Building Condition Assessment Survey 2023-2024

Mechanical Inspection X109

Asset:	$P.S.\ 109-BRONX, 1771\ POPHAM\ AVENUE, BRONX, NY, 10$	453		
Inspection Id	Inspection Type		Time In	Last Edited
1490	MECHANICAL		2023-12-06 09:02AM	2024-01-10 10:41AM
lsset Data				
Question		Answer		
Have any Syste	ms/Major Building Components been upgraded?	Systems:	Staff - Toilets; Student Fixtures -	Toilets (~15%)
		Years:	2022	
		Systems:	Sump Pump; Climate Control Sy	stem - Electric System
		Years:	2018	
		Systems:	Student Fixtures - Lavatory/Sinks (~85%), Urinals (~80%); DX Spl Room next to Room 211	. //
		Years:	2017	
		Systems:	F&T/Steam Drip Traps; Terminal Traps (~60%)	Unit Thermostatic
		Years:	2015	
		Systems:	Kitchen - Grease Trap, Kitchen S	ink
		Years:	2013	

Yes

Total # of above ground tanks 2
Total capacity of all above ground tanks in gal. 20,000
Total # of below ground tanks 0
Total capacity of all below ground tanks in gal. 0
Total # of water main service entries to the asset 3

MERs/Fan Rooms Locations Sub-Basement MER, Penthouse Fan Room

Are there any spaces with Missing or Defective CO Detectors?

Location(s) Boiler Room

Are there any Painted/Obstructed Sprinkler Heads? Yes

Location(s) Rooms B18, M14, M17, M19, M24, 311 (painted, 11)

Are there any Emergency Stop Switches with Missing Hammers? No components

Priority Condition

Are there fuel tanks?

Exist	Priority	Condition	Component	Location	Person(s)	Person(s)	Photo
Last Year?	Category	Description	Affected	Description	Notified	Title	Image
Yes	Defective Boiler Safety Auxiliary	(2)	Boiler Safety Valve	Boiler Room @ Boiler #1	Yofre Andino	Fireman	



Inspection

uestion	Response	
lechanical		
AIR CONDITIONING	Inspected	
Chilled Water System	Does not exist	
Condenser Water Distribution: Piping, Pumps and Auxiliaries	Does not exist	
Cooling Coil in Ductwork	Does not exist	
Cooling Tower	Does not exist	
DX Split System	Inspected	
Indoor Unit	Inspected	
Condition	1- Good	
Deficiency	No deficiencies recorded	
Outdoor Unit	Inspected	
Condition	1- Good	
Deficiency	No deficiencies recorded	
Dry Cooler	Does not exist	

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Question	Response
AIR CONDITIONING	
Packaged / Rooftop Unit	Does not exist
Packaged Terminal A/C	Does not exist
Refrigerant Leak Detection System	Does not exist
Refrigerant Piping	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
Return Fan	Does not exist
CENTRAL ACID WASTE NEUTRALIZING TANK	Does not exist
CLIMATE CONTROL SYSTEM	Inspected
BMS	Does not exist
Pneumatic System	Does not exist
Hybrid System	Does not exist
Electric System	Inspected
Instance	Auditorium, Gymnasium
Instance Condition	2- Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Building Area Covered by Operational System	81-100%
Deficiency	No deficiencies recorded
COMPACTOR	Does not exist
CONVEYING	Does not exist
DOMESTIC WATER SYSTEM	Inspected
Domestic Cold Water System	Inspected
Gravity System	Does not exist
	Does not exist
Pressure Booster System	Inspected
Water Service	•
Instance Instance Condition	Sub-Basement Crawlspace, Boiler Room - Paint Storage Room 5- Poor
Instance Quantity	2 EACH
Instance Quantity Uom	
Deficiency	WATER MAIN:DETERIORATED
Deficiency Location/Instance Deficiency Quantity	Sub-Basement Crawlspace, Boiler Room - Paint Storage Room
	2 EACH
Quantity Uom Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Deficiency	WATER MAIN:MISSING BACKFLOW PREVENTION
Deficiency	DEVICE
Deficiency Location/Instance	Sub-Basement Crawlspace, Boiler Room - Paint Storage Room
Deficiency Quantity	2
Quantity Uom	EACH
Potential Action	INSTALL
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Instance	Boiler Room - Paint Storage Room
Instance Condition	3- Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Deficiency	WATER MAIN:MISSING BACKFLOW PREVENTION DEVICE
	DEVICE

Mechanical Inspection	A109

Question	Response
DOMESTIC WATER SYSTEM	
Domestic Cold Water System	
Water Service	
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	INSTALL
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Domestic Hot Water System	Inspected
Domestic Hot Water Remote Storage Tank	Does not exist
Domestic Water Heat Exchanger	Inspected
Condition	4- Between Fair and Poor
Deficiency	DAMAGED/MISSING INSULATION
Deficiency Location/Instance	Sub-Basement MER
Deficiency Quantity	20
Quantity Uom	S.F.
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Deficiency	TANK RUSTY/LEAKS
Deficiency Location/Instance	Sub-Basement MER
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	REPAIR
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Electric Domestic Water Heater	Does not exist
Gas Fired Domestic Water Heater	Does not exist
Oil Fired Domestic Water Heater	Does not exist
Heat Pump Domestic Water Heater	Under construction
Domestic Water Distribution Piping	Inspected
Condition	3- Fair
Deficiency	No deficiencies recorded
DRAIN/WASTE/VENT AND STORM SYSTEM	Inspected
Interior Storm Piping	Inspected
Condition	3- Fair
Deficiency	No deficiencies recorded
Sewage/Waste/Vent Piping	Inspected
Condition	3- Fair
Deficiency	No deficiencies recorded
Sewage Ejector Pump	Does not exist
Sump Pump	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
DUAL TEMPERATURE SYSTEM (CHILLED AND HOT WATER)	Does not exist
FIXTURES	Inspected
Staff And Other	Inspected
Janitor Sink	Inspected
Condition	3- Fair
Deficiency	No deficiencies recorded
Lavatory/Sink	Inspected
Condition	3- Fair
Condition	J 1 un

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uestion	Response	
FIXTURES		
Staff And Other		
Lavatory/Sink		
Deficiency	No deficiencies recorded	
Toilet	Inspected	
Condition	1- Good	
Deficiency	No deficiencies recorded	
Urinal	Inspected	
Condition	3- Fair	
Deficiency	No deficiencies recorded	
Student	Inspected	
Drinking Fountain	Inspected	
Condition	3- Fair	
	No deficiencies recorded	
Deficiency		
Lavatory/Sink	Inspected	
Condition	1- Good	
Deficiency	No deficiencies recorded	
Locker Room Shower	Inspected	
Instance on Boys Locker Room - M25	Inaccessible	
Instance on Girls Locker Room B25	Inaccessible	
Sink And Fountain Combo Unit	Inspected	
Condition	3- Fair	
Deficiency	No deficiencies recorded	
Toilet	Inspected	
Condition	1- Good	
Deficiency	No deficiencies recorded	
Urinal	Inspected	
Condition	1- Good	
Deficiency	No deficiencies recorded	
GAS FIRED FURNACE	Does not exist	
GAS SERVICE	Inspected	
Gas Distribution Piping	Inspected	
Condition Condition	3- Fair	
Deficiency		
<u> </u>	No deficiencies recorded	
Gas Meter Room Exhaust Fan	Does not exist Does not exist	
Gas Meter Room Vent Gas Pressure Booster	Does not exist Does not exist	
CO/Gas Leak Detection	Does not exist Does not exist	
HEATING	Inspected	
	Inspected	
Heating Coil In Ductwork Condition	2- Between Good and Fair	
Deficiency	DEFECTIVE	
Deficiency Deficiency Location/Instance		
Deficiency Quantity	Sub-Basement MER @ Auditorium Blower	
Quantity Uom	EACH	
Potential Action	MAINTENANCE	
Urgency of Action	PRIORITY 3	
Purpose of Action	LEVEL 2	
Violations	No violations recorded	
	Does not exist	
Hydronic Heating Radiator/Convector/Fin Tube	Inspected	
Condition	3- Fair	
Deficiency	AUXILIARY (VALVE, VENT): DEFECTIVE	
Deficiency Deficiency Location/Instance	Penthouse MER, Sub-Basement MER	

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nestion	Response	
HEATING		
Radiator/Convector/Fin Tube		
Deficiency Quantity	2	
Quantity Uom	EACH	
Potential Action	MAINTENANCE	
Urgency of Action	PRIORITY 3	
Purpose of Action	LEVEL 2	
Violations	No violations recorded	
Steam Heating	Inspected	
F&T/Steam Drip Trap	Inspected	
Condition	2- Between Good and Fair	
Deficiency	No deficiencies recorded	
MER Steam and Condensate Piping	Inspected	
Condition	3- Fair	
Deficiency	DAMAGED/MISSING INSULATION	
Deficiency Location/Instance	Sub-Basement MER	
Deficiency Quantity	30	
Quantity Uom	L.F.	
Potential Action	MAINTENANCE	
Urgency of Action	PRIORITY 3	
Purpose of Action	LEVEL 2	
Violations	No violations recorded	
Steam Condensate Return Piping	Inspected	
Condition	3- Fair	
Deficiency	No deficiencies recorded	
	Inspected	
Steam Condensate Return Pumping System Condition	4- Between Fair and Poor	
Deficiency	DEFECTIVE TANK	
Deficiency Location/Instance Deficiency Quantity	Sub-Basement MER, Crawlspace	
	2 EACH	
Quantity Uom Potential Action	REPLACE	
Urgency of Action	PRIORITY 3	
Purpose of Action	LEVEL 2	
Violations	No violations recorded	
	Inspected	
Steam Piping		
Condition	3- Fair	
Deficiency	No deficiencies recorded	
Terminal Unit Thermostatic Trap	Inspected	
Condition	3- Fair	
Deficiency	DEFECTIVE/DETERIORATED	
Deficiency Location/Instance	Various Locations	
Deficiency Quantity	20	
Quantity Uom	EACH	
Potential Action	REPLACE	
Urgency of Action	PRIORITY 3	
Purpose of Action	LEVEL 2	
Violations	No violations recorded	
Steam supplied by External Sources	Does not exist	
Unit Heater/Cabinet Heater	Does not exist	
EATING PLANT	Inspected	
Instance on Mezzanine	Inspected	
Is there a water meter on the boiler make-up water piping?	No	
Burner Manufacturer	Preferred Utilities	

nical Inspection		X1
estion	Response	
IEATING PLANT		
Burner Type	Oil	
Heating Plant Oil Number	4	
Boiler Auxiliaries		
Instance on Mezzanine	Inspected	
Boiler Auxiliary Piping		
Instance on Mezzanine	Inspected	
Instance Condition	3- Fair	
Deficiency	No deficiencies recorded	
Boiler Emergency Stop Switch		
Instance on Mezzanine	Inspected	
Instance Condition	3- Fair	
Deficiency	No deficiencies recorded	
Boiler Feedwater System		
Instance on Mezzanine	Inspected	
Instance Condition	3- Fair	
Deficiency	No deficiencies recorded	
Boiler Feedwater Treatment(Automatic)		
Instance on Mezzanine	Does not exist	
Boiler Flue Exhaust		
Instance on Mezzanine	Inspected	
Instance Condition	3- Fair	
Deficiency	No deficiencies recorded	
Boiler Make-up Water Backflow Preventer		
Instance on Mezzanine	Does not exist	
Boiler Room Steam And Condensate Piping		
Instance on Mezzanine	Inspected	
Instance Condition	3- Fair	
Deficiency	No deficiencies recorded	
Boiler Safety Valve		
Instance on Mezzanine	Inspected	
Instance Condition	4- Between Fair and Poor	
Deficiency	DEFECTIVE	
Deficiency Location/Instance	Boiler Room @ Boiler #1	
Deficiency Quantity	2	
Quantity Uom	EACH	
Potential Action	REPLACE	
Urgency of Action	PRIORITY 5	
Purpose of Action	LEVEL 6	
Violations	No violations recorded	
Boiler System		
Instance on Mezzanine	Inspected	
Coal-fired Boiler		
Instance on Mezzanine	Does not exist	
Hot Water Boiler		
Instance on Mezzanine	Does not exist	
Modular Boiler		
Instance on Mezzanine	Does not exist	
Steam Boiler		
Instance on Mezzanine	Inspected	
Instance on Mezzanine	Inspected	
Instance	Boiler Room	
Instance Condition	3- Fair	
Instance Quantity	4,053	

uestion	Response
HEATING PLANT	•
Boiler System	
Steam Boiler	
Instance Quantity Uom	MBH NET
Cast Iron Boiler?	No
Manufacturer	Farrar & Trefts, Inc
EquipmentId	42105-1
Capacity/Size Quantity	45
Capacity/Size UOM	Burner GPH
Source of Capacity/Size	Documented
Installation Year	1953
Source of Installation Year	Documented
Deficiency	No deficiencies recorded
Instance	Boiler Room
Instance Condition	3- Fair
Instance Quantity	4.053
Instance Quantity Uom	MBH NET
Cast Iron Boiler?	No
Manufacturer	Farrar & Trefts, Inc
EquipmentId	42105-2
Capacity/Size Quantity	45
Capacity/Size UOM	Burner GPH
Source of Capacity/Size	Documented
Installation Year	1953
Source of Installation Year	Documented
Deficiency	DAMAGED REFRACTORY
Deficiency Quantity	40
Quantity Uom	S.F.
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Fuel System	
Instance on Mezzanine	Inspected
Boiler Fresh Air Louver/Damper	
Instance on Mezzanine	Inspected
Instance Condition	3- Fair
Туре	Automatic
Deficiency	No deficiencies recorded
Burner/Burner Control Panel	
Instance on Mezzanine	Inspected
Instance Condition	3- Fair
Deficiency	No deficiencies recorded
	No deficiencies recorded
Fuel Oil Storage/Supply System	T 1
Instance on Mezzanine	Inspected
Instance Condition	3- Fair
Deficiency	FUEL OIL LEVEL GAUGE: DEFECTIVE
Deficiency Location/Instance	Boiler Room
Deficiency Quantity	2
Quantity Uom	EACH
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Deficiency	FUEL OIL PIPING:DEFECTIVE/LEAKS
Deficiency Location/Instance	Boiler Room

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Question	Dosmonso	

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uestion	Response	
HEATING PLANT		
Fuel System		
Fuel Oil Storage/Supply System		
Deficiency Quantity	1	
Quantity Uom	EACH	
Potential Action	MAINTENANCE	
Urgency of Action	PRIORITY 3	
Purpose of Action	LEVEL 2	
Violations	No violations recorded	
Gas Trains And Vent At The Boiler		
Instance on Mezzanine	Does not exist	
Enclosed IDF Room	Does not exist	
KITCHEN	Inspected	
Instance on 1st Floor	Inspected	
CO Detector		
Instance on 1st Floor	Inspected	
Instance Condition	1- Good	
Deficiency	No deficiencies recorded	
Gas System		
Instance on 1st Floor	Does not exist	
Grease Trap		
Instance on 1st Floor	Inspected	
Instance Condition	2- Between Good and Fair	
Deficiency	No deficiencies recorded	
Hood		
Instance on 1st Floor	Inspected	
Instance Condition	3- Fair	
Deficiency	No deficiencies recorded	
Hood Exhaust Ductwork		
Instance on 1st Floor	Inspected	
Instance Condition	3- Fair	
Deficiency	No deficiencies recorded	
Hood Exhaust Fan		
Instance on 1st Floor	Inspected	
Instance Condition	3- Fair	
Deficiency	No deficiencies recorded	
Hood Fire Suppression System		
Instance on 1st Floor	Does not exist	
Hot Water Temperature Booster		
Instance on 1st Floor	Does not exist	
Kitchen Sink		
Instance on 1st Floor	Inspected	
Instance Condition	2- Between Good and Fair	
Deficiency	No deficiencies recorded	
MDF Room	Inspected	
Instance on Room inside Computer Lab 215	Inspected	
Dedicated A/C Equipment		·
Instance on Room inside Computer Lab 215	Inspected	
Instance Condition	3- Fair	
Deficiency	No deficiencies recorded	
SCIENCE DEMO ROOM	Does not exist	
SCIENCE LAB	Does not exist	
SCIENCE PREP ROOM	Does not exist	
	Inspected	

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nestion	Response
PRINKLERS, STANDPIPE, FIRE SYSTEM	
Dry Sprinkler Alarm Valve Assembly	Does not exist
Wet Sprinkler Alarm Valve Assembly	Inspected
Condition	3- Fair
Deficiency	No deficiencies recorded
Fire Booster Pump Assembly	Does not exist
Roof Tank	Does not exist
Siamese Connection	Does not exist
Sprinkler Head	Inspected
Condition	3- Fair
Deficiency	DEFECTIVE/DETERIORATED
Deficiency Location/Instance	Rooms B18, M14, M17, M19, M24, 311 (painted, 11)
Deficiency Quantity	11
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 5
Purpose of Action	LEVEL 6
Violations	No violations recorded
	Inspected
Sprinkler Piping Condition	3- Fair
Deficiency	No deficiencies recorded
Standpipe System	Does not exist
Water Gong	Does not exist
WIMMING POOL	Does not exist
VENTILATION	Inspected
Is the building Mechanically ventilated?	Partial
Exhaust Fan	Inspected
Condition	3- Fair
Approximate Total # of Fans	1-25
Deficiency	DEFECTIVE
Deficiency Location/Instance	3rd Floor Roof / Exhaust Fan (Defective bearing)
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Heating And Ventilating Unit	Does not exist
Metal Ductwork	Inspected
Condition	3- Fair
Are there any uninsulated ductwork by design in Mechanical rooms?	Yes
Are there chain operated dampers?	Yes
Deficiency	No deficiencies recorded
Supply Fan	Inspected
Condition	3- Fair
Approximate Total # of Fans	1-5
	No deficiencies recorded
Deficiency Unit Ventilator	Does not exist