NYC 9/11 Public Portal Document

250 SOUTH END AVE

NYC 9/11 Public Portal Document

ATHENICA
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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.

NYC-WTC_000117346

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 FORM

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

Part 1.0 General Information

Date of evaluation: 1/8/03	Building contact name and phone: TERESA TOTA 212 534-7711 EXT 118
Evaluation team (list name and affiliation):	
VASILIS BELLOS - ALEX KAZAKOV - ATHENICA ENV.	(Environmental professional)
TONY - GALLO - DUCT DUSTERS	(HVAC professional)
Building address:	Type of Facility (check all that apply):
250 SOUTH END AVE.	X Residential
NEW YORK N.Y.	Multi-use
	Other (describe)
Date of construction:	
Number of residential units: 109	Number of floors: 19
Prior inspection report/maintenance records available for review?: NO	
Other comments	

Ventilation system types (check all that apply and indicate total no. of units)

Central ventilation system Est. no. of units 5	Mechanical exhaust system Est. no. of units 14
Mechanical make-up air system Est. no. of units	Passive shaft/duct Est. no. of units 1
Other (describe)	

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

Ventilation System (HVAC) Evaluator **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

Mechanical Exhaust System Identification: EXHAUST #1

Location: 250 SOUTHEND 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):	Y	N	
– 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	N	N	
– blower housing acoustical lining			NP
– vibration collars			NP
Exhaust air distribution: – Exhaust air ducts Est. total ln ft 180 No. locations inspected 1 Specify 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 19 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.

– NO CLEANING IS REQUIRED FOR WTC DUST.

– BLACK DUST WAS OBSERVED IN THE COMPONENTS OF THE EXHAUST FAN.

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

2.2 Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification: DRYER EXHAUST

Location: 250 SOUTHEND AVE/MAIN ROOF

Area Served: LAUNDRY RMS

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	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 180 No. locations inspected 1 Specify 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___ No. locations inspected___			NP
Other (specify):			

Other Information:

EXHAUST NEEDS REGULAR MAINTENANCE

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

– NO WTC RELATED DUST WAS OBSERVED IN THE COMPONENTS OF THE EXHAUST FAN.

– NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

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

2.2 Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification: EXHAUST #3

Location: 250 SOUTHEND 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):	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 1 Specify type (circle): (metal) (fibrous glass lined metal) masonry fibrous glass board flex-duct wood	Y	Y	
– Accessible in-line fire dampers Est. total qty___ No. locations inspected___			NP
– Accessible turning vanes Est. total qty___ No. locations inspected___			NP
– Exhaust air grilles Est. total qty 19 No. locations inspected 0			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

Mechanical Exhaust System Identification: EXHAUST #4

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):	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 1 Specify type (circle): metal, fibrous glass lined metal, masonry, fibrous glass board, flex-duct, wood	Y	Y	
– Accessible in-line fire dampers Est. total qty___ No. locations inspected___			NP
– Accessible turning vanes Est. total qty___ No. locations inspected___			NP
– Exhaust air grilles Est. total qty 19 No. locations inspected 0			I
Other (specify):			

Other Information:

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

— EXHAUST FAN COMPONENTS COVERED WITH WTC 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

Mechanical Exhaust System Identification: EXHAUST #5

Location: 250 SOUTHEND 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):	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 1 Specify type (circle): metal, fibrous glass lined metal, masonry, fibrous glass board, flex-duct, wood	Y	Y	
– Accessible in-line fire dampers Est. total qty____ No. locations inspected____			NP
– Accessible turning vanes Est. total qty____ No. locations inspected____			NP
– Exhaust air grilles Est. total qty 19 No. locations inspected 2			I
Other (specify):			

Other Information:

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

— EXHAUST FAN UNIT COVERED WITH WTC related dust.
— CLEANING IS REQUIRED FOR WTC RELATED DUST.
— CLEAN THE EXHAUST FAN UNIT AND ITS ASSOCIATED DUCTS.

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

2.2 Mechanical Exhaust System Visual Inspection Form

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):	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	Y	Y	
– vibration collars			NP
Exhaust air distribution: – Exhaust air ducts Est. total ln ft 180 No. locations inspected 1 Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board flex-duct wood	Y	Y	
– Accessible in-line fire dampers Est. total qty_____ No. locations inspected_____			NP
– Accessible turning vanes Est. total qty_____ No. locations inspected_____			NP
– Exhaust air grilles Est. total qty 19 No. locations inspected 0			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

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 1 Specify type (circle): (metal) (fibrous glass lined metal) masonry fibrous glass board flex-duct wood	Y	Y	
– Accessible in-line fire dampers Est. total qty_____ No. locations inspected_____			NP
– Accessible turning vanes Est. total qty_____ No. locations inspected_____			NP
– Exhaust air grilles Est. total qty 13 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

Mechanical Exhaust System Identification: R-F #4

Location: 250 SOUTH END AVE / HE 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 1 Specify type (circle): (metal) fibrous glass lined metal masonry fibrous glass board flex-duct wood	N	N	
– Accessible in-line fire dampers Est. total qty ___ No. locations inspected ___			NP
– Accessible turning vanes Est. total qty 1 No. locations inspected 1	N	N	
– 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 TH 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

Mechanical Exhaust System Identification: EXHAUST #B

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	Y	Y	
– outside air duct	Y	Y	
– outside air damper(s)	Y	Y	
Exhaust fan unit:			NP
– blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators			
– blower housing acoustical lining	Y	Y	
– vibration collars			NP
Exhaust air distribution:			NP
– Exhaust air ducts Est. total ln ft 140 No. locations inspected 1 Specify type (circle): metal, fibrous glass lined metal, masonry, fibrous glass board, flex-duct, wood	Y	Y	
– Accessible in-line fire dampers Est. total qty ___ No. locations inspected ___			NP
– Accessible turning vanes Est. total qty ___ No. locations inspected ___			NP
– Exhaust air grilles Est. total qty 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 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 1 Specify type (circle): metal, fibrous glass lined metal, masonry, fibrous glass board, flex-duct, wood	Y	Y	
– Accessible in-line fire dampers Est. total qty___ No. locations inspected___			NP
– Accessible turning vanes Est. total qty___ No. locations inspected___			NP
– Exhaust air grilles Est. total qty 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

Mechanical Exhaust System Identification: BASEMENT EXHAUST

Location: 250 SOUTH END AVE / BASEMENT

Area Served: BASEMENT ROOMS - 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	N	N	
– outside air duct	N	N	
– outside air damper(s)	N	N	
Exhaust fan unit:			NP
– blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators			
– blower housing acoustical lining	N	N	
– vibration collars			NP
Exhaust air distribution:			NP
– Exhaust air ducts Est. total ln ft 100 No. locations inspected 1 Specify type (circle): (metal) fibrous glass lined metal masonry fibrous glass board flex-duct wood	N	N	
– Accessible in-line fire dampers Est. total qty_____ No. locations inspected_____			NP
– Accessible turning vanes Est. total qty_____ No. locations inspected_____			NP
– Exhaust air grilles Est. total qty 3 No. locations inspected 3	N	N	
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

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	N	N	
– outside air duct	N	N	
– outside air damper(s)	N	N	
Exhaust fan unit:			NP
– blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators			
– blower housing acoustical lining	N	N	
– vibration collars			NP
Exhaust air distribution:			NP
– 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	N	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:

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

Mechanical Exhaust System Identification: CHIMNEY STACK #2

Location: 250 South End Ave

Area Served:

Associated mechanical room: clean___Y___N dry___Y___N stored chemicals/refuse___Y___N

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Exhaust air outlet: Location: Accessible for inspection? Y ✓ N___(explain):	N	N	
– louvers, grates and/or screens	N	N	
– outside air duct	N	N	
– outside air damper(s)			NP
Exhaust fan unit:			
– blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators	N	N	
– blower housing acoustical lining			NP
– vibration collars			NP
Exhaust air distribution: – Exhaust air ducts Est. total ln ft 180 No. locations inspected 1 Specify type (circle): (metal) fibrous glass lined metal (masonry) fibrous glass board flex-duct wood	N	N	
– Accessible in-line fire dampers Est. total qty___ No. locations inspected___			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:

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

Mechanical Exhaust System Identification: CHIMNEY STACK #3

Location: 250 SOUTH END AVE - TOP OF THE ROOF OF THE ELEVATOR ROOM

Area Served: PII

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): INACCESIBLE FOR INSPECTION AIR OUTLET MORE THAN 20 ft in HEIGHT ABOVE THE ROOF			I
– louvers, grates and/or screens			I
– outside air duct			I
– outside air damper(s)			I
Exhaust fan unit:			
– blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators			I
– blower housing acoustical lining			I
– vibration collars			I
Exhaust air distribution: – Exhaust air ducts Est. total ln ft____ No. locations inspected____ Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board flex-duct wood			I
– Accessible in-line fire dampers Est. total qty____ No. locations inspected____			I
– Accessible turning vanes Est. total qty____ No. locations inspected____			I
– Exhaust air grilles Est. total qty____ No. locations inspected____			I
Other (specify):			
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

2.2 Mechanical Exhaust System Visual Inspection Form

Mechanical Exhaust System Identification: CHIMNEY STACK #4

Location: 250 SOUTH END AVE - TOP OF THE ROOF OF THE ELEVATOR ROOM

Area Served: PII

PII

Associated mechanical room: clean____Y____N dry____Y____N stored chemicals____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): INACCESIBLE FOR INSPECTION AIR OUTLET MORE THAN 20 ft in HEIGHT ABOVE THE ROOF			
– louvers, grates and/or screens			I
– outside air duct			I
– outside air damper(s)			I
Exhaust fan unit:			I
– blower assembly incl. blower wheel, housing, air vanes, in-line noise attenuators			
– blower housing acoustical lining			I
– vibration collars			I
Exhaust air distribution:			I
– 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____			I
– Accessible turning vanes Est. total qty____ No. locations inspected____			I
– Exhaust air grilles Est. total qty____ No. locations inspected____			I
Other (specify):			I
Other Information:			

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

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

2.4 Passive Shaft/Duct Visual Inspection Form

Passive Shaft/Duct Identification: ELEVATOR ROOM / INTAKE EXHAUST

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): metal fibrous glass lined metal masonry fibrous glass board flex-duct wood			
– 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): metal fibrous glass lined metal masonry fibrous glass board flex-duct wood			
– 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

Ventilation System Identification: HVAC-TRANE - ELEVATOR ROOM

Location: 250 SOUTHEND 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 6 No. locations inspected 1 Specify 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
– In-line reheat/cooling coils Est. total qty ___ No. locations inspected ___			NP
– Supply air diffusers Est. total qty 1 No. locations inspected 1	Y	N	
Return air distribution: – Return air ducts Est. total ln ft 2 No. locations inspected 1 Specify type (circle): (metal) fibrous glass lined metal masonry fibrous glass board flex-duct wood	Y	N	
– Return air plenum Est. total RA plenum areas 1 No. locations inspected 1	Y	N	
– Return air plenum damper Est. total qty 2 No. locations inspected 1	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	Y	N	

2.1 Central Ventilation System Visual Inspection Form

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			

Other Information:

Filter loading (light, moderate, heavy): LIGHT

☐ Abraded/delaminated acoustical lining

☐ Filter bypass (describe)

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

— BLACK DUST WAS OBSERVED IN VARIOUS COMPONENTS OF THE UNIT.

— NO WTC RELATED DUST WAS OBSERVED.

— NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

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

2.1 Central Ventilation System Visual Inspection Form

Ventilation System Identification: AC-2 UNIT

Location: 250 South End Ave / [illegible] 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 100 No. locations inspected 3 Specify 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 1 No. locations inspected 1	Y	N	
– In-line reheat/cooling coils Est. total qty ___ No. locations inspected ___			NP
– Supply air diffusers Est. total qty 6 No. locations inspected 2	Y	N	
Return air distribution: – Return air ducts Est. total ln ft 20 No. locations inspected 2 Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board flex-duct wood	Y	N	
– Return air plenum Est. total RA plenum areas 1 No. locations inspected 1	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

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			

Other Information:

Filter loading (light, moderate, heavy): LIGHT

☐ Abraded/delaminated acoustical lining

☐ Filter bypass (describe)

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

- BLACK DUST WAS OBSERVED IN VARIOUS COMPONENTS OF THE UNIT.
- NO WTC RELATED DUST WAS OBSERVED.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

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

2.1 Central Ventilation System Visual Inspection Form

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			NP
– outside air duct			NP
– outside air damper(s)			NP
Air handling unit:			
– outside air mixing chamber			NP
– filter rack(s)	Y	N	
– filter media	Y	N	
– blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	Y	N	
– blower housing acoustical lining	Y	N	
– pre-heat coils			NP
– heating coils	Y	N	
– cooling coils			NP
– re-heat coils			NP
– condensate drain pan			NP
– supply air plenum	Y	N	
– supply air plenum damper(s)			NP
– vibration collars			NP
Supply air distribution: – Supply air ducts Est. total ln ft 2 No. locations inspected 1 Specify 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
– 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 2 No. locations inspected 1 Specify 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 ___			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

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			

Other Information:

Filter loading (light, moderate, heavy): LIGHT

☐ Abraded/delaminated acoustical lining

☐ Filter bypass (describe)

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

- 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

Ventilation System Identification: HEATING UNIT

Location: 250 SOUTHENDAR / LOBBY

Area Served: LOBBY WEST SIDE

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

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location: Accessible for inspection? Y ___ N ___ (explain):			NP
– louvers, grates and/or screens			NP
– outside air duct			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 2 No. locations inspected 1 Specify 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 ___			
– 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 2 No. locations inspected 1 Specify 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 ___			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

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Other (specify):			

Other Information:

Filter loading (light, moderate, heavy): LIGHT

☐ Abraded/delaminated acoustical lining

☐ Filter bypass (describe)

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

- BLACK DUST WAS OBSERVED.
- NO WTC RELATED DUST WAS OBSERVED.
- NO CLEANING IS REQUIRED FOR WTC RELATED DUST.

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

2.1 Central Ventilation System Visual Inspection Form

Ventilation System Identification: HV-1 / TRANE

Location: 250 SOUTHEND AVE / BASEMENT

Area Served: BASEMENT ROOMS & HALLWAYS ALL FLOORS

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

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component • not present • not found • inaccessible
Outside air intake: Location: Accessible for inspection? Y ✓ N ___ (explain):	Y	Y	
– louvers, grates and/or screens	Y	Y	
– outside air duct	Y	Y	
– outside air damper(s)			NP
Air handling unit:			
– outside air mixing chamber			NP
– filter rack(s)	Y	N	
– filter media	Y	N	
– blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators	N	N	
– blower housing acoustical lining	N	N	
– pre-heat coils			NP
– heating coils	N	N	
– cooling coils			NP
– re-heat coils			NP
– condensate drain pan			NP
– supply air plenum	N	N	
– supply air plenum damper(s)			NP
– vibration collars			NP
Supply air distribution: – Supply air ducts Est. total ln ft 200 No. locations inspected 3 Specify type (circle): (metal) fibrous glass lined metal masonry fibrous glass board flex-duct wood	N	N	
– Accessible in-line fire dampers Est. total qty 1 No. locations inspected 1	N	N	
– Accessible turning vanes Est. total qty 1 No. locations inspected 1	N	N	
– In-line reheat/cooling coils Est. total qty ___ No. locations inspected ___			NP
– Supply air diffusers Est. total qty 2 No. locations inspected 2	N	N	
Return air distribution: – Return air ducts Est. total ln ft ___ No. locations inspected ___ Specify type (circle): metal fibrous glass lined metal masonry fibrous glass board flex-duct wood			NP
– Return air plenum Est. total RA plenum areas ___ No. locations inspected ___			NP
– Return air plenum damper Est. total qty ___ No. locations inspected ___			NP
– Accessible in-line fire dampers Est. total qty ___ No. locations inspected ___			NP
– Accessible turning vanes Est. total qty ___ No. locations inspected ___			NP
– Return air grilles Est. total qty ___ No. locations inspected ___			NP

2.1 Central Ventilation System Visual Inspection Form

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): HEAVY

☐ Abraded/delaminated acoustical lining

☐ Filter bypass (describe)

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

- WTC DUST IS PRESENT ONLY IN FRESH AIR INTAKE UP TO FILTERS.
- WTC related dust was not observed beyond the filters.
- CLEANING IS REQUIRED FOR WTC RELATED DUST FOR THE ENTIRE SYSTEM.

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