

Appendix J

Examples of EPA Operations and Equipment Which May Require Deactivation and Decommissioning

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Hazardous Materials and Waste	
<ul style="list-style-type: none"> - acid waste drain and neutralization pit - biological species testing chemicals - central hazardous waste accumulation areas - chemical adoption program storage areas - chemical storage areas - containers/pipes for film processing racks - containers/pipes for used fix solution (silver) - containers/pipes for bleach replacement for color film processor - elementary neutralization systems 	<ul style="list-style-type: none"> - graphics operations - hazardous materials/waste storage building - lead-based paint - pathological/infections waste treatment devices - pesticide storage areas - refrigeration systems and equipment - refrigerant recovery systems - satellite hazardous waste accumulation areas
Tanks, Containers, and Other Storage	
<ul style="list-style-type: none"> - acute hazardous waste containers - compressed gas cylinder storage - compressed gas cylinders - control tanks - corrosive solution containers - culture and bioassay tanks - drum storage area surfaces - effluent collection container - fuel oil tank - hazardous waste containers - head tanks - indoor drum storage area 	<ul style="list-style-type: none"> - medical waste containers - modular hazardous waste storage facility - organic solvent containers - outdoor solvent storage building - paint and supply storage areas - radioactive storage facility - satellite accumulation area, surfaces - staging area - storage cabinets, sheds, surfaces - surplus property storage facility - underground and aboveground storage tanks - vehicular storage/maintenance areas and surfaces
Environmental Media (Soil, Groundwater, Wetlands)	
<ul style="list-style-type: none"> - acid neutralization pits - chemical groundwater injection studies - effluent discharge pipe systems - sewer system 	<ul style="list-style-type: none"> - test streams - test stream sediment - testing trailers and mobile laboratories
Radioactive Materials	
<ul style="list-style-type: none"> - test streams - test stream sediment - test plots and research media - inductively coupled plasma atomic emission - sealed sources/isotope solutions - radiological waste/materials storage areas - radiological treatment systems 	<ul style="list-style-type: none"> - atomic absorption spectrophotometer - gas chromatograph with electron capture - radioactive contaminated floors, wall, items - radioisotope fume hood - radioisotope glove boxes - radiological fume hood air ducts

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Examples of EPA Operations and Equipment
Which May Require Deactivation and Decommissioning (continued)

Polychlorinated Biphenyls	
<ul style="list-style-type: none"> - PCB-contaminated ballast, animal bedding/ cages - PCB-contaminated samples & waste containers - pesticide storage cabinets 	<ul style="list-style-type: none"> - PCB lysi meters - PCB transformers or electrical equipment - PCB waste storage areas - test plots and research media
Asbestos	
<ul style="list-style-type: none"> - asbestos analysis equipment - asbestos-containing material 	<ul style="list-style-type: none"> - asbestos samples
Indoor Air	
<ul style="list-style-type: none"> - laboratory exhaust vents - laboratory exposure chambers 	<ul style="list-style-type: none"> - vent pipes
Laboratory Equipment and Pilot/Bench-Scale Experiments	
<ul style="list-style-type: none"> - acid wash bath equipment/wastewater - atomic absorption spectrophotometer - boiler - five-chamber chemical combustor apparatus - fluid modeling facility - laboratory fume hood stacks - laboratory fume hoods - gas chromatographs with electron capture detectors - glassware washing areas - HPLC instrumentation 	<ul style="list-style-type: none"> - inductively coupled plasma atomic emission spectroscophers - ion-exchange system - mass spectrometer - ozone regeneration system - radioactive contaminated floors, walls, items - sanitary treatment plant - scintillation counting devices - sealed sources/isotope solutions - solvent extraction and distillation flasks - wastewater treatment system and piping - wipe test equipment
Building Systems	
<ul style="list-style-type: none"> - boilers - building water supply system - emergency power generators - exhaust stacks - fluorescent lights and ballast - furnace equipment - HVAC systems (CFCs, cooling tower) - natural gas-fired boilers 	<ul style="list-style-type: none"> - NPDES effluent pipes - oil-fired steam boiler - pathological incinerator - rotary kiln incinerator system - sanitary sewer system and drains - scrubber water accumulation tanks - septic system - wastewater treatment system
Other	
<ul style="list-style-type: none"> - drinking fountains failing to meet lead standards - dry system drainage - fire extinguishers/suppression equipment - fire-detection equipment - personal protective equipment 	<ul style="list-style-type: none"> - spill-control equipment - sumps - water deionizing systems - wet laboratory building - wood and metal shops