levels would be less than 45 dB(A)  $L_{10(1)}$ . If exterior noise levels are less than 75 dB(A), double-glazed or laminated windows (with alternate means of ventilation for levels above 70 dB(A)) should be provided to achieve adequate attenuation and ensure interior noise levels of 45 dB(A). However, if noise levels are equal to or greater than 75 dB(A), special designs may have to be incorporated into windows, walls, roofs, and doors.

### 513. TRAIN NOISE

Mitigation measures available for significant train noise impacts are the exterior building attenuation measures discussed above (Subsection 511) for significant vehicular noise impacts, barrier wall (or berm) construction, treating the vehicles, wheel truing and rail grinding, rail lubrication on sharp curves, and operational restrictions. Barrier wall attenuation has a practical limit of 10 to 15 dB(A), so it would provide complete impact mitigation only when exterior  $L_{eq(1)}$  levels (for existing uses) at receptors are less than 75 dB(A). It must also be kept in mind that barriers are only effective when the line-of-sight is broken between the source and receiver. Therefore, buildings with windows higher than the barrier may not receive much benefit from the barriers and exterior wall attenuation; window attenuation and an alternate means of ventilation would have to be designed into the facades of buildings facing the rail activity.

### 520. STATIONARY SOURCES

The most common mitigation measures available for stationary sources include exterior building attenuation (as discussed for mobile sources in Subsection 510 above), barrier erection (as discussed above), and noise control design on the source in question. Caution should be exercised when erecting barriers in New York City given the limitations mentioned above. In many cases, treating the noise source (*e.g.*, providing baffles, silencers, mufflers, sound insulation, placing it within an enclosed structure) may be the least expensive option. Moving the source in question so that receptors would not be significantly affected is also a potential mitigation measure.

### 530. (E) DESIGNATIONS

The (E) Designation is an institutional control that is implemented through CEQR review of a zoning map, text amendment, or action pursuant to the Zoning Resolution. It provides a mechanism to ensure that measures aimed at avoiding a significant adverse impact are part of future development, thereby eliminating the potential for a noise impact.

If necessary, the lead agency may consult with DEP during the CEQR process to identify sites requiring an (E). The Mayor's Office of Environmental Remediation (OER) is responsible for administering post-CEQR determinations for projects with assigned (E) Designations and existing Restrictive Declarations, pursuant to Section 11-15 (Environmental Requirements) of the Zoning Resolution of the City of New York and Chapter 24 of Title 15 of the Rules of the City of New York (Rules). If property owners have applied for an action that will result in placement of an (E) Designation, they are advised to provide the CEQR number to OER. In order to facilitate OER's review of the proposed work to address the requirements of the (E) Designation, it may be necessary for property owners to provide historical technical documentation related to the CEQR Noise analysis (*e.g.*, EAS/EIS, Technical Memoranda, CEQR determination, modeling results, lead agency and DEP correspondence, Restrictive Declarations, Notices) to OER. The Rules and Section 11-15 of the Zoning Resolution set out the procedures for placing, satisfying and removing (E) Designations. OER reviews and approves all documents needed to satisfy the requirement of a noise (E) Designation.

(E) Designations are listed in a table, "CEQR Environmental Requirements," appended to the Zoning Resolution, and appear in the Department of Buildings' (DOB) online [Buildings Information System \(BIS\)](#).







