

**PRINCETON PLASMA PHYSICS LABORATORY
ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)**

APPENDIX A

SUMMARY OF ENVIRONMENTAL ASPECTS & IMPACTS BY FACILITY

REVISION 5

DECEMBER 2016

Keith Rule,
Senior Engineer, Environmental

Robert S. Sheneman, Deputy Head
Environment, Safety, Health & Security

Virginia L. Finley
Manager, Environmental Compliance
Chair, Environmental Review Committee (ERC)

Jerry D. Levine, Head
Environment, Safety, Health & Security

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**Princeton Plasma Physics Laboratory
Environmental Management System
Summary of Environmental Aspects & Impacts by Facility**

Building or Facility	Activities	Environmental Aspects					Environmental Impacts	Last Survey Date	EMS Rep.
		Waste Generation	Materials Used	Recycling	Chemical Use	Other Environmental Aspects			
C-01 LSB - 1, 2, & 3 Floors East Wing	Administrative, Engineering & Management; Computer Systems; Library & Records Mgmt.	Solid Waste (bags, wrappers, writing instruments, transparencies, etc.); Hazardous (batteries, oil & lube, solder)	Office supplies; Electronics; Printer and copier supplies; Chemicals	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastics, glass); Other recyclables (toner and inkjet, packing material, and e-waste)	Cleaners (biobased); Oil & Lubes; Compressed Gas; Lead Solder	LEED Certification expires	Electricity Use; Office Supply Use; Recycling; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Potable	1/15/2015	LM
C-01 LSB – Basement	Administrative, Electrical Systems; Heating Systems; Cooling Systems; Computer Systems	Solid Waste (bags, wrappers, writing instruments, transparencies, etc.), Hazardous (batteries, solder)	Office supplies; Electronics; Printer and copier supplies; Chemicals	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastics, glass); Other recyclables (toner and inkjet, packing material, and e-waste)	Cleaners (biobased); Lead Solder	Pump room is located in basement and could have environmental impacts during maintenance. Various soldering stations.	Electricity Use; Recycling; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Potable	5/28/2015	MH
C-01 LSB – Penthouse	Electrical Systems; Heating Systems; Cooling Systems; Waste Management (Haz, Rad, Mixed)	Hazardous waste (propylene glycol, sealed lead-acid batteries); Construction Debris	N/A	N/A	Acids; Cleaners (biobased); Oils & Lubes; Water treatment	N/A	Electricity Use; Fuel Use; Heat generation; Spills or Releases (potential); Waste - Solid (trash)	5/28/2015	MH
C-02 LSB – 1, 2, & 3 Floors West Wing	Administrative, Engineering & Management; Computer Systems; Library & Records Mgmt.	Solid Waste (wrappers); Hazardous (cleaners)	Office supplies; Electronics; Printer and copier supplies; Chemicals	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastics, glass); Other recyclables (toner and inkjet, packing material, and e-waste)	Cleaners (biobased)	This area contributes to a large portion of single stream and other recycle streams. LEED Certification expires.	Electricity Use; Recycling; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	1/26/2016	LM
C-12 Cafeteria	Receiving, Shipping & Storage	Solid Waste (bags, wrappers, etc.); Hazardous (cleaners)	Packaging; Chemicals; Food processing items	Compost (food waste, soiled paper, all cafeteria items); Single stream (paper products, cardboard, plastics, glass)	Cleaners (biobased)	Compostable and non-compostable waste generation.	Air Emissions; Electricity Use; Heat generation; Recycling; Spills or Releases (potential); Waste - Solid (trash); Wastewater - Sanitary; Water Use - Potable	5/28/2015	RWH
C-13 & C-23 - Admin Wing, Library, & Theory	Administrative, Engineering & Management; Computer Systems	Solid Waste (bags, wrappers, writing instruments, transparencies, etc.)	Office supplies; electronics; printer and copier supplies; packaging material	Compost (paper towels in bathrooms); Single stream (paper products, cardboard,); Other recyclables (toner and inkjet, packing material, and e-waste); Hazardous (batteries, lead soldering)	Cleaners (biobased)	Computer center energy demand.	Electricity Use; Recycling; Waste - Solid (trash)	8/17/2015	KRR
C-20 Engineering Wing 1st & 2nd Floor	Administrative, Engineering & Management; Electrical Systems; Library & Records Mgmt.	Solid Waste (bags, wrappers, writing instruments, transparencies, etc.); Hazardous (batteries, water treatment)	Office supplies; Electronics; Printer and copier supplies; Chemicals, lead solder	Single stream (paper products, cardboard,); Other recyclables (toner and inkjet, packing material, and e-waste)	Cleaners (biobased); Water Treatment	Roof replaced in 2009.	Electricity Use; Heat generation; Recycling; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Potable	12/13/2016	KRR
C-22 Lab-Wing 1st & 2nd Floor	Administrative, Engineering & Management; Experimental Research; Electrical Systems; Heating Systems; Cooling Systems; Computer Systems; Waste Management (Haz, Rad, Mixed); Machining; Mechanical Assembly & Testing; Electronics Assembly & Testing; Welding & Brazing	Solid Waste (bags, wrappers, writing instruments, transparencies, etc.); Hazardous (gas cylinders, cryogenics, solvents, lead soldering)	Office supplies; electronics; printer and copier supplies; chemicals	Compost (paper towels in bathrooms); Single stream (glass, cardboard, plastic, paper products); Other recyclables (toner and inkjet, packing material, e-waste)	Cleaners (biobased); Solvents; Oil & Lubes	Waste oil which is picked up by M&ES. Lithium is used in one of the experiments. There is still asbestos that has to be removed from this building, piping & flooring.	Electricity Use; Fuel Use; Spills or Releases (potential); Recycling; Waste - Solid (trash);	8/17/2015	KRR

**Princeton Plasma Physics Laboratory
Environmental Management System
Summary of Environmental Aspects & Impacts by Facility**

Building or Facility	Activities	Environmental Aspects					Environmental Impacts	Last Survey Date	EMS Rep.
		Waste Generation	Materials Used	Recycling	Chemical Use	Other Environmental Aspects			
C-32 Shop Wing Building	Engineering & Management; Experimental Research; Electrical Systems; Heating Systems; Cooling Systems; Machining; Mechanical Assembly & Testing; Electronics Assembly & Testing; Welding & Brazing; Vacuum Assembly & Testing	Solid Waste (bags, wrappers, writing instruments, etc.); Hazardous (cleaners, metals, oils & lube, solvents; lead solder)	Lab supplies; Office supplies; Chemicals; Gases; Electronics	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastic, and glass)	Cleaners (biobased); Oil & Lubes; Solvents	Various experiments and shops with different environmental aspects.	Air Emissions; Electricity Use; Heat generation; Recycling; Spills or Releases (potential); Waste - Radioactive; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	8/25/2015	MRS
C-40 RF Building	Experimental Research; Electrical Systems; Heating Systems; Cooling Systems; Mechanical Assembly & Testing; Electronics Assembly & Testing; Vacuum Assembly & Testing, lab sample analysis	Solid Waste (bags, wrappers, writing instruments, etc.); Construction Waste; Hazardous (acids, compressed gas, cleaners, oils & lube, paint, SF6); Radioactive Waste	Lab supplies; Office supplies; Chemicals; Gases; Electronics; General maintenance items; Machine supplies	Single stream (paper products, cardboard,); Other recyclables (toner and inkjet, packing material), metals such as copper, aluminum, steel.	Acids; Compressed, gas; Cleaners (biobased); Oils & Lubes; Paint; SF6	There are several important possible impacts to the environment from operations or maintenance activities in this building. SF6, if released is a significant GHG impact.	Air Emissions; Electricity Use; Heat generation; Recycling; Spills or Releases (potential); Waste - Hazardous; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	12/13/2016	KRR
C-41-CS Building	Experimental Research; Electrical Systems; Heating Systems; Cooling Systems; Computer Systems; Machining; Mechanical Assembly & Testing; Electronics Assembly & Testing; Welding & Brazing	Solid Waste (bags, wrappers, writing instruments, etc.); Hazardous (acids, caustics, oil & lube, solvents); Construction debris	Office supplies; machine parts; fabrication supplies, chemicals	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastic, and glass); Other recyclables (scrap metal, wood, packing material, aerosol cans)	Acids; Caustics; Compressed Gas; Diesel; Oil & Lubes; Solvents	There is a new isolated work station in the South-East corner with no point of contact and is potentially generating waste.	Air Emissions; Electricity Use; Fuel Use; Heat generation; Recycling; Spills or Releases (potential); Waste - Hazardous; Waste - Solid (trash); Water Use - Non-potable	12/9/2015	LM
C-42- COB Building	Administrative, Engineering & Management; Experimental Research; Electrical Systems; High Voltage; Mechanical Assembly; Electronics Assembly; Vacuum Assembly	Solid Waste (bags, wrappers, writing instruments, etc.); Hazardous (compressed gas, metals, solvents)	Lab supplies; Office supplies; Chemicals; Gases; Electronics	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastic, and glass); Other recyclables (toner and ink, e-waste)	Compressed Gas; Lithium; Solvents	Various experiments with different environmental aspects.	Air Emissions; Fuel Use; Heat generation; Recycling; Waste - Hazardous; Wastewater - Sanitary; Water Use - Potable	9/15/2016	LM
C-50 ESAT System Test Building	Electrical Systems; Heating Systems; Cooling Systems; Machining; Mechanical Assembly & Testing; Electronics Assembly & Testing; Vacuum Assembly & Testing; Welding & Brazing	Solid Waste (bags, wrappers, etc.); Hazardous (alcohol, oil & lube, solvents); Construction debris	Machine supplies; Chemicals; Office Supplies; Gases	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastic, and glass); Other recyclables (scrap metal, wood, packing material)	Cleaners(non-biobased); Ethanol; Oils & Lubes; Solvents	N/A	Electricity Use; Heat generation; Recycling; Waste - Hazardous; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	10/28/2015	RWH
C-51 MG Building	Receiving, Shipping & Storage	Solid Waste (bags, wrappers, etc.); C&D Debris (concrete); Hazardous (PCB, alcohol, oil & lube, solvents, universal)	Machine supplies; chemicals	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastic, and glass); Other recyclables (concrete, scrap metal)	Cleaners (biobased and non-biobased); Solvents	PPPL remiated the building of PCBs however contamination is still a possibility. Lead and Cadmium metal contamination are also a possibility.	Spills or Releases (potential); Waste - Hazardous;	9/15/2016	LM
C-52 Former OH Rectifier Building	Skilled Trades; Electrical Systems; Heating Systems; Cooling Systems; Receiving, Shipping & Storage; Woodworking;	Solid Waste (bags, wrappers, etc.); Hazardous (alcohol, oil & lube, solvents); Construction debris	Construction Materiall; Paper Use; Toner Use	Single stream (paper products, cardboard, plastic, and glass); Other recyclables (scrap metal, wood, packing material)	Caustics; Oil & Lube; solvents	Permitted dust collector. 2 flammable storage containers.	Electricity Use; Heat generation; Recycling; Waste - Solid (trash); Spills or Releases (potential)	12/9/2015	LM

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		Waste Generation	Materials Used	Recycling	Chemical Use	Other Environmental Aspects			
C-55 MOD VI	Administrative, Engineering & Management	Solid Waste (bags, wrappers, writing instruments, etc.); Hazardous (batteries)	Office supplies; electronics; printer and copier supplies	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastic, and glass); Other recyclables (packing material, e-waste, toner and inkjet)	Cleaners (biobased); Other (reagents)	N/A	Electricity Use; Fuel Use; Recycling; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	5/31/2016	MLP
C-60 C-cooling tower pump house	Electrical Systems; Cooling Systems; Storage; Utility	Hazardous (diesel fuel, oil & lubes, solvents, cleaners)	Chemicals, General maintenance items	N/A	Diesel Fuel; Oil & Lubes; Solvents; Water Treatment	Many containers (about 15) of waste oil.	Electricity Use; Spills or Releases (potential); Wastewater - Sanitary	12/12/2016	MH
C-63 Maintenance Building	Skilled Trades; Administrative, Engineering & Management; Electrical Systems; Heating Systems; Cooling Systems; Woodworking; Machining; Mechanical Assembly & Testing; Electronics Assembly & Testing; Welding & Brazing	Solid Waste (bags, wrappers, etc.); Hazardous (fuels, oil & lube, paint, batteries, solvents); Construction debris	Machine supplies; Building Materials; Chemicals; Office Supplies	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastic, and glass); Other recyclables (scrap metal, wood, packing material, soil, concrete, toner and inkjet)	Acids; Cleaners (biobase and non-biobased); Diesel fuel; Metals; Oil & Lube; Paint; Solvents; Water treatment	There are approximately 12 flammable storage cabinets and 3 acid storage cabinets. Many other hazardous waste streams. Several fleet vehicles kept at this building, spills are a possibility.	Air Emissions; Electricity Use; Fuel Use; Heat generation; Recycling; Spills or Releases (potential); Waste - Hazardous; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	5/31/2016	MLP
C-64 & C-65 Receiving #1 Warehouse Buildings	Heating Systems; Cooling Systems; Waste Management (Haz, Rad, Mixed); Receiving, Shipping & Storage; Fleet Vehicles & Equipment	Solid Waste (bags, wrappers, etc.); Hazardous (fuels, oil & lube, solvents)	Office Supplies; Packaging material; General maintenance items	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastic); Other recyclables (wood, toner and inkjet, packing material, e-waste)	Cleaners (biobase and non-biobased); Diesel Fuel; Gasoline; Lubes; Solvents; Paints	Fuel stations located in back of building. Chemical generation from fleet maintenance.	Air Emissions; Electricity Use; Fuel Use; Heat generation; Recycling; Spills or Releases (potential); Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	11/23/2016	MH
C-67 Site Protection Building	Administrative; Heating Systems; Cooling Systems; Medical Services; Fleet Vehicles & Equipment; Security & Fire Protection	Solid Waste (bags, wrappers, etc.); Hazardous (fuels, oil & lube, batteries, solvents, medical waste)	Emergency response equipment & supplies; Office Supplies, Chemicals	Compost (paper towels in bathrooms); Single stream (glass, cardboard, plastic, paper products); Other recyclables (toner and inkjet)	Cleaners (biobase and non-biobased); Solvents	Several fleet vehicles kept at this building, spills are a possibility.	Air Emissions; Electricity Use; Fuel Use; Heat generation; Recycling; Spills or Releases (potential); Waste - Medical; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	11/28/2016	MLP
C-90 RESA Building	Electrical Systems; Heating Systems; Cooling Systems; Waste Management (Haz, Rad, Mixed); Machining; Mechanical Assembly & Testing; Vacuum Assembly & Testing; Welding & Brazing	Solid Waste (bags, wrappers, etc.); Hazardous (acids, compressed gas, oil & lube, paint, batteries, solvents)	Machine supplies; Building Materials; Chemicals; Office Supplies	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastic, and glass); Other recyclables (scrap metal, wood, packing material, batteries)	Acids; Compressed Gas; Oil & Lube; Paint; Solvents; Other (describe)	There is a lot of chemical waste generated from operations in this facility.	Air Emissions; Electricity Use; Fuel Use; Recycling; Spills or Releases (potential); Waste - Hazardous; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	10/14/2016	RWH
C-91 CAS Building	Electrical Systems; Heating Systems; Cooling Systems; Waste Management (Haz, Rad, Mixed); Machining; Mechanical Assembly & Testing; Electronics Assembly & Testing; Vacuum Assembly & Testing; Welding & Brazing; Receiving, Shipping & Storage	Solid Waste (bags, wrappers, etc.); Hazardous (acids, oil & lube, paint, batteries, solvents); Construction Debris	Machine supplies; Building Materials; Chemicals; Office Supplies	Compost (paper towels in bathrooms); Single stream (paper products, cardboard, plastic, and glass); Other recyclables (scrap metal, wood, packing material, batteries)	Acids; Compressed Gas; Corrosives; Oil & Lube; Paints; Solvents	N/A	Air Emissions; Fuel Use; Heat generation; Recycling; Waste - Hazardous; Wastewater - Sanitary; Water Use - Potable	8/17/2015	MH

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C-93 Hazardous Materials Storage Facility	Electrical Systems; Heating Systems; Cooling Systems; Waste Management (Haz, Rad, Mixed); Receiving, Shipping & Storage	Solid Waste (bags, wrappers, etc.); Hazardous (acids, batteries, caustics, CFLs, cleaners, compressed gas, oil & lube, paint, solvents, SF6, razors); Construction Debris	Chemicals; Gases; Office Supplies	Single stream (paper products, cardboard, plastic, and glass); Other recyclables (scrap metal)	Acids; Caustics; Cleaners (biobased); Oil & Lube; Paints; Solvents; Asbestos; PCB	N/A	Air Emissions; Electricity Use; Recycling; Soil Disturbance; Spills or Releases (potential); Stormwater Runoff; Waste - Hazardous; Waste - Medical; Waste - Solid (trash); Water Use - Non-potable; Water Use - Potable	10/21/2016	MRS
C-Site Detention Basin	Electrical Systems; Waste Management	N/A	General maintenance items	N/A	N/A	Every 2 years the basin is inspected, it is drained and cleaned annually. Absorbent booms placed by inlets to collect oil.	Electricity Use; Floodplain or Wetlands Impact; Spills or Releases (potential); Stormwater Runoff	5/18/2016	KRR
C-site Gas Cylinder Shed	Electrical Systems; Receiving, Shipping & Storage	N/A	Gas cylinders	Gas Cylinders	Compressed gas	N/A	Electricity Use; Fuel Use; Spills or Releases (potential)	1/15/2016	RWH
C-Site Grounds	Experimental Research; Electrical Systems; Waste Management (Haz, Rad, Mixed); Receiving, Shipping & Storage; Fleet Vehicles & Equipment; Security & Fire Protection	Hazardous Waste (Fuel, de-icing agent, Oil & Lube, insecticides, herbicides); Soil; Construction debris (i.e. foam, gypsum, and fabrics)	Fuel, concrete, de-icing agent, gravel, sand, soil, fertilizer, pesticides & herbicides	Compostable (landscaping waste); Single Stream MSW; Other recyclables (soil, gravel, concrete, wood, metal)	Diesel fuel; Gasoline; Oil & Lube; Landscape chemicals	Dumpsters are available for recycling metals, paper, glass, wood, stainless steel, and cardboard. Concrete blocks are being stored around the site and will be removed soon.	Air Emissions; Electricity Use; Floodplain or Wetlands Impact; Fuel Use; Soil Disturbance; Spills or Releases (potential); Stormwater Runoff; Water Use - Potable	12/18/2015	KRR
C-Site Switchyard	Electrical Systems; Waste Management (Haz, Rad, Mixed)	approximately 10,400 gallons of mineral oil in dormant transformers	Chemicals	N/A	Oil & Lube, SF6	Oily rags and used are a result of performing maintenance on the transformers. These items are tagged, removed from the area, picked up by the Haz Mat Team, and ultimately sent off site for proper disposal.	Electricity Use; Fuel Use; Spills or Releases (potential)	12/13/2016	KRR
Canal Pump House & Elevated Water Tower	Electrical Systems; Cooling Systems; Utility; Water Treatment	Hazardous (diesel fuel, oil & lubes, solvents, water treatment chemicals)	Chemicals, General maintenance items	N/A	Diesel Fuel; Oil & Lubes; Solvents; Water Treatment	Chlorine is the primary biocide used for water treatment. It is being phased out because of upcoming regulation constrictions. Pending approval from NJDEP Peracetic Acid will be used instead.	Air Emissions; Electricity Use; Floodplain or Wetlands Impact; Fuel Use; Soil Disturbance; Spills or Releases (potential); Water Use - Non-potable	9/19/2016	MH
D-42 Experimental Mockup	Experimental Research; Electrical Systems; Heating Systems; Cooling Systems; Waste Management (Haz, Rad, Mixed); Machining; Mechanical Assembly & Testing; Receiving, Shipping & Storage	Solid Waste (bags, wrappers, etc.); Hazardous (cleaners, compressed gas, oil & lube, solvents); Construction debris; Radioactive Waste	Machine supplies and equipment; Building Materials; Chemicals; Gases; Rad Material/Waste	Compost (paper towels in bathrooms); Single stream (glass, cardboard, plastic, paper products); Other recyclables (scrap metal, wood, laundered rad PCs)	Cleaners (biobase and non-biobased); Diesel fuel; Oil & Lube; Paint; Propane; Solvents; Compressed Gas	Rad Waste generated.	Air Emissions; Electricity Use; Fuel Use; Heat generation; Office Supply Use; Recycling; Waste - Hazardous; Waste - Radioactive; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	11/5/2015	LM
D-43 TFTR Test Cell and Basement	Dismantling of Equipment; Electrical Systems; Waste Management (Haz, Rad, Mixed); Mechanical Assembly & Testing; Electronics Assembly & Testing; Vacuum Assembly & Testing; Laboratory - analytical	Construction debris; Radioactive Waste	Machine supplies and equipment; Rad Material/Waste	Single stream (glass, cardboard, plastic, paper products); Other recyclables (scrap metal, wood, laundered rad PCs)		TFTR disassembly complete, still some Rad waste generated in test cell and basement. TFTR basement has some systems dedicated for NSTX-U. Drains go to LEC tanks.	Air Emissions; Electricity Use; Heat generation; Recycling; Spills or Releases (potential); Waste - Radioactive; Waste - Solid (trash); Wastewater - LEC;	12/5/2015	LM

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D-44 Mechanical Equipment Room	Experimental Research; Electrical Systems; Heating Systems; Cooling Systems; Mechanical Assembly & Testing; Electronics Assembly & Testing	Solid Waste (bags, wrappers, etc.); Hazardous (oil & lube, fluorescent bulbs, HEPA filters)	General maintenance items	N/A	Oil & Lube	Drains go to LEC tanks.	Electricity Use; Heat generation; Spills or Releases (potential); Waste - Hazardous; Waste - Radioactive; Waste - Solid (trash); Wastewater - LEC; Water Use - Non-potable; Water Use - Potable	12/18/2015	MLP
D-44 NSTX Test Cell and Gallery	Experimental Research; Electrical Systems; Heating Systems; Cooling Systems; Computer Systems; Waste Management (Haz, Rad, Mixed); Mechanical Assembly & Testing; Electronics Assembly & Testing; Vacuum Assembly & Testing	Solid Waste (bags, wrappers, etc.); Hazardous (oil & lube, cryogenics, paints, solvents, SF6, razors); Construction debris; Radioactive Waste	Machine supplies and equipment; Building Materials; Chemicals; Gases; Rad Material/Waste; General maintenance items	Single stream (glass,cardboard, plastic, paper products); Other recyclables (scrap metal, wood, laundered rad PCs)	Cryogenics, Oil & Lube; Paints; Solvents; SF6	NSTX-U is under repair and will generate considerable hazardous and radioactive waste.	Air Emissions; Electricity Use; Fuel Use; Heat generation; Recycling; Waste - Hazardous; Waste - Radioactive; Waste - Solid (trash)	1/26/2016	LM
D-45 Radioactive Waste Storage Facility	Electrical Systems; Heating Systems; Cooling Systems; Waste Management (Haz, Rad, Mixed); Receiving, Shipping & Storage	Solid Waste (bags, wrappers, etc.); Hazardous (cleaners, oil and lube, paints, solvents, razors); Radioactive Waste	Building Materials; Chemicals; General maintenance items; Office Supplies	Single stream (glass,cardboard, plastic, paper products); Other recyclables (scrap metal, wood, laundered rad PCs)	Cleaners (biobased and non-biobased); Oil & Lube; Paint; Solvents	N/A	Electricity Use; Fuel Use; Heat generation; Recycling; Spills or Releases (potential); Waste - Hazardous; Waste - Radioactive; Waste - Solid (trash); Water Use - Non-potable	10/14/2016	RWH
D-52 FCPC 1st & 2nd Floor East	Electrical Systems; Heating Systems; Cooling Systems; Mechanical Assembly & Testing	Solid Waste (bags, wrappers, etc.); Hazardous (cleaners, solvents)	Office Supplies; General maintenance items	Single stream (glass,cardboard, plastic, paper products)	Cleaners; Solvents		Air Emissions; Waste - Solid (trash); Water Use - Non-potable; Water Use - Potable	12/10/2015	MRS
D-52 FCPC 1st & 2nd Floor West	Experimental Research; Electrical Systems; Heating Systems; Cooling Systems; Computer Systems; Vacuum Assembly & Testing	Solid Waste (bags, wrappers, etc.); Hazardous (oil & lube, paint, solvents)	Machine supplies and equipment; Chemicals; Gases; General maintenance item; Office Supplies	Single stream (glass,cardboard, plastic, paper products); Other recyclables (scrap metal, wood, universal)	Oil & Lube; Paints; Solvents	Large energy demand.	Electricity Use; Heat generation; Office Supply Use; Recycling; Waste - Hazardous; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	3/31/2016	RWH
D-53 NBPC Basement – Pump Room	Experimental Research; High Voltage Electrical Systems; Machining; Mechanical Assembly & Testing; Electronics Assembly & Testing; Vacuum Assembly & Testing; Welding & Brazing; SF6 processing; Cryogenics processing	Solid Waste (bags, wrappers, etc.); Hazardous (compressed gases, oil & lube, metals, cryogenics, solvents, SF6, razors); Construction debris	Machine supplies and equipment; Building Materials; Chemicals; Gases; General Maintenance items	Single stream (glass,cardboard, plastic, paper products); Other recyclables (scrap metal, wood, batteries)	Cleaners (biobased and non-biobased); Cryogenic Liquid; Metals; Oil & Lube; Paint; Solvents; Compressed Gas	New permitted dust collector installed. SF6 recovery system constructed.	Air Emissions; Electricity Use; Heat generation; Recycling; Spills or Releases (potential); Waste - Solid (trash); Wastewater - LEC; Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	11/16/2016	LM
D-53 NBPC Building 100', mezzanine, & 138'	Experimental Research; Electrical Systems; Machining; Mechanical Assembly & Testing; Electronics Assembly & Testing; Vacuum Assembly & Testing; Welding & Brazing	Solid Waste (bags, wrappers, etc.); Hazardous (compressed gases, oil & lube, cleaners, solvents, SF6)	Machine supplies and equipment; Electronics; Office Supplies; Chemicals; Gases	Single stream (glass,cardboard, plastic, paper products); Other recyclables (toner and ink)	Cleaners (biobased); Oil & Lube; Solvents; SF6	N/A	Electricity Use; Recycling; Waste - Hazardous; Waste - Solid (trash); Wastewater - Sanitary; Water Use - Non-potable; Water Use - Potable	11/16/2016	LM

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D-70 Cooling Tower	Electrical Systems; Cooling Systems	Hazardous (cleaners, solvents, water treatment)	General maintenance items	N/A	Cleaners (biobase and non-biobased); Solvents; Water Treatment	Chlorine is the primary biocide used for water treatment. It is being phased out because of upcoming regulation constrictions. Pending approval from NJDEP Peracetic Acid will be used instead. It will be monitored closely by taking periodic sampling	Electricity Use; Spills or Releases (potential); Wastewater - Sanitary; Water Use - Potable; Water Use - Non-potable	7/29/2016	MH
D-72 MG building	Experimental Research; Electrical Systems	Hazardous (compressed gases, oil & lube, cleaners, solvents, paints)	Chemicals; Gases; General Maintenance items	Compost (paper towels in bathrooms); Single stream (glass, cardboard, plastic, paper products); Other recyclables (toner and ink)	Cleaners (biobased); Oil & Lube; Paints; Solvents; Compressed Gas	Sumps are pumped to basin. Possible PCB Capacitor signs on electrical equipment.	Air Emissions; Electricity Use; Fuel Use; Spills or Releases (potential); Waste - Hazardous; Waste - Solid (trash); Water Use - Non-potable	8/17/2015	LM
D-Site Grounds	Electrical Systems; Heating Systems; Cooling Systems; Waste Management (Haz, Rad, Mixed); Receiving, Shipping & Storage; Fleet Vehicles & Equipment; Security & Fire Protection	Hazardous Waste (Fuel, de-icing agent, Oil & Lube, insecticides, herbicides); Soil; Construction debris (i.e. foam, gypsum, and fabrics)	General maintenance items; Building Materials; Landscaping chemicals	Compostable (landscaping waste); Other recyclables (soil, gravel, concrete, wood, metal)	Diesel fuel; Gasoline; Oil & Lube; Landscape chemicals	Dumpsters are available for recycling metals, paper, glass, wood, stainless steel, and cardboard. Some monitoring Wells to be removed in 2017. Several ASTs are located around D-Site and are monitored for spills.	Air Emissions; Electricity Use; Floodplain or Wetlands Impact; Fuel Use; Heat generation; Recycling; Soil Disturbance; Spills or Releases (potential); Stormwater Runoff; Waste - Hazardous; Waste - Solid (trash); Wastewater - LEC; Wastewater - Sanitary; Water Use - Non-potable	10/28/2016	VF
D-Site Rectifiers, Transformers, Fenced Areas.	Electrical Systems	Hazardous (compressed gases, fuels, oil & lube)	Chemicals; Gases; General Maintenance items	N/A	Fuel; Oil & Lube	AST 8 holds 15,000 gallons of diesel fuel. AST 9 is normally empty but designed to hold 8,000 gallons of bearing oil.	Air Emissions; Electricity Use; Fuel Use; Spills or Releases (potential); Waste - Hazardous; Waste - Solid (trash)	6/26/2015	RWH