MERCURY ABATEMENT/ENCAPSULATION SPECIFICATIONS

Grand Street Artist Partnership
722 Grand Street
Hoboken, New Jersey

GENERAL

1. Contractor shall be responsible for the health and safety of his/her employees.

2. Contractor shall not expose residents and/or guests of the building to suspected mercury-contaminated building material in any way.

3. The work area is to be restricted only to authorized, trained, and protected personnel. Entry into the work area by unauthorized individuals shall be reported immediately to the Owner by the Contractor.

4. Contractor shall comply with all local, county, state and federal regulations regarding mercury contamination, disposal and encapsulation.

5. Transportation of mercury-contaminated building materials and suspected mercury-contaminated building materials will not be permitted via the building’s elevator. Mercury-contaminated building materials and suspected mercury-contaminated building materials are to transported via an outside closed chute leading to a sealed dumpster or truck located at street level. The chute can be installed along one of the building’s fire escapes. The chute shall not interfere with the operations of the fire escape.

6. The work area is to be under negative air pressure during all work activities. When work has ceased, the entrance to the apartment is to be sealed unless directed otherwise by the Owner.

7. Contractor may request a decontamination unit for its worker. If so, said decontamination unit shall be located within the apartment being abated.

8. Elemental mercury removal shall be accomplished by first spraying a mercury decontamination solution (Acton Technologies \textit{HgX™} Mercury Decontaminant Powder or equivalent) on the flooring. The mercury decontamination solution will react with any elemental mercury and converted it to a salt. The contractor will then pickup the mercury salt via the use of a special HEPA vacuum cleaner equipped with an activated charcoal filter on its exhaust along with mercury absorbent materials. All mercury captured will be disposed of properly. Manifests shall be supplied documenting proper disposal.
9. After removal of all mercury, the Contractor shall survey the abated area with a portable mercury vapor analyzer (Jerome Model 411-X or equivalent). If airborne levels are either ten times below the current American Council of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV) for elemental mercury (0.05 mg/M$^3$ for 1994) or the lower limit of detection of the mercury vapor analyzer (0.001 mg/M$^3$), then the Contractor shall notify the Consultant to perform an independent mercury vapor survey to verify the Contractor's mercury vapor levels. If the Consultant's levels are also either ten times below the current American Council of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV) for elemental mercury (0.05 mg/M$^3$ for 1994) or the lower limit of detection of the mercury vapor analyzer (0.001 mg/M$^3$), then the surveyed area is complete and no further abatement work will be required.

10. The Contractor shall then apply a penetrating encapsulating agent (Grayling Industries Control Multi-Use Encapsulant or equivalent) to the underlying flooring. Said encapsulant should be capable of withstanding mechanical shock without breaching. After the encapsulant has dried, the Consultant will survey the encapsulated area for mercury vapor. If the survey indicates levels above the values stated in paragraph 8 above, then the Contractor shall re-clean the area until the mercury vapor levels are below the stated values in paragraph 8 above.

**TASK A**

1. The Contractor shall remove the first layer of flooring in apartment 5D and dispose of it properly.

2. The first layer of flooring appears to be constructed on a series of wood laths. Contractor shall ensure existing walls will not be affected by the removal of the first layer of flooring. Supports (wedges) may placed under the existing walls starting from the abutting wall line and working their way to the center of the wall. It is the Contractor's ultimate responsibility to ensure existing walls are not compromised during the removal of the any flooring.

3. In those floor areas where holes are present and ceiling insulation of the floor below is visible, Contractor shall carefully remove the visible insulation and dispose of it as mercury-contaminated building material. The Contractor shall then HEPA vacuum the top of the visible ceiling. After vacuuming, the hole shall be surveyed with a portable mercury vapor analyzer. If mercury levels are above the values stated in Paragraph 8 - GENERAL, then Contractor shall remove a portion of the surrounding wood flooring and additional
ceiling insulation and recheck for mercury levels. Additional remediation will stop when mercury levels detected are at or below the values stated in Paragraph 8 - GENERAL.

4. The Contractor shall also vacuum the flooring and leading stairs of the apartment's mezzanine area. After vacuuming the Contractor shall survey the vacuumed areas with a portable mercury vapor analyzer. If mercury levels are above the values stated in Paragraph 8 - GENERAL, then Contractor shall contact the Owner for further instructions. If mercury levels are at or below the values stated in Paragraph 8 - GENERAL, then the surveyed area is complete and no further abatement work will be required.

TASK B

1. Contractor shall remove a two (2) foot wide length of the first layer of flooring along the northern wall of apartment 5A and dispose of the flooring properly. After removal and vacuuming of the exposed area, the Contractor shall survey the abated area for mercury vapor levels. If mercury levels are above the values stated in Paragraph 8 - GENERAL, then Contractor shall remove a portion of the surrounding wood flooring and recheck for mercury levels. If mercury vapor levels are detected above the values stated in Paragraph 8 - GENERAL at the edge of apartment 5A's finished floor, the Contractor shall stop work and notify the Owner for further instructions.

2. The first layer of flooring appears to be constructed of plywood. Contractor shall ensure existing walls will not be affected by the removal of the first layer of flooring. Supports (wedges) may placed under the existing walls starting from the abutting wall line and working their way to the center of the wall. It is the Contractor's ultimate responsibility to ensure existing walls are not compromised during the removal of the any flooring.

3. In those floor areas where holes are present and ceiling insulation of the floor below is visible, Contractor shall carefully remove the visible insulation and dispose of it as mercury-contaminated building material. The Contractor shall then HEPA vacuum the top of the visible ceiling. After vacuuming, the hole shall be surveyed with a portable mercury vapor analyzer. If mercury levels are above the values stated in Paragraph 8 - GENERAL, then Contractor shall remove a portion of the surrounding wood flooring and additional ceiling insulation and recheck for mercury levels. Additional remediation will stop when mercury levels detected are at or below the values stated in Paragraph 8 - GENERAL.

4. Contractor will not cause any damaged to the finished flooring in apartment 5A.