



ATHENICA
ENVIRONMENTAL SERVICES INC.

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

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

380 RECTOR PL.

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.



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.

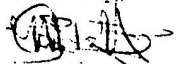
Summary of Findings:

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 Est. no. of units <u>8</u>	Mechanical exhaust system Est. no. of units <u>10</u>
Mechanical make-up air system Est. no. of units	Passive shaft/duct 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 380 DIRECTOR PLACE

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 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 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

ELEVATOR ROOM EXHAUST UNIT

Location: <u>ELEVATOR ROOM 380 DECTOR PLACE</u>		Area Served: <u>ELEVATOR ROOM</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?
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)			NP
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>4</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
- 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>1</u> No. locations inspected <u>1</u>		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 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

2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST

Location:

Rm 300 RECORD PLAC

Area Served:

WATER PUMP RM 5

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 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 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

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST

Location:

300 RECTRI PLACE - MAIN ROOF - WATER PUMP ROOM

Area Served:

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]

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 300 No. locations inspected 03

Specify 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 01 No. locations inspected 01

- Exhaust air grilles Est. total qty 25 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 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 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:

MECHANICAL EXHAUST

Location:

ROOF - WATERPUMP ROOM - 380 PECTOR PLACE

Area Served:

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?	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			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>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

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification:			
MECHANICAL EXHAUST FAN #1			
Location: 9th Floor - 330 Rector Place		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 <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	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

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification: MECHANICAL EXHAUST FAN #2			
Location: 9th FL - ROOF / 380 PETER PLACE		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 100 No. locations inspected 01			
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 _____ 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

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification: <u>MECHANICAL EXHAUST FAN #13</u>			
Location: <u>9th FLOOR / 380 PECTOR 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 <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>
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>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>N</u>
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			<u>NP</u>
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			<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

2.2 Mechanical Exhaust System Visual Inspection Form

Page 1 of 1

Mechanical Exhaust System Identification: <u>MECHANICAL EXHAUST FAN # 4</u>			
Location: <u>9th FLOOR - ROOM 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?
Exhaust air outlet: Location: _____			
Accessible for inspection? Y <u>✓</u> N _____ (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:		<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		<u>Y</u>	<u>Y</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>Y</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):

EXHAUST FAN UNIT - DUCT WORK HAS WTC RELATED DUST.
CLEANING IS REQUIRED FOR WTC RELATED DUCT CLEAN THE
COMPONENTS OF THE FAN 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:

5th - Roof 380 RECTOR PLACE

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

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
AC Unit - <u>CARRIER</u>			
Location: <u>ELEVATOR ROOM / 380 RECTOR PLACE</u>		Area Served: <u>ELEVATOR ROOM</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):			
- 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	

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): - 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			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
Location: <u>AC UNIT</u>		Area Served: <u>HALLWAYS - ALL FLOORS</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):			
- 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)	Y	N	
- vibration collars	Y	N	
Supply air distribution:			
- Supply air ducts Est. total ln ft <u>300</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 _____ 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 ln ft <u>10</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 _____			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			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
Location: <u>AC UNIT</u>		Area Served: <u>LOBBY</u>	
Associated mechanical room: clean <u>✓Y</u> N dry <u>✓Y</u> N stored chemicals/refuse <u>Y</u> ✓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 <u>✓</u> 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> masonry fibrous glass board flex-duct wood	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> 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 _____			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			

2.1 Central 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]

Outside air intake:	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

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

Y

N

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 ln 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 ln 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

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 ☐ Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): NO WTC RELATED DUST WAS OBSERVED IN THE SYSTEM AND ITS ASSOCIATED DUCTS 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:

EAST HEATING UNIT- LOBBY

Location:

LOBBY - 380-RECTOR 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

- 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 ln ft 9 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 _____ 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 21 No. locations inspected 01

Return air distribution:

- Return air ducts Est. total ln 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 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			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
Location: <u>4C-1</u>		Area Served: <u>COMPACTOR ROOM</u>	
Associated mechanical room: clean <u>Y</u> N dry <u>Y</u> N stored chemicals/refuse <u>Y</u> 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 <u> </u> N <u> </u> (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	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)			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	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
- In-line reheat/cooling coils Est. total qty <u> </u> No. locations inspected <u> </u>			NP
- Supply air diffusers Est. total qty <u>1</u> No. locations inspected <u>1</u>	Y	Y	
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	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> </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>1</u> No. locations inspected <u>1</u>	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>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			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification:			
HV-1			
Location: BASEMENT - 380 RECTOR PLACE		Area Served: BASEMENT STORAGE RMS, BULK 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>68</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 _____ 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>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			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification: <u>HV-2</u>			
Location: <u>BASEMENT - 3RD FLOOR PLACE</u>		Area Served: <u>BASEMENT - CORRIDOR</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?
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> <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>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> <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>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) - FRESH AIR INTAKE DUCTWORK IS 125 LF, 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			

.....
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

VENTILATION SYSTEM EVALUATION

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

Part 1.0 General Information

Date of evaluation: <u>1/8/03</u>	Building contact name and phone: <u>TERESA TOTA ²¹³ 534-7711 ^{EXT} 118</u>
Evaluation team (list name and affiliation):	
<u>VASILIS BELLOS - ALEX KAZAKOV - ATHENICA ENV.</u> (Environmental professional)	
<u>TONY GALEO - DUCT DUSTERS</u> (HVAC professional)	
Building address:	Type of Facility (check all that apply):
<u>250 SOUTH END AVE.</u>	☒ Residential
<u>NEW YORK NY.</u>	☐ Multi-use
	☐ Other (describe)
Date of construction:	
Number of residential units: <u>109</u>	Number of floors: <u>19</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>5</u>	Est. no. of units <u>14</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
1/8/03

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: <u>EXHAUST #1</u>			
Location: <u>250 SOUTH END AVE / MAIN ROOF</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? Y <u>✓</u> N <u> </u> (explain):		<u>Y</u>	<u>N</u>
- 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>NP</u>
Exhaust fan unit:			
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators		<u>N</u>	<u>N</u>
- blower housing acoustical lining			<u>NP</u>
- vibration collars			<u>NP</u>
Exhaust air distribution:			
- Exhaust air ducts Est. total ln ft <u>180</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>N</u>
- Accessible in-line fire dampers Est. total qty <u> </u> No. locations inspected <u> </u>			<u>NP</u>
- Accessible turning vanes Est. total qty <u> </u> No. locations inspected <u> </u>			<u>NP</u>
- Exhaust air grilles Est. total qty <u>19</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): <u>NO WTC RELATED DUST WAS OBSERVED.</u> <u>NO CLEANING IS REQUIRED FOR WTC DUST.</u> <u>BLACK DUST WAS OBSERVED IN THE COMPONENTS OF THE EXHAUST FAN.</u>			
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>250 SOUTH END AVE / MAIN ROOF</u>		Area Served: <u>LAUNDRY RMS</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 _____ (explain):	Y	N	
- louvers, grates and/or screens	Y	N	
- outside air duct	Y	N	
- outside air damper(s)	Y	N	
Exhaust fan unit:			NP
- 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>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	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 _____ No. locations inspected _____			NP
Other (specify):			
Other Information: <u>EXHAUST NEEDS REGULAR MAINTENANCE</u>			
General impression (indicate recommendations for cleaning based on finding of WTC dust): <u>— No WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE EXHAUST FAN.</u> <u>— No CLEANING IS REQUIRED FOR WTC RELATED DUST.</u>			
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 #3			
950 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 ln 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):			
- 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:			
EXHAUST #4			
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>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:			
Location: <u>EXHAUST #5</u> <u>250 SOUTHEND AVE / MAIN ROOF</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 ☒ 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 ln ft <u>180</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 _____ 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): <u>— EXHAUST FAN UNIT COVERED WITH WTC related dust.</u> <u>— CLEANING IS REQUIRED FOR WTC RELATED DUST.</u> <u>— CLEAN THE EXHAUST FAN UNIT AND ITS ASSOCIATED DUCTS.</u>			
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 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)

Y

Y

Y

Y

Y

Y

NP

Exhaust fan unit:

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

- blower housing acoustical lining

- vibration collars

Y

Y

Y

Y

NP

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

Y

Y

- 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

NP

NP

I

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):

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 ln ft 180 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass boardflex-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 19 No. locations inspected 0

I

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

Y

N

- blower housing acoustical lining

NP

- vibration collars

N

N

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

N

N

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

N

N

NP

- Exhaust air grilles Est. total qty 19 No. locations inspected 0

I

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 #1B

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 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):

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 ln ft 140 No. locations inspected 1Specify type (circle): metal fibrous glass lined metal masonry fibrous glass boardflex-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 14 No. locations inspected 0

I

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 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 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):

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 W 14th 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 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 _____ 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

2.2 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 ln 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

Mechanical Exhaust System 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 <u>N</u> ☒ (explain):	<u>INACCESSIBLE FOR INSPECTION</u> <u>AIR OUTLET MORE THAN</u> <u>20 FT IN HEIGHT ABOVE THE ROOF</u>			
- louvers, grates and/or screens				<u>I</u>
- outside air duct				<u>I</u>
- outside air damper(s)				<u>I</u>
Exhaust fan unit:				<u>I</u>
- blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators				
- blower housing acoustical lining				<u>I</u>
- vibration collars				<u>I</u>
Exhaust air distribution:				<u>I</u>
- Exhaust air ducts Est. total ln ft _____ No. locations inspected _____				
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>				
- Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____				<u>I</u>
- Accessible turning vanes Est. total qty _____ No. locations inspected _____				<u>I</u>
- Exhaust air grilles Est. total qty _____ No. locations inspected _____				<u>I</u>
Other (specify): _____				<u>I</u>
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: 250 SOUTH END AVE / ELEVATOR ROOM ROOF		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):	N	N	
- louvers, grates, screens or weather cap	N	N	
Exhaust outlet/louver (if servicing exhaust air): Location: Accessible for inspection? Y ☒ N ☐ (explain):	N	N	
- 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:			
HVAC - TRANE - ELEVATOR ROOM			
Location: 250 SOUTH END Ave / ROOFTOP ELEVATOR ROOM		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
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): <u>— BLACK DUST WAS OBSERVED IN VARIOUS 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			

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): <u>— BLACK DUST WAS OBSERVED IN VARIOUS 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			

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 EAST 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			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:			
<u>HEATING UNIT</u>			
Location: <u>250 SOUTH END AVE / LOBBY</u>		Area Served: <u>LOBBY WEST 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			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): <u>BLACK DUST WAS OBSERVED.</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			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification: <u>HV-1 / TRANE</u>			
Location: <u>250 SOUTH END AVE / BASEMENT</u>		Area Served: <u>BASEMENT ROOMS & HALLWAYS ALL FLOORS</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):			
- louvers, grates and/or screens		Y	Y
- outside air duct		Y	Y
- outside air damper(s)			
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		N	N
- blower housing acoustical lining		N	N
- pre-heat coils			
- heating coils		N	N
- cooling coils			
- re-heat coils			
- condensate drain pan			
- supply air plenum		N	N
- supply air plenum damper(s)			
- vibration collars			
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> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>		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 _____			
- 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> <u>fibrous glass lined metal</u> <u>masonry</u> <u>fibrous glass board</u> <u>flex-duct</u> <u>wood</u>			
- Return air plenum Est. total RA plenum areas _____ No. locations inspected _____			
- 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 _____ No. locations inspected _____			

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>WTC DUST IS PRESENT ONLY IN FRESH AIR INTAKE UP TO FILTERS.</u> <u>WTC related dust was not observed beyond the filters.</u> <u>CLEANING IS REQUIRED FOR WTC RELATED DUST FOR THE ENTIRE SYSTEM.</u>			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			