

**NYC Department of Education
Building Condition Assessment Survey 2018-2019**

Mechanical Inspection

X021

School: **P.S. 21 - BRONX, 715 EAST 225 STREET, BRONX, NY, 10466**

InspectionId	Inspection Type	Time In	Last Edited
4747	MECHANICAL	2019-05-14 07:11AM	2019-06-17 11:04AM

Asset Data

Question	Answer
Have any Systems/Major Building Components been upgraded?	Systems: Gas Fired Domestic Water Heater; Domestic Hot Water Remote Storage Tank Years: 2015 Systems: Kitchen - Grease Trap; Boiler #2 re-tubed Years: 2014 Systems: Water Service (1 of 2) Years: 2011 Systems: MDF Room - Dedicated A/C Equipment (DX Split System) Years: 2016 Systems: F&T/Steam Drip Traps (~98%); Terminal Unit Thermostatic Traps Years: 2019
Are there fuel tanks?	Yes
Total # of above ground tanks	0
Total capacity of all above ground tanks in gal.	0
Total # of below ground tanks	2
Total capacity of all below ground tanks in gal.	15,000
Total # of water main service entries to the asset	2
MERs/Fan Rooms Locations	Basement Mechanical Area; MERs 111, 213, 313; Penthouse MER
Are there any Painted/Obstructed Sprinkler Heads?	Basement Room by Stair "A/B" (painted, 4)
Are there any Emergency Stop Switches with Missing Hammers?	No components

Priority Condition

Exist Last Year?	Priority Category	Condition Description	Component Affected	Location Description	Person(s) Notified	Person(s) Title	Photo Image
Yes	Defective Boiler Safety Auxiliary	(2)	Boiler Safety Valve	Boiler Room @ Boiler #2	Christopher Worrell	Custodian	No Photo Taken

Inspection

Question	Response
Mechanical	
AIR CONDITIONING	Does not exist
CENTRAL ACID WASTE NEUTRALIZING TANK	Does not exist
CLIMATE CONTROL SYSTEM	Inspected
BMS	Does not exist
Electric System	Does not exist
Hybrid System	Does not exist
Pneumatic System	Inspected
Instance	Throughout
Instance Condition	3- Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Building Area Covered by Operational System	81-100%
Deficiency	DEFECTIVE TEMPERATURE CONTROL THERMOSTAT
Deficiency Location/Instance	Rooms 120, 206, 220, 224
Deficiency Quantity	4
Quantity Uom	EACH
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2

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Question	Response
CLIMATE CONTROL SYSTEM	
Pneumatic System	
Violations	No violations recorded
COMPACTOR	Does not exist
CONVEYING	Does not exist
DOMESTIC WATER SYSTEM	Inspected
Domestic Cold Water System	Inspected
Gravity System	Does not exist
Pressure Booster System	Does not exist
Water Service	Inspected
Instance	Basement Mechanical Area
Instance Condition	3- Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Deficiency	WATER MAIN:MISSING BACKFLOW PREVENTION DEVICE
Deficiency Location/Instance	Basement Mechanical Area
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	INSTALL
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Instance	Basement - Toilet Room by 226th Street Side
Instance Condition	1- Good
Instance Quantity	1
Instance Quantity Uom	EACH
Deficiency	WATER MAIN:MISSING BACKFLOW PREVENTION DEVICE
Deficiency Location/Instance	Basement - Toilet Room by 226th Street Side
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	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
Domestic Water Heat Exchanger	Does not exist
Electric Domestic Water Heater	Does not exist
Gas Fired Domestic Water Heater	Inspected
Instance	Boiler Room
Instance Condition	1- Good
Instance Quantity	1
Instance Quantity Uom	EACH
Manufacturer	Lochinvar
EquipmentId	N/A
Capacity/Size Quantity	985
Capacity/Size UOM	MBH Input
Capacity/Size 2 Quantity	0
Capacity/Size 2 UOM	Gallons
Source of Capacity/Size	Documented
Installation Year	2015

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Question	Response
DOMESTIC WATER SYSTEM	
Domestic Hot Water System	
Gas Fired Domestic Water Heater	
Source of Installation Year	Custodial Staff
Deficiency	No deficiencies recorded
Oil Fired Domestic Water Heater	
	Does not exist
Domestic Water Distribution Piping	
Condition	Inspected
Deficiency	3- Fair
	No deficiencies recorded
DRAIN/WASTE/VENT AND STORM SYSTEM	
	Inspected
Interior Storm Piping	
Condition	Inspected
Deficiency	3- Fair
	No deficiencies recorded
Sewage Ejector Pump	
	Does not exist
Sewage/Waste/Vent Piping	
Condition	Inspected
Deficiency	3- Fair
	No deficiencies recorded
Sump Pump	
Condition	Inspected
Deficiency	4- Between Fair and Poor
Deficiency Location/Instance	DEFECTIVE MOTOR Basement Mechanical Area
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
DUAL TEMPERATURE SYSTEM (CHILLED AND HOT WATER)	
	Does not exist
Enclosed IDF Room	
	Does not exist
FIXTURES	
	Inspected
Staff And Other	
	Inspected
Janitor Sink	
Condition	Inspected
Deficiency	3- Fair
	No deficiencies recorded
Lavatory/Sink	
Condition	Inspected
Deficiency	3- Fair
	No deficiencies recorded
Toilet	
Condition	Inspected
Deficiency	3- Fair
	No deficiencies recorded
Urinal	
Condition	Inspected
Deficiency	3- Fair
	No deficiencies recorded
Student	
	Inspected
Drinking Fountain	
Condition	Inspected
Deficiency	3- Fair
	No deficiencies recorded
Lavatory/Sink	
Condition	Inspected
Deficiency	3- Fair
Deficiency Location/Instance	DEFECTIVE AUXILIARY (FAUCET, SHUT OFF VALVE,ETC.)
Deficiency Quantity	Corridor by Toilet Room 218, Toilet Rooms 218, 311
Quantity Uom	3
	EACH

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Question	Response
FIXTURES	
Student	
Lavatory/Sink	
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Locker Room Shower	Inspected
Instance on 3rd Floor - Room inside Gymnasium Office	Inspected
Instance Condition	3- Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Alternative Use	Yes
Deficiency	No deficiencies recorded
Sink And Fountain Combo Unit	Inspected
Condition	3- Fair
Deficiency	No deficiencies recorded
Toilet	Inspected
Condition	3- Fair
Deficiency	No deficiencies recorded
Urinal	Inspected
Condition	3- Fair
Deficiency	No deficiencies recorded
GAS FIRED FURNACE	Does not exist
GAS SERVICE	Inspected
CO/Gas Leak Detection	Does not exist
Gas Distribution Piping	Inspected
Condition	3- Fair
Deficiency	No deficiencies recorded
Gas Meter Room Exhaust Fan	Does not exist
Gas Meter Room Vent	Does not exist
Gas Pressure Booster	Does not exist
HEATING	Inspected
Heating Coil In Ductwork	Inspected
Condition	3- Fair
Deficiency	No deficiencies recorded
Hydronic Heating	Does not exist
Radiator/Convactor/Fin Tube	Inspected
Condition	3- Fair
Deficiency	RADIATOR/CONVECTOR:DEFECTIVE/DETERIORATED
Deficiency Location/Instance	Room 219
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Steam Heating	Inspected
F&T/Steam Drip Trap	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
MER Steam and Condensate Piping	Inspected
Condition	3- Fair

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HEATING	
Steam Heating	
MER Steam and Condensate Piping	
Deficiency	No deficiencies recorded
Steam Condensate Return Piping	
Condition	Inspected
Deficiency	3- Fair
Deficiency	No deficiencies recorded
Steam Condensate Return Pumping System	
Condition	Inspected
Deficiency	3- Fair
Deficiency	No deficiencies recorded
Steam Piping	
Condition	Inspected
Condition	3- Fair
Deficiency	DEFECTIVE/LEAKS
Deficiency Location/Instance	Room B10
Deficiency Quantity	10
Quantity Uom	L.F.
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Deficiency	DAMAGED/MISSING INSULATION
Deficiency Location/Instance	Room B10
Deficiency Quantity	10
Quantity Uom	L.F.
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Terminal Unit Thermostatic Trap	
Condition	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
Steam supplied by External Sources	
Does not exist	
Unit Heater/Cabinet Heater	
Condition	Inspected
Condition	3- Fair
Deficiency	DEFECTIVE
Deficiency Location/Instance	Rooms B10, B66
Deficiency Quantity	2
Quantity Uom	EACH
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
HEATING PLANT	
Replacement Quantity	9,900
Replacement Uom	MBH NET
Instance on Basement	Inspected
Burner Type	Oil
Heating Plant Oil Number	4
Boiler Auxiliaries	
Instance on Basement	Inspected
Boiler Auxiliary Piping	
Instance on Basement	Inspected
Instance Condition	3- Fair
Deficiency	No deficiencies recorded
Boiler Emergency Stop Switch	

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Question	Response
HEATING PLANT	
Boiler Auxiliaries	
Boiler Emergency Stop Switch	
Instance on Basement	Inspected
Instance Condition	3- Fair
Deficiency	No deficiencies recorded
Boiler Feedwater System	
Instance on Basement	Does not exist
Boiler Feedwater Treatment(Automatic)	
Instance on Basement	Does not exist
Boiler Flue Exhaust	
Instance on Basement	Inspected
Instance Condition	3- Fair
Deficiency	No deficiencies recorded
Boiler Make-up Water Backflow Preventer	
Instance on Basement	Does not exist
Boiler Room Steam And Condensate Piping	
Instance on Basement	Inspected
Instance Condition	3- Fair
Deficiency	No deficiencies recorded
Boiler Safety Valve	
Instance on Basement	Inspected
Instance Condition	4- Between Fair and Poor
Deficiency	DEFECTIVE
Deficiency Location/Instance	Boiler Room @ Boiler #2 (2 of 4)
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 Basement	Inspected
Coal-fired Boiler	
Instance on Basement	Does not exist
Hot Water Boiler	
Instance on Basement	Does not exist
Modular Boiler	
Instance on Basement	Does not exist
Steam Boiler	
Instance on Basement	Inspected
Instance	Boiler Room
Instance Condition	3- Fair
Instance Quantity	4,950
Instance Quantity Uom	MBH NET
Manufacturer	Farrar & Trefts, Inc
EquipmentId	6119-1
Capacity/Size Quantity	4950
Capacity/Size UOM	MBH Net
Source of Capacity/Size	Inspector Estimate
Installation Year	1942
Source of Installation Year	Documented
Deficiency	LEAKY/PLUGGED TUBES
Deficiency Quantity	2
Quantity Uom	EACH

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HEATING PLANT	
Boiler System	
Steam Boiler	
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Deficiency	BEYOND USEFUL LIFE
Deficiency Location/Instance	Boiler Room
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 1
Purpose of Action	LEVEL 2
Violations	No violations recorded
Instance	Boiler Room
Instance Condition	3- Fair
Instance Quantity	4,950
Instance Quantity Uom	MBH NET
Manufacturer	Farrar & Trefits, Inc
EquipmentId	6119-2
Capacity/Size Quantity	4950
Capacity/Size UOM	MBH Net
Source of Capacity/Size	Inspector Estimate
Installation Year	1942
Source of Installation Year	Documented
Deficiency	LEAKY/PLUGGED TUBES
Deficiency Quantity	2
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Deficiency	BEYOND USEFUL LIFE
Deficiency Location/Instance	Boiler Room
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 1
Purpose of Action	LEVEL 2
Violations	No violations recorded
Fuel System	
Instance on Basement	Inspected
Boiler Fresh Air Louver/Damper	
Instance on Basement	Inspected
Instance Condition	3- Fair
Deficiency	No deficiencies recorded
Burner/Burner Control Panel	
Instance on Basement	Inspected
Instance Condition	3- Fair
Deficiency	No deficiencies recorded
Fuel Oil Storage/Supply System	
Instance on Basement	Inspected
Instance Condition	3- Fair
Deficiency	No deficiencies recorded

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Question	Response
HEATING PLANT	
Fuel System	
Gas Trains And Vent At The Boiler	
Instance on Basement	Does not exist
KITCHEN	
Instance on Basement	Inspected
CO Detector	
Instance on Basement	Not required
Gas System	
Instance on Basement	Does not exist
Grease Trap	
Instance on Basement	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
Hood	
Instance on Basement	Does not exist
Hood Exhaust Ductwork	
Instance on Basement	Does not exist
Hood Exhaust Fan	
Instance on Basement	Does not exist
Hood Fire Suppression System	
Instance on Basement	Does not exist
Hot Water Temperature Booster	
Instance on Basement	Does not exist
Kitchen Sink	
Instance on Basement	Inspected
Instance Condition	3- Fair
Deficiency	DEFECTIVE AUXILIARY (FAUCET, SHUT OFF VALVE,ETC.)
Deficiency Location/Instance	Kitchen
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
MDF Room	
Instance on Room inside Room 215	Inspected
Dedicated A/C Equipment	
Instance on Room inside Room 215	Inspected
Instance Condition	1- Good
Deficiency	No deficiencies recorded
SCIENCE DEMO ROOM	
	Does not exist
SCIENCE LAB	
	Does not exist
SCIENCE PREP ROOM	
	Does not exist
SPRINKLERS, STANDPIPE, FIRE SYSTEM	
	Inspected
Dry Sprinkler Alarm Valve Assembly	
	Does not exist
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	Basement Room by Stair "A/B" (painted, 4)

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Question	Response
SPRINKLERS, STANDPIPE, FIRE SYSTEM	
Sprinkler Head	
Deficiency Quantity	4
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 5
Purpose of Action	LEVEL 6
Violations	No violations recorded
Sprinkler Piping	
Condition	Inspected
Deficiency	3- Fair
Deficiency	No deficiencies recorded
Standpipe System	
Condition	Does not exist
Water Gong	
Condition	Does not exist
Wet Sprinkler Alarm Valve Assembly	
Condition	Does not exist
SWIMMING POOL	
Condition	Does not exist
VENTILATION	
Exhaust Fan	
Condition	Inspected
Approximate Total # of Fans	3- Fair
Deficiency	1-25
Deficiency	No deficiencies recorded
Heating And Ventilating Unit	
Condition	Does not exist
Metal Ductwork	
Condition	Inspected
Condition	3- Fair
Deficiency	DAMAGED FLEXIBLE CONNECTION
Deficiency Location/Instance	MER 111 @ House Blower; MER 213 @ House Blower; Penthouse MER @ Gym Exhaust
Deficiency Quantity	4
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Supply Fan	
Condition	Inspected
Condition	3- Fair
Approximate Total # of Fans	6-10
Deficiency	No deficiencies recorded
Unit Ventilator	
Condition	Does not exist