

EPA/NYC Indoor Air Approach - Request to FEMA

4/19/02

Identification, Inspection and ~~Remediation~~ Cleaning of HVAC Systems as Part of Exterior Cleaning

NYCDEP is prepared to respond to complaints about residential buildings with central HVAC systems in lower Manhattan by using a consultant to conduct air sampling and inspect these systems to determine if further action needs to be taken.

Projected Cost: To be determined.

Cleaning of Debris-Laden Unoccupied Buildings

NYC ~~City~~ ^{NYC will identify} ~~NYCDEP~~ will identify and ~~NYCDEP~~ will arrange for the cleaning of the remaining unoccupied (residential and commercial) buildings near the WTC site that contain WTC-debris in lower Manhattan below Canal Street. If owners will not or cannot clean these premises, ~~NYCDEP~~ will arrange for contractors to do the clean up. This is necessary to prevent recontamination of other structures in lower Manhattan. Projected Cost: \$10 million, based upon estimates approximately \$1 million/building for 10 buildings

Pilot Building Cleaning Effort to Confirm Cleaning Techniques

EPA will clean one unoccupied building to confirm and test the techniques recommended for removing WTC-debris material from the indoor environment.

Projected Cost: \$5 million

Direct Assistance to Residences and Residential Buildings Owners

EPA, working with OSHA and NYC, will establish ~~mechanisms~~ ^{val} to offer a program to assistance to individuals that self-identify as having cleaning concerns in lower Manhattan within a geographic area bounded on the south, east and west by the coastline and on the north by the south side of Canal Street. EPA will solicit participation in this direct assistance program through public announcements. A hotline will be established to receive requests from the public as soon as possible. The assistance will include the following options:

- 1) Cleaning within apartments and building open spaces, followed by air asbestos testing, using asbestos abatement contractors. Based on existing data evaluated by OSHA during lower Manhattan indoor clean-ups, OSHA will under appropriate circumstances make a determination that these contractors will not be required to use protective clothing or gear. If the contractor determines protective clothing and gear is warranted based on their observation of the conditions the cleaning will be done using appropriate personal protective equipment.
- 2) Testing for airborne asbestos within residences or building areas.
- 3) Providing HEPA vacuums to residences who request to perform their own cleaning on an ongoing basis.

Projected Cost: Needs to be determined. (The March 11 submittal was for \$80 million.)

Vacuums costs approximately \$400/each. Apartment cleaning is approximately \$14,000/apartment. Testing for asbestos is approximately \$3,000/apartment.

Commercial space cleaning and testing is \$6-8 /sq. foot. Total costs will not be available

Not high profile
Fema OK

Expanded way to low reference DoH recommendation

cleaning protocol by EPA

Protective abatement OSHA no determination

if based on asbestos rules

Further evaluation
IAWYS

if deemed positive follow
Further cleanup for ground level