

ATTACHMENT J.12
MAJOR (SPECIAL) EQUIPMENT LIST

Major Equipment Installed in the CFL

Note: The components and quantities listed below are intended to provide offerors with a general sense of the magnitude of equipment and the complexity of the building. This list is not all-inclusive and is not intended to be used as an inventory. Offerors shall confirm quantities of the equipment listed here and research the bid documents, and other attachments in Section J to identify other equipment and systems not specifically identified below.

A. Mechanical

1. 14 ea High efficiency gas-fired hot water boilers, 930 MPH
2. 3 ea Hot water heating pumps, 400 gpm
3. 2 ea Low pressure dual-fuel steam boilers, 3450 lbs/hr
4. 1 ea Deaerator, 1310 lbs/hr
5. 8 ea Air Pressure Powered Condensate pumps
6. 2 ea Boiler Feed pumps, 14 gpm
7. 3 ea Supply air handlers with enthalpy heat wheel, 52,000 cfm
8. 3 ea Supply air handlers with glycol run-around coils, 52,000 cfm
9. 2 ea Glycol loop system pumps, 310 gpm
10. 3 ea General exhaust enthalpy wheel energy recovery units, connected to a common header fed by a total of 6 ea 32,500 cfm exhaust fans
11. 3 ea Contaminated Lab exhaust glycol run-around energy recovery units, connected to a common header fed by a total of 6 ea 30,000 cfm exhaust fans
12. 3 ea Centrifugal Chillers, 600 tons
13. 4 ea Chilled Water pumps, 900 gpm
14. 1 ea Two cell induced draft cooling tower system
15. 4 ea Condenser water pumps, 1200 gpm
16. 1 ea Supplemental cooling system consisting of 3 chilled water pumps (500 gpm ea)
17. 1 ea Heat Recovery Chiller, 197 Tons
18. 1 ea Plate Heat Exchanger (Free-cooling), 6022 MBH
19. 1 ea Shell/Tube Heat Exchanger (Preheat). 230 gpm, 3361 MBH, steam-to-liquid
20. 2 ea Shell/Tube Heat Exchanger (Glycol Preheat), 450 gpm, 6669 MBH, liquid-to-liquid
21. 2 ea PHL Bio Safety Lab-3 Exhaust fans, 10,000 cfm
22. 2 ea Isolated Autopsy Bio Safety Lab-3 Exhaust fans, 2,000 cfm
23. 1 ea Firing Range Exhaust fan, 7,500 cfm
24. 1 ea Atrium Smoke Exhaust fan, 55,000 cfm
25. 2 ea Stairwell Pressurization fans, 7500 cfm
26. 1 ea Air Curtain for Garage Door, 12,000 cfm
27. 1 ea Air Curtain for Garage Door, 8,000 cfm
28. 1 ea Garage Supply Air fan, 70,000 cfm
29. 1 ea Garage Exhaust fan, 70,000 cfm
30. 5 ea Split System DX Units (for elevator machine rooms)
31. 1 ea Liebert Unit (for server room), 8 Tons, 3750 cfm

B. Fuel Oil Distribution

1. 1 ea Above-ground Tank (B2), 8500 gal

2. 1 ea Fuel Oil Pump Set (boilers), 80 gph
3. 1 ea Fuel Oil Pump Set (day tank), 277 gph

C. Plumbing

1. 2 ea Domestic Hot Water Heaters, Gas-fired, 800 gph, 800 gals storage
2. 2 ea Protected Hot Water Heaters, Gas-fired, 800 gph, 400 gals storage
3. 1 ea De-ionized Water System, 18 Meg Ohm, 40 psi @ outlet
4. 1 ea Storm Water Reclaim System
5. 1 ea Effluent Decontamination System
6. 1 ea Compressed Air Plant, duplex
7. 1 ea Laboratory Vacuum System, duplex
8. 8 ea Laboratory Gas Systems
 - a. Argon
 - b. Carbon Dioxide
 - c. Gaseous Nitrogen
 - d. Gaseous Nitrogen-NC
 - e. Helium
 - f. Hydrogen
 - g. Methane(CH₄)
 - h. Liquid Nitrogen
9. 1 ea Fire Pump & Controller
10. 4 ea Lab Waste Sewage Ejectors
11. 1 ea Sewage Ejector
12. 6 ea Duplex Sump Pump
13. 1 ea Water Softener System

D. Electrical

1. 2 ea Primary Electrical Service (Pepco), 13.2 kV
2. 2 ea Secondary Substations, 2500/3325 kVa, 480Y/277
3. 1 ea Secondary low voltage switchgear system, 4000A, 480Y/277
4. 1 ea Emergency Generator, 2500 kw, 3125 kVa
5. 1 ea Emergency Generator Switchboard, 3000A, 480Y/277
6. 1 ea Emergency Generator Switchboard (for connection to portable street-level generator), 2500A, 480Y/277

E. Building Automation System

1. 1 ea Siemens DDC System, 5000+ points

F. Elevators

1. 7 ea Passenger/Freight Elevators
2. 1 ea Vehicle Elevator

G. Additional Equipment Located Throughout

1. Variable Air Volume Units
2. Chilled/Cooling Beams
3. Laboratory Fume Hoods
4. Cryogenic Freezers
5. Cold Room and Freezers (Medical Examiner)
6. Cold Rooms (Laboratory Floors)

7. Cooling Generation Equipment for Cold Rooms (Installed separately from General Construction Contract)
8. Atrium Cleaning Platform
9. Scissor Lift

H. Architectural

1. Exterior Solar Control Louvers (Motor Driven)