

**NYC Department of Education
Building Condition Assessment Survey 2017 - 2018**

Mechanical Inspection

Q242

Asset: P.S. 242 - (ECC) - QUEENS, 29-66 137TH STREET, New York, 11354

Inspection Id	Inspection Type	Time In	Last Edited
ME : Q242	Mechanical	2017-10-23 12:12 PM	2017-11-03 4:03 PM

Asset Data

Question	Answer
Are there fuel tanks?	Yes
Total # of above ground tanks	2
Total capacity of all above ground tanks in gal.	5275
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	Fan Room 409
Are there any spaces with Missing or Defective CO Detectors?	No
Are there any Emergency Stop Switches with Missing Hammers?	No
Are there any Painted/Obstructed Sprinkler Heads?	No
Have any Systems/Major Building Components been upgraded?	Yes
	Systems: Steam Condensate Return Pumping System; Sump Pumps Electric Pressure Booster System; Gas Fired Domestic Water Heater
	Years: 2016

Priority Condition

Priority Condition Exist Last Year?	Priority Category	Condition Description	Component Affected	Location Description	Person(s) Notified	Person(s) Title	Status	PhotoImage
No condition recorded								

Inspection

Question	Response
Mechanical	
AIR CONDITIONING	Inspected
Chilled Water System	Inspected
Absorption Chiller	Does not Exist
Air Cooled Chiller	Inspected
Instance	Chiller Room 408
Instance Condition	3 - Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Instance Manufacturer	York
Equipment	CH-1
Capacity/Size Quantity	88
Capacity/Size UOM	Tons
Source of Capacity/Size	Documented
Installation Year	2001
Source of Installation	Documented
Deficiency	UP TO 100 TONS: DEFECTIVE UNIT
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	REPAIR
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Deficiency Photo1	No photo recorded
Violations	No violations recorded.

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Question	Response
AIR CONDITIONING	
Chilled Water System	
Air Cooled Chiller	
Instance	Chiller Room 408
Instance Condition	2 - Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Instance Manufacturer	York
Equipment	CH-2
Capacity/Size Quantity	88
Capacity/Size UOM	Tons
Source of Capacity/Size	Documented
Installation Year	2001
Source of Installation	Documented
Deficiency	No deficiencies recorded
Air Cooled Condenser	
Instance	Roof
Instance Condition	2 - Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Instance Manufacturer	York
Equipment	CHCU-1
Capacity/Size Quantity	88
Capacity/Size UOM	Tons
Source of Capacity/Size	Inspector Estimate
Installation Year	2001
Source of Installation	Documented
Deficiency	No deficiencies recorded
Instance	Roof
Instance Condition	2 - Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Instance Manufacturer	York
Equipment	CHCU-2
Capacity/Size Quantity	88
Capacity/Size UOM	Tons
Source of Capacity/Size	Inspector Estimate
Installation Year	2001
Source of Installation	Documented
Deficiency	No deficiencies recorded
Chilled Water Distribution: Piping, Pumps and Auxiliaries	
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Backflow Preventer	
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Central Station Air Handler	
Instance	Fan Room 409
Instance Condition	2 - Between Good and Fair

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Question	Response
AIR CONDITIONING	
Chilled Water System	
Central Station Air Handler	
Instance Quantity	1
Instance Quantity Uom	EACH
Instance Manufacturer	York
Equipment	AHU-1
Capacity/Size Quantity	5
Capacity/Size UOM	Fan Motor HP
Source of Capacity/Size	Inspector Estimate
Installation Year	2001
Source of Installation	Documented
Deficiency	No deficiencies recorded
Instance	Fan Room 409
Instance Condition	2 - Between Good and Fair
Instance Quantity	3
Instance Quantity Uom	EACH
Instance Manufacturer	York
Equipment	AHU-2, AHU-3, AHU-6
Capacity/Size Quantity	8
Capacity/Size UOM	Fan Motor HP
Source of Capacity/Size	Inspector Estimate
Installation Year	2001
Source of Installation	Documented
Deficiency	No deficiencies recorded
Instance	Fan Room 409
Instance Condition	2 - Between Good and Fair
Instance Quantity	2
Instance Quantity Uom	EACH
Instance Manufacturer	York
Equipment	AHU-4, AHU-5
Capacity/Size Quantity	25
Capacity/Size UOM	Fan Motor HP
Source of Capacity/Size	Inspector Estimate
Installation Year	2001
Source of Installation	Documented
Deficiency	No deficiencies recorded
Fan Coil Unit	Does not Exist
Packaged Air Cooled Chiller	Does not Exist
Water Cooled Chiller	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	3 - Fair
Deficiency	UP TO 5 TONS: DEFECTIVE
Deficiency Location/Instance	Elevator Machine Room 501, 4th Floor Hallway, Custodian's Workshop Room 405, Kitchen Storage Room 176F

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Question	Response
AIR CONDITIONING	
DX Split System	
Indoor Unit	
Deficiency Quantity	4
Quantity Uom	EACH
Potential Action	REPAIR
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Deficiency Photo1	No photo recorded
Violations	No violations recorded.
Outdoor Unit	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Dry Cooler	Does not Exist
Packaged / Rooftop Unit	Does not Exist
Packaged Terminal A/C	Does not Exist
Refrigerant Piping	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Return Fan	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
CENTRAL ACID WASTE NEUTRALIZING TANK	Does not Exist
CLIMATE CONTROL SYSTEM	Inspected
BMS	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	No deficiencies recorded
Hybrid System	Does not Exist
Electric System	Does not Exist
COMPACTOR	Does not Exist
CONVEYING	Inspected
Dumbwaiter	Does not Exist
Elevator	Inspected
Are all the existing elevators operable?	Yes
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Escalator	Does not Exist
Non-auditorium Handicap Lift - Vertical	Does not Exist
Non-auditorium Handicap Lift - Stair	Does not Exist
Ash Hoist	Does not Exist
Sidewalk Elevator	Does not Exist
DOMESTIC WATER SYSTEM	Inspected
Domestic Cold Water System	Inspected

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Question	Response
DOMESTIC WATER SYSTEM	
Domestic Cold Water System	
Gravity System	Does not Exist
Pressure Booster System	Inspected
Electric Pressure Booster System	Inspected
Instance	Pump Room B04
Instance Condition	1 - Good
Instance Quantity	1
Instance Quantity Uom	EACH
Instance Manufacturer	Delta P. Carver
Equipment	N/A
Capacity/Size Quantity	2
Capacity/Size UOM	Total # Pumps
Capacity/Size2 Quantity	15
Capacity/Size2 UOM	Total Pumps HP
Source of Capacity/Size	Documented
Installation Year	2016
Source of Installation	Custodial Staff
Deficiency	No deficiencies recorded
Hydraulic/Pneumatic Booster System	Does not Exist
Water Service	Inspected
Instance	Room 108A
Instance Condition	2 - Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Deficiency	No deficiencies recorded
Instance	Room B05
Instance Condition	2 - Between Good and Fair
Instance Quantity	2
Instance Quantity Uom	EACH
Deficiency	No deficiencies recorded
Domestic Hot Water System	Inspected
Domestic Hot Water Remote Storage Tank	Does not Exist
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
Instance Manufacturer	Lochinvar
Equipment	N/A
Capacity/Size Quantity	305
Capacity/Size UOM	MBH Input
Capacity/Size2 Quantity	65
Capacity/Size2 UOM	Gallons
Source of Capacity/Size	Documented
Installation Year	2016

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Question	Response
DOMESTIC WATER SYSTEM	
Domestic Hot Water System	Inspected
Gas Fired Domestic Water Heater	Inspected
Source of Installation	Custodial Staff
Deficiency	No deficiencies recorded
Oil Fired Domestic Water Heater	Does not Exist
Domestic Water Distribution Piping	Inspected
Condition	1 - Good
Deficiency	DEFECTIVE ISOLATION VALVE
Deficiency Location/Instance	Boiler Room (defective mixing valve)
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Deficiency Photo1	No photo recorded
Violations	No violations recorded.
DRAIN/WASTE/VENT AND STORM SYSTEM	Inspected
Interior Storm Piping	Inspected
Condition	1 - Good
Deficiency	No deficiencies recorded
Sewage/Waste/Vent Piping	Inspected
Condition	1 - Good
Deficiency	No deficiencies recorded
Sewage Ejector Pump	Does not Exist
Sump Pump	Inspected
Condition	1 - Good
Deficiency	No deficiencies recorded
DUAL TEMPERATURE SYSTEM (CHILLED AND HOT WATER)	Does not Exist
FIXTURES	Inspected
Staff And Other	Inspected
Janitor Sink	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Lavatory/Sink	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Toilet	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Urinal	Does not Exist
Student	Inspected
Drinking Fountain	Inspected
Condition	3 - Fair
Deficiency	No deficiencies recorded
Lavatory/Sink	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Locker Room Shower	Does not Exist

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FIXTURES	
Student	
Sink And Fountain Combo Unit	Inspected
Condition	3 - Fair
Deficiency	No deficiencies recorded
Toilet	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Urinal	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
GAS FIRED FURNACE	Does not Exist
GAS SERVICE	Inspected
Gas Distribution Piping	Inspected
Condition	1 - Good
Deficiency	No deficiencies recorded
Gas Meter Room Exhaust Fan	Inspected
Condition	3 - Fair
Deficiency	No deficiencies recorded
Gas Meter Room Vent	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Gas Pressure Booster	Does not Exist
CO/Gas Leak Detection	Inspected
Instance	Boiler Room, Gas Meter Room
Instance Condition	3 - Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Installation Year	2001
Source of Installation	Documented
Deficiency	BEYOND USEFUL LIFE
Deficiency Location/Instance	Boiler Room, Gas Meter Room
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 1
Purpose of Action	LEVEL 2
Deficiency Photo1	No photo recorded
Violations	No violations recorded.
HEATING	Inspected
Heating Coil In Ductwork	Does not Exist
Hydronic Heating	Does not Exist
Radiator/Convactor/Fin Tube	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Steam Heating	Inspected
F&T/Steam Drip Trap	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded

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Question	Response
HEATING	
Steam Heating	
MER Steam and Condensate Piping	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Steam Condensate Return Piping	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Steam Condensate Return Pumping System	Inspected
Condition	1 - Good
Deficiency	No deficiencies recorded
Steam Piping	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Terminal Unit Thermostatic Trap	Inspected
Condition	3 - Fair
Deficiency	No deficiencies recorded
Steam supplied by External Sources	Does not Exist
Unit Heater/Cabinet Heater	Inspected
Condition	2 - Between Good and Fair
Deficiency	DEFECTIVE
Deficiency Location/Instance	Fan Room 409
Deficiency Quantity	3
Quantity Uom	EACH
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Deficiency Photo	No photo recorded
Violations	No violations recorded.
HEATING PLANT	Inspected
Replacement Quantity	4,130
Replacement Uom	MBH Net
Instance on 4th Floor	Inspected
Burner Type	Dual Fuel (Gas/Oil)
Heating Plant Oil Number	2
Boiler Auxiliaries	Inspected
Instance on 4th Floor	Inspected
Boiler Auxiliary Piping	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Boiler Emergency Stop Switch	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Boiler Feedwater System	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Boiler Feedwater Treatment(Automatic)	

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Question	Response
HEATING PLANT	
Boiler Auxiliaries	
Boiler Feedwater Treatment(Automatic)	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Boiler Flue Exhaust	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Boiler Make-up Water Backflow Preventer	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Boiler Room Steam And Condensate Piping	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Boiler Safety Valve	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Boiler System	
Instance on 4th Floor	Inspected
Coal-fired Boiler	
Instance on 4th Floor	Does not Exist
Hot Water Boiler	
Instance on 4th Floor	Does not Exist
Modular Boiler	
Instance on 4th Floor	Does not Exist
Steam Boiler	
Instance on 4th Floor	Inspected
Instance	Boiler Room
Instance Condition	2 - Between Good and Fair
Instance Quantity	2,065
Instance Quantity Uom	MBH Net
Instance Manufacturer	Kewanee Boiler Corporation
Equipment	111549-01
Capacity/Size Quantity	2,660
Capacity/Size UOM	MBH Gross
Source of Capacity/Size	Documented
Installation Year	2001
Source of Installation	Documented
Deficiency	DAMAGED REFRACTORY
Deficiency Quantity	10
Quantity Uom	S.F.
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Deficiency Photo1	No photo recorded

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HEATING PLANT	
Boiler System	
Steam Boiler	
Violations	No violations recorded.
Deficiency	RUSTED CASING
Deficiency Quantity	20
Quantity Uom	S.F.
Potential Action	REPAIR
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Deficiency Photo1	No photo recorded
Violations	No violations recorded.
Instance	Boiler Room
Instance Condition	2 - Between Good and Fair
Instance Quantity	2,065
Instance Quantity Uom	MBH Net
Instance Manufacturer	Kewanee Boiler Corporation
Equipment	111549-02
Capacity/Size Quantity	2,660
Capacity/Size UOM	MBH Gross
Source of Capacity/Size	Documented
Installation Year	2001
Source of Installation	Documented
Deficiency	DAMAGED REFRACTORY
Deficiency Quantity	10
Quantity Uom	S.F.
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Deficiency Photo1	No photo recorded
Violations	No violations recorded.
Deficiency	LEAKY/PLUGGED TUBES
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Deficiency Photo1	No photo recorded
Violations	No violations recorded.
Deficiency	RUSTED CASING
Deficiency Quantity	20
Quantity Uom	S.F.
Potential Action	REPAIR
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Deficiency Photo1	No photo recorded
Violations	No violations recorded.
Fuel System	Inspected
Instance on 4th Floor	Inspected

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Question	Response
HEATING PLANT	
Fuel System	
Boiler Fresh Air Louver/Damper	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Burner/Burner Control Panel	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Fuel Oil Storage/Supply System	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Gas Trains And Vent At The Boiler	
Instance on 4th Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Enclosed IDF Room	Does not Exist
KITCHEN	
Instance on 1st Floor	Inspected
CO Detector	
Instance on 1st Floor	Inspected
Condition	1 - Good
Deficiency	No deficiencies recorded
Gas System	
Instance on 1st Floor	Inspected
Condition	3 - Fair
Deficiency	No deficiencies recorded
Grease Trap	
Instance on 1st Floor	Inspected
Condition	3 - Fair
Deficiency	No deficiencies recorded
Hood	
Instance on 1st Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Hood Exhaust Ductwork	
Instance on 1st Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Hood Exhaust Fan	
Instance on 1st Floor	Inspected
Condition	3 - Fair
Deficiency	No deficiencies recorded
Hood Fire Suppression System	
Instance on 1st Floor	Inspected
Condition	3 - Fair
Deficiency	No deficiencies recorded
Hot Water Temperature Booster	
Instance on 1st Floor	Inspected

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Question	Response
KITCHEN	
Hot Water Temperature Booster	Inspected
Condition	3 - Fair
Deficiency	No deficiencies recorded
Kitchen Sink	Inspected
Instance on 1st Floor	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
MDF Room	Inspected
Instance on Room 106A	Inspected
Dedicated A/C Equipment	Inspected
Instance on Room 106A	Inspected
Condition	3 - Fair
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
Wet Sprinkler Alarm Valve Assembly	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Fire Booster Pump Assembly	Does not Exist
Roof Tank	Does not Exist
Siamese Connection	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Sprinkler Head	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Sprinkler Piping	Inspected
Condition	1 - Good
Deficiency	No deficiencies recorded
Standpipe System	Inspected
Hose Valve Assembly	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Piping	Inspected
Condition	1 - Good
Deficiency	No deficiencies recorded
Water Gong	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
SWIMMING POOL	Does not Exist
VENTILATION	Inspected
Exhaust Fan	Inspected
Approximate Total # of Fans	1-25
Condition	3 - Fair
Deficiency	No deficiencies recorded
Heating And Ventilating Unit	Does not Exist

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Question	Response
VENTILATION	
Metal Ductwork	Inspected
Condition	2 - Between Good and Fair
Deficiency	No deficiencies recorded
Supply Fan	Does not Exist
Unit Ventilator	Does not Exist