

HVAC Consulting Services

APPENDIX 9

Invoice #1

Contract No. CT 826-200300-19825 OCA No. 0000425814

120 Kimball Terrace
Yonkers, New York 10704



TEL: 914-776-5700
FAX: 914-237-4390

Inspection Report for Warren & Panzer Group
Inspection Address: 66 Frankfort Street, NYC
Inspection Date: 11/06/02

Exhaust Fans

Fan #	Model	Manufacturer	Condition	Comments
1	CX-9-B	Greenheck	Black	Rooftop Units
2	CX-9-B	Greenheck	Black	Rooftop Units
3	CX-9-B	Greenheck	Black	Rooftop Units
4	CX-9-B	Greenheck	Black	Rooftop Units
5	CX-10-B	Greenheck	Black	Rooftop Units
6	CX-9-B	Greenheck	Black	Rooftop Units
7	CX-9-B	Greenheck	Black	Rooftop Units
8	CX-10-B	Greenheck	Black	Rooftop Units
9	CX-9-B	Greenheck	Black	Rooftop Units
10	G-90-DCEX-QD	Greenheck	Black	Rooftop Units
11	CX-9-B	Greenheck	Black	Rooftop Units
12	CX-9-B	Greenheck	Black	Rooftop Units
13	CX-13-B	Greenheck	Black	Rooftop Units
14	CBX-18-4	Greenheck	Black	Rooftop Units
15	CX-13-B	Greenheck	Black	Rooftop Units
	No Information Available	No Information Available	White	Compactor Rm Exhaust - White On Louvers Possible WTC Debris

Basement HVAC

Fan #	Model	Manufacturer	Condition	Comments
HV5	No Information Available	No Information Available	Black	Heater for Basement & Hallways
	No Information Available	No Information Available	Black	Fresh Air Int. for Boiler Rm/Compactor Rm

ATTACHMENT D - RECORD OF WORK**Part 1.0 General Information**

Date of Evaluation: <u>11/6/02</u>	Building contact name and phone:
Evaluation Team (list name and affiliation):	
<u>FRANK NOETTI - DUCT DUSTERS</u>	(Environmental Professional)
<u>TONY GALLO - DUCT DUSTERS</u>	(HVAC/Electrical Professional)
	(Sheet Metal Professional)
Building Address:	Type of Facility (check all that apply):
<u>66 FRANKFORT ST.</u>	☒ Residential
<u>NEW YORK, NY</u>	☐ Multi-use
	☐ Other (describe)
	Number of residential units: Number of floors: <u>6</u>
HVAC System Types (check all that apply)	
☐ Unit ventilator (single residence unit)	☐ Wall/window AC unit (single residence unit)
☐ Fan coil unit (single residence unit)	☒ Central ventilation system
☐ Heat pump unit (single residence unit)	☒ Passive shaft/duct
☐ Other (describe)	
Location of outside air intake:	
Outside air intake accessible for inspection ☒ Y ☐ N (explain)	

Part 2.0 Checklists**2.1 Ventilators, wall air conditioning units and window air conditioning units in common spaces**

Ventilation System Identification: <u>KITCHEN + BATHROOM EXHAUST - SEE ATTACHED</u>						
Location: <u>ROOF</u>						
Access adequate for inspection of components: <u>YES</u>						
System Components	System Component Substrate Material (sheet metal wrapped) (sheet metal lined) (fiberglass) (flexible connector) (double walled)	Dust/Dirt / Debris			Suspect WTC-Related Dust	
		None	Light (<1/16 inch depth)	Heavy (≥ 1/16 inch depth)	Present? (Y/N)	Estimate % of total dust loading
Outside air intake louvers, grates and/or screens						
Outside air duct						
Outside air damper(s)						
Return air grille						
Return air plenum						
Filter rack						
Filter media						
Coils (evaporator)						
Blower assembly						
Condensate drain pan						
In-line electrical resistance strip heaters (in supply ducts connected to unit ventilators)						
Fire dampers						
Turning vanes						
Supply air plenum or supply duct						
Supply air plenum or supply duct liner						
Supply air diffuser						

2.1 Ventilators, wall air conditioning units and window air conditioning units in common spaces (cont.)

ATTACHMENT A - SCOPE OF WORK

Other Information:	
☐ Unit cycled prior to inspection	☐ Color of dust/dirt/debris
☐ Filter loading (general impression)	☐ Water damage
☐ Filter bypass (describe)	☐ Visible suspect mold growth
☐ Abraded/delaminated acoustical lining	☐ Evidence of animal incursion (carcasses, feathers, fecal matter)
General Impression:	

2.2 Fan coil/heat pump units in common spaces

Ventilation System Identification:						
Location:						
Access adequate for inspection of components:						
System Components	System Component Substrate Material (sheet metal wrapped) (sheet metal lined) (fiberglass) (flexible connector) (double walled)	Dust/Dirt/Debris			Suspect WTC-Related Dust	
		None	Light ($< 1/16$ inch depth)	Heavy ($\geq 1/16$ inch depth)	Present? (Y/N)	Estimate % of total dust loading
Return air grille						
Return air plenum						
Filter rack						
Filter media						
Blower assembly						
Thermal coils						
Supply air plenum						
Supply air diffuser						
Other Information:						
☐ Unit cycled prior to inspection		☐ Color of Dust/Dirt/Debris				
☐ Filter loading (general impression)		☐ Water damage				
☐ Filter bypass (describe)		☐ Visible suspect mold growth				
☐ Abraded/delaminated acoustical lining		☐ Evidence of animal incursion (carcasses, feathers, fecal matter)				
General Impression:						

2.3 Central ventilation systems

Ventilation System Identification:	
Heat for Hallways - BASEMENT	MODEL - HV5
Location: BASEMENT	Area Served:
Mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N	
Access adequate for inspection of components: YES	
AHU interior surfaces are visibly accessible: YES	

2.3 Central ventilation systems (continued) ATTACHMENT A - SCOPE OF WORK

System Components	System Component Substrate Material	Dust/Dirt/Debris			Suspect WTC-Related Dust	
		None	Light (<1/16 inch depth)	Heavy (≥ 1/16 inch depth)	Present? (Y/N)	Estimate % of total dust loading
Outside air intake louvers, grates and/or screens				X		
Outside air duct				X		
Outside air damper(s)				X		
Return air grilles				X		
Return air plenum				X		
Return air plenum damper				X		
Return air ducts			X			
Turning vanes			X			
Mixing chambers						
Filter rack(s)			X			
Filter banks/media			X			
Pre-heat coils			X			
Cooling coils						
Re-heat coils						
Humidification and/or air cleaning equipment						
Fire dampers						
In-line re-heat coils						
Acoustical blower housing lining			X			
Duct connectors						
Blower assembly including blower wheel, blower housing, air vanes, in-line noise attenuators, acoustical treatments (e.g. baffles, duct linings)			X			
Condensate drain pan						
Condensate accumulator						
Supply air plenum			X			
Supply air plenum damper(s)						
Supply air ducts			X			
-High pressure - main trunk						
-Low pressure - branches						
Supply plenum or supply duct linings			X			
Supply air duct damper(s)						
Supply air diffusers						
Terminal-boxes						
Open or ducted passive ventilation shaft(s)						
Other Information:						
☒ Unit cycled prior to inspection			☒ Color of Dust/Dirt/Debris <i>Black</i>			
☒ Filter loading (general impression) <i>NORMAL</i>			☐ Water damage			
☐ Filter bypass (describe)			☐ Visible suspect mold growth			
☐ Abraded/deaminated acoustical lining			☐ Evidence of animal incursion (carcasses, feathers, fecal matter)			

ATTACHMENT A – SCOPE OF WORK**2.4 Sampling**

Sampling is required if light to heavy dust is present that is not visually identified as WTC related (maximum 5 samples).

Samples Collected: <u> Y </u> <u> N </u>
Sample Locations:
Location 1:
Location 2:
Location 3:
Location 4:
Location 5:

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HVAC Consulting Services

APPENDIX 10

Invoice #1

Contract No. CT 826-200300-19825 OCA No. 0000425814



120 Kimball Terrace
Yonkers, New York 10704

TEL: 914-776-5700
FAX: 914-237-4390

Inspection Report for Warren & Panzer Group
Inspection Address: 75-79-81 Nassau Street, NYC
Inspection Date: 11/11/02

Exhaust Fans

Fan #	Model	Manufacturer	Condition	Comments
1	AW24	Penn	White	Rooftop Unit - Possible WTC Debris
2	AW24	Penn	White	Rooftop Unit - Possible WTC Debris
3	AW24	Penn	White	Rooftop Unit - Possible WTC Debris
4	AW24	Penn	White	Rooftop Unit - Possible WTC Debris
5	FX13VSR	Penn	Clean	Rooftop Unit
6	DX08SR	Penn	White	Rooftop Unit - Possible WTC Debris
7	FX13VSR	Penn	White	Rooftop Unit - Possible WTC Debris
8	DX11Q	Penn	White	Rooftop Unit - Possible WTC Debris
9	FMX10Q	Penn	Clean	Rooftop Unit
10	AW10	Penn	White	Rooftop Unit - Possible WTC Debris
11	FMX9R	Penn	Clean	Rooftop Unit
12	AW10	Penn	Clean	Rooftop Unit
13	AW10	Penn	Clean	Rooftop Unit
14	AW10	Penn	White	Rooftop Unit - Possible WTC Debris
15	FMX10Q	Penn	Clean	Rooftop Unit
16	AW10	Penn	Clean	Rooftop Unit
17	FMX9R	Penn	Clean	Rooftop Unit

Part 1.0 General Information

Date of Evaluation: <u>11/11/02</u>	Building contact name and phone:
Evaluation Team (list name and affiliation):	
<u>Frank Moratti - Duct Dusters</u>	(Environmental Professional)
<u>Frank Moratti - Duct Dusters</u>	(HVAC/Electrical Professional)
	(Sheet Metal Professional)
Building Address:	Type of Facility (check all that apply):
<u>75-79-81 NASSAU ST.</u>	☒ Residential
<u>NEW YORK, NY</u>	☐ Multi-use
	☐ Other (describe)
	Number of residential units: Number of floors:
HVAC System Types (check all that apply)	
☐ Unit ventilator (single residence unit)	☐ Wall/window AC unit (single residence unit)
☐ Fan coil unit (single residence unit)	☒ Central ventilation system
☐ Heat pump unit (single residence unit)	☒ Passive shaft/duct
☐ Other (describe)	
Location of outside air intake:	
Outside air intake accessible for inspection <u>Y</u> <u>N</u> (explain)	

Part 2.0 Checklists

2.1 Ventilators, wall air conditioning units and window air conditioning units in common spaces

Ventilation System Identification: <u>BATHROOM + KITCHEN EXHAUST - SEE ATTACHED</u>						
Location: <u>ROOF</u>						
Access adequate for inspection of components: <u>YES</u>						
System Components	System Component Substrate Material (sheet metal wrapped) (sheet metal lined) (fiberglass) (flexible connector) (double walled)	Dust/Dirt / Debris			Suspect WTC-Related Dust	
		None	Light ($< 1/16$ inch depth)	Heavy ($\geq 1/16$ inch depth)	Present? (Y/N)	Estimate % of total dust loading
Outside air intake louvers, grates and/or screens						
Outside air duct						
Outside air damper(s)						
Return air grille						
Return air plenum						
Filter rack						
Filter media						
Coils (evaporator)						
Blower assembly						
Condensate drain pan						
In-line electrical resistance strip heaters (in supply ducts connected to unit ventilators)						
Fire dampers						
Turning vanes						
Supply air plenum or supply duct						
Supply air plenum or supply duct liner						
Supply air diffuser						

2.1 Ventilators, wall air conditioning units and window air conditioning units in common spaces (cont.)

ATTACHMENT A - SCOPE OF WORK

Other Information:	
☒ Unit cycled prior to inspection	☐ Color of dust/dirt/debris
☐ Filter loading (general impression)	☐ Water damage
☐ Filter bypass (describe)	☐ Visible suspect mold growth
☐ Abraded/delaminated acoustical lining	☐ Evidence of animal incursion (carcasses, feathers, fecal matter)
General Impression:	

2.2 Fan coil/ heat pump units in common spaces

Ventilation System Identification:						
Location:						
Access adequate for inspection of components:						
System Components	System Component Substrate Material (sheet metal wrapped) (sheet metal lined) (fiberglass) (flexible connector) (double walled)	Dust/Dirt/Debris			Suspect WTC-Related Dust	
		None	Light (<1/16 inch depth)	Heavy (≥ 1/16 inch depth)	Present? (Y/N)	Estimate % of total dust loading
Return air grille						
Return air plenum						
Filter rack						
Filter media						
Blower assembly						
Thermal coils						
Supply air plenum						
Supply air diffuser						
Other Information:						
☐ Unit cycled prior to inspection		☐ Color of Dust/Dirt/Debris				
☐ Filter loading (general impression)		☐ Water damage				
☐ Filter bypass (describe)		☐ Visible suspect mold growth				
☐ Abraded/delaminated acoustical lining		☐ Evidence of animal incursion (carcasses, feathers, fecal matter)				
General Impression:						

2.3 Central ventilation systems

Ventilation System Identification:	
Location:	Area Served:
Mechanical room: clean <u> Y </u> <u> N </u> dry <u> Y </u> <u> N </u> stored chemicals/refuse <u> Y </u> <u> N </u>	
Access adequate for inspection of components:	
AHU interior surfaces are visibly accessible:	

ATTACHMENT A - SCOPE OF WORK

System Components	System Component Substrate Material	Dust/Dirt/Debris			Suspect WTC-Related Dust	
		None	Light (<1/16 inch depth)	Heavy (≥ 1/16 inch depth)	Present? (Y/N)	Estimate % of total dust loading
Outside air intake louvers, grates and/or screens						
Outside air duct						
Outside air damper(s)						
Return air grilles						
Return air plenum						
Return air plenum damper						
Return air ducts						
Turning vanes						
Mixing chambers						
Filter rack(s)						
Filter banks/media						
Pre-heat coils						
Cooling coils						
Re-heat coils						
Humidification and/or air cleaning equipment						
Fire dampers						
In-line re-heat coils						
Acoustical blower housing lining						
Duct connectors						
Blower assembly including blower wheel, blower housing, air vanes, in-line noise attenuators, acoustical treatments (e.g. baffles, duct linings)						
Condensate drain pan						
Condensate accumulator						
Supply air plenum						
Supply air plenum damper(s)						
Supply air ducts						
-High pressure - main trunk						
-Low pressure - branches						
Supply plenum or supply duct linings						
Supply air duct damper(s)						
Supply air diffusers						
Terminal-boxes						
Open or ducted passive ventilation shaft(s)						
Other Information:						
☐ Unit cycled prior to inspection			☐ Color of Dust/Dirt/Debris			
☐ Filter loading (general impression)			☐ Water damage			
☐ Filter bypass (describe)			☐ Visible suspect mold growth			
☐ Abraded/delaminated acoustical lining			☐ Evidence of animal incursion (carcasses, feathers, fecal matter)			

ATTACHMENT A – SCOPE OF WORK

2.4 Sampling

Sampling is required if light to heavy dust is present that is not visually identified as WTC related (maximum 5 samples).

Samples Collected: ☐ Y ☐ N
Sample Locations:
Location 1:
Location 2:
Location 3:
Location 4:
Location 5:

HVAC Consulting Services

APPENDIX 11

Invoice #1

Contract No. CT 826-200300-19825 OCA No. 0000425814

120 Kimball Terrace
Yonkers, New York 10704



TEL: 914-776-5700
FAX: 914-237-4390

Inspection Report for Warren & Panzer Group
Inspection Address: 80 Beekman Street, NYC
Inspection Date: 11/06/02

Exhaust Fans

Fan #	Model	Manufacturer	Condition	Comments
1	CX-9-B	Greenheck	Black	Rooftop Units
2	CBX-18-4	Greenheck	Black	Rooftop Units
3	CX-13-B	Greenheck	Black	Rooftop Units
4	CX-12-B	Greenheck	Black	Rooftop Units
5	CX-9-B	Greenheck	Black	Rooftop Units
6	CX-9-B	Greenheck	Black	Rooftop Units
7	CX-9-B	Greenheck	Black	Rooftop Units
8	CX-9-B	Greenheck	Black	Rooftop Units
9	CX-9-B	Greenheck	Black	Rooftop Units
10	CX-9-B	Greenheck	Black	Rooftop Units
11	CX-9-B	Greenheck	Black	Rooftop Units
12	CX-9-B	Greenheck	Black	Rooftop Units
13	CX-9-B	Greenheck	Black	Rooftop Units
14	CX-9-B	Greenheck	Black	Rooftop Units
15	CBX-18-4	Greenheck	Black	Rooftop Units
16	CX-9-B	Greenheck	Black	Rooftop Units
17	CX-10-B	Greenheck	Black	Rooftop Units
	No Information Available	Greenheck	White	Upper Bulkhead - Elevator Rm Possible WTC Debris

Basement HVAC

Fan #	Model	Manufacturer	Condition	Comments
HV3	No Information Available	No Information Available	Black	Heat for Hallways & Basement
	No Information Available	No Information Available	Black	Fresh Air Intake For Basement

Basement Exhaust

Fan #	Model	Manufacturer	Condition	Comments
	No Information Available	No Information Available	Black	Basement/Compactor Rm/Transformer Rm
	No Information Available	No Information Available	Lint	Laundry Rm Exhaust
	No Information Available	No Information Available	Lint	Dryer Exhaust

Part 1.0 General Information

Date of Evaluation: 11/6/02		Building contact name and phone:	
Evaluation Team (list name and affiliation):			
FRANK MOSTI - DUCT DESIGN		(Environmental Professional)	
TONY GARO - DUCT DESIGN		(HVAC/Electrical Professional)	
		(Sheet Metal Professional)	
Building Address:		Type of Facility (check all that apply):	
80 BEEKMAN ST		☒ Residential	
NEW YORK NY		☐ Multi-use	
		☐ Other (describe)	
		Number of residential units:	Number of floors:
HVAC System Types (check all that apply)			
☒ Unit ventilator (single residence unit)		☐ Wall/window AC unit (single residence unit)	
☐ Fan coil unit (single residence unit)		☒ Central ventilation system	
☐ Heat pump unit (single residence unit)		☒ Passive shaft/duct	
☐ Other (describe)			
Location of outside air intake:			
Outside air intake accessible for inspection ☒ Y ☐ N (explain)			

Part 2.0 Checklists**2.1 Ventilators, wall air conditioning units and window air conditioning units in common spaces**

Ventilation System Identification: ROOF BATHROOM + KITCHEN EXHAUST - SEE ATTACHED						
Location: ROOF + BASEMENT						
Access adequate for inspection of components: YES						
System Components	System Component Substrate Material (sheet metal wrapped) (sheet metal lined) (fiberglass) (flexible connector) (double walled)	Dust/Dirt / Debris			Suspect WTC-Related Dust	
		None	Light (<1/16 inch depth)	Heavy (≥ 1/16 inch depth)	Present? (Y/N)	Estimate % of total dust loading
Outside air intake louvers, grates and/or screens						
Outside air duct						
Outside air damper(s)						
Return air grille						
Return air plenum						
Filter rack						
Filter media						
Coils (evaporator)						
Blower assembly						
Condensate drain pan						
In-line electrical resistance strip heaters (in supply ducts connected to unit ventilators)						
Fire dampers						
Turning vanes						
Supply air plenum or supply duct						
Supply air plenum or supply duct liner						
Supply air diffuser						

2.1 Ventilators, wall air conditioning units and window air conditioning units in common spaces (cont.)

ATTACHMENT A - SCOPE OF WORK

Other Information:

☐ Unit cycled prior to inspection	☐ Color of dust/dirt/debris
☐ Filter loading (general impression)	☐ Water damage
☐ Filter bypass (describe)	☐ Visible suspect mold growth
☐ Abraded/delaminated acoustical lining	☐ Evidence of animal incursion (carcasses, feathers, fecal matter)

General Impression:

2.2 Fan coil/ heat pump units in common spaces

Ventilation System Identification:

Location:

Access adequate for inspection of components:

System Components	System Component Substrate Material (sheet metal wrapped) (sheet metal lined) (fiberglass) (flexible connector) (double walled)	Dust/Dirt/Debris			Suspect WTC-Related Dust	
		None	Light ($< 1/16$ inch depth)	Heavy ($\geq 1/16$ inch depth)	Present? (Y/N)	Estimate % of total dust loading
Return air grille						
Return air plenum						
Filter rack						
Filter media						
Blower assembly						
Thermal coils						
Supply air plenum						
Supply air diffuser						

Other Information:

☐ Unit cycled prior to inspection	☐ Color of Dust/Dirt/Debris
☐ Filter loading (general impression)	☐ Water damage
☐ Filter bypass (describe)	☐ Visible suspect mold growth
☐ Abraded/delaminated acoustical lining	☐ Evidence of animal incursion (carcasses, feathers, fecal matter)

General Impression:

2.3 Central ventilation systems

Ventilation System Identification:

HEATER FOR BASEMENT/HALLWAYS - HVI	
Location: BASEMENT	Area Served:
Mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N	
Access adequate for inspection of components:	YES
AHU interior surfaces are visibly accessible:	YES

2.3 Central ventilation systems (continued)

ATTACHMENT A - SCOPE OF WORK

System Components	System Component Substrate Material	Dust/Dirt/Debris			Suspect WTC-Related Dust	
		None	Light (<1/16 inch depth)	Heavy (≥ 1/16 inch depth)	Present? (Y/N)	Estimate % of total dust loading
Outside air intake louvers, grates and/or screens				X	N	
Outside air duct				X	N	
Outside air damper(s)				X	N	
Return air grilles				X	N	
Return air plenum						
Return air plenum damper						
Return air ducts				X	N	
Turning vanes						
Mixing chambers			X			
Filter rack(s)						
Filter banks/media				X	N	
Pre-heat coils						
Cooling coils			X			
Re-heat coils						
Humidification and/or air cleaning equipment						
Fire dampers						
In-line re-heat coils						
Acoustical blower housing lining		Y				
Duct connectors						
Blower assembly including blower wheel, blower housing, air vanes, in-line noise attenuators, acoustical treatments (e.g. baffles, duct linings)		X				
Condensate drain pan						
Condensate accumulator						
Supply air plenum						
Supply air plenum damper(s)						
Supply air ducts			X		N	
-High pressure - main trunk						
-Low pressure - branches						
Supply plenum or supply duct linings			X		N	
Supply air duct damper(s)						
Supply air diffusers						
Terminal boxes						
Open or ducted passive ventilation shaft(s)						
Other Information:						
☐ Unit cycled prior to inspection			☐ Color of Dust/Dirt/Debris			
☐ Filter loading (general impression)			☐ Water damage			
☐ Filter bypass (describe)			☐ Visible suspect mold growth			
☐ Abraded/delaminated acoustical lining			☐ Evidence of animal incursion (carcasses, feathers, fecal matter)			

ATTACHMENT A – SCOPE OF WORK**2.4 Sampling**

Sampling is required if light to heavy dust is present that is not visually identified as WTC related (maximum 5 samples).

Samples Collected: <u> Y </u> <u> N </u>
Sample Locations:
Location 1:
Location 2:
Location 3:
Location 4:
Location 5:

HVAC Consulting Services

APPENDIX 12

Invoice #1

Contract No. CT 826-200300-19825 OCA No. 0000425814



ATHENICA
ENVIRONMENTAL SERVICES INC.

**45-09 Greenpoint Avenue
Long Island City, N.Y. 11104**

**Tel (718) 784-7490
Fax (718) 784-4085**

January 30, 2003

**United States Environmental Protection Agency (USEPA)
Region 2
290 Broadway
New York, NY 10007-1866**

**Attn: Mr. Eric Wilson-Quadrant Coordinator
Tel# (212) 637-3150
Fax# (212) 637-3105**

**Re: 2 South End Avenue, Manhattan, NY
Evaluation Report for Building HVAC & Environmental Inspection for WTC Related Dust**

Dear Mr. Wilson:

Athenica Environmental Services, Inc., and Duct Dusters performed Building HVAC & Environmental inspections on January 15, 2003.

Qualifications:

Duct Dusters (DD) is a NADCA certified corporation. Mr. Tony Gallo of DD performed the inspections of the HVAC and exhaust systems in conjunction New York State certified Asbestos Inspector Mr. Alex Kazakov of Athenica Environmental Services, Inc (AES) and Mr. Matthew Schoen of USEPA.

Background:

2 South End Avenue is a 09-story building with 162 residential units. The manager of the building is Mr. Dan Wurtzul from Cooper Square Management Corp. at 212 -682-7373. The superintendent of the building is Bob Mauceri at 212 786-4461 or at 212-786-4557.

Post 9/11 Maintenance History:

No post 9/11 maintenance activity reports were available at the time of our inspection. Athenica contacted Cooper Square Management Corp. on January 13 and January 21, 2003 to request these maintenance records. We received no response.

2 South End Avenue, Manhattan, NY
January 30, 2003

Inspection Details:

As part of the survey, the Mechanical and the Environmental Professionals inspected the following HVAC system types. All identification data and visual inspections are documented in the attached checklists.

- A. A total of (30) mechanical exhaust fans of kitchens and bathrooms located on the upper roof, (13) mechanical kitchen and bathroom exhaust fans located on the lower roof and (01) fresh air intake for the elevator room.
- B. HVAC unit is located on the upper roof and serves north side of the hallways.
- C. HVAC unit is located on the upper roof and serves south side of the hallways
- D. HVAC unit is located on the lower roof and serves the 2nd floor hallway of the townhouses.
- E. A/C unit is located on the upper bulkhead of the elevator room and serves the elevator room.
- F. One (01) AC split unit is located on the ground floor and serves the gym.
- G. One (01) AC split unit is located on the ground floor in the playroom and serves playroom.
- H. One (01) Lobby AC unit is located on the ground floor in the gym area and serves the lobby

Summary of Findings:

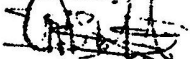
WTC related dust was observed in the mechanical exhaust fans # 30, 29, 28, 26, 25, 16, 12, 04 and the lobby AC unit.

Scope of work:

Cleaning is required to remove WTC related dust from:

- The exhaust fans# 30, 29, 28, 26, 25, 16, 12, 04 and their associated components.
- Lobby AC unit its associated components, located on the ground floor in the gym area and serving the lobby.

Sincerely,



Vasilis Bellos

Director of Operations

Attachments: 1) Ventilation System Evaluation forms

VENTILATION SYSTEM EVALUATION FORM

Please complete this form in accordance with instructions in the accompanying guidance document

Part 1.0 General Information

Date of evaluation: <u>1/15/03</u>	Building contact name and phone:
Evaluation team (list name and affiliation):	
<u>-ALEX. KAZAKOV - ATHENICA ENV. SERV.</u> (Environmental professional)	
<u>TONY GALLO - DUCT DUSTERS</u> (HVAC professional)	
Building address:	Type of Facility (check all that apply):
<u>2 SOUTH END AVE</u>	☒ Residential
<u>NEW YORK NY.</u>	☐ Multi-use
	☐ Other (describe)
Date of construction:	
Number of residential units: <u>169</u>	Number of floors: <u>9</u>
Prior inspection report/maintenance records available for review?: <u>NO</u>	
Other comments	
Ventilation system types (check all that apply and indicate total no. of units)	
Central ventilation system	Mechanical exhaust system
Est. no. of units <u>07</u>	Est. no. of units <u>43</u>
Mechanical make-up air system	Passive shaft/duct
Est. no. of units	Est. no. of units <u>1</u>
Other (describe)	

I certify that to the best of my knowledge, the information and observations recorded on this form including all attachments are a true and accurate representation of site conditions.

Ventilation System (HVAC) Evaluator

Date 1/15/03

Part 2.0 Visual Inspection Forms

Use the attached forms to document visual inspections. Complete the forms in accordance with instructions in the accompanying guidance document.

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST # 1

Location:

UPPER ROOF - 2 SOUTH END AVE

Area Served:

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? ☒ Y ☐ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 100 No. locations inspected 2Specify type (circle): metal fibrous glass lined metal masonry fibrous glass boardflex-duct wood- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 9 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED

- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification: MECHANICAL EXHAUST #2			
Location: UPPER ROOF - 2 SOUTH END AVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection: ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vases, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>			
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood		Y	N
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u>9</u> No. locations inspected <u>0</u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form				Page 1 of 1
Mechanical Exhaust System Identification:				
Location: <u>UPPER ROOF - 2 SOUTH END AVE</u>		Area Served:		
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>				
System Components		Surface Dust/Debris Present?	WTC Dust Present?	Component
[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]				• not present • not found • inaccessible
Exhaust air outlet: Location:				
Accessible for inspection? <u>Y</u> <u>N</u> (explain):				
- louvers, grates and/or screens		<u>Y</u>	<u>N</u>	
- outside air duct		<u>Y</u>	<u>N</u>	
- outside air damper(s)		<u>Y</u>	<u>N</u>	
Exhaust fan unit:		<u>Y</u>	<u>N</u>	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		<u>Y</u>	<u>N</u>	
- blower housing acoustical lining		<u>Y</u>	<u>N</u>	
- vibration collars				
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>				<u>NP</u>
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> flex-duct wood				
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		<u>Y</u>	<u>N</u>	
- Accessible turning vanes Est. total qty <u>9</u> No. locations inspected <u>0</u>				<u>I</u>
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				<u>NP</u>
Other (specify):				<u>I</u>
Other Information:				
<u>THE FAN IS NOT WORKING.</u>				

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST # 4			
Location: UPPER ROOF - 2 SOUTH END AVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	Y
Exhaust fan unit:		Y	Y
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	Y
- blower housing acoustical lining		Y	Y
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u> Specify type (circle): ☐ steel ☒ fibrous glass lined metal ☒ masonry ☐ fibrous glass board ☐ flex-duct ☐ wood		Y	Y
- Accessible in-line fire dampers Est. total qty <u>09</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>09</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- CLEANING IS RECOMMENDED FOR WTC RELATED DUST.
- THE MECHANICAL COMPONENTS & ITS ASSOCIATED DUCTS NEEDED TO BE CLEAN.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:				
Location:		Area Served:		
MECHANICAL EXHAUST #5				
UPPER ROOF - 2 SOUTH END AVE				
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N				
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet:	Location:			
Accessible for inspection?	☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N	
- blower housing acoustical lining		Y	N	
- vibration collars				
Exhaust air distribution:				NP
- Exhaust air ducts	Est. total in ft <u>100</u> No. locations inspected <u>02</u>			
Specify type (circle):	metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board			
	flex-duct wood	Y	N	
- Accessible in-line fire dampers	Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes	Est. total qty <u>9</u> No. locations inspected <u>0</u>			NP
- Exhaust air grilles	Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):				
Other Information:				

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ASSOCIATED DUCTS.

- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:		Area Served:		
MECHANICAL EXHAUST #6 (DRYER EXHAUST)				
Location: UPPER ROOF - 2 SOUTH END AVE				
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N				
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet:	Location:			
Accessible for inspection?	☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N	
- blower housing acoustical lining		Y	N	
- vibration collars				
Exhaust air distribution:				NP
- Exhaust air ducts	Est. total in ft 100 No. locations inspected 02			
Specify type (circle):	steel <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood	Y	N	
- Accessible in-line fire dampers	Est. total qty 9 No. locations inspected 0			I
- Accessible turning vanes	Est. total qty _____ No. locations inspected _____			NP
- Exhaust air grilles	Est. total qty 9 No. locations inspected 0			I
Other (specify):				
Other Information:				

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED, IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST # 7

Location:

UPPER ROOF - 2 SOUTH END AVE

Area Served:

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? ☒ Y ☐ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 100 No. locations inspected 02Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 9 No. locations inspected 0

Other (specify):

Other Information:

THE FAN IS NOT WORKING

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.

- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
Location:		Area Served:	
MECHANICAL EXHAUST #8			
UPPER ROOF - 2 SOUTH END AVE			
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:		Y	N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators			
- blower housing acoustical lining		Y	N
- vibration collars		Y	N
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>			NP
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood			
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		Y	N
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			I
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			NP
Other (specify):			I
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification:

Location:

MECHANICAL EXHAUST # 9

Area Served:

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:

Location:

Accessible for inspection? ☒ Y ☐ N (explain):Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 100 No. locations inspected 02Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 9 No. locations inspected 0Other (specify): No. locations inspected 0

Other Information:

- THE FAN IS NOT WORKING.

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.

- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

EY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST #10			
Location: UPPER ROOF - 2 SOUTH END AVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N			
System Components		Surface Dust/Debris Present?	WTC Dust Present?
[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]			Component • not present • not found • inaccessible
Exhaust air outlet:	Location:		
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:		Y	N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustic lining		Y	N
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft 100 No. locations inspected 02			
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood			
- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0		Y	N
- Accessible turning vanes Est. total qty No. locations inspected			I
- Exhaust air grilles Est. total qty 9 No. locations inspected 0			NP
Other (specify):			I
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form		Page 1 of 1	
Mechanical Exhaust System Identification:			
Location: <u>MECHANICAL EXHAUST # 11</u>		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:		Y	N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators			
- blower housing acoustic lining		Y	N
- vibration collars		Y	N
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>			NP
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood			
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		Y	N
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			I
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			NP
Other (specify):			I
Other Information:			

General Impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification: MECHANICAL EXHAUST # 12			
Location: UPPER ROOF - 2 SOUTH END AVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	Y
- outside air duct		Y	Y
- outside air damper(s)		Y	Y
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	Y
- blower housing acoustical lining		Y	Y
- vibration collars			
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>		Y	Y
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>			
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED COMPONENTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST. THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS NEED TO BE CLEANED

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:
MECHANICAL EXHAUST # 12

Location: UPPER ROOF - 2 SOUTH END AVE **Area Served:**

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N

System Components
 [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:	Location:	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators				
- blower housing acoustic lining		Y	N	
- vibration collars		Y	N	
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>				NP
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood				
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		Y	N	
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				I
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				NP
Other (specify):				I
Other Information:				

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
Location:		Area Served:	
MECHANICAL EXHAUST # 14			
UPPER ROOF - 2 SOUTH END AVE			
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:		Y	N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u> Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood		Y	N
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u>9</u> No. locations inspected <u>0</u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:				
Location: <u>MECHANICAL EXHAUST # 15</u>		Area Served:		
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N				
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:				
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators				
- blower housing acoustical lining		Y	N	
- vibration collars		Y	N	
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>				NP
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood				
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		Y	N	
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				I
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				NP
Other (specify):				I
Other Information:				

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification: MECHANICAL EXHAUST #16			
Location: UPPER ROOF - 2 SOUTH END AVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	Y
- outside air duct		Y	Y
- outside air damper(s)		Y	Y
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vases, in-line noise attenuators		Y	Y
- blower housing acoustic lining		Y	Y
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total ln ft 100 No. locations inspected 02			
Specify type (circle): metal <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		Y	N
- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0			I
- Accessible turning vanes Est. total qty 9 No. locations inspected 0			NP
- Exhaust air grilles Est. total qty 9 No. locations inspected 0			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

WTC DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.

CLEANING IS REQUIRED FOR WTC RELATED DUST.

THE MECHANICAL COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS NEED TO BE CLEANED

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST # 17			
Location: UPPER ROOF - 2 SOUTH END AVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component
Accessible for inspection: ☒ Y ☐ N (explain):		Y	Y
- louvers, grates and/or screens		Y	Y
- outside air duct		Y	Y
- outside air damper(s)		Y	Y
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	Y
- blower housing acoustical lining		Y	Y
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft. 100 No. locations inspected 02			
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood		Y	N
- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0			I
- Accessible turning vanes Est. total qty No. locations inspected			NP
- Exhaust air grilles Est. total qty 9 No. locations inspected 0			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

WTC DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.

CLEANING IS REQUIRED FOR WTC RELATED DUST.

THE MECHANICAL COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS NEED TO BE CLEANED

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

MECHANICAL EXHAUST SYSTEM Visual Inspection Form		Page 1 of 1	
Mechanical Exhaust System Identification:			
Location: <u>MECHANICAL EXHAUST #18</u>		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N			
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:		Y	N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators			
- blower housing acoustic lining		Y	N
- vibration collars		Y	N
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>			
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>inaccessory</u> fibrous glass board flex-duct wood			
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		Y	N
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			I
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			NP
Other (specify):			I
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form Page 1 of 1

Mechanical Exhaust System Identification:
MECHANICAL EXHAUST # 19

Location: UPPER ROOF - 2 SOUTH END AVE **Area Served:** _____

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components
 [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:	Location:	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators				
- blower housing acoustic lining		Y	N	
- vibration collars		Y	N	
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>				NP
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood				
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		Y	N	
- Accessible turning vanes Est. total qty _____ No. locations inspected _____				I
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				NP
Other (specify): _____				I
Other Information:				

THE FAN IS NOT WORKING

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:
MECHANICAL EXHAUST #20

Location: **UPPER ROOF - 2 SOUTH END AVE** **Area Served:**

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N

System Components
 [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:	Location:	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators				
- blower housing acoustical lining		Y	N	
- vibration collars		Y	N	
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>				NP
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood				
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		Y	N	
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				I
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				NP
Other (specify):				I
Other Information:				

THE FAN IS NOT WORKING

General Impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

EX: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form Page 1 of 1

Mechanical Exhaust System Identification:
MECHANICAL EXHAUST # 21

Location: UPPER ROOF - 2 SOUTH END AVE **Area Served:** _____

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components
 [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:	Location:	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N	
- blower housing acoustical lining		Y	N	
- vibration collars				
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>				NP
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood		Y	N	
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>				I
- Accessible turning vanes Est. total qty _____ No. locations inspected _____				NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				I
Other (specify):				
Other Information:				

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST # 22

Location:

UPPER ROOF - 2 SOUTH END AVE

Area Served:

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:	Location:	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators				
- blower housing acoustical lining		Y	N	
- vibration collars		Y	N	
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>				NP
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood				
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		Y	N	
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				I
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				NP
Other (specify):				I
Other Information:				

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form		Page 1 of 1	
Mechanical Exhaust System Identification:			
Location: <u>MECHANICAL EXHAUST # 23</u>		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:		Y	N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- vibration collars		Y	N
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>			
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood		Y	N
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u>9</u> No. locations inspected <u>0</u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:
MECHANICAL EXHAUST # 24

Location: **UPPER ROOF - 2 SOUTH END AVE** **Area Served:**

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components
 [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:	Location:	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators				
- blower housing acoustical lining		Y	N	
- vibration collars		Y	N	
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>				NP
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood				
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		Y	N	
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				I
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				NP
Other (specify):				I
Other Information:				

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.

- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

EX: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST #25

Location:

UPPER ROOF - @ SOUTH END DVE

Area Served:

Associated mechanical room: clean ✓Y___N___ dry ✓Y___N___ stored chemicals/refuse ___Y___✓N___**System Components**

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ✓N___ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 100 No. locations inspected 02Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board

flex-duct wood

- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0

- Accessible turning vanes Est. total qty ___ No. locations inspected ___

- Exhaust air grilles Est. total qty 9 No. locations inspected 0

Other (specify):

Other Information:

General impression (Indicate recommendations for cleaning based on finding of WTC dust):

- WTC DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.

- CLEANING IS REQUIRED FOR WTC RELATED DUST. THE MECHANICAL COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS NEED TO BE CLEANED.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST #26			
Location: UPPER ROOF - @ SOUTH END JVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens		Y	Y
- outside air duct		Y	Y
- outside air damper(s)		Y	Y
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	Y
- blower housing acoustical lining		Y	Y
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft 100 No. locations inspected 02			
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood		Y	Y
- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0			I
- Accessible turning vanes Est. total qty No. locations inspected			NP
- Exhaust air grilles Est. total qty 9 No. locations inspected 0			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST. THE MECHANICAL COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS NEED TO BE CLEANED.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form				Page 1 of 1
Mechanical Exhaust System Identification:				
Location: <u>MECHANICAL EXHAUST # 27</u>		Area Served:		
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N				
System Components		Surface Dust/Debris Present?	WTC Dust Present?	Component
[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]				• not present • not found • inaccessible
Exhaust air outlet:	Location:			
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators				
- blower housing acoustic lining		Y	N	
- vibration collars		Y	N	
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u>				NP
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board				
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>		Y	N	
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				I
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				NP
Other (specify):				I
Other Information:				

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST #28			
Location:		Area Served:	
UPPER ROOF - @ SOUTH END AVE			
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):	Y	Y	
- louvers, grates and/or screens	Y	Y	
- outside air duct	Y	Y	
- outside air damper(s)	Y	Y	
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining	Y	Y	
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total ln ft <u>100</u> No. locations inspected <u>02</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>	Y	Y	
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.

- CLEANING IS REQUIRED FOR WTC RELATED DUST. THE MECHANICAL COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS NEED TO BE CLEANED.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST # 29			
Location: UPPER ROOF - 2 SOUTH END AVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? ☒ N (explain):	Y	Y	
- louvers, grates and/or screens	Y	Y	
- outside air duct	Y	Y	
- outside air damper(s)	Y	Y	
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining	Y	Y	
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>02</u> Specify type (circle): metal <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	Y	
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected			I
- Accessible turning vanes Est. total qty No. locations inspected			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS OF THE FAN, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- THE MECHANICAL COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS NEED TO BE CLEANED

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST # 30

Location: UPPER ROOF - 2 SOUTH END AVE

Area Served:

Associated mechanical room clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuge ☒ Y ☐ N

System Components

(NOTE: If component is not present (NP), not found (NF) or inaccessible (I) please indicate in last column)

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection ☒ Y ☐ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly including blower wheel, housing, air vases, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 100 No. locations inspected 02

Specify type (circle): metal fibrous glass lined metal asbestos fibrous glass board

flex-duct wood

- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0

- Accessible turning vanes Est. total qty No. locations inspected

- Exhaust air grilles Est. total qty 9 No. locations inspected 0

Other (specify):

Other Information:

General Impression (include recommendations for cleaning based on finding of WTC dust):

- WTC DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.

- CLEANING IS REQUIRED FOR WTC RELATED DUST.

THE MECHANICAL COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS NEED TO BE CLEANED

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN # 31

Location:

LOWER ROOF - 2 SOUTH END AVE

Area Served:

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? ☒ Y ☐ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 20 No. locations inspected 01Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 2 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 2 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:		Page 1 of 1	
MECHANICAL EXHAUST FAN # 32			
Location: LOWER ROOF - 2 SOUTH END AVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:		Y	N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft 20 No. locations inspected 01			
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			
- Accessible in-line fire dampers Est. total qty 2 No. locations inspected 0		Y	N
- Accessible turning vanes Est. total qty No. locations inspected			I
- Exhaust air grilles Est. total qty 2 No. locations inspected 0			NP
Other (specify):			I
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

MECHANICAL EXHAUST SYSTEM VISUAL INSPECTION FORM

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN # 33

Location:

LOWER ROOF - 2 SOUTH END AVE

Area Served:

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? ☒ Y ☐ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft. 20 No. locations inspected 01Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 2 No. locations inspected 0- Accessible turning vanes Est. total qty 2 No. locations inspected 0- Exhaust air grilles Est. total qty 2 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:				
MECHANICAL EXHAUST FAN # 34				
Location: LOWER ROOF - 2 SOUTH END AVE		Area Served:		
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N				
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:				
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N	
- blower housing acoustical lining		Y	N	
- vibration collars				NP
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>20</u> No. locations inspected <u>01</u>				
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N	
- Accessible in-line fire dampers Est. total qty <u>2</u> No. locations inspected <u>0</u>				I
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				NP
- Exhaust air grilles Est. total qty <u>2</u> No. locations inspected <u>0</u>				I
Other (specify):				
Other Information:				

General Impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

MECHANICAL Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:		Page 1 of 1	
Location: <u>MECHANICAL EXHAUST FAN # 35</u>		Area Served:	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet:	Location:		Component • not present • not found • inaccessible
Accessible for inspection? <u>Y</u> <u>N</u> (explain):			
- louvers, grates and/or screens		<u>Y</u>	<u>N</u>
- outside air duct		<u>Y</u>	<u>N</u>
- outside air damper(s)		<u>Y</u>	<u>N</u>
Exhaust fan unit:		<u>Y</u>	<u>N</u>
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		<u>Y</u>	<u>N</u>
- blower housing acoustical lining		<u>Y</u>	<u>N</u>
- vibration collars		<u>Y</u>	<u>N</u>
Exhaust air distribution:			<u>NP</u>
- Exhaust air ducts Est. total in ft <u>20</u> No. locations inspected <u>01</u>			
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			
- Accessible in-line fire dampers Est. total qty <u>2</u> No. locations inspected <u>0</u>		<u>Y</u>	<u>N</u>
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			<u>I</u>
- Exhaust air grilles Est. total qty <u>2</u> No. locations inspected <u>0</u>			<u>NP</u>
Other (specify):			<u>I</u>
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:				
MECHANICAL EXHAUST FAN #36				
Location:		Area Served:		
LOWER ROOF - 2 SOUTH END AVE				
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N				
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet:	Location:			
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N	
- blower housing acoustical lining		Y	N	
- vibration collars				NP
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>20</u> No. locations inspected <u>01</u>				
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood				
- Accessible in-line fire dampers Est. total qty <u>2</u> No. locations inspected <u>0</u>		Y	N	
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				I
- Exhaust air grilles Est. total qty <u>2</u> No. locations inspected <u>0</u>				NP
Other (specify):				I
Other Information:				

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST FAN # 37			
Location:		Area Served:	
LOWER ROOF - 2 SOUTH END AVE			
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens	Y	N	
- outside air duct	Y	N	
- outside air damper(s)	Y	N	
Exhaust fan unit:	Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft. 20 No. locations inspected 01			
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			
- Accessible in-line fire dampers Est. total qty 2 No. locations inspected 0	Y	N	
- Accessible turning vanes Est. total qty No. locations inspected			I
- Exhaust air grilles Est. total qty 2 No. locations inspected 0			NP
Other (specify):			I
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:		Page 1 of 1	
MECHANICAL EXHAUST FAN # 38			
Location:		Area Served:	
LOWER ROOF - 2 SOUTH END AVE			
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet:	Location:		Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:		Y	N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft. 20 No. locations inspected 01			
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			
- Accessible in-line fire dampers Est. total qty 2 No. locations inspected 0		Y	N
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			I
- Exhaust air grilles Est. total qty 2 No. locations inspected 0			NP
Other (specify):			I
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

MECHANICAL EXHAUST SYSTEM Visual Inspection Form		Page 1 of 1	
Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST FAN # 39			
Location:		Area Served:	
LOWER ROOF - 2 SOUTH END AVE			
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:		Y	N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>20</u> No. locations inspected <u>01</u>			
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			
- Accessible in-line fire dampers Est. total qty <u>2</u> No. locations inspected <u>0</u>		Y	N
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			I
- Exhaust air grilles Est. total qty <u>2</u> No. locations inspected <u>0</u>			NP
Other (specify):			I
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form		Page 1 of 1	
Mechanical Exhaust System Identification: MECHANICAL EXHAUST FAN # 40			
Location: LOWER ROOF - 2 SOUTH END AVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		☒ Y	☐ N
- outside air duct		☒ Y	☐ N
- outside air damper(s)		☒ Y	☐ N
Exhaust fan unit:		☒ Y	☐ N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		☒ Y	☐ N
- blower housing acoustical lining		☒ Y	☐ N
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>20</u> No. locations inspected <u>01</u>			
Specify type (circle): ☒ metal ☐ fibrous glass lined metal ☐ masonry ☐ fibrous glass board ☐ flex-duct ☐ wood			
- Accessible in-line fire dampers Est. total qty <u>2</u> No. locations inspected <u>0</u>		☒ Y	☐ N
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			I
- Exhaust air grilles Est. total qty <u>2</u> No. locations inspected <u>0</u>			NP
Other (specify):			I
Other Information:			

General Impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:				
MECHANICAL EXHAUST FAN # 41				
Location: LOWER ROOF - 2 SOUTH END AVE		Area Served:		
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N				
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:				
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N	
- blower housing acoustical lining		Y	N	
- vibration collars				NP
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft <u>20</u> No. locations inspected <u>01</u>				
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood				
- Accessible in-line fire dampers Est. total qty <u>2</u> No. locations inspected <u>0</u>		Y	N	
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				I
- Exhaust air grilles Est. total qty <u>2</u> No. locations inspected <u>0</u>				NP
Other (specify):				I
Other Information:				

THE FAN IS NOT WORKING

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

MECHANICAL EXHAUST SYSTEM Visual Inspection Form		Page 1 of 1	
Mechanical Exhaust System Identification: MECHANICAL EXHAUST FAN # 42			
Location: LOWER ROOF - 2 SOUTH END AVE		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:		Y	N
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>20</u> No. locations inspected <u>01</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			
- Accessible in-line fire dampers Est. total qty <u>2</u> No. locations inspected <u>0</u>		Y	N
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			I
- Exhaust air grilles Est. total qty <u>2</u> No. locations inspected <u>0</u>			NP
Other (specify):			I
Other Information:			
THE FAN IS NOT WORKING			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN # 43

Location:

LOWER ROOF - 2 SOUTH END AVE

Area Served:

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:	Location:	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Accessible for inspection? ☒ Y ☐ N (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Exhaust fan unit:		Y	N	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators				
- blower housing acoustical lining		Y	N	
- vibration collars		Y	N	
Exhaust air distribution:				NP
- Exhaust air ducts Est. total in ft <u>20</u> No. locations inspected <u>01</u>				
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood				
- Accessible in-line fire dampers Est. total qty <u>2</u> No. locations inspected <u>0</u>		Y	N	
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				I
- Exhaust air grilles Est. total qty <u>2</u> No. locations inspected <u>0</u>				NP
Other (specify):				I
Other Information:				

THE FAN IS NOT WORKING

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE MECHANICAL COMPONENTS AND ITS ASSOCIATED DUCTS.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.4 Passive Shaft/Duct Visual Inspection Form

Page 1 of 1

Passive Shaft/Duct Identification: FRESH AIR INTAKE FOR THE ELEVATOR ROOM.			
Location: ELEVATOR ROOM		Area Served: ELEVATOR ROOM	
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Outside air intake (if servicing supply air): Location:			Component • not present • not found • inaccessible
Accessible for inspection? Y ☒ N ☐ (explain):		Y	N
- louvers, grates, screens or weather cap		Y	N
Exhaust outlet/louver (if servicing exhaust air): Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates, screens or weather cap		Y	N
Supply air distribution (if servicing supply air):			
- Supply air outlet(s) Est. total qty <u>1</u> No. locations inspected <u>1</u>			
Specify shaft substrate (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N
- Accessible fire dampers: Est. total qty _____ No. locations inspected _____			NP
- Pipes/mechanical equipment, etc. located in shaft			NP
Return air distribution (if servicing exhaust air):			
- Exhaust air inlet(s) Est. total qty <u>1</u> No. locations inspected <u>1</u>			
Specify shaft substrate (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N
- Accessible fire damper: Est. total qty _____ No. locations inspected _____			NP
- Pipes/mechanical equipment, etc. located in shaft			NP
Other (specify):			
Other Information:			
General impression (indicate recommendations for cleaning based on finding of WTC dust): - NO WTC RELATED DUST WAS OBSERVED IN THE DUCT. - NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:

HVAC / HALLWAYS

Location:

ROOF - 2 SOUTH END AVE

Area Served:

HALLWAYS - NORTH SECTION

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Outside air intake:

Location:

Accessible for inspection? Y ✓ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Air handling unit:

- outside air mixing chamber

- filter rack(s)

- filter media

- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- pre-heat coils

- heating coils

- cooling coils

- re-heat coils

- condensate drain pan

- supply air plenum

- supply air plenum damper(s)

- vibration collars

Supply air distribution:

- Supply air ducts Est. total in ft 150 No. locations inspected 03Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board

flex duct wood

- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - In-line reheat/cooling coils Est. total qty No. locations inspected - Supply air diffusers Est. total qty 9 No. locations inspected 3

Return air distribution:

- Return air ducts Est. total in ft 25 No. locations inspected 2Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board

flex duct wood

- Return air plenum Est. total RA plenum areas 1 No. locations inspected 1- Return air plenum damper: Est. total qty No. locations inspected - Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Return air grilles Est. total qty 1 No. locations inspected 1

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components:

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Other (specify):

Surface
Dust/
Debris
Present?

WTC
Dust
Present?

Component
• not present
• not found
• inaccessible

Other Information:

Filter loading (light, moderate, heavy): LIGHT

☐ Abraded/delaminated acoustical lining

☐ Filter bypass (describe)

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:

SOUTH HALLWAY HVAC

Location:

ROOF-2 SOUTH END AVE

Area Served:

HALLWAYS- SOUTH SECTION.

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Outside air intake: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Air handling unit:

- outside air mixing chamber

- filter rack(s)

- filter media

- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- pre-heat coils

- heating coils

- cooling coils

- re-heat coils

- condensate drain pan

- supply air plenum

- supply air plenum damper(s)

- vibration collars

Supply air distribution:

- Supply air ducts Est. total in ft 150 No. locations inspected 3Specify type (circle): metal fibrous glass lined metal masonry fibrous glass boardflex-duct wood- Accessible in-line fire dampers Est. total qty 9 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - In-line reheat/cooling coils Est. total qty No. locations inspected - Supply air diffusers Est. total qty 9 No. locations inspected 2

Return air distribution:

- Return air ducts Est. total in ft 30 No. locations inspected 2Specify type (circle): metal fibrous glass lined metal masonry fibrous glass boardflex-duct wood- Return air plenum Est. total RA plenum areas 1 No. locations inspected 1- Return air plenum damper: Est. total qty No. locations inspected - Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Return air grilles Est. total qty 1 No. locations inspected 1

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: If component: not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>LIGHT</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): - NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM. - NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
Location: <u>HVAC</u>		Area Served: <u>2nd FLOOR HALLWAY - TOWN HOUSES</u>	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Outside air intake:	Location:		Component • not present • not found • inaccessible
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Air handling unit:			NP
- outside air mixing chamber			
- filter rack(s)		Y	N
- filter media		Y	N
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- pre-heat coils		Y	N
- heating coils			NP
- cooling coils		Y	N
- re-heat coils		Y	N
- condensate drain pan			NP
- supply air plenum		Y	N
- supply air plenum damper(s)		Y	N
- vibration collars		Y	N
Supply air distribution:			NP
- Supply air ducts Est. total in ft <u>15</u> No. locations inspected <u>01</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>		Y	N
- Accessible in-line fire dampers Est. total qty <u>2</u> No. locations inspected <u>0</u>		Y	N
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			I
- In-line reheat/cooling coils Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Supply air diffusers Est. total qty <u>2</u> No. locations inspected <u>2</u>		Y	N
Return air distribution:			
- Return air ducts Est. total in ft <u>05</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>		Y	N
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>		Y	N
- Return air plenum damper Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Return air grilles Est. total qty <u> </u> No. locations inspected <u> </u>		Y	N

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?

WTC
Dust
Present?

Component
• not present
• not found
• inaccessible

Other (specify):

Other Information:

Filter loading (light, moderate, heavy): LIGHT

☐ Abraded/delaminated acoustical lining

☐ Filter bypass (describe)

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:

A/C ELEVATOR ROOM

Location:

UPPER BULKHEAD

Area Served:

ELEVATOR ROOM

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Outside air intake:

Location:

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessibleAccessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

Y

N

- outside air duct

Y

N

- outside air damper(s)

Y

N

Air handling unit:

Y

N

- outside air mixing chamber

- filter rack(s)

Y

N

- filter media

Y

N

- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators

Y

N

- blower housing acoustical lining

Y

N

- pre-heat coils

Y

N

- heating coils

NP

- cooling coils

NP

- re-heat coils

Y

N

- condensate drain pan

NP

- supply air plenum

Y

N

- supply air plenum damper(s)

Y

N

- vibration collars

NP

NP

Supply air distribution:

- Supply air ducts Est. total in ft 4 No. locations inspected 2Specify type (circle): metal fibrous glass lined metal masonry fibrous glass boardflex-duct wood

Y

N

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

NP

- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____

NP

- Supply air diffusers Est. total qty 2 No. locations inspected 2

NP

Return air distribution:

- Return air ducts Est. total in ft 4 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass boardflex-duct wood

Y

N

- Return air plenum Est. total RA plenum areas 1 No. locations inspected 1

Y

N

- Return air plenum damper Est. total qty _____ No. locations inspected _____

Y

N

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

NP

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

NP

- Return air grilles Est. total qty 1 No. locations inspected 1

NP

Y

N

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components

[NOTE: If component is not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Other (specify):

Surface
Dust/
Debris
Present?

WTC
Dust
Present?

Component
• not present
• not found
• inaccessible

Other Information:

Filter loading (light, moderate, heavy): LIGHT

☐ Abraded/delaminated acoustical lining

☐ Filter bypass (describe)

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:

A/C GYM

Location:

GROUND FLOOR - GYM - 2 SOUTH END AVE

Area Served:

GYM

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Outside air intake:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Air handling unit:

- outside air mixing chamber

- filter rack(s)

- filter media

- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- pre-heat coils

- heating coils

- cooling coils

- re-heat coils

- condensate drain pan

- supply air plenum

- supply air plenum damper(s)

- vibration collars

Supply air distribution:

- Supply air ducts Est. total in ft 300No. locations inspected 3Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board

flex-duct wood

- Accessible in-line fire dampers

Est. total qty

No. locations inspected

- Accessible turning vanes

Est. total qty 3No. locations inspected 0

- In-line reheat/cooling coils

Est. total qty

No. locations inspected

- Supply air diffusers

Est. total qty 6No. locations inspected 6

Return air distribution:

- Return air ducts Est. total in ft 100No. locations inspected 2Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board

flex-duct wood

- Return air plenum

Est. total RA plenum areas 1No. locations inspected 1

- Return air plenum damper

Est. total qty

No. locations inspected

- Accessible in-line fire dampers

Est. total qty

No. locations inspected

- Accessible turning vanes

Est. total qty

No. locations inspected

- Return air grilles

Est. total qty 2No. locations inspected 2

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column:]			
Other (specify):			
Other Information:			
Filter loading (ligh , moderate, heavy): <u>LIGHT</u> ☐ Abraded/delan inated acoustical lining ☐ Filter bypass (c scribe)			
General impression (in licate recommendations for cleaning based on finding of WTC dust):			
- NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM. - NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; IF = not found; I = inaccessible; U = unknown			

4.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:

A/C PLAY ROOM

Location:

GROUND FLOOR - PLAY ROOM - 250 W 16th Ave

Area Served:

PLAY ROOM

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Outside air intake:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Air handling unit:

- outside air mixing chamber

- filter rack(s)

- filter media

- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators

- blower housing acoustic lining

- pre-heat coils

- heating coils

- cooling coils

- re-heat coils

- condensate drain pan

- supply air plenum

- supply air plenum damper(s)

- vibration collars

Supply air distribution:

- Supply air ducts Est. total in ft 200 No. locations inspected 02Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty 3 No. locations inspected 0

- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____

- Supply air diffusers Est. total qty 8 No. locations inspected 8

Return air distribution:

- Return air ducts Est. total in ft 50 No. locations inspected 2Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Return air plenum Est. total RA plenum areas 1 No. locations inspected 1

- Return air plenum damper: Est. total qty _____ No. locations inspected _____

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

- Return air grilles Est. total qty 2 No. locations inspected 2

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column a] Other (specify):	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other Information:			
Filter loading (ligh , moderate, heavy): <u>LIGHT</u> ☐ Abraded/delan inated aoustical lining ☐ Filter bypass (c scribe)			
General impression (in licate recommendations for cleaning based on finding of WTC dust): -NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM. -NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; IF = not found; I = inaccessible; U = unknown			

Ventilation System Visual Inspection Form

Page 1 of 2

Location:

A/C LOBBY

GROUND FLOOR GYM AREA 2 SOUTH END AVE

Area Served:

LOBBY

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Outside air intake:

Location:

Accessible for inspection? Y ☐ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Air handling unit:

- outside air mixing chamber

- filter rack(s)

- filter media

- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- pre-heat coils

- heating coils

- cooling coils

- re-heat coils

- condensate drain pan

- supply air plenum

- supply air plenum damper(s)

- vibration collars

Supply air distribution:

- Supply air ducts Est. total in ft 400 No. locations inspected 05Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty 2 No. locations inspected 0- In-line reheat/cooling coils Est. total qty No. locations inspected - Supply air diffusers Est. total qty 11 No. locations inspected 3

Return air distribution:

- Return air ducts Est. total in ft 2 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Return air plenum Est. total RA plenum areas 1 No. locations inspected 1- Return air plenum damper Est. total qty No. locations inspected - Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Return air grilles Est. total qty 1 No. locations inspected 1

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component is not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>LIGHT</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): — WTC RELATED DUST WAS FOUND IN THE RETURN INTAKE. — CLEANING IS RECOMMENDED FOR THE ENTIRE SYSTEM WHICH SERVES THE LOBBY.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

HVAC Consulting Services

APPENDIX 13

Invoice #1

Contract No. CT 826-200300-19825 OCA No. 0000425814



ATHENICA
ENVIRONMENTAL SERVICES INC.

45-09 Greenpoint Avenue
Long Island City, N.Y. 11104

Tel (718) 784-7490
Fax (718) 784-4085

January 29, 2003

United States Environmental Protection Agency (USEPA)
Region 2
290 Broadway
New York, NY 10007-1866

Attn: Mr. Eric Wilson-Quadrant Coordinator
Tel# (212) 637-3150
Fax# (212) 637-3105

Re: 300 Albany street, Manhattan, NY
Evaluation Report for Building HVAC & Environmental Inspection for WTC Related Dust

Dear Mr. Wilson:

Athenica Environmental Services, Inc. and Duct Dusters performed Building HVAC & Environmental inspections on January 9 and January 23, 2003.

Qualifications:

Duct Dusters (DD) is a NADCA certified corporation. Mr. Tony Gallo and Mr. Matt Provenzano of DD performed the inspections of the HVAC and exhaust systems in conjunction with New York State certified Asbestos Inspector Mr. Vasilis Bellos and Mr. Alex Kazakov of Athenica Environmental Services, Inc (AES) and Matthew Schoen of USEPA.

Background:

300 Rector Place is a nine story building with 108 residential units managed by AKAM (212) 986-0001. The manager of the building is Mr. Don Moskovic at 212-986-0001 ext 155. Mr. Ray Perez at 212-945-3524 is the superintendent of the building. He accompanied us during our inspection.

Post 9/11 Maintenance History:

Post 9/11 maintenance activity reports were available at the time of our inspection, on January 23, 2003. The superintendent of the building Mr. Ray Perez at 212-945-3524 provided us with a copy of the report. According to Mr. Perez on October 10, 2001 Donnelly Mechanical cleaned the HVAC systems. On October 29, 2001 Sani-Chute Environmental Services, Inc., cleaned the fans on the roof and associated ducts.

300 Albany street, Manhattan, NY
January 29, 2003

Inspection Details:

As part of the survey, the Mechanical and the Environmental Professionals inspected the following HVAC system types.

- A. A total of eighteen (18) mechanical exhaust fans serving the kitchens and bathrooms located on the main roof and one (1) passive shaft exhaust located on the main roof.
- B. One (1) AC window unit located in the elevator room and serves the elevator room.
- C. One (1) McQuay HV unit is located in the machine roof of the 1st fl behind the mailroom, serves the southeast side of the hallways on the 2nd floor through the 9th floor. This unit has not been functioning for the last 15 years according to Mr. Ray Perez (superintendent of the bldg).
- D. One (1) McQuay HV unit is located on the main floor in the pump room serves the northwest side of the hallways from 2nd floor to 9th floor.
- E. One (1) Skill Aire AC split unit is located in the pump room, serves the lobby.
- F. One (1) AC unit is located in the room behind the mailroom and hanging from the ceiling, serves the vestibule by the mailroom.
- G. One (1) HV self-contained unit is located at the north entrance of the lobby serves the lobby.
- H. One (1) HV self-contained unit is located at the south entrance of the lobby serves the lobby.

All identification data and visual inspections are documented in the attached checklists.

Summary of Findings:

The mechanical exhaust fans # 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18 (as they are numbered in the evaluation forms), and their associated components are covered with WTC related dust.

One (1) McQuay HV unit located on the main floor in the pump room. Heavy accumulation of WTC related dust was observed in the system. A total of 100 linear feet of duct needs to be cleaned.

One (1) Skill Aire AC unit located in the pump room. WTC related dust found in the system. A total of 70 linear feet of duct needs to be cleaned.

All the other systems inspected appear to be free of WTC dust.

All the findings are documented in the attached evaluation forms.

Scope of Work:

Clean the mechanical exhaust fans # 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,13, 14, 15, 16, 17, 18 (as they are numbered in the evaluation forms), and their associated ducts. The fans are located on the main roof. A total of approximately 2,000.00 linear feet of duct needs to be cleaned.

One (1) McQuay HV unit and its associated ducts. A total of 100 linear feet of duct needs to be cleaned.

One (1) Skill Aire AC unit and its associated ducts. A total of 70 linear feet of duct needs to be cleaned.

Please feel free to contact me should you require any further information.

Sincerely,

Vasilis Bellos



Director of Operations

Attachments: 1) Ventilation System Evaluation forms
2) Maintenance activity reports

Please complete this form in accordance with instructions in the accompanying guidance document

Part 1.0 General Information

Date of evaluation: <u>1/9/03</u>	Building contact name and phone:
Evaluation team (list name and affiliation):	
<u>TONY GALLO - DUCT DUSTERS</u>	
	(Environmental professional)
	(HVAC professional)
Building address:	Type of Facility (check all that apply):
<u>300 ALBANY</u>	☒ Residential
<u>NEW YORK N.Y.</u>	☐ Multi-use
	Other (describe)
Date of construction:	
Number of residential units: <u>103</u>	Number of floors: <u>9</u>
Prior inspection report/maintenance records available for review?:	
<u>NO</u>	
Other comments	
Ventilation system types (check all that apply and indicate total no. of units)	
Central ventilation system	Mechanical exhaust system
Est. no. of units <u>07</u>	Est. no. of units <u>18</u>
Mechanical make-up air system	Passive shaft/duct
Est. no. of units	Est. no. of units <u>1</u>
Other (describe)	

I certify that to the best of my knowledge, the information and observations recorded on this form including all attachments are a true and accurate representation of site conditions.

Ventilation System (HVAC) Evaluator

Date 1/9/03

Part 2.0 Visual Inspection Forms

Use the attached forms to document visual inspections. Complete the forms in accordance with instructions in the accompanying guidance document.

Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #1

Location:

MAIN ROOF

Area Served:

LAUNDRY ROOM

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ✓ N (explain):

- louvers, grates and/or screens

Y

N

- outside air duct

Y

N

- outside air damper(s)

Y

N

Exhaust fan unit:

Y

N

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

Y

N

- blower housing acoustical lining

Y

N

- vibration collars

Y

N

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 100 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

Y

N

NP

- Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 1 No. locations inspected 1

Other (specify):

Y

N

NP

NP

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

NO WTC related dust was observed
 The unit covered with laundry lint.
 NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:		Visual Inspection Form		Page 1 of 1
Location: <u>MAIN ROOF - 300 ALBANY STREET</u>		Area Served:		
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>				
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:				
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):				
- louvers, grates and/or screens				
- outside air duct		<u>Y</u>	<u>Y</u>	
- outside air damper(s)		<u>Y</u>	<u>Y</u>	
Exhaust fan unit:		<u>Y</u>	<u>Y</u>	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		<u>Y</u>	<u>Y</u>	
- blower housing acoustical lining				
- vibration collars				NP
Exhaust air distribution:				NP
- Exhaust air ducts Est. total ln ft <u>100</u> No. locations inspected <u>1</u>				
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>		<u>Y</u>	<u>Y</u>	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>				NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				I
Other (specify):				
Other Information:				

General Impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

MECHANICAL Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #3

Location:

MAIN ROOF - 300 ALBANY STREET

Area Served:

Associated mechanical room: clean ☐ Y ☐ N dry ☐ Y ☐ N stored chemicals/refuse ☐ Y ☐ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 100 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

- Exhaust air grilles Est. total qty 9 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

4.4 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST FAN # 4			
Location:		Area Served:	
MAIN ROOF - 300 ALBANY STREET			
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens		<u>Y</u>	<u>Y</u>
- outside air duct		<u>Y</u>	<u>Y</u>
- outside air damper(s)		<u>Y</u>	<u>Y</u>
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		<u>Y</u>	<u>Y</u>
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		<u>Y</u>	<u>Y</u>
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN # 5

Location:

MAIN ROOF - 300 ALBANY STREET

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ✓ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 100 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 9 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN # 6

Location:

MAIN 200F - 300 ALBANY STREET

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:

Location:

Accessible for inspection? Y ✓ N (explain):Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 100 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 9 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:		Visual Inspection Form		Page 1 of 1
Location: <u>MAIN ROOF - 300 ALBANY STREET</u>		Area Served:		
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>				
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:				
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):				
- louvers, grates and/or screens				
- outside air duct		<u>Y</u>	<u>Y</u>	
- outside air damper(s)		<u>Y</u>	<u>Y</u>	
Exhaust fan unit:		<u>Y</u>	<u>Y</u>	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		<u>Y</u>	<u>Y</u>	
- blower housing acoustical lining				
- vibration collars				NP
Exhaust air distribution:				NP
- Exhaust air ducts Est. total ln ft <u>100</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board <u>flex-duct</u> <u>wood</u>		<u>Y</u>	<u>Y</u>	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>				NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>				NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>				I
Other (specify):				
Other Information:				

General impression (Indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

EY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
Location:		Area Served:	
MECHANICAL EXHAUST FAN #8		MAIN ROOF - 300 ALBANY STREET	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens	<u>Y</u>	<u>Y</u>	
- outside air duct	<u>Y</u>	<u>Y</u>	
- outside air damper(s)	<u>Y</u>	<u>Y</u>	
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	<u>Y</u>	<u>Y</u>	
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	<u>Y</u>	<u>Y</u>	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (Indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:		Page 1 of 1	
MECHANICAL EXHAUST FAN #9			
Location:	Area Served:		
MAIN ROOF - 300 ALBANY STREET			
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens			
- outside air duct	Y	Y	
- outside air damper(s)	Y	Y	
Exhaust fan unit:	Y	Y	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining			
- vibration collars			NP
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	Y	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification: <u>MECHANICAL EXHAUST FAN #10</u>			
Location: <u>MAIN ROOF - 300 ALBANY STREET</u>		Area Served:	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens	<u>Y</u>	<u>Y</u>	
- outside air duct	<u>Y</u>	<u>Y</u>	
- outside air damper(s)	<u>Y</u>	<u>Y</u>	
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	<u>Y</u>	<u>Y</u>	
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	<u>Y</u>	<u>Y</u>	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
Location:		Area Served:	
MECHANICAL EXHAUST FAN #11		MAIN ROOF - 300 ALBANY STREET	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens	Y	Y	
- outside air duct	Y	Y	
- outside air damper(s)	Y	Y	
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	Y	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
Location:		Area Served:	
MAIN ROOF - 300 ALBANY STREET			
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Exhaust air outlet:	Location:		Component • not present • not found • inaccessible
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens		Y	Y
- outside air duct		Y	Y
- outside air damper(s)		Y	Y
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	Y
- blower housing acoustical lining			
- vibration collars			NP
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		Y	Y
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:		Area Served:	
MECHANICAL EXHAUST FAN # 13			
Location: MAIN ROOF - 300 ALBANY STREET			
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens	<u>Y</u>	<u>Y</u>	
- outside air duct	<u>Y</u>	<u>Y</u>	
- outside air damper(s)	<u>Y</u>	<u>Y</u>	
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	<u>Y</u>	<u>Y</u>	
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	<u>Y</u>	<u>Y</u>	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (Indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST FAN: #14			
Location:		Area Served:	
MAIN ROOF - 300 ALBANY STREET			
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens	<u>Y</u>	<u>Y</u>	
- outside air duct	<u>Y</u>	<u>Y</u>	
- outside air damper(s)	<u>Y</u>	<u>Y</u>	
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	<u>Y</u>	<u>Y</u>	
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total ln ft <u>100</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	<u>Y</u>	<u>Y</u>	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
Location:		Area Served:	
Associated mechanical room: clean ☐ Y ☐ N dry ☐ Y ☐ N stored chemicals/refuse ☐ Y ☐ N			
System Components	Surface Dust/Debris Present?	WTC Dust Present?	Component
[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]			• not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens			
- outside air duct	Y	Y	
- outside air damper(s)	Y	Y	
Exhaust fan unit:	Y	Y	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining			
- vibration collars			NP
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	Y	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #16

Location:

MAIN ROOF - 300 ALBANY STREET

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ✓ N (explain):

- louvers, grates and/or screens

Y

Y

- outside air duct

Y

Y

- outside air damper(s)

Y

Y

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

Y

Y

- blower housing acoustical lining

NP

- vibration collars

NP

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 100 No. locations inspected 1
 Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

Y

Y

- Accessible in-line fire dampers Est. total qty No. locations inspected

NP

- Accessible turning vanes Est. total qty No. locations inspected

NP

- Exhaust air grilles Est. total qty 9 No. locations inspected 0

I

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
Location:		Area Served:	
MECHANICAL EXHAUST FAN #17		MAIN ROOF - 300 ALBANY STREET	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N (explain):			
- louvers, grates and/or screens	Y	Y	
- outside air duct	Y	Y	
- outside air damper(s)	Y	Y	
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	Y	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST FAN # 18			
Location: MAIN ROOF - 300 ALBANY STREET		Area Served:	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens	<u>Y</u>	<u>Y</u>	
- outside air duct	<u>Y</u>	<u>Y</u>	
- outside air damper(s)	<u>Y</u>	<u>Y</u>	
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	<u>Y</u>	<u>Y</u>	
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	<u>Y</u>	<u>Y</u>	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>9</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE FAN AND ITS COMPONENTS, AND ITS ASSOCIATED DUCTS.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Passive Shaft/Duct Identification: PASSIVE SHAFT #19			
Location: MAIN Bldg - 300 ALBANY STREET		Area Served: LAUNDRY ROOMS	
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Component • not present • not found • inaccessible			
Outside air intake (if servicing supply air): Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates, screens or weather cap		Y	N
Exhaust outlet/louver (if servicing exhaust air): Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates, screens or weather cap		Y	N
Supply air distribution (if servicing supply air):			
- Supply air outlet(s) Est. total qty <u>10</u> No. locations inspected <u>3</u>			
Specify shaft substrate (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			
- Accessible fire dampers Est. total qty _____ No. locations inspected <u>3</u>			
- Pipes/mechanical equipment, etc. located in shaft			
Return air distribution (if servicing exhaust air):			
- Exhaust air inlet(s) Est. total qty <u>10</u> No. locations inspected <u>1</u>			
Specify shaft substrate (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N
- Accessible fire dampers Est. total qty _____ No. locations inspected _____			
- Pipes/mechanical equipment, etc. located in shaft			
Other (specify):			
Other Information:			
General impression (indicate recommendations for cleaning based on finding of WTC dust): No WTC dust was observed. NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Identification:		Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
COMFORT FIRE WINDOW UNIT				
Location: ELEVATOR ROOM - 300 ALBANY STREET		Area Served: ELEVATOR ROOM		
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N				
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column].				
Outside air intake: Location:				
Accessible for inspection? Y ☒ N ☐ (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct				NP
- outside air damper(s)				NP
Air handling unit:				
- outside air mixing chamber				NP
- filter rack(s)		Y	N	
- filter media		Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N	
- blower housing acoustical lining		Y	N	
- pre-heat coils				NP
- heating coils				NP
- cooling coils		Y	N	
- re-heat coils		Y	N	
- condensate drain pan				NP
- supply air plenum				NP
- supply air plenum damper(s)				NP
- vibration collars				NP
Supply air distribution:				
- Supply air ducts Est. total in ft <u>1</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____				NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____				NP
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____				NP
- Supply air diffusers Est. total qty _____ No. locations inspected _____				NP
Return air distribution:				
- Return air ducts Est. total in ft <u>1</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N	
- Return air plenum Est. total RA plenum areas _____ No. locations inspected _____				NP
- Return air plenum damper Est. total qty _____ No. locations inspected _____				NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____				NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____				NP
- Return air grilles Est. total qty <u>1</u> No. locations inspected <u>1</u>		Y	N	

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>NO FILTER</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): <u>* BLACK DUST WAS OBSERVED IN THE COMPONENTS OF THE UNIT.</u> <u>- NO WTC RELATED DUST WAS OBSERVED.</u> <u>- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.</u>			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Identification:			
Location:		Area Served:	
McQUAY HV: ROOM BEHIND MACHINE ROOM - 300 ALBANY STREET		2 nd to 9 th FLOOR HALLWAYS - SOUTH-EAST SIDE	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y <u>✓</u> N (explain):			
- louvers, grates and/or screens	Y	N	
- outside air duct	Y	N	
- outside air damper(s)	Y	N	
Air handling unit:			
- outside air mixing chamber			NP
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- pre-heat coils			NP
- heating coils	Y	N	
- cooling coils			NP
- re-heat coils			NP
- condensate drain pan			NP
- supply air plenum	Y	N	
- supply air plenum damper(s)	Y	N	
- vibration collars	Y	N	
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>100</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Accessible in-line fire dampers Est. total qty <u>9</u> No. locations inspected <u>1</u>	Y	N	
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NF
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NF
- Supply air diffusers Est. total qty <u>9</u> No. locations inspected <u>1</u>	Y	N	
Return air distribution:			
- Return air ducts Est. total ln ft _____ No. locations inspected _____ Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood			NP
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>	Y	N	NF
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NF
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NF
- Return air grilles Est. total qty <u>2</u> No. locations inspected <u>2</u>	Y	N	

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):	Y	N	
Other Information: Filter loading (light, moderate, heavy): <u>HEAVY</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): - No WTC related dust was observed. - NO CLEANING IS REQUIRED FOR WTC RELATED DUST. - HEAVY ACCUMULATION OF BLACK DUST WAS OBSERVED - THE SYSTEM HAS BEEN OUT OF ORDER FOR 15 YEARS, ACCORDING TO MR. RAY PEREZ.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Identification: MC QUAY - HV			
Location: MAIN FLOOR PUMP ROOM-300 ALBANY STREET		Area Served: 2nd to 9th FL HALLWAY - WEST SIDE	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Outside air intake: Location:			Component • not present • not found • inaccessible
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens		☒ Y	☒ Y
- outside air duct		☒ Y	☒ Y
- outside air damper(s)		☒ Y	☒ Y
Air handling unit:			
- outside air mixing chamber		☒ Y	☒ Y
- filter rack(s)		☒ Y	☒ Y
- filter media		☒ Y	☒ Y
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		☒ Y	☒ Y
- blower housing acoustical lining		☒ Y	☒ Y
- pre-heat coils			☐ NP
- heating coils		☒ Y	☒ Y
- cooling coils			
- re-heat coils			☐ NP
- condensate drain pan		☒ Y	☒ Y
- supply air plenum		☒ Y	☒ Y
- supply air plenum damper(s)		☒ Y	☒ Y
- vibration collars		☒ Y	☒ Y
Supply air distribution:			
- Supply air ducts Est. total in ft 100 No. locations inspected 2			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		☒ Y	☒ Y
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			☐ NF
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			☐ NF
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			☐ NP
* Supply air diffusers Est. total qty 9 No. locations inspected 1		☒ Y	☐ N
Return air distribution:			
- Return air ducts Est. total in ft _____ No. locations inspected 1			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood			☐ NP
- Return air plenum Est. total RA plenum areas 1 No. locations inspected 1		☒ Y	☒ Y
- Return air plenum damper Est. total qty _____ No. locations inspected _____			☐ NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			☐ NF
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			☐ NF
- Return air grilles Est. total qty 2 No. locations inspected 2		☒ Y	☒ Y

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>HEAVY</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): — WTC RELATED DUST WAS OBSERVED IN THE SYSTEM. — HEAVY ACCUMULATION OF WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF AIR HANDLING UNIT. — CLEANING IS REQUIRED FOR WTC RELATED DUST, THE ENTIRE SYSTEM MUST BE CLEANED. — MAINTENANCE CONCERN: FIRE DAMPER, CONSTRUCTION DEBRIS, CARDBOARD FOUND TO BE LAYING ON THE TURNING VANE ON THE MAIN RISER, ON THE 2nd FLOOR.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:		Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
AC UNIT: HANGING FROM THE CEILING - COMPACTOR AREA				
Location: 300 ALBANY STREET BEHIND MAILROOM VESTIBULE SERVICE AREA		Area Served: MAILROOM VESTIBULE AREA		
Associated mechanical room: clean ☒ Y ☐ N dry ☐ Y ☐ N stored chemicals/refuse ☐ Y ☐ N				
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column].				
Outside air intake: Location:				
Accessible for inspection? Y ☒ N ☐ (explain):				
- louvers, grates and/or screens		Y	N	
- outside air duct		Y	N	
- outside air damper(s)		Y	N	
Air handling unit:				
- outside air mixing chamber				NP
- filter rack(s)		Y	N	
- filter media		Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N	
- blower housing acoustical lining		Y	N	
- pre-heat coils				NP
- heating coils				NP
- cooling coils		Y	N	
- re-heat coils				NP
- condensate drain pan		Y	N	
- supply air plenum		Y	N	
- supply air plenum damper(s)		Y	N	
- vibration collars		Y	N	
Supply air distribution:				
- Supply air ducts Est. total in ft <u>20</u> No. locations inspected <u>5</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N	
- Accessible in-line fire dampers Est. total qty <u>1</u> No. locations inspected <u>1</u>		Y	N	
- Accessible turning vanes Est. total qty <u>01</u> No. locations inspected <u>0</u>				NF
- In-line reheats/cooling coils Est. total qty <u> </u> No. locations inspected <u> </u>				NP
- Supply air diffusers Est. total qty <u>5</u> No. locations inspected <u>2</u>		Y	N	
Return air distribution:				
- Return air ducts Est. total in ft <u>20</u> No. locations inspected <u>2</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>		Y	N	
- Return air plenum damper Est. total qty <u> </u> No. locations inspected <u> </u>				NP
- Accessible in-line fire dampers Est. total qty <u>02</u> No. locations inspected <u>0</u>				NF
- Accessible turning vanes Est. total qty <u>01</u> No. locations inspected <u>0</u>				NF
- Return air grilles Est. total qty <u>2</u> No. locations inspected <u>2</u>		Y	N	

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>HEAVY</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): <u>— NO WTC related dust was observed.</u> <u>— NO CLEANING IS REQUIRED FOR WTC RELATED DUST.</u>			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Identification:			
SKIL-AIRE A/C SPLIT UNIT			
Location: PUMP ROOM - 300 ALBANY STREET	Area Served: LOBBY		
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u> X			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens	Y	Y	
- outside air duct	Y	Y	
- outside air damper(s)	Y	Y	
Air handling unit:			
- outside air mixing chamber			NP
- filter rack(s)	Y	Y	
- filter media	Y	Y	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining	Y	Y	
- pre-heat coils			NP
- heating coils			NP
- cooling coils	Y	Y	
- re-heat coils			NP
- condensate drain pan	Y	Y	
- supply air plenum	Y	Y	
- supply air plenum damper(s)	Y	Y	
- vibration collars	Y	Y	
Supply air distribution:			
- Supply air ducts Est. total in ft <u>50</u> No. locations inspected <u>4</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	Y	
- Accessible in-line fire dampers Est. total qty <u>02</u> No. locations inspected <u>0</u>			NF
- Accessible turning vanes Est. total qty <u>01</u> No. locations inspected <u>0</u>			NF
- In-line reheat/cooling coils Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Supply air diffusers Est. total qty <u>3</u> No. locations inspected <u>3</u>	Y	N	
Return air distribution:			
- Return air ducts Est. total in ft <u>20</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood	Y	Y	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>	Y	Y	
- Return air plenum damper Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible in-line fire dampers Est. total qty <u>02</u> No. locations inspected <u>0</u>			NF
- Accessible turning vanes Est. total qty <u>01</u> No. locations inspected <u>0</u>			NF
- Return air grilles Est. total qty <u>1</u> No. locations inspected <u>2</u>	Y	Y	

2.1 Central Ventilation System Visual Inspection Form

System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify): 			
Other Information: Filter loading (light, moderate, heavy): <u>HEAVY</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): WTC related dust was observed in the system. CLEANING IS RECOMMENDED FOR THE ENTIRE SYSTEM.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:		Surface Dust/Debris Present?	WTC Dust Present?	Component
[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]				• not present • not found • inaccessible
HV- NORTH 300 ALBANY STREET				
Location: 300 ALBANY STREET				
NORTH SIDE OF LOBBY ENTRANCE				
Area Served: LOBBY				
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N				
Outside air intake: Location:				
Accessible for inspection? Y ☐ N ☐ (explain):				
- louvers, grates and/or screens				NP
- outside air duct				NP
- outside air damper(s)				NP
Air handling unit:				
- outside air mixing chamber				NP
- filter rack(s)		Y	N	
- filter media		Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N	
- blower housing acoustical lining		Y	N	
- pre-heat coils				NP
- heating coils		Y	N	
- cooling coils				NP
- re-heat coils				NP
- condensate drain pan				NP
- supply air plenum		Y	N	
- supply air plenum damper(s)				NP
- vibration collars				NP
Supply air distribution:				
- Supply air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u>				
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board				
flex-duct wood		Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____				NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____				NP
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____				NP
- Supply air diffusers Est. total qty <u>1</u> No. locations inspected <u>1</u>		Y	N	
Return air distribution:				
- Return air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u>				
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board				
flex-duct wood		Y	N	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>		Y	N	
- Return air plenum damper Est. total qty _____ No. locations inspected _____				NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____				NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____				NP
- Return air grilles Est. total qty <u>1</u> No. locations inspected <u>1</u>		Y	N	

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>LIGHT</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): - BLACK DUST, LIGHT ACCUMULATION WAS OBSERVED IN THE COMPONENTS OF THE EXHAUST FAN. - NO WTC RELATED DUST WAS OBSERVED. - NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
HV- SOUTH SIDE OF LOBBY			
Location:		Area Served:	
HV- SOUTH SIDE OF LOBBY - 300 ALBANY STR.		LOBBY	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y ☐ N ☐ (explain):			
- louvers, grates and/or screens			NP
- outside air duct			NP
- outside air damper(s)			NP
Air handling unit:			
- outside air mixing chamber			NP
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- pre-heat coils			NP
- heating coils	Y	N	
- cooling coils			NP
- re-heat coils			NP
- condensate drain pan			NP
- supply air plenum	Y	N	
- supply air plenum damper(s)			NP
- vibration collars			NP
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	
Return air distribution:			
- Return air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood	Y	N	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>	Y	N	
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Return air grilles Est. total qty _____ No. locations inspected _____	Y	N	

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information:			
Filter loading (light, moderate, heavy): <u>LIGHT</u>			
☐ Abraded/delaminated acoustical lining			
☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
<u>BLACK DUST, LIGHT ACCUMULATION WAS OBSERVED</u> <u>IN THE COMPONENTS OF THE EXHAUST FAN.</u> <u>NO WTC RELATED DUST WAS OBSERVED.</u> <u>NO CLEANING IS REQUIRED FOR WTC RELATED DUST.</u>			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

.....
HVAC Consulting Services

APPENDIX 14

Invoice #1

Contract No. CT 826-200300-19825 OCA No. 0000425814



ATHENICA
ENVIRONMENTAL SERVICES INC.

45-09 Greenpoint Avenue
Long Island City, N.Y. 11104

Tel (718) 784-7490
Fax (718) 784-4085

February 7, 2003

United States Environmental Protection Agency (USEPA)
Region 2
290 Broadway
New York, NY 10007-1866

Attn: Mr. Eric Wilson-Quadrant Coordinator
Tel# (212) 637-3150
Fax# (212) 637-3105

Re: 350 Albany street, Manhattan. NY
Evaluation Report for Building HVAC & Environmental Inspection for WTC Related Dust

Dear Mr. Wilson:

Athenica Environmental Services, Inc. and Duct Dusters performed Building HVAC & Environmental inspections on February 3 & 6, 2003.

Qualifications:

Duct Dusters (DD) is a NADCA certified corporation. Mr. Matt Provenzano and Tony Gallo of DD performed the inspections of the HVAC and exhaust systems in conjunction with New York State certified Asbestos Inspector Mr. Vasilis Bellos of Athenica Environmental Services, Inc (AES) and Mr. Matthew Schoen of USEPA.

Background:

350 Albany street is a sixteen (16) story building with 138 residential units managed by RY Management at (212) 534-7771. The manager of the building is Ms. Teresa Tota at 212-534-7771 ext 118. Mr. Robert Alloca at 212-945-2329 is the superintendent of the building.

Post 9/11 Maintenance History:

Post 9/11 maintenance activity reports were available at the time of our inspection. On February 3, 2003 The superintendent of the building Mr. Robert Alloca at 212-945-2329 provided us with a copy. According to an October 11, 2001 invoice, Chute Master cleaned the kitchen and bathroom exhaust air duct risers, roof fans, and diffusers on September 25, 2001. Additionally, a March 21, 2001 invoice indicates Chute Master cleaned the exhaust ducts of the six townhouses (320- 340 Albany St.) on November 27, 2001. These invoices are attached to this report.

350 Albany street, Manhattan, NY
February 7, 2003

Inspection Details:

As part of the survey, the Mechanical and the Environmental Professionals inspected the following HVAC system types.

- A. A total of seven (07) mechanical exhaust fans serving the kitchens and bathrooms and laundry rooms located on the main roof and one (1) passive shaft exhaust located on the main roof. Two (02) mechanical exhaust fans serving the kitchen and the bathrooms located on the 7th floor roof. Eight (08) mechanical exhaust systems serving the kitchen and the bathrooms located on the 6th floor roof.
- B. One (1) HV unit located on the 16th floor roof and served the elevator room. The system is out of order.
- C. One (1) AC unit is located on the 16th floor roof and serves the penthouse # 01.
- D. One (1) AC unit is located on the 16TH floor serves the penthouse # 02.
- E. One (1) HV -1 unit is located in the machine room on the 1st floor, serves the hallways 1st floor to 16th floor.
- F. One (1) HV-2 unit is located in the machine room on the 1st floor, serves the rooms corridor and gym in the basement.
- G. One (1) HVAC unit is located above the ceiling in the coatroom next to the front desk serves the lobby.

All identification data and visual inspections are documented in the attached checklists.

Summary of Findings:

All the mechanical exhaust fans (except the fan # 07 which is serving the laundry rooms) and their associated components and ductworks are covered with WTC related dust.

AC unit which is serving the penthouse # 01. The components of the unit and its associated duct need to be cleaned for WTC related dust.

All the other systems inspected appear to be free of WTC dust.

All the findings are documented in the attached evaluation forms.

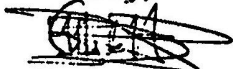
Scope of Work:

Clean all the mechanical exhaust fans (except the fan # 07 which is serving the laundry rooms) and their associated components and ductworks. The fans are located on the 16th floor, on the 7th and 6th floor roofs. A total of approximately 2600.00 linear feet of duct needs to be cleaned.

One (1) AC unit and its associated ducts. A total of 30.00 linear feet of duct needs to be cleaned.

Please feel free to contact me should you require any further information.

Sincerely,



Vasilis Bellos

Director of Operations

Attachments: 1) Ventilation System Evaluation forms
2) Maintenance activity reports

VENTILATION SYSTEM EVALUATION FORM

Please complete this form in accordance with instructions in the accompanying guidance document

Part 1.0 General Information

Date of evaluation: <u>2/3/03 & 2/05/03</u>		Building contact name and phone: <u>TERESA TOTA 212-534-7771 ext 118</u> <u>ROBERT ALLOCA 212-945-2329</u>	
Evaluation team (list name and affiliation): <u>VASILIS BELOS - ATHENICA ENVIRONMENTAL SERV. INC. (Environmental professional)</u> <u>TONY GALLO & MATT PROVENZANO - DUCT DUSTERS (HVAC professional)</u>			
Building address: <u>350 ALBANY STREET</u> <u>NEW YORK, NY</u>		Type of Facility (check all that apply): ☒ Residential ☐ Multi-use ☐ Other (describe)	
Date of construction:			
Number of residential units: <u>138</u>		Number of floors: <u>16</u>	
Prior inspection report/maintenance records available for review?:			
Other comments			
Ventilation system types (check all that apply and indicate total no. of units)			
☒ Central ventilation system Est. no. of units <u>6</u>		☒ Mechanical exhaust system Est. no. of units <u>17</u>	
☐ Mechanical make-up air system Est. no. of units		☒ Passive shaft/duct Est. no. of units <u>1</u>	
☐ Other (describe)			

I certify that to the best of my knowledge, the information and observations recorded on this form including all attachments are a true and accurate representation of site conditions.

[Signature]
Ventilation System (HVAC) Evaluator

2/05/03
Date

Part 2.0 Visual Inspection Forms

Use the attached forms to document visual inspections. Complete the forms in accordance with instructions in the accompanying guidance document.

2.4 Passive Shaft/Duct Visual Inspection Form

Page 1 of 1

Passive Shaft/Duct Identification:			
FRESH AIR INTAKE			
Location: ELEVATOR ROOM - 350 ALBANY STREET		Area Served: ELEVATOR ROOM	
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Component • not present • not found • inaccessible			
Outside air intake (if servicing supply air): Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates, screens or weather cap		Y	N
Exhaust outlet/louver (if servicing exhaust air): Location:		Y	N
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates, screens or weather cap		Y	N
Supply air distribution (if servicing supply air):		Y	N
- Supply air outlet(s) Est. total qty <u>1</u> No. locations inspected <u>1</u>			
Specify shaft substrate (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			
- Accessible fire dampers Est. total qty _____ No. locations inspected _____		Y	N
- Pipes/mechanical equipment, etc. located in shaft			NP
Return air distribution (if servicing exhaust air):			NP
- Exhaust air inlet(s) Est. total qty <u>1</u> No. locations inspected <u>1</u>			
Specify shaft substrate (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			
- Accessible fire dampers Est. total qty _____ No. locations inspected _____		Y	N
- Pipes/mechanical equipment, etc. located in shaft			NP
Other (specify):			NP
Other Information:			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
- No WTC DEBRIS WAS OBSERVED			
- No CLEANING FOR WTC DEBRIS IS REQUIRED.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #1

Location:

16th FLOOR-RECT-350 ALBANY STREET

Area Served:

2nd FL to 15th FL & PENTHOUSE #1

Associated mechanical room: clean

Y

N

dry

Y

N

stored chemicals/refuse

Y

N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?

WTC
Dust
Present?

Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 160

No. locations inspected 1

Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

- Accessible in-line fire dampers Est. total qty 15

No. locations inspected 0

- Accessible turning vanes Est. total qty

No. locations inspected

- Exhaust air grilles Est. total qty 15

No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE CONDUITS OF THE FAN ABOVE AND BELOW THE LOUVERS. SOME ATTEMPT WAS MADE TO CLEAN WTC DEBRIS.
- WTC RELATED DUST WAS OBSERVED IN THE DUCTWORK
- CLEANING FOR WTC RELATED DUST IS RECOMMENDED
- CLEAN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #9

Location:

16th FLOOR - ROOF - 350 ALBANY STREET

Area Served:

APTS 2nd to 15th FL & PENTHOUSE #11Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 160No. locations inspected 1Specify type (circle): (metal) (fibrous glass lined metal) masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 15 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 15 No. locations inspected 0

Other (specify):

Other Information:

THE MOTOR OF THE FAN IS WORKING, THE FAN IS NOT WORKING.

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN ABOVE AND BELOW THE LOUVERS.
- WTC RELATED DUST WAS OBSERVED IN THE DUCTWORK.
- CLEANING FOR WTC RELATED DUST IS RECOMMENDED
- CLEAN THE EXHAUST FAN ITS COMPONENTS AND ITS DUCTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #3

Location:

16th FLOOR - R207 - 350 ALBANY STREET

Area Served:

APTS 2nd FL to 15th FL & PENTHOUSE #1Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 160 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 15 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 15 No. locations inspected 0

Other (specify):

Other Information:

THE ENTIRE UNIT OF THE FAN IS NOT WORKING.

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN ABOVE AND BELOW THE LOUVERS.

- WTC RELATED DUST WAS OBSERVED IN THE DUCTWORK

- CLEANING FOR WTC RELATED DUST IS RECOMMENDED

- CLEAN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form			
Mechanical Exhaust System Identification:			
Location: <u>16th FLOOR - 22CF - 350 ALBANY STREET</u>		Area Served: <u>APT. 2 1st FL TO 15th FLOOR & PENTHOUSE #2</u>	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens			
- outside air duct		Y	Y
- outside air damper(s)		Y	Y
Exhaust fan unit:			NP
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	Y
- blower housing acoustical lining		Y	Y
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total ln ft <u>160</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		Y	Y
- Accessible in-line fire dampers Est. total qty <u>15</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>15</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information: <u>THE UNIT IS NOT WORKING.</u>			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
- WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN ABOVE AND BELOW THE LOUVERS. - WTC RELATED DUST WAS OBSERVED IN THE DUCTWORK - CLEANING FOR WTC RELATED DUST IS RECOMMENDED - CLEAN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTWORK.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

MECHANICAL EXHAUST SYSTEM IDENTIFICATION

MECHANICAL EXHAUST FAN #5

Location:

15th FLOOR - 22CF - 350 ALBANY STREET

Area Served:

APTS 2nd to 15th FL & PENTHOUSE #2

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?

WTC
Dust
Present?

Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 160

No. locations inspected 1

Specify type (circle):

metal

fibrous glass lined metal

masonry

fibrous glass board

flex-duct

wood

- Accessible in-line fire dampers Est. total qty 15

No. locations inspected 0

- Accessible turning vanes Est. total qty

No. locations inspected

- Exhaust air grilles Est. total qty 15

No. locations inspected 0

Other (specify):

Other Information:

THE UNIT IS NOT WORKING

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN ABOVE AND BELOW THE LOUVERS.

- WTC RELATED DUST WAS OBSERVED IN THE DUCTWORK

- CLEANING FOR WTC RELATED DUST IS RECOMMENDED

- CLEAN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #6

Location:

16th FLOOR - R-207 - 350 ALBANY STREET

Area Served:

2nd FL to 15th FL & PENTHOUSE #2

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column].

Surface
Dust/
Debris
Present?

WTC
Dust
Present?

Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 160

No. locations inspected 1

Specify type (circle):

metal

fibrous glass lined metal

masonry

fibrous glass board

flex-duct

wood

- Accessible in-line fire dampers

Est. total qty 15

No. locations inspected 0

- Accessible turning vanes

Est. total qty

No. locations inspected

- Exhaust air grilles

Est. total qty 15

No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN ABOVE AND BELOW THE LOUVERS.

WTC RELATED DUST WAS OBSERVED IN THE DUCTWORK

CLEANING FOR WTC RELATED DUST IS RECOMMENDED

CLEAN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #7

Location:

15TH FLOOR - ROOF - 350 ALBANY STREET

Area Served:

LAUNDRY ROOMS

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 160 No. locations inspected 0Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 15 No. locations inspected 0- Accessible turning vanes Est. total qty 0 No. locations inspected 0- Exhaust air grilles Est. total qty 0 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE UNIT AND ITS DUCTWORK
- THE MOTOR IS WORKING. THE FAN IS NOT WORKING
- NO CLEANING IS REQUIRED

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST FAN # 1			
Location: <u>4th FLOOR - ROOM - 350 ALBANY STREET</u>		Area Served: <u>KITCHENS & BATHROOMS</u>	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens			
- outside air duct	<u>Y</u>	<u>Y</u>	
- outside air damper(s)	<u>Y</u>	<u>Y</u>	
Exhaust fan unit:			<u>NP</u>
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	<u>Y</u>	<u>Y</u>	
- blower housing acoustical lining	<u>Y</u>	<u>Y</u>	
- vibration collars			
Exhaust air distribution:			<u>NP</u>
- Exhaust air ducts Est. total ln ft <u>70</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	<u>Y</u>	<u>Y</u>	
- Accessible in-line fire dampers Est. total qty <u>6</u> No. locations inspected <u>0</u>			<u>I</u>
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			<u>NP</u>
- Exhaust air grilles Est. total qty <u>6</u> No. locations inspected <u>0</u>			<u>I</u>
Other (specify):			
Other Information:			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
- WTC DEBRIS WAS OBSERVED IN THE COMPONENTS OF THE FAN, ABOVE AND BELOW THE LOUVERS			
- WTC DEBRIS WAS OBSERVED IN THE DUCTWORK.			
- CLEANING FOR WTC DEBRIS IS RECOMMENDED.			
- CLEAN THE EXHAUST UNIT, ITS ASSOCIATED DUCTWORK.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #2

Location:

7th FLOOR - ROOF - 350 ALBANY STREET

Area Served:

KITCHENS & BATHROOMS

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

Y

Y

- outside air duct

Y

Y

- outside air damper(s)

NP

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

Y

Y

- blower housing acoustical lining

Y

Y

- vibration collars

NP

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 70 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

Y

Y

- Accessible in-line fire dampers Est. total qty 6 No. locations inspected 0

I

- Accessible turning vanes Est. total qty No. locations inspected

NP

- Exhaust air grilles Est. total qty 6 No. locations inspected 0

I

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC DEBRIS WAS OBSERVED IN THE COMPONENTS OF THE FAN, ABOVE AND BELOW THE LOUVERS.
- WTC DEBRIS WAS OBSERVED IN THE DUCTWORK.
- CLEANING FOR WTC DEBRIS IS RECOMMENDED
- CLEAN THE EXHAUST FAN UNIT, ITS ASSOCIATED DUCTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #3

Location:

6th FLOOR - ROOF - 500 ALBANY STREET

Area Served:

KITCHENS & BATHROOMS

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 60 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass boardflex-duct wood- Accessible in-line fire dampers Est. total qty 5 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 5 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- THE UNIT IS NOT WORKING. SOME ATTEMPT WAS MADE TO CLEAN WTC DEBRIS.
- WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN; ABOVE AND BELOW THE LOUVERS.
- WTC RELATED DUST WAS OBSERVED IN THE DUCTWORK
- CLEANING FOR WTC RELATED DUST IS RECOMMENDED.
- CLEAN THE EXHAUST FAN UNIT, ITS ASSOCIATED DUCTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #4

Location:

6th FLOOR - ROOF 350 ALBANY STREET

Area Served:

KITCHENS & BATHROOMS

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 60 No. locations inspected 1Specify type (circle): meta fibrous glass lined meta masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 5 No. locations inspected 0- Accessible turning vanes Est. total qty 5 No. locations inspected 0- Exhaust air grilles Est. total qty 5 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- ☒ THE UNIT IS NOT WORKING.
- ☒ HEAVY ACCUMULATION OF WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN AND ITS DUCTWORK.
- ☒ CLEANING FOR WTC DEBRIS IS RECOMMENDED.
- ☒ CLEAN THE EXHAUST FAN UNIT AND ITS ASSOCIATED DUCTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:		Area Served:	
MECHANICAL EXHAUST FAN #5		KITCHENS & BATHROOMS	
Location: 6th Floor - Roof 350 ALBANY STREET			
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens	Y	Y	
- outside air duct	Y	Y	
- outside air damper(s)			NP
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining	Y	Y	
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total ln ft <u>60</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>	Y	Y	
- Accessible in-line fire dampers Est. total qty <u>5</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>5</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
— WTC DEBRIS WAS OBSERVED IN THE COMPONENTS OF THE FAN, ABOVE AND BELOW THE LOUVERS. SOME ATTEMPT TO CLEAN WAS MADE, BUT WTC STILL IS PRESENT. — WTC DEBRIS WAS OBSERVED IN THE DUCTWORK. — CLEANING FOR WTC DEBRIS IS RECOMMENDED. — CLEAN THE EXHAUST FAN UNIT AND ITS ASSOCIATED DUCTWORK.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Mechanical Exhaust System Identification:		Page 1 of 1	
MECHANICAL EXHAUST FAN #6			
Location: <u>6th Floor - Box 350 ALBANY STREET</u>		Area Served: <u>KITCHENS & BATHROOMS</u>	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens			
- outside air duct		<u>Y</u>	<u>Y</u>
- outside air damper(s)		<u>Y</u>	<u>Y</u>
Exhaust fan unit:			NP
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		<u>Y</u>	<u>Y</u>
- blower housing acoustical lining		<u>Y</u>	<u>Y</u>
- vibration collars			
Exhaust air distribution:			NP
- Exhaust air ducts Est. total in ft <u>60</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		<u>Y</u>	<u>Y</u>
- Accessible in-line fire dampers Est. total qty <u>5</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>5</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
- THE UNIT IS NOT WORKING. - SOME ATTEMPT TO CLEAN WAS MADE, WTC RELATED DUST ABOVE THE LOUVERS, BUT HEAVY ACCUMULATION OF WTC DEBRIS WAS OBSERVED BELOW THE LOUVERS. - WTC DEBRIS WAS OBSERVED IN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTWORK. - CLEANING FOR WTC DEBRIS IS RECOMMENDED. - CLEAN THE EXHAUST FAN UNIT AND ITS ASSOCIATED DUCTWORK.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Mechanical Exhaust System Identification:		Page 1 of 1	
Location:		Area Served:	
6 TH FLOOR - REOF 350 ALBANY STREET		KITCHENS & BATHROOMS	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens		Y	Y
- outside air duct		Y	Y
- outside air damper(s)			NP
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	Y
- blower housing acoustical lining		Y	Y
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>60</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		Y	Y
- Accessible in-line fire dampers Est. total qty <u>5</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>5</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
THE UNIT IS NOT WORKING. WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN, ABOVE AND BELOW THE LOUVERS. WTC RELATED DUST WAS OBSERVED IN THE DUCTWORK. CLEANING FOR WTC RELATED DUST IS RECOMMENDED. CLEAN THE EXHAUST FAN UNIT AND ITS ASSOCIATED DUCTWORK.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.2 Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification:

Location: MECHANICAL EXHAUST FAN #86th FLOOR - 2nd 350 ALBANY STREET

Area Served:

KITCHENS & BATHROOMSAssociated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 60No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 5 No. locations inspected C- Accessible turning vanes Est. total qty 1 No. locations inspected C- Exhaust air grilles Est. total qty 5 No. locations inspected C

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- THE UNIT IS NOT WORKING
- WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN ABOVE AND BELOW THE LOUVERS.
- WTC RELATED DUST WAS OBSERVED IN THE DUCTWORK.
- CLEANING FOR WTC RELATED DUST IS RECOMMENDED.
- CLEAN THE EXHAUST FAN UNIT AND ITS ASSOCIATED DUCTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #9

Location:

6th FLOOR - ROOF - 350 ALBANY STREET

Area Served:

KITCHENS & BATHROOMS

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 60 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 5 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 5 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN ABOVE AND BELOW THE LOUVERS.

- WTC RELATED DUST WAS OBSERVED IN THE DUCTWORK.

- CLEANING FOR WTC DEBRIS IS RECOMMENDED.

- CLEAN THE EXHAUST FAN UNIT AND ITS ASSOCIATED DUCTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #10

Location:

6th FLOOR-222 F-350 ALBANY STREET

Area Served:

KITCHENS & BATHROOMS

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ✓ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 60 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty 5 No. locations inspected 0- Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 5 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- WTC DEBRIS WAS OBSERVED IN THE COMPONENTS OF THE FAN, ABOVE AND BELOW THE LOUVERS.
- WTC DEBRIS WAS OBSERVED IN THE DUSTWORK.
- CLEANING FOR WTC DEBRIS IS RECOMMENDED.
- CLEAN THE EXHAUST FAN UNIT AND ITS ASSOCIATED DUSTWORK.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Ventilation System Identification:		Page 1 of 2	
Location: <u>AC</u>		Area Served: <u>PENTHOUSE #1</u>	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Component			
• not present			
• not found			
• inaccessible			
Outside air intake: Location: _____			
Accessible for inspection? Y ☒ N ☐ (explain): _____			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Air handling unit:			
- outside air mixing chamber			
- filter rack(s)		Y	N
- filter media		Y	N
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- pre-heat coils		Y	N
- heating coils			NP
- cooling coils			NP
- re-heat coils		N	N
- condensate drain pan			NP
- supply air plenum			NF
- supply air plenum damper(s)		Y	Y
- vibration collars			I
Supply air distribution:			NP
- Supply air ducts Est. total ln ft <u>30</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		Y	Y
- Accessible in-line fire dampers Est. total qty <u>7</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u>1</u> No. locations inspected <u>0</u>			I
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty <u>7</u> No. locations inspected <u>0</u>			I
Return air distribution:			
- Return air ducts Est. total ln ft <u>30</u> No. locations inspected <u>0</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		Y	Y
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>		Y	Y
- Return air plenum damper Est. total qty <u>1</u> No. locations inspected <u>0</u>			I
- Accessible in-line fire dampers Est. total qty <u>1</u> No. locations inspected <u>0</u>			I
- Accessible turning vanes Est. total qty <u>1</u> No. locations inspected <u>0</u>			I
- Return air grilles Est. total qty <u>1</u> No. locations inspected <u>0</u>			I

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>LIGHT</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): - WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF SYSTEM AND ITS DUCTWORK. - CLEANING FOR WTC RELATED DUST IS RECOMMENDED CLEAN THE UNIT AND ITS DUCTWORK.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
Location: <u>AC</u>		Area Served: <u>PENTHOUSE #2</u>	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens	<u>Y</u>	<u>N</u>	
- outside air duct	<u>Y</u>	<u>N</u>	
- outside air damper(s)	<u>Y</u>	<u>N</u>	
Air handling unit:			
- outside air mixing chamber	<u>Y</u>	<u>N</u>	
- filter rack(s)	<u>Y</u>	<u>N</u>	
- filter media	<u>Y</u>	<u>N</u>	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	<u>Y</u>	<u>N</u>	
- blower housing acoustical lining	<u>Y</u>	<u>N</u>	
- pre-heat coils			
- heating coils	<u>Y</u>	<u>N</u>	NP
- cooling coils	<u>Y</u>	<u>N</u>	
- re-heat coils	<u>Y</u>	<u>N</u>	
- condensate drain pan			
- supply air plenum	<u>Y</u>	<u>N</u>	NF
- supply air plenum damper(s)	<u>Y</u>	<u>N</u>	
- vibration collars			
Supply air distribution:			NP
- Supply air ducts Est. total ln ft <u>30</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	<u>Y</u>	<u>N</u>	
- Accessible in-line fire dampers Est. total qty <u>7</u> No. locations inspected <u> </u>			I
- Accessible turning vanes Est. total qty <u>1</u> No. locations inspected <u>1</u>	<u>Y</u>	<u>N</u>	
- In-line reheat/cooling coils Est. total qty <u>1</u> No. locations inspected <u>1</u>	<u>Y</u>	<u>N</u>	
- Supply air diffusers Est. total qty <u>7</u> No. locations inspected <u> </u>			I
Return air distribution:			
- Return air ducts Est. total ln ft <u>30</u> No. locations inspected <u> </u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	<u>Y</u>	<u>N</u>	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>	<u>Y</u>	<u>N</u>	
- Return air plenum damper Est. total qty <u>1</u> No. locations inspected <u>1</u>	<u>Y</u>	<u>N</u>	
- Accessible in-line fire dampers Est. total qty <u>1</u> No. locations inspected <u>0</u>			
- Accessible turning vanes Est. total qty <u>1</u> No. locations inspected <u>1</u>	<u>Y</u>	<u>N</u>	I
- Return air grilles Est. total qty <u>1</u> No. locations inspected <u>0</u>			I

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>MODERATE</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): — NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM, ITS COMPONENTS AND ITS ASSOCIATED DUCTWORK — NO CLEANING IS REQUIRED.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
HVAC (NOT WORKING)			
Location: 15 th FLOOR - ROOF - 350 ALBANY STREET		Area Served: ELEVATOR ROOM	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y <u>Y</u> <u>N</u> (explain):			
- louvers, grates and/or screens	Y	N	
- outside air duct	Y	N	
- outside air damper(s)	Y	N	
Air handling unit:			
- outside air mixing chamber	Y	N	
- filter rack(s)	Y	N	
- filter media			NP
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- pre-heat coils			NP
- heating coils			NP
- cooling coils	Y	N	
- re-heat coils			NP
- condensate drain pan			I
- supply air plenum	Y	N	
- supply air plenum damper(s)			NP
- vibration collars			NP
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>5</u> No. locations inspected <u>2</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty <u>1</u> No. locations inspected _____	Y	N	NP
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty _____ No. locations inspected _____			NP
Return air distribution:			
- Return air ducts Est. total ln ft <u>5</u> No. locations inspected <u>2</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>	Y	N	
- Return air plenum damper Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	
- Return air grilles Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>NO FILTER</u> ☐ Abraded/delaminated acoustical lining ☒ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): <u>THE UNIT IS NOT WORKING.</u> <u>NO WTC DEBRIS WAS OBSERVED IN THE COMPONENTS. AND ITS DUE WORK</u> <u>NO CLEANING IS REQUIRED. FOR WTC DEBRIS</u>			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Identification:			
HV-1			
Location: MACHINE ROOM - 1 ST FLOOR		Area Served: HALLWAYS 1 ST FL to 16 TH FL	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens	Y	N	
- outside air duct	Y	N	
- outside air damper(s)	Y	N	
Air handling unit:			
- outside air mixing chamber	Y	N	
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- pre-heat coils			NP
- heating coils	Y	N	
- cooling coils			NP
- re-heat coils			NP
- condensate drain pan	Y	N	
- supply air plenum	Y	N	
- supply air plenum damper(s)	Y	N	
- vibration collars	Y	N	
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>170</u> No. locations inspected <u>4</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty <u>3</u> No. locations inspected <u>1</u>	Y	N	
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty <u>15</u> No. locations inspected <u>3</u>	Y	N	
Return air distribution:			
- Return air ducts Est. total ln ft _____ No. locations inspected _____ Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood			
- Return air plenum Est. total RA plenum areas _____ No. locations inspected _____			NP
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Return air grilles Est. total qty _____ No. locations inspected _____			NP

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify): 			
Other Information: Filter loading (light, moderate, <u>heavy</u>) <u>HEAVY - FILTERS COMPLETELY PLUGGED</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): - NO WTC RELATED DUST WAS OBSERVED - NO CLEANING IS REQUIRED.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:		HV-2	
Location:		Area Served:	
MACHINE ROOM - 1 ST FLOOR		BASEMENT CORRIDOR, STORAGE RMS, GYM	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components	Surface Dust/Debris Present?	WTC Dust Present?	Component
[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]			• not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens	Y	N	
- outside air duct	Y	N	
- outside air damper(s)	Y	N	
Air handling unit:			
- outside air mixing chamber	Y	N	
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators			I
- blower housing acoustical lining			I
- pre-heat coils			NP
- heating coils			I
- cooling coils			NP
- re-heat coils			NP
- condensate drain pan			I
- supply air plenum	Y	N	
- supply air plenum damper(s)			NP
- vibration collars	Y	N	
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>160</u> No. locations inspected <u>2</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty <u>3</u> No. locations inspected <u>2</u>	Y	N	
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty <u>6</u> No. locations inspected <u>1</u>	Y	N	
Return air distribution:			
- Return air ducts Est. total ln ft _____ No. locations inspected _____			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood			
- Return air plenum Est. total RA plenum areas _____ No. locations inspected _____			NP
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Return air grilles Est. total qty _____ No. locations inspected _____			NP

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information:			
Filter loading (light, moderate, heavy): <u>HEAVY</u>			
☐ Abraded/delaminated acoustical lining			
☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
- NO WTC RELATED DUST WAS OBSERVED - NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Identification:		HVAC	
Location:		Area Served:	
ABOVE THE CEILING OF THE COAT ROOM		LOBBY	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Component • not present • not found • inaccessible			
Outside air intake: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens			NP
- outside air duct			NP
- outside air damper(s)			NP
Air handling unit:			
- outside air mixing chamber			
- filter rack(s)			NP
- filter media		Y	N
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- pre-heat coils		Y	N
- heating coils			NP
- cooling coils		Y	N
- re-heat coils		Y	N
- condensate drain pan			NP
- supply air plenum		Y	N
- supply air plenum damper(s)		Y	N
- vibration collars			NP
Supply air distribution:			NP
- Supply air ducts Est. total in ft <u>80</u> No. locations inspected <u>2</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		Y	N
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty <u>6</u> No. locations inspected <u>3</u>		Y	N
Return air distribution:			
- Return air ducts Est. total in ft <u>80</u> No. locations inspected <u>2</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		Y	N
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>		Y	N
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Return air grilles Est. total qty <u>3</u> No. locations inspected <u>1</u>		Y	N

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify): 			
Other Information: Filter loading (light, moderate, heavy): <u>HEAVY</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): - NO WTC RELATED DUST WAS OBSERVED - NO CLEANING IS REQUIRED.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

HVAC Consulting Services

APPENDIX 15

Invoice #1

Contract No. CT 826-200300-19825 OCA No. 0000425814



ATHENICA
ENVIRONMENTAL SERVICES INC.

45-09 Greenpoint Avenue
Long Island City, N.Y. 11104

Tel (718) 784-7490
Fax (718) 784-4085

January 30, 2003

United States Environmental Protection Agency (USEPA)
Region 2
290 Broadway
New York, NY 10007-1866

Attn: Mr. Eric Wilson-Quadrant Coordinator
Tel# (212) 637-3150
Fax# (212) 637-3105

Re: 380 Rector Place, Manhattan, NY
Evaluation Report for Building HVAC & Environmental Inspection for WTC Related Dust

Dear Mr. Wilson:

Athenica Environmental Services, Inc. and Duct Dusters performed Building HVAC & Environmental inspections on January 13, 2003.

Qualifications:

Duct Dusters (DD) is a NADCA certified corporation. Mr. Tony Gallo of DD performed the inspections of the HVAC and exhaust systems in conjunction with New York State certified Asbestos Inspector Mr. Vasilis Bellos and Mr. Alex Kazakov of Athenica Environmental Services, Inc (AES), and Matthew Schoen of USEPA.

Background:

380 Rector Place is a 25-story building with 250 residential units. The manager of the building is Ms. Lorraine Doyle from Milford Management Corp. at 212-842-7310. The superintendent of the building is Mr. David Franqui at 212-945-3769.

Post 9/11 Maintenance History:

As per Lorraine Doyle, the manager of Milford Management Corp., the clean up was performed during the period October thru December of 2002 by Ice Cap and Chute Me. Ms. Doyle provided no further details.

**380 Rector Place, Manhattan, NY
January 30, 2003**

Inspection Details:

As part of the survey, the Mechanical and the Environmental Professionals inspected the following HVAC system types. All identification data and visual inspections are documented in the attached checklists.

- A. One (01) laundry exhaust fan located on the main roof, one (01) mechanical exhaust fan in the elevator room, one (01) mechanical exhaust fan in the pump water room, one (01) kitchen and one (01) bathroom exhaust fan, located in the pump water room, on the main roof. Five (05) mechanical kitchen and bathroom exhaust fans located on the 9th floor roof.
- B. One (01) AC unit located in the elevator room and serves the elevator room.
- C. One (01) AC unit located on the main roof, and serves the hallways.
- D. One (01) AC unit located in the ceiling of the lobby area and serves the lobby.
- E. One (01) AC unit located in the west side of the lobby, and serves west side of the lobby.
- F. One (01) AC unit located in the east lobby and serves the east side of the lobby.
- G. One (01) AC unit located in the compactor room and serves the compactor room.
- H. HV-1 unit located in the basement and serves the basement storage rooms and boiler room.
- I. HV-2 unit located in the basement and serves the basement corridors.

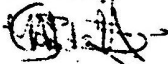
Summary of Findings:

WTC related dust was found in pit areas of the fresh air intakes of HV-1 and HV-2 systems.
WTC related dust was found in the mechanical exhaust fan# (04) which is located on the 9th floor.

Scope of Work:

Cleaning is required to remove WTC related dust from inside the pit areas of the HV-1 and HV-2 systems.
Cleaning is required to remove WTC related dust from the mechanical exhaust fan # (04) and its components and associated ducts.

Sincerely,



Vasilis Bellos

Director of Operations

Attachments: 1) Ventilation System Evaluation forms

Please complete this form in accordance with instructions in the accompanying guidance document

Part 1.0 General Information

Date of evaluation: <u>1/13/03</u>	Building contact name and phone:
Evaluation team (list name and affiliation):	
<u>ALEX KAZAKOV, VASILIS BELLOS - ATHENICA</u>	(Environmental professional)
<u>TONY GALLO - DUST DUSTERS</u>	(HVAC professional)
Building address:	Type of Facility (check all that apply):
<u>380 RECTOR PLACE</u>	☒ Residential
<u>NEW YORK NY</u>	☐ Multi-use
	☐ Other (describe)
Date of construction:	
Number of residential units: <u>250</u>	Number of floors: <u>25</u>
Prior inspection report/maintenance records available for review?:	
<u>NO</u>	
Other comments	
Ventilation system types (check all that apply and indicate total no. of units)	
Central ventilation system	Mechanical exhaust system
Est. no. of units <u>8</u>	Est. no. of units <u>10</u>
Mechanical make-up air system	Passive shaft/duct
Est. no. of units	Est. no. of units
Other (describe)	

I certify that to the best of my knowledge, the information and observations recorded on this form including all attachments are a true and accurate representation of site conditions.

Ventilation System (HVAC) Evaluator

Date

Part 2.0 Visual Inspection Forms

1/13/03

Use the attached forms to document visual inspections. Complete the forms in accordance with instructions in the accompanying guidance document.

2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

DRYER EXHAUST

Location:

ROOF NEAR ELEVATOR RM. 3RD FLOOR PLAZA

Area Served:

DRYER EXHAUST

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

Y

N

- outside air duct

Y

N

- outside air damper(s)

Y

N

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

Y

N

- blower housing acoustical lining

Y

N

- vibration collars

NP

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 300 No. locations inspected 3Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

Y

N

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

NP

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

NP

- Exhaust air grilles Est. total qty 25 No. locations inspected 2

Y

N

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

NO WTC RELATED DUST WAS OBSERVED IN THE COURSEWORKS OF THE FAN AND ITS ASSOCIATED DUCTS.

NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

MECHANICAL EXHAUST SYSTEM VISUAL INSPECTION FORM

Page 1 of 1

Mechanical Exhaust System Identification:

ELEVATOR ROOM EXHAUST UNIT

Location:

ELEVATOR ROOM 380 PETER PLAZA

Area Served:

ELEVATOR ROOM

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 4 No. locations inspected 2Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board

flex-duct wood

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

- Exhaust air grilles Est. total qty 1 No. locations inspected 1

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

NO WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN
AND ITS ASSOCIATED DUCT.

NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST

Location:

Rm 301 REAR PLACE

Area Served:

WATER PUMP RM 2

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ✓ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 5 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

- Exhaust air grilles Est. total qty 1 No. locations inspected 1

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

LIGHT OF ACCUMULATION OF REGULAR DEBRIS, NO WTC DUST
WAS OBSERVED.

NO CLEANING IS REQUIRED FOR WTC RELATED DUST

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:		Surface Dust/Debris Present?		WTC Dust Present?		Component	
Location:		Area Served:					
3EC RECTIFIER PL - MAIN ROOF - WATER PUMP ROOM		KITCHEN EXHAUST					
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N							
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]							
Exhaust air outlet:	Location:						
Accessible for inspection? ☒ Y ☐ N (explain):							
- louvers, grates and/or screens		Y		N			
- outside air duct		Y		N			
- outside air damper(s)		Y		N			
Exhaust fan unit:							
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y		N			
- blower housing acoustical lining						NP	
- vibration collars						NP	
Exhaust air distribution:							
- Exhaust air ducts Est. total in ft <u>300</u> No. locations inspected <u>03</u>							
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y		N			
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____						NP	
- Accessible turning vanes Est. total qty <u>01</u> No. locations inspected <u>01</u>		Y		N			
- Exhaust air grilles Est. total qty <u>25</u> No. locations inspected <u>0</u>						I	
Other (specify):							
Other Information:							

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST..

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
Location:		Area Served:	
MECHANICAL EXHAUST		BATHROOM EXHAUST	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/ Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total ln ft <u>300</u> No. locations inspected <u>03</u>			
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty <u>01</u> No. locations inspected <u>01</u>		Y	N
- Exhaust air grilles Est. total qty <u>2.5</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS.

- NO CLEANING IS REQUIRED FOR WTC RELATED DUST

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification: <u>MECHANICAL EXHAUST FAN #1</u>			
Location: <u>9th FLOOR - 330 RIVER PLACE</u>		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column].		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			Component • not present • not found • inaccessible
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total ln ft <u>100</u> No. locations inspected <u>01</u>			
Specify type (circle): metal <u>fibrous glass lined metal</u> masonry <u>fibrous glass board</u> flex-duct wood		Y	N
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Exhaust air grilles Est. total qty <u>09</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

NO WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
Location: <u>9th FL - ROOF / 380 RECTOR PLACE</u>		Area Served:	
Associated mechanical room: clean <u>✓Y</u> <u>N</u> dry <u>✓Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>✓N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> <u>N</u> (explain):			
- louvers, grates and/or screens	<u>Y</u>	<u>N</u>	
- outside air duct	<u>Y</u>	<u>N</u>	
- outside air damper(s)	<u>Y</u>	<u>N</u>	
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	<u>Y</u>	<u>N</u>	
- blower housing acoustical lining	<u>Y</u>	<u>N</u>	
- vibration collars			<u>NP</u>
Exhaust air distribution:			
- Exhaust air ducts Est. total ln ft <u>100</u> No. locations inspected <u>01</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>	<u>Y</u>	<u>N</u>	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			<u>NP</u>
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			<u>NP</u>
- Exhaust air grilles Est. total qty <u>09</u> No. locations inspected <u>0</u>			<u>I</u>
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

NO WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS.

NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

MECHANICAL EXHAUST SYSTEM VISUAL INSPECTION FORM

Page 1 of 1

Mechanical Exhaust System Identification: <u>MECHANICAL EXHAUST FAN #13</u>			
Location: <u>9th FL-ROOF/3RD RECTOR PLACE</u>		Area Served:	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Exhaust air outlet: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens		Y	N
- outside air duct		Y	N
- outside air damper(s)		Y	N
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total ln ft <u>100</u> No. locations inspected <u>1</u>			
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood		Y	N
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Exhaust air grilles Est. total qty <u>09</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

NO WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS.

NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST FAN #4			
Location: 9 E 100th 380 PETER PLACE		Area Served:	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y <u>✓</u> N <u> </u> (explain):			
- louvers, grates and/or screens	Y	Y	
- outside air duct	Y	Y	
- outside air damper(s)	Y	Y	
Exhaust fan unit:	Y	Y	
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining	Y	Y	
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>100</u> No. locations inspected <u>01</u>			
Specify type (circle): metal <u>fibrous glass lined metal</u> <u>masonry</u> fibrous glass board flex-duct wood	Y	Y	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Exhaust air grilles Est. total qty <u>09</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			

General impression (indicate recommendations for cleaning based on finding of WTC dust):

EXHAUST FAN UNIT - DUCT WORK HAS WTC RELATED DUST.
CLEANING IS REQUIRED FOR WTC RELATED DUST CLEAN THE
COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST FAN #5

Location:

3RD FL - ROOF 3RD FLOOR PLAGE

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

Y

N

- outside air duct

Y

N

- outside air damper(s)

Y

N

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

Y

N

- blower housing acoustical lining

Y

N

- vibration collars

NP

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 100 No. locations inspected 01Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

Y

N

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

NP

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

NP

- Exhaust air grilles Est. total qty 09 No. locations inspected 0

I

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

NO WTC RELATED DUST WAS OBSERVED, IN THE COMPONENTS OF THE FAN AND ITS ASSOCIATED DUCTS.

NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Ventilation System Identification:		Surface Dust/Debris Present?		WTC Dust Present?	Component
Location: <u>AC UNIT - CORRIER</u>		Area Served: <u>ELEVATOR ROOM</u>			• not present • not found • inaccessible
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N					
System Components [NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?		WTC Dust Present?	Component
Outside air intake: Location:					
Accessible for inspection? Y ☒ N ☐ (explain):					
- louvers, grates and/or screens		Y	N		
- outside air duct		Y	N		
- outside air damper(s)		Y	N		
Air handling unit:					
- outside air mixing chamber		Y	N		
- filter rack(s)		Y	N		
- filter media		Y	N		
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N		
- blower housing acoustical lining		Y	N		
- pre-heat coils					NP
- heating coils					NP
- cooling coils		Y	N		
- re-heat coils					NP
- condensate drain pan		Y	N		
- supply air plenum		Y	N		
- supply air plenum damper(s)					NP
- vibration collars		Y	N		
Supply air distribution:					
- Supply air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u>					
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N		
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____					NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____					NP
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____					NP
- Supply air diffusers Est. total qty <u>1</u> No. locations inspected <u>1</u>		Y	N		
Return air distribution:					
- Return air ducts Est. total ln ft <u>6</u> No. locations inspected <u>2</u>					
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N		
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>		Y	N		
- Return air plenum damper Est. total qty _____ No. locations inspected _____					NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____					NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____		Y	N		
- Return air grilles Est. total qty _____ No. locations inspected _____		Y	N		

4.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>HEAVY</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): - HEAVY ACCUMULATION OF REGULAR DEBRIS, NOT WTC RELATED DUST. - NO CLEANING IS REQUIRED FOR WTC RELATED DUST			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Central Ventilation System Visual Inspection Form

Ventilation System Identification:			
Location: <u>ROOF / 380 NORTHERN BLVD</u>		Area Served: <u>HALLWAYS - ALL FLOORS</u>	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location: _____			
Accessible for inspection? Y <u>✓</u> N _____ (explain):			
- louvers, grates and/or screens	Y	N	
- outside air duct	Y	N	
- outside air damper(s)	Y	N	
Air handling unit:			
- outside air mixing chamber	Y	N	
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- pre-heat coils	Y	N	
- heating coils			NP
- cooling coils			NP
- re-heat coils	Y	N	
- condensate drain pan	Y	N	
- supply air plenum	Y	N	
- supply air plenum damper(s)	Y	N	
- vibration collars	Y	N	
Supply air distribution:			
- Supply air ducts Est. total in ft <u>300</u> No. locations inspected <u>3</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>	Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NF
- Accessible turning vanes Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty <u>25</u> No. locations inspected <u>2</u>	Y	N	
Return air distribution:			
- Return air ducts Est. total in ft <u>10</u> No. locations inspected <u>2</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>	Y	N	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>	Y	N	
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NF
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NF
- Return air grilles Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>Heavy</u> ☒ Abraded/delaminated acoustical lining <u>Yes</u> ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): NO WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE SYSTEM NOR IN THE ASSOCIATED DUCTS. NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Identification:			
AC UNIT			
Location: LOBBY (FILING) / 380 REGOR PLACE		Area Served: LOBBY	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
Component			
• not present			
• not found			
• inaccessible			
Outside air intake: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens			NP
- outside air duct			NP
- outside air damper(s)			NP
Air handling unit:			
- outside air mixing chamber			NP
- filter rack(s)		Y	N
- filter media			NF
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N
- blower housing acoustical lining		Y	N
- pre-heat coils			NP
- heating coils			NP
- cooling coils		Y	N
- re-heat coils			NP
- condensate drain pan		Y	N
- supply air plenum		Y	N
- supply air plenum damper(s)			NP
- vibration collars			NP
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>40</u> No. locations inspected <u>2</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>		Y	N
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NF
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NF
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty <u>2</u> No. locations inspected <u>1</u>		Y	N
Return air distribution:			
- Return air ducts Est. total ln ft <u>4</u> No. locations inspected <u>2</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>		Y	N
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>		Y	N
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NF
- Return air grilles Est. total qty <u>1</u> No. locations inspected <u>1</u>		Y	N

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>NO FILTER</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): <u>NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM AND ITS ASSOCIATED DUCTS</u> <u>NO CLEANING IS REQUIRED FOR WTC RELATED DUST</u>			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:

WEST HEATING UNIT - LOBBY

Location:

LOBBY - 3RD FLOOR PLACE

Area Served:

LOBBY

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Outside air intake:

Location:

Accessible for inspection? Y ☐ N ☐ (explain):

- louvers, grates and/or screens

NP

- outside air duct

NP

- outside air damper(s)

NP

Air handling unit:

NP

- outside air mixing chamber

- filter rack(s)

NP

- filter media

Y

N

- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators

Y

N

- blower housing acoustical lining

Y

N

- pre-heat coils

Y

N

- heating coils

NP

- cooling coils

Y

N

- re-heat coils

NP

- condensate drain pan

NP

- supply air plenum

NP

- supply air plenum damper(s)

Y

N

- vibration collars

NP

Supply air distribution:

- Supply air ducts Est. total in ft 2 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

Y

N

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

NP

- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____

NP

- Supply air diffusers Est. total qty 3 No. locations inspected 1

NP

Return air distribution:

- Return air ducts Est. total in ft 2 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

Y

N

- Return air plenum Est. total RA plenum areas _____ No. locations inspected _____

- Return air plenum damper Est. total qty _____ No. locations inspected _____

Y

N

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

NP

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

NP

- Return air grilles Est. total qty 1 No. locations inspected 1

NP

Y

N

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>MODERATE</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): <u>NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM AND ITS ASSOCIATED DUCTS</u> <u>NO CLEANING IS REQUIRED FOR WTC RELATED DUST.</u>			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Identification:

EAST HEATING UNIT - LOBBY

Location:

LEBBY - 3RD - RAYOR PLACE

Area Served:

LOBBY

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Outside air intake: Location:

Accessible for inspection? Y ☐ N ☐ (explain):

- louvers, grates and/or screens

NP

- outside air duct

NP

- outside air damper(s)

NP

Air handling unit:

NP

- outside air mixing chamber

- filter rack(s)

NP

- filter media

Y

N

- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators

Y

N

- blower housing acoustical lining

Y

N

- pre-heat coils

Y

N

- heating coils

NP

- cooling coils

Y

N

- re-heat coils

NP

- condensate drain pan

NP

- supply air plenum

NP

- supply air plenum damper(s)

Y

N

- vibration collars

NP

Supply air distribution:

- Supply air ducts Est. total in ft 9 No. locations inspected 01Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

Y

N

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

NP

- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____

NP

- Supply air diffusers Est. total qty 21 No. locations inspected 01

NP

Return air distribution:

- Return air ducts Est. total in ft 9 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

Y

N

- Return air plenum Est. total RA plenum areas 1 No. locations inspected 1

- Return air plenum damper Est. total qty _____ No. locations inspected _____

Y

N

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

NP

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

NP

- Return air grilles Est. total qty 1 No. locations inspected 1

NP

Y

N

4.1 Central Ventilation System Visual Inspection Form

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify): 			
Other Information: Filter loading (light, moderate, heavy): <u>MODERATE</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General Impression (indicate recommendations for cleaning based on finding of WTC dust): <u>NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.</u> <u>NO CLEANING IS REQUIRED FOR WTC DUST.</u>			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Identification:			
Location:		Area Served:	
AC-1 COMPACTOR ROOM / 340 RECTOR PLACE		COMPACTOR ROOM	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y ☐ N ☐ (explain):			
- louvers, grates and/or screens			NP
- outside air duct			NP
- outside air damper(s)			NP
Air handling unit:			
- outside air mixing chamber			NP
- filter rack(s)	Y	Z	
- filter media	Y	Z	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	Z	
- blower housing acoustical lining	Y	Z	
- pre-heat coils			NP
- heating coils			NP
- cooling coils	Y	Z	
- re-heat coils			NP
- condensate drain pan	Y	Z	
- supply air plenum	Y	Z	
- supply air plenum damper(s)			NP
- vibration collars			NP
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>02</u> No. locations inspected <u>01</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood	Y	Z	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	
Return air distribution:			
- Return air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood	Y	Z	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>	Y	Z	
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Return air grilles Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>MODERATE</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM, ITS COMPONENTS AND ITS ASSOCIATED DUCTS. NO CLEANING IS REQUIRED FOR WTC RELATED DUST			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

Ventilation System Identification:		HV-1	
Location:	Area Served:		
BASEMENT - 3RD FLOOR PLATE	BASMENT STORAGE RMS, BULKER RM		
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens	Y	N	
- outside air duct	Y	N	
- outside air damper(s)	Y	N	
Air handling unit:			
- outside air mixing chamber	Y	N	
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- pre-heat coils	Y	N	
- heating coils	Y	N	
- cooling coils			NP
- re-heat coils			NP
- condensate drain pan			NP
- supply air plenum	Y	N	
- supply air plenum damper(s)	Y	N	
- vibration collars			NP
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>200</u> No. locations inspected <u>3</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Accessible in-line fire dampers Est. total qty <u>2</u> No. locations inspected <u>0</u>			NF
- Accessible turning vanes Est. total qty <u>2</u> No. locations inspected <u>2</u>	Y	N	
- In-line reheat/cooling coils Est. total qty <u>0</u> No. locations inspected <u>0</u>			NP
- Supply air diffusers Est. total qty <u>08</u> No. locations inspected <u>2</u>	Y	N	
Return air distribution:			
- Return air ducts Est. total ln ft <u>50</u> No. locations inspected <u>2</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood	Y	N	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>	Y	N	
- Return air plenum damper Est. total qty <u></u> No. locations inspected <u></u>			NP
- Accessible in-line fire dampers Est. total qty <u></u> No. locations inspected <u></u>			NP
- Accessible turning vanes Est. total qty <u></u> No. locations inspected <u></u>			NP
- Return air grilles Est. total qty <u></u> No. locations inspected <u></u>			NP

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>SOME FILTERS MISSING</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe) — FRESH AIR INTAKE DUCTWORK IS 100%, INSPECTED AT 3 LOCATIONS. NO WTC DEBRIS WAS OBSERVED. General impression (indicate recommendations for cleaning based on finding of WTC dust): FRESH AIR INTAKE PIT AREA FOR THIS UNIT HAS A CONSIDERABLE AMOUNT OF WTC RELATED DUST ON FLOOR. THERE IS NO NOTICEABLE WTC RELATED DUST IN DUCT WORK.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

4.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
Location:		Area Served:	
HV-2 BASEMENT - 3RD FLOOR PLACE		BASEMENT - CORRIDOR	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens	Y	N	
- outside air duct	Y	N	
- outside air damper(s)	Y	N	
Air handling unit:			
- outside air mixing chamber	Y	N	
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- pre-heat coils			NP
- heating coils	Y	N	
- cooling coils			NP
- re-heat coils			NP
- condensate drain pan			NP
- supply air plenum	Y	N	
- supply air plenum damper(s)	Y	N	
- vibration collars			NP
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>100</u> No. locations inspected <u>3</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Accessible in-line fire dampers Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NF
- In-line reheat/cooling coils Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Supply air diffusers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
Return air distribution:			
- Return air ducts Est. total ln ft <u>20</u> No. locations inspected <u>2</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>	Y	N	
- Return air plenum damper Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			NF
- Return air grilles Est. total qty <u> </u> No. locations inspected <u> </u>	Y	N	

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>MODERATE</u> ☐ Abraded/delaminated acoustical lining <u>YES</u> ☐ Filter bypass (describe) <u>FRESH AIR INTAKE DUCTWORK IS 125 LF, INSPECTED AT 8 LOCATIONS</u> <u>NO WTC DEBRIS WAS OBSERVED.</u>			
General impression (indicate recommendations for cleaning based on finding of WTC dust): <u>FRESH AIR INTAKE PIT AREA FOR THIS UNIT HAS A CONSIDERABLE</u> <u>AMOUNT OF WTC RELATED DUST ON FLOOR.</u> <u>THERE IS NO NOTICEABLE WTC RELATED DUST IN DUCT WORK.</u>			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

.....
HVAC Consulting Services

APPENDIX 16

Invoice #1

Contract No. CT 826-200300-19825 OCA No. 0000425814



ATHENICA
ENVIRONMENTAL SERVICES INC.

45-09 Greenpoint Avenue
Long Island City, N.Y. 11104

Tel (718) 784-7490
Fax (718) 784-4085

January 30, 2003

United States Environmental Protection Agency (USEPA)
Region 2
290 Broadway
New York, NY 10007-1866

Attn: Mr. Eric Wilson-Quadrant Coordinator
Tel# (212) 637-3150
Fax# (212) 637-3105

Re: 250 South End Avenue, Manhattan, NY
Evaluation Report for Building HVAC & Environmental Inspection for WTC Related Dust

Dear Mr. Wilson:

Athenica Environmental Services, Inc. and Duct Dusters performed Building HVAC & Environmental inspections on January 8 and January 23, 2003.

Qualifications:

Duct Dusters (DD) is a NADCA certified corporation. Mr. Matt Provenzano and Mr. Tony Gallo of DD performed the inspections of the HVAC and exhaust systems in conjunction with New York State certified Asbestos Inspectors Mr. Vasilis Bellos, Mr. Alex Kazakov of Athenica Environmental Services, Inc (AES) and Mr. Matthew Schoen of USEPA.

Background:

250 South End Avenue is a 19-story building with 109 residential units managed by RY Management (212) 534-7771. The manager of the building is Ms. Teresa Tota at 212-534-7771 ext. 118. The superintendent of the building is Mr. Andrew Reyniak 212-945-4346.

Post 9/11 Maintenance History:

No Post 9/11 Maintenance activity reports were available with the Building Management at the time of our inspection. Athenica made two attempts to obtain these reports by contacting RY- Management Ms. Sandra Kerin at 212 534 7771 ext.125, on January 9 and 10, 2003. Ms. Kerin has not returned our calls.

250 South End Avenue, Manhattan, NY

January 30, 2003

Inspection Details:

As part of the survey, the Mechanical and the Environmental Professionals inspected the HVAC system types listed below.

- A. A total of five (5) mechanical exhaust fans of kitchens and bathrooms located on the main roof, two (2) mechanical exhaust fans located on the roof of the elevator room, one (1) mechanical exhaust fan located on the roof of the ME room, two (2) mechanical exhaust fans located on the 14th floor, one (1) mechanical exhaust fan located in the basement.
- B. Two (2) chimneys stacks located on the main roof and two (2) chimneystacks located on the roof of the elevator room (these two (2) stacks were not inspected because the air outlets more than 20 lf. in height above the roof level).
- C. One (1) HVAC unit located on the roof of the elevator room and serving the elevator room
- D. One (1) AC-2 unit located in the compactor room and serving the lobby.
- E. One (1) heating unit located in the lobby and serving the east side of the lobby.
- F. One (1) heating unit located in the lobby and serving the west side of the lobby.
- G. One (1) HV-1 located in the basement and serving the basement rooms and the hallways on all floors.

Detailed identification data and visual inspections are documented in the attached checklists.

Summary of Findings:

HV-1 unit heavy accumulation of WTC related dust was observed inside the unit between the air intake grill and the filter. WTC related dust was not observed beyond the filters.

WTC related dust was observed in the mechanical exhaust fans # 03, 04, 05, 06, 07, 08, 09 (as they are numbered in the evaluation forms) in the units and their associated components. Approximately 1,300.00 linear feet of ductwork is covered with WTC related dust and needs to be cleaned.

All the other systems inspected appear to be free of WTC dust.

All the findings are documented in the attached evaluation forms.

Scope of Work:

Clean the exhaust fans # 03, 04, 05, 06, 07, 08, 09 located on the main roof, on the roof of the elevator room and on the 14th floor, along with their associated components and ducts.

Also clean the entire system of the HV-1 located in the basement.

Please feel free to contact me should you require any further information.

Sincerely,



Vasilis Bellos
Director of Operations

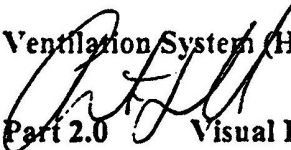
Attachments
Ventilation System Evaluation forms

Please complete this form in accordance with instructions in the accompanying guidance document

Part 1.0 General Information

Date of evaluation: 1/8/03	Building contact name and phone: TERESA TOTA 212 534-7711 EXT 118
Evaluation team (list name and affiliation):	
VASILIS BELLOS-ALEX. KAZAKOV-ATHENICA ENV. (Environmental professional)	
TONY GALEO-DUCT DUSTERS (HVAC professional)	
Building address:	Type of Facility (check all that apply):
250 SOUTH END AVE.	☒ Residential
NEW YORK NY.	☐ Multi-use
	☐ Other (describe)
Date of construction:	
Number of residential units: 109	Number of floors: 19
Prior inspection report/maintenance records available for review?:	
NO	
Other comments	
Ventilation system types (check all that apply and indicate total no. of units)	
Central ventilation system	Mechanical exhaust system
Est. no. of units 5	Est. no. of units 14
Mechanical make-up air system	Passive shaft/duct
Est. no. of units	Est. no. of units 1
Other (describe)	

I certify that to the best of my knowledge, the information and observations recorded on this form including all attachments are a true and accurate representation of site conditions.

Ventilation System (HVAC) Evaluator

 Part 2.0 Visual Inspection Forms

Date
 1/8/03

Use the attached forms to document visual inspections. Complete the forms in accordance with instructions in the accompanying guidance document.

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

EXHAUST #1

Location:

250 SOUTH END AVE / MAIN ROOF

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 180 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

- Exhaust air grilles Est. total qty 19 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

NO WTC RELATED DUST WAS OBSERVED.NO CLEANING IS REQUIRED FOR WTC DUST.BLACK DUST WAS OBSERVED IN THE COMPONENTS OF THE EXHAUST FAN.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

DRYER EXHAUST

Location:

250 SOUTH END AVE / MAIN ROOF

Area Served:

LAUNDRY RMSAssociated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

Y

N

- louvers, grates and/or screens

Y

N

- outside air duct

Y

N

- outside air damper(s)

Y

N

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

Y

N

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 180 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board

flex-duct wood

Y

N

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

- Exhaust air grilles Est. total qty _____ No. locations inspected _____

Other (specify):

Other Information:

EXHAUST NEEDS REGULAR MAINTENANCE

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- **NO WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE EXHAUST FAN.**
- **NO CLEANING IS REQUIRED FOR WTC RELATED DUST.**

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

EXHAUST #3

Location:

250 SOUTH END AVE / MAIN ROOF

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ✓ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 180 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 19 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- THE BLADES OF EXHAUST FAN ARE COVERED WITH WTC related dust.

- THE FIBERGLASS LINING IS COVERED WITH THIN COATING OF WTC dust.

- CLEANING IS REQUIRED FOR WTC RELATED DUST.

- CLEAN THE EXHAUST FAN UNIT ALONG WITH ITS COMPONENTS AND ITS ASSOCIATED DUCT.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
Location:		Area Served:	
EXHAUST #4			
250 SOUTH END AVE / MAIN ROOF			
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):	Y	Y	
- louvers, grates and/or screens	Y	Y	
- outside air duct	Y	Y	
- outside air damper(s)			NP
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>180</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	Y	
- Accessible in-line fire dampers Est. total qty. _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Exhaust air grilles Est. total qty <u>19</u> No. locations inspected <u>0</u>			I
Other (specify):			
Other Information:			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
— EXHAUST FAN COMPONENTS COVERED WITH <u>WTC</u> related dust. — CLEANING IS REQUIRED FOR WTC RELATED DUST. — CLEAN THE EXHAUST FAN UNIT ALONG WITH ITS COMPONENTS AND ASSOCIATED DUCT.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
EXHAUST #5			
Location: 250 SOUTH END AVE / MAIN ROOF		Area Served:	
Associated mechanical room: clean <u>Y</u> <u>N</u> dry <u>Y</u> <u>N</u> stored chemicals/refuse <u>Y</u> <u>N</u>			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):	Y	Y	
- louvers, grates and/or screens	Y	Y	
- outside air duct	Y	Y	
- outside air damper(s)			NP
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	Y	Y	
- blower housing acoustical lining			NP
- vibration collars			NP
Exhaust air distribution:			
- Exhaust air ducts Est. total in ft <u>180</u> No. locations inspected <u>1</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	Y	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Exhaust air grilles Est. total qty <u>19</u> No. locations inspected <u>2</u>			I
Other (specify):			
Other Information:			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
— EXHAUST FAN UNIT COVERED WITH WTC RELATED DUST. — CLEANING IS REQUIRED FOR WTC RELATED DUST. — CLEAN THE EXHAUST FAN UNIT AND ITS ASSOCIATED DUCTS.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

EXHAUST #6

Location:

250 SOUTH END AVE / ELEVATOR POCH ROOF

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 180 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 19 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- EXHAUST FAN UNIT & DUCT IS COVERED WITH WTC RELATED DUST.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN UNIT, ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

EXHAUST #7

Location:

250 SOUTH END AVE/ELEVATOR ROOM ROOF

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ✓ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 180 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal ~~masonry~~ ~~fibrous glass board~~
~~flex-duct~~ ~~wood~~- Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 19 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- EXHAUST FAN BLADES & DUCT LINING IS COVERED WITH WTC related dust.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN UNIT ALONG WITH ITS COMPONENTS AND ITS ASSOCIATED DUCT.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

R-F #4

Location:

250 SOUTH END AVE / ME RM ROOF

Area Served:

Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ☐ N ☒ (explain):

LOCATED ON THE SIDE OF THE BLDG.

I

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 180 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood- Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty 1 No. locations inspected 1- Exhaust air grilles Est. total qty 19 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- MINOR BLACK DUST WAS OBSERVED IN THE HOUSING OF THE BLOWER ASSEMBLY.
- NO WTC RELATED DUST WAS OBSERVED
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

EXHAUST #18

Location:

250 E. 4th Ave / 14th Floor Terrace

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ✓ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 140 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

- Exhaust air grilles Est. total qty 14 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- HEAVY ACCUMULATION OF WTC related dust. is COVERING THE UNIT COMPONENTS & ASSOCIATED duct.
- CLEANING IS REQUIRED FOR WTC RELATED DUST.
- CLEAN THE EXHAUST FAN ALONG WITH ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification:

EXHAUST # 9

Location:

250 SOUTH END AVE / 14th FLOOR TERRACE

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet: Location:

Accessible for inspection? Y ✓ N (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 140 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass boardflex-duct wood- Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty 14 No. locations inspected 0

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

— HEAVY ACCUMULATION OF WTC related dust is covering the unit's components & the duct.

— CLEAN THE EXHAUST FAN ALONG WITH ITS COMPONENTS AND ITS ASSOCIATED DUCTS.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

BASEMENT EXHAUST

Location:

250 SOUTH END AVE / BASEMENT

Area Served:

BASEMENT ROOMS- EXHAUSTAssociated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total ln ft 100 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

- Exhaust air grilles Est. total qty 3 No. locations inspected 3

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

EXHAUST IS CLEAN.NO CLEANING IS REQUIRED

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

CHIMNEY STACK #1

Location:

250 SOUTH END AVE / MAIN FLOOR

Area Served:

Associated mechanical room: clean Y N dry Y N stored chemicals/refuse Y N

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

N

N

N

N

N

N

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

N

N

NP

NP

NP

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 180 No. locations inspected Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

N

N

- Accessible in-line fire dampers Est. total qty No. locations inspected - Accessible turning vanes Est. total qty No. locations inspected - Exhaust air grilles Est. total qty No. locations inspected

Other (specify):

NP

NP

NP

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

NO CLEANING IS REQUIRED.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

CHIMNEY STACK #2

Location:

250 South Ave

Area Served:

Associated mechanical room: clean ☐ Y ☐ N dry ☐ Y ☐ N stored chemicals/refuse ☐ Y ☐ N

System Components

[NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?WTC
Dust
Present?Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☒ N ☐ (explain):

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft 180 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board

flex-duct wood

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

- Exhaust air grilles Est. total qty _____ No. locations inspected _____

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

- NO CLEANING IS REQUIRED.

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

CHIMNEY STACK #3

Location:

250 SOUTH END AVE - TOP OF THE ROOF OF THE ELEVATOR ROOM PENTHOUSE 2A

Area Served:

Associated mechanical room: clean ☐ Y ☐ N dry ☐ Y ☐ N stored chemicals/refuse ☐ Y ☐ N

System Components

[NOTE: If component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Surface
Dust/
Debris
Present?

WTC
Dust
Present?

Component
• not present
• not found
• inaccessible

Exhaust air outlet:

Location:

Accessible for inspection? Y ☐ N ☒ (explain): **INACCESSIBLE FOR INSPECTION AIR OUTLET MORE THAN 20 FT IN HEIGHT ABOVE THE ROOF**

- louvers, grates and/or screens

- outside air duct

- outside air damper(s)

Exhaust fan unit:

- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators

- blower housing acoustical lining

- vibration collars

Exhaust air distribution:

- Exhaust air ducts Est. total in ft _____ No. locations inspected _____
Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board
flex-duct wood

- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____

- Accessible turning vanes Est. total qty _____ No. locations inspected _____

- Exhaust air grilles Est. total qty _____ No. locations inspected _____

Other (specify):

Other Information:

General impression (indicate recommendations for cleaning based on finding of WTC dust):

KEY: NP = not present; NF = not found; I = inaccessible; U = unknown

Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:
Location: CHIMNEY STACK #4
 250 SOUTH END AVE - TOP OF THE ROOF OF THE ELEVATOR ROOM
Area Served: PENTHOUSE 2A PENTHOUSE 1C
Associated mechanical room: clean ☐ Y ☐ N dry ☐ Y ☐ N stored chemicals/refuse ☐ Y ☐ N

System Components
 [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]

Exhaust air outlet:	Location:	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Accessible for inspection? Y ☐ N ☒	(explain): INACCESSIBLE FOR INSPECTION AIR OUTLET MORE THAN 20 FT in HEIGHT ABOVE THE ROOF			
- louvers, grates and/or screens				I
- outside air duct				I
- outside air damper(s)				I
Exhaust fan unit:				
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators				I
- blower housing acoustical lining				I
- vibration collars				I
Exhaust air distribution:				
- Exhaust air ducts Est. total in ft _____ No. locations inspected _____				
Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board flex-duct wood				
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____				I
- Accessible turning vanes Est. total qty _____ No. locations inspected _____				I
- Exhaust air grilles Est. total qty _____ No. locations inspected _____				I
Other (specify):				I
Other Information:				

General impression (Indicate recommendations for cleaning based on finding of WTC dust):

Y: NP = not present; NF = not found; I = inaccessible; U = unknown

2.4 Passive Shaft/Duct Visual Inspection Form

Page 1 of 1

Passive Shaft/Duct Identification:			
Location:		Area Served:	
ELEVATOR ROOM / INTAKE EXHAUST		ELEVATOR ROOM	
250 SOUTH END AVE / ELEVATOR ROOM ROOF			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake (if servicing supply air): Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates, screens or weather cap	N	N	
Exhaust outlet/louver (if servicing exhaust air): Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates, screens or weather cap	N	N	
Supply air distribution (if servicing supply air):			
- Supply air outlet(s) Est. total qty _____ No. locations inspected _____			
Specify shaft substrate (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>			
- Accessible fire dampers Est. total qty _____ No. locations inspected _____			
- Pipes/mechanical equipment, etc. located in shaft			
Return air distribution (if servicing exhaust air):			
- Exhaust air inlet(s) Est. total qty _____ No. locations inspected _____			
Specify shaft substrate (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>			
- Accessible fire dampers Est. total qty _____ No. locations inspected _____			
- Pipes/mechanical equipment, etc. located in shaft			
Other (specify):			
Other Information: ESTIMATED (4) Linear feet - Type metal			
General impression (indicate recommendations for cleaning based on finding of WTC dust):			
- NO CLEANING IS REQUIRED			
- NO WTC RELATED DUST WAS OBSERVED			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:		Surface Dust/Debris Present?		WTC Dust Present?	Component
Location:		Area Served:			
HVAC - TRANE - ELEVATOR ROOM		ELEVATOR ROOM			
250 SOUTH END AVE / ROOFTOP ELEVATOR ROOM					
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N					
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?		WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:					
Accessible for inspection? Y ☒ N ☐ (explain):		Y	N		
- louvers, grates and/or screens		Y	N		
- outside air duct					NP
- outside air damper(s)					NP
Air handling unit:					
- outside air mixing chamber					NP
- filter rack(s)		Y	N		
- filter media		Y	N		
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N		
- blower housing acoustical lining		Y	N		
- pre-heat coils					NP
- heating coils		Y	N		
- cooling coils		Y	N		
- re-heat coils					NP
- condensate drain pan		N	N		
- supply air plenum		Y	N		
- supply air plenum damper(s)					NP
- vibration collars					NP
Supply air distribution:					
- Supply air ducts Est. total ln ft <u>6</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N		
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____					NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____					NP
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____					NP
- Supply air diffusers Est. total qty <u>1</u> No. locations inspected <u>1</u>		Y	N		
Return air distribution:					
- Return air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		Y	N		
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>		Y	N		
- Return air plenum damper Est. total qty <u>2</u> No. locations inspected <u>1</u>		Y	N		
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____					NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____					NP
- Return air grilles Est. total qty <u>1</u> No. locations inspected <u>1</u>		Y	N		

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify): 			
Other Information: Filter loading (light, moderate, heavy): <u>LIGHT</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): — BLACK DUST WAS OBSERVED IN VARIOUS COMPONENTS OF THE UNIT. — NO WTC RELATED DUST WAS OBSERVED. — NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
AC-2 UNIT			
Location: 250 SOUTH 100 Ave / 100th COMPACTOR ROOM		Area Served: LOBBY	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y ☐ N ☐ (explain):			NP
- louvers, grates and/or screens			NP
- outside air duct			NP
- outside air damper(s)			NP
Air handling unit:			
- outside air mixing chamber			NP
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- pre-heat coils			NP
- heating coils			NP
- cooling coils	Y	N	
- re-heat coils			NP
- condensate drain pan			NP
- supply air plenum	Y	N	
- supply air plenum damper(s)			NP
- vibration collars			NP
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>100</u> No. locations inspected <u>3</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>	Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	N	
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty <u>6</u> No. locations inspected <u>2</u>	Y	N	
Return air distribution:			
- Return air ducts Est. total ln ft <u>20</u> No. locations inspected <u>2</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>	Y	N	
- Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>	Y	N	
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Return air grilles Est. total qty _____ No. locations inspected _____			NP

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>LIGHT</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): — BLACK DUST WAS OBSERVED IN VARIOUS COMPONENTS OF THE UNIT. — NO WTC RELATED DUST WAS OBSERVED. — NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
<u>HEATING UNIT</u>			
Location: <u>250 SOUTH END AVE / LOBBY</u>		Area Served: <u>LOBBY EAST SIDE</u>	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y ☐ N ☐ (explain):			NP
- louvers, grates and/or screens			NF
- outside air duct			NP
- outside air damper(s)			NP
Air handling unit:			
- outside air mixing chamber			NP
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- pre-heat coils			NP
- heating coils	Y	N	
- cooling coils			NP
- re-heat coils			NP
- condensate drain pan			NP
- supply air plenum	Y	N	
- supply air plenum damper(s)			NP
- vibration collars			NP
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty _____ No. locations inspected _____			NP
Return air distribution:			
- Return air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood	Y	N	
- Return air plenum Est. total RA plenum areas _____ No. locations inspected _____			NP
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Return air grilles Est. total qty _____ No. locations inspected _____			NP

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>LIGHT</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): - BLACK DUST WAS OBSERVED IN VARIOUS COMPONENTS - NO WTC RELATED DUST WAS OBSERVED. - NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
HEATING UNIT			
Location:	250 SOUTH END AVE / LOBBY	Area Served:	LOBBY West Side
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y ☐ N ☐ (explain):			NP
- louvers, grates and/or screens			NP
- outside air duct			NF
- outside air damper(s)			NF
Air handling unit:			
- outside air mixing chamber			NP
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
- blower housing acoustical lining	Y	N	
- pre-heat coils			NP
- heating coils	Y	N	
- cooling coils			NP
- re-heat coils			NP
- condensate drain pan			NP
- supply air plenum	Y	N	
- supply air plenum damper(s)			NP
- vibration collars			NP
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood	Y	N	
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			
- Supply air diffusers Est. total qty _____ No. locations inspected _____			
Return air distribution:			
- Return air ducts Est. total ln ft <u>2</u> No. locations inspected <u>1</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood	Y	N	
- Return air plenum Est. total RA plenum areas _____ No. locations inspected _____			NP
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Return air grilles Est. total qty _____ No. locations inspected _____			NF

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>LIGHT</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): BLACK DUST WAS OBSERVED. - NO WTC RELATED DUST WAS OBSERVED. - NO CLEANING IS REQUIRED FOR WTC RELATED DUST.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
HV-1 / TRANE			
Location: 250 SOUTH END AVE / BASEMENT		Area Served: BASEMENT ROOMS & HALLWAYS ALL FLOORS	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☐ Y ☒ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location:			
Accessible for inspection? Y ☒ N ☐ (explain):			
- louvers, grates and/or screens	Y	Y	
- outside air duct	Y	Y	
- outside air damper(s)			NP
Air handling unit:			
- outside air mixing chamber			NP
- filter rack(s)	Y	N	
- filter media	Y	N	
- blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	N	N	
- blower housing acoustical lining	N	N	
- pre-heat coils			NP
- heating coils	N	N	
- cooling coils			NP
- re-heat coils			NP
- condensate drain pan			NP
- supply air plenum	N	N	
- supply air plenum damper(s)			NP
- vibration collars			NP
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>200</u> No. locations inspected <u>3</u> Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood	N	N	
- Accessible in-line fire dampers Est. total qty <u>1</u> No. locations inspected <u>1</u>	N	N	
- Accessible turning vanes Est. total qty <u>1</u> No. locations inspected <u>1</u>	N	N	
- In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
- Supply air diffusers Est. total qty <u>2</u> No. locations inspected <u>2</u>	N	N	
Return air distribution:			
- Return air ducts Est. total ln ft _____ No. locations inspected _____ Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			NP
- Return air plenum Est. total RA plenum areas _____ No. locations inspected _____			NP
- Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
- Accessible turning vanes Est. total qty _____ No. locations inspected _____			NP
- Return air grilles Est. total qty _____ No. locations inspected _____			NP

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>HEAVY</u> ☐ Abraded/delaminated acoustical lining ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): — WTC DUST IS PRESENT - ONLY IN FRESH AIR INTAKE UP TO FILTERS. — WTC related dust was not observed beyond the filters. — CLEANING IS REQUIRED FOR WTC RELATED DUST FOR THE ENTIRE SYSTEM.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

HVAC Consulting Services

APPENDIX 17

Invoice #1

Contract No. CT 826-200300-19825 OCA No. 0000425814

WTC HVAC Consulting Quad B

Summary of Visits

Date	Building	Comments
4/2/03	275 Greenwich St.	Continued cleaning on schedule. Total of 6 exhaust fans and risers have been completed. No one was present to field verify the quantities of cleaned equipment.
4/8/03	295 Greenwich St.	Started cleaning of HV unit and associated ductwork in basement. Correctly used 2 HEPA vacuum units in series for exhausted (cleaned) air. Should complete building by 4/9.
4/9/03	295 Greenwich St.	Started and completed cleaning of exhaust riser. Cleaning of entire building completed.
4/10/03	130 Water St.	Started and completed cleaning of exhaust riser. Cleaning of entire building completed. Anthony Faloduro of Cole Consulting was present for the duration of the cleaning.

WTC HVAC Consulting Quad C

Summary of Visits

Date	Building	Comments
3/25/03	49 Fulton St.	Roof top clean up completed. TX-1 and TX-8 risers cleaned. Apartments connected to risers sealed off.
3/26/03	49 Fulton St.	Continued cleaning of the lower section of the risers. Gained access to apartments, set up tents and cleaned according to procedure.
3/28/03	75-81 Nassau	Started and completed cleaning. Inspected by Tony Gallo from Dust Dusters and was confirmed that scope was met.
3/31/03	275 Water St.	Completed cleaning the 8 roof exhaust fans and risers. Finishing vents and rest of building on 4/1.
4/2/03	66 Frankfort St.	Completed cleaning of compactor exhaust fan.
4/2/03	80 Beekman St.	Completed cleaning of elevator shaft exhaust fan.
4/7/03	90 Beekman St.	Cleaning rescheduled for May1 or 2 due to Passover and possible strike.
4/7/03	90 Gold St.	Cleaning rescheduled for May1 or 2 due to Passover and possible strike.
4/14/03	33 Gold St.	Started cleaning of exhaust fans and risers. Used Tement Technologies HEPA Aire 2500 Portable VAC, with Champell Hansfield W261001AJ Compressor (8.1scfm @ 40 psi, 6.1 scfm @ 90 psi, 125 psi max).
4/15/03	33 Gold St.	Continued and completed cleaning of exhaust fans and risers. Started cleaning of apartments in 2 riser lines and then the rest of the affected building on the 7th floor.
4/16/03	33 Gold St.	Continued and completed cleaning of apartments' entire building completed. Witnessed re-inspection. 2 exhausts fans failed re-inspection since they were inaccessible to clean with standard equipment (vacuum or by hand). They will be re-cleaned via power washer at a later date.
4/28/03	176 Broadway	Gained access to all apartments and sealed off the vents. There are two apartments that share an impacted riser that are part of the 11 Maiden Lane apartment complex, totaling 2 bathrooms and 1 kitchen. Scheduled to start exhaust fan cleaning tomorrow and individual apartments on the following day until thurs.
4/29/03	176 Broadway	Completed cleaning 6 exhaust fans and 3 risers. The day was cut short due to rain.
4/30/03	176 Broadway	Completed cleaning of all exhaust fans and risers. Identified one exhaust fan and riser as part of the adjacent building (11 Maiden Ln.) which is not in the scope of work and therefore has been removed.
5/1/03	176 Broadway	Started and completed cleaning of AC unit. Started cleaning of apartments and finished cleaning 3 apartments of the 7th floor through the penthouse floor. Entire building scheduled for completion on 5/2.
5/1/03	176 Broadway	Completed apartment cleaning. Entire building cleaning completed
5/1/03	33 Gold St.	Power washed the remaining 2 exhaust fans that had failed inspection

WTC HVAC Consulting

Quad D

Summary of Visits

Date	Building	Comments
3/26/03	350 Albany St.	Started duct cleaning on west section of building. Ran into some problems due to blockage of ducts on the upper floors (12-14) by construction debris from penthouse renovation. Used two Niro twin vacuum, 5000 cfm (2500 each) HEPA filter, with 3-4" static pressure at outlet with negative pressure at inlet with heavy duty flexible hose.
3/27/03	350 Albany St.	Completed cleaning of ducts on west section of building. Started cleaning on middle section of building.
3/27/03	300 Albany St.	Cleaned HV and AC unit, and associated ducts. No tents used while working in pump room. Vacuum located inside, but exhaust sent outside via flexible hose.
3/28/03	300 Albany St.	Finished cleaning HV and AC unit and associated ductwork in pump room. Vacuum located inside, but exhaust sent outside via flexible hose.
3/31/03	250 South End Ave.	Cleaned HV unit and associated ductwork.
4/3/02	300 Albany St.	Continued with cleaning and completed 4 risers and their associated ductwork. Expected to complete building on 4/4 and inspected on 4/7.
4/3/02	250 South End Ave.	Continued with cleaning and completed 2 risers and their associated ductwork. HV unit and ductwork has been completed.
4/8/02	2 South End Ave.	Cleaned and completed 5 exhaust fans and risers.
4/9/03	2 South End Ave.	Continued with cleaning and completed the remaining 3 exhaust fans and risers.
4/9/03	380 Rector Place	Started and completed cleaning of HV unit and exhaust fan. Entire building completed with the exception of 1 riser.
4/10/03	2 South End Ave.	There were some unresolved issues pertaining to the scope of work. SSC was unsure whether the enclosed area above the gym ceiling was part of the return system. We determined that since this enclosed area was separated from the rest of the gym ceiling but connected to the return plenum that this was indeed an extension of the return air plenum and thus a component of the HV unit. The lobby slotted registers/grilles were looked at to determine the approximate amount of cleaning required.
4/14/03	2 South End Ave.	Started and finished cleaning of Hv unit, completing cleaning of the building. Witnessed re-inspection of building with Tony Gallo of Duct Dusters. Building passed inspection.
4/15/03	380 Rector Place	Completed cleaning of riser. Entire building cleaned for re-inspection