

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EM							Radiological Contamination				Related Documents - Available on Shared Library Unless Indicated as Technical Library - (TL)	Comments		
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Occ'd	Contaminated	Type			Level	
CPP-602	Laboratory & Offices Bldg or Denitrator Area	47628		3	1	1953	Reinforced Concrete Structure: Men's Locker/Change Room - 312 lockers, 3945 sq ft. Women's Locker/Change Room - 40 lockers, 690 sq ft. Elevator - 6000 lb cap, serves basement thru second floor. Full utility services for the labs and office areas.	Chemical Laboratory: This facility provides the primary analytical laboratories in support of INTEC and CPP-684 (Remote Analytical Lab) activities. Includes general office, Lab, Analytical, Auditorium/Conference.	Yes	Yes	Cs, Sr, U, Pu	> 1000D/M (Disintegrations/Min.)	IAG-42 for INTEC Lab Facilities, LST-111 INTEC Labs Safety Basis List, SAR 147-2 Section 2.3.2.	Hazard Category 2 - INTEC Fuel Processing Facility, includes two facilities; CPP-601 (Fuel Processing Building) & CPP-602 (Denitrator Area). Also part of the Hazard Category 2 - INTEC Laboratory Facilities which include; CPP-602 (Laboratory and Laboratory Support Areas, CPP-627 (Remote Analytical Facility) & CPP-630 (Mass Spectrometry Laboratory Area).
CPP-603B	Fuel Receiving & Storage Facility (Dry Side), Irradiated Fuel Storage Facility (IFSF)	10940		2	1	1953	Reinforced Concrete Structure: The CPP-603B/Irradiated Fuel Storage Facility (IFSF) provides handling capability and dry vault storage of SNF. Constructed to provide dry storage of graphite fuels from the Peach Bottom & Ft. St. Vrain reactors and has received fuels from the DRR & FRR programs. It provides interim storage and staging for eventual transfer to a repackaging facility. The IFSF consists of a cask receiving area, a cask transfer car system, fuel handling cave equipped with cameras and a fuel canning station, control & instrumentation room, fuel storage area, and a crane maintenance area. There is a 60 ton crane in the cask receiving area which supports the transfer of SNF casks, a 10 ton crane in the fuel handling cave, and a 3 1/2 ton crane (used to remove and replace cask lids load and unload fuel from the casks; transfer fuels, canisters, and equipment within the storage facility). There is a 2 ton hoist located on the bridge mounted PaR manipulator (to retrieve the 10 ton crane if it were to fail). Three manipulators are in cave area.	Special Nuclear Material Storage Building CPP-603, known as the Wet & Dry Fuel Storage Facility, is essentially two buildings under one roof and provides fuel management capability for two major functions - wet and dry storage of spent nuclear fuel (SNF). The dry side of CPP-603 is described here, the wet side is described in the facilities Deactivation list (see exhibit C.5b). The vault contains 636 dry storage positions, of which 372 positions are estimated to be occupied by 10/01/04 (58% capacity). due to deficiencies in the HVAC system 100 positions are restricted from use. An HVAC upgrade project to correct the deficiencies is planned for completion by end of FY04. The restricted positions may again be available at the conclusion of the upgrade project.	Yes	Yes	Limited Loose contamination, Mixed Fission Products, Fissile Material.	>1000 D/M	IAG-40 for INTEC Irradiated fuel storage facility (CPP-603, IFSF), SAR 147-2 Section 2.1.1. PSD 4.12 series, PSD 4.12B CPP-603/IFSF/FCS; Rev. Release 10/09/97; Facilities for Storage of DOE-Owned SNF	Hazard Category 2 - INTEC CPP-603 Basin Facility, includes CPP-603A Fuel Receiving and Storage Basin, CPP-648(Basin Sludge Tank Control House & Vault & CPP-764 (SFE Waste Hold Tank Vault). The IFSF is a moderator exclusion area (limited amounts of water are allowed in the facility). A drying capability is required to ensure that the fuel is dry prior to storage. Drying may take from several hours to several days to complete. Within the fuel handling cave is the Fuel Canning Station (FCS). FCS operations consist of placing the fuel into fuel storage canisters, dewatering and drying of the fuel, and preparation of the fuel storage canisters for interim storage within the fuel storage area. Equipment used include; fuel buckets or cans for each fuel type, fuel storage canisters, fuel handling tools, and other miscellaneous equipment. The FCS is located in a large floor well in the fuel handling cave. The weight of the FCS and a fully loaded storage canister is a maximum of 4,500 lbs.
CPP-604	Rare Gas Plant/Waste Bldg	9600		4	2	1953	Reinforced Concrete Structure: Crane - Jib crane capacity 2-tons - used to lift off & install & move k-plug from the vault. Crane - 0.25 ton - located west of building / used to lift filters. Crane - 5 ton - hoist over elevator shaft. One Overhead Door - 12 ft wide, 12 ft high. Nine Steam Unit Heaters, wet pipe fire suppression system. On the CPP-604 northside are 3 waste tanks (WM-100, WM-101 and WM-102) and on the eastside 2 waste tanks (WM-132 and WM-133) all are 18,000 gallon tanks and are used in PEW operations.	Nuclear Waste Processing Handling Building. This facility processes liquid waste materials. The facility contains fixed and rad, fissile material.	Yes	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-41 for PEWE System, LST-110 PEWE Safety Basis List, INEEL RCRA operating permit, Vol. 14, IAG-32 for Airborne Waste Mgt., LST-101 Atmospheric Protection System (APS) Safety Basis List, SAR 147-2 Section 2.4.3	Hazard Category 2 - Airborne Waste Management System (AWMS). AWMS includes CPP-605, CPP-649, CPP-692, CPP-708, CPP-756 & CPP-1683. Process Equipment Waste Evaporator (PEWE) System includes operations in buildings CPP-604, CPP-601, CPP-641, Cpp-1619, & CPP1683. Part of the Hazard Category 2 - INTEC Process Equipment Waste System (PEW) which includes the following; CPP-601, CPP-604, CPP-641, CPP-642, CPP-1619 & CPP-1683. Also part of Hazard Category 2 - INTEC Tank Farm Facilities which includes the following; CPP-604, CPP-618, CPP-619, CPP-622, CPP-623, CPP-628, CPP-632, CPP-634, CPP-635, CPP-636, CPP-712, CPP-713, CPP-780, CPP-781, CPP-782, CPP-783, CPP-784, CPP-785, CPP-786, & CPP-1683.
CPP-605	Blower Building	2944		1	0	1953	Prefabricated Steel Structure: Contain switchgear room and one steam heater.	Service Building: This facility supports the operations in the Nuclear Waste Process Building (CPP-604) and the Atmospheric Protection System.	Yes	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-32 for Airborne Waste Mgt., LST-101 APS Safety Basis List, INTEC PSD 8.6	Hazard Category 2 - Airborne Waste Management System (AWMS). AWMS includes CPP-604, CPP-649, CPP-692, CPP-708, CPP-756 & CPP-1683.
CPP-606	Service Bldg Powerhouse	13510		1	0	1953	Prefabricated Steel Structure: Has one steam heater and one space heater located in the liquid nitrogen area.	Service Building: This facility is the central boiler plant and utility facility for INTEC.	Yes	No				
CPP-611	Water Well #1 Pumphouse	980		1	0	1953	Masonry Structure: Includes one steam heater.	Service Building: This facility houses the pumps for one of two wells providing raw water to INTEC.	No	No				
CPP-612	Water Well #2 Pumphouse	980		1	0	1953	Masonry Structure: Contains one steam heater.	Service Building This facility houses the pumps for one of two wells proving raw water to INTEC.	No	No				
CPP-613	Substation #10	1956		1	0	1953	Masonry Structure: Includes one steam heater and one space heater.	Service Building This facility is the primary substation for INTEC.	No	No				

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

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Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Ocp'd	Contaminated	Type	Level				
CPP-614	Diesel Engine Pumphouse	247	1	0	1984	Masonry Structure: Includes one unit heater.	Service Building This facility houses the diesel engine for the pumphouse.	No	No						
CPP-615	Waste Water Treatment Plant	124	1	0	1982	Masonry Structure: Includes four Cooling - DX units, one electric heater - 8 Kw and 20 psi air system.	Service Building This facility is the sewage treatment plant for INTEC, designed to process 80,000 GPD of sewage.	No	No						
CPP-616	Emergency Air Compressor Bldg.	247	1	0	1979	Steel Framed Structure: Includes Fire Suppression System - Wet Pipe.	Service Building This facility houses the emergency air compressor at INTEC.	No	No						
CPP-626	Change Room	1956	1	0	1953	Steel Framed Structure: Includes two Cooling - DX air conditioning units, Fire Suppression System - Dry Pipe - 1956 sq ft., and one steam heater.	Change House: This facility is a locker change room supporting activities in CPP-603.	Yes	No				IAG-44 for INTEC Underwater fuel receiving & storage facility (CPP-603).	Clean, no radioactive materials.	
CPP-630	Safety & Spectrometry Facility	22090	2	0	1956	Masonry Exterior Walls: Includes one Steam Heater unit and one Cooling DX air conditioning unit.	General Support Building: This facility houses mass spectrometry laboratories, analyses operations and ES&H staff, including Rad-Con, on the first floor. The second floor houses additional ES&H administration and support staff for INTEC operations & office space for scientists supporting CPP-602 and CPP-630 operations.	Yes	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-42 for INTEC Lab Facilities, LST-111 INTEC Labs Safety Basis List, SAR 147-2 Section 2.3.2.	Hazard Category 2 - INTEC Laboratory Facilities which include; CPP-602 (Laboratory Areas and Laboratory Support Areas, CPP-627 (Remote Analytical Facility) & CPP-630 (Mass Spectrometry Laboratory Area).		
CPP-639	Instr. Bldg 1st Bin Set	372	1	0	1978	Includes two electric heaters	Service Building: Houses the instrumentation supporting 1st set calcined solids storage bin.	No	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-33 for CSSFs, LST-102 CSSF Safety Basis List, SAR/TSR-104 CSSF 1 SAR & TSRS.	Hazard Category 2 - INTEC first calcined solids storage system, includes CPP-639, CPP-729, CPP-732 & CPP-741. CPP-639 is the Blower Bldg for Bin Sets I, II & III.		
CPP-641	Westside Waste Holdup Tank Vault/Pumphouse	372	1	0	1961	Masonry Exterior Walls Includes 2 electric heaters	Service Building: Pump house for waste holdup system.	No	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-41 for PEWE System, LST-110 PEWE Safety Basis List, INEEL RCRA operating permit, Vol. 14.0	As an integral part of the overall process system this is a Hazard Category 2 - INTEC Process Equipment Waste System (PEW) which includes the following; CPP-601, CPP-604, CPP-641, CPP-642, CPP-1619 & CPP-1683.		
CPP-642	Hot Waste Pumphouse	100	1		1958	Masonry Exterior Walls: Includes one unit heater steam and air compressor.	Service Building: Pumphouse for the hot waste processing operations.	No	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-41 for PEWE System, LST-110 PEWE Safety Basis List, INEEL RCRA operating permit, Vol. 14.0	As an integral part of the overall process system this facility is less than a Hazard Category 3 - INTEC Process Equipment Waste System (PEW) which includes the following; CPP-601, CPP-604, CPP-641, CPP-642, CPP-1619 & CPP-1683.		
CPP-644	Substation #20 Emergency Power	1956	1	0	1960	Steel Framed Structure: Includes Fire Suppression System - Wet Pipe - 1956 sq. ft., two steam heater units, standby diesel generator.	Service Building: Facility contains emergency diesel generator, 125V DC battery system and electrical switchgear for standby electrical service.	Yes	No					CPP-644 (Emergency Generator) is no longer in use. However, it is contained in Substation #20 which is operational, therefore it is on the operational list.	
CPP-646	Instr. Bldg 2nd Bin Set	50	1	0	1966	Masonry Exterior Walls Includes one space heater.	Service Building: Houses the instruments and controls for the 2nd set calcined storage bins.	No	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-33 for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazard Category 2 - INTEC second, third, fourth & fifth Calcined Solids Storage System. Includes CPP-639 (blower for Bin Sets I, II & III), CPP-646 (Instrument Bldg. for 2nd Set Calcined Solids Storage Bins, CPP-647 (Instrument Bldg for 3rd Set Calcined Solids Storage Bins, CPP-658 (Instrument Bldg. for 4th Set Calcined Solids Storage Bins, CPP-671 (Instrument Bldg. for 5th Set Calcined Solids Storage Bins), CPP-742 (2nd Set Calcined Solids Storage Bins), CPP-744 (Equipment Vault for 2nd Bin Set), CPP-746 (3rd Set Calcined Solids Storage Bins), CPP-747 (Equip. Vault for 3rd Bin Set), CPP-760 (4th Set Calcined Solids Storage Bins), 761 (Equip. Vault for 4th Bin Set), & CPP-765 (5th Set Calcined Solids Storage Bins).		

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

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Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Ocp'd	Contaminated	Type	Level				
CPP-647	Instr. Bldg 3rd Bin Set	50	1	0	1971	Masonry Exterior Walls Includes one space heater.	Service Building: Houses the instruments and controls for the 3rd set calcined solids storage bins.	No	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-33 for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazard Category 2 - INTEC second, third, fourth & fifth Calcined Solids Storage System. Includes CPP-639 (blower for Bin Sets I, II & III), CPP-646 (Instrument Bldg. for 2nd Set Calcined Solids Storage Bins, CPP-647 (Instrument Bldg for 3rd Set Calcined Solids Storage Bins, CPP-658 (Instrument Bldg. for 4th Set Calcined Solids Storage Bins, CPP-671 (Instrument Bldg. for 5th Set Calcined Solids Storage Bins), CPP-742 (2nd Set Calcined Solids Storage Bins), CPP-744 (Equipment Vault for 2nd Bin Set), CPP-746 (3rd Set Calcined Solids Storage Bins), CPP-747 (Equip. Vault for 3rd Bin Set), CPP-760 (4th Set Calcined Solids Storage Bins), 761 (Equip. Vault for 4th Bin Set), & CPP-765 (5th Set Calcined Solids Storage Bins).		
CPP-649	Atmospheric Protection System	6100	2	1	1976	Reinforced Concrete Structure: Includes one Cooling - DX Air conditioner unit, one overhead door - 8 ft wide by 9 ft high, Fire Suppression System - Wet Pipe, three heaters - Steam.	Processing Facility: This facility filters process off-gas before released to atmosphere.	Yes	Yes	Cs, Sr	> 1000D/M	IAG-32 for Airborne Waste Mgt., LST-101 APS Safety Basis List, INTEC PSD 8.6	Hazard Category 2 - Airborne Waste Management System (AWMS). AWMS includes CPP-604, CPP-605, CPP-692, CPP-708, CPP-756 & CPP-1683.		
CPP-652	Cafeteria & Offices	7600	2	1	1976	Reinforced Concrete Structure: Includes Control/Communication Center, One Cooling - DX Air conditioning unit, one 3400 cfm exhaust fan, one 2200 cfm exhaust fan, two 1000 cfm exhaust fans, one 200 cfm exhaust fan, three 500 cfm exhaust fans, three 700 cfm exhaust fans, and one 600 cfm exhaust fan. Fire Suppression System - Wet Pipe - 7600 sq. ft., one steam heat air handling unit.	Service Building: This facility serves as INTEC's cafeteria area (hot meals and dining space). The balance of the space is used for the Plant Shift Supervisor functions and Emergency Communication Center for INTEC.	Yes	No						
CPP-655	Craft Shop & Warehouse	16000	1	0	1977	Steel Framed Structure: Includes two 1 ton cranes, five overhead doors - 12 ft wide by 12 ft high, Fire Suppression System - Dry Pipe - 16000 sq ft, four gas heaters/propane unit heaters.	Maintenance Shop: This facility was recently reconfigured to accommodate consolidation of INEEL maintenance crafts to INTEC. This facility now contains a warehouse for maintenance support and kitting activities.	Yes	No						
CPP-658	Instr. Bldg 4th Bin Set	60	1	0	1980	Reinforced Concrete Structure: Includes one electric heater - 5 KW.	Service Building: This facility houses the instruments for operation of the 4th set calcined solids storage bins.	No	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-33 for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazard Category 2 - INTEC second, third, fourth & fifth Calcined Solids Storage System. Includes CPP-639 (blower for Bin Sets I, II & III), CPP-646 (Instrument Bldg. for 2nd Set Calcined Solids Storage Bins, CPP-647 (Instrument Bldg for 3rd Set Calcined Solids Storage Bins, CPP-658 (Instrument Bldg. for 4th Set Calcined Solids Storage Bins, CPP-671 (Instrument Bldg. for 5th Set Calcined Solids Storage Bins), CPP-742 (2nd Set Calcined Solids Storage Bins), CPP-744 (Equipment Vault for 2nd Bin Set), CPP-746 (3rd Set Calcined Solids Storage Bins), CPP-747 (Equip. Vault for 3rd Bin Set), CPP-760 (4th Set Calcined Solids Storage Bins), 761 (Equip. Vault for 4th Bin Set), & CPP-765 (5th Set Calcined Solids Storage Bins).		

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Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Occ'd	Contaminated	Type	Level			
CPP-659	New Waste Calcine Facility	77000		5	3	1981	Reinforced Concrete Structure: Includes four Cooling - Closed Loop -100 ton, Air conditioner units, two evaporative cooler units, and Control/Communication Center, two 1 ton cranes, two 30 ton cranes, two 5 ton cranes, one 3 ton crane, two overhead doors - 12 ft wide by 14 ft high, two overhead doors - 18 ft wide by 20 ft high, one 10000 lb cap elevator, fire suppression system - wet pipe - 77000 sq. ft., one electric heater - 15 KW, two electric heaters - 12.5 KW, two electric heaters - 10.0 KW, two electric heaters - 30 KW, one electric heater - 20 KW, four steam heaters, high bay area - 62 ft. long by 26 ft wide by 24 ft high with one 1/2 ton hoist, one 1 ton hoist, one 3 ton hoist and two manipulator hoists. There are two loading docks- 15 ft wide by 4 ft high & 36 ft long by 15 ft wide by 3 ft 11 in above grade, men's locker/change room - 36 lockers, women's locker/change room - 16 lockers and a decon facility.	Service Building: This facility was designed for the calcining of stored liquid waste for ultimate storage within the calcine storage facilities.	Yes	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-43 for NWCF, LST-112 NWCF Safety Basis List, SAR/TSR-103 NWCF DSA & TSRs.- (TL), INEEL RCRA operating permit - Vol. 14, INEEL RCRA operating permit - Vol. 18, NWCF RCRA Closure Plan, Idaho HLW EIS.	Hazard Category 2 INTEC New Waste Calcining Facility (NWCF) includes CPP-659 (New Waste Calcining Facility Building, CPP-694 (Organic Solvent Disposal Building, CPP-1775 (NWCF Calciner Ventilation Stack. In accordance with current Consent Order requirements, DOE developed and the State of Idaho approved and issued a Calciner System RCRA Closure Plan in 2000. The plan requires DOE to flush remaining wastes from the Calciner system and render the system inoperable by isolating process waste lines and dismantling utility support lines by the end of FY04. In that regard, as of September 2004, the calciner system cells will be cleaned of debris, the system will be flushed of residual wastes, all process waste lines will be isolated by instrumentation and control system logic, and all utility support lines (kerosene, steam, etc.) will be physically cut and capped or blanked off. Besides reconnection of utilities, substantial Maximum Achievable Control Technology (MACT) upgrades and regulatory permitting would be required to make the Calciner system operational. Since calcination remains as SBW treatment option, the isolation activities are as much as practical being designed and implemented to allow for re-connection if calcination is chosen for future use.
CPP-661	Guardhouse	375		1	0	1986	Reinforced Concrete Structure: Includes one Cooling - DX Air conditioner unit, one heat pump - 10 KW.	Guard House: Functions as a primary entrance facility into INTEC for vehicles, includes scanning and vehicle barrier gates.	Yes	No				
CPP-662	Maintenance & Fab Shop	4000		1	0	1979	Steel Framed Structure: Includes one 10 ton crane, Overhead door - 14 ft wide by 16 ft high, one overhead door - 12 ft wide by 14 ft high, two welding fume exhaust fans, Fire Suppression System - Wet Pipe - 4000 sq ft, four electric heaters - 40 KW, two steam heaters, one high bay area - 98 ft long by 38 ft wide by 18 ft high.	General Plant Maintenance Shop: Facility functions as the primary Manufacturing/Fabrication/Assembly shop for INTEC.	Yes	No				
CPP-663	Crafts Bldg.	68200		2	0	1980	Steel Framed Structure: Includes two 5 ton cranes, one 15 ton crane, one overhead door - 8 ft wide by 10 ft high, one overhead door - 10 ft wide by 14 ft high, one overhead door - 14 ft wide by 16 ft high, one overhead door - 14 ft wide by 18 ft high, one overhead door 12 ft wide by 14 ft high, one elevator - 5000 lb cap, Fire Suppression System - Wet Pipe - 68200 sq ft, two electric heaters, twenty steam heater units, four heat exchangers, High Bay - 210 ft long by 52 ft wide by 20.75 ft high, women's Locker/Change room - 20 lockers, men's Locker/Change room - 190 lockers, Paint Booth - 25 ft long by 16 ft wide by 20 ft high, Special Environmental Controls, and an isolated HEPA filter exhaust system.	General Maintenance Shop: The entire first floor space is allocated for craft use. It consists of various craft shops, tool crib, instrument shop, work planning, etc. Auditorium/Conference room and meeting room space is provided on the second floor along with personnel offices. Included in the first floor is a 4400 sq. ft. hot shop for maintenance of contaminated equipment.	Yes	No				

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Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Occ'd	Contaminated	Type			Level
CPP-666	Fluorinel Dissolution Process Facility (FAST)	95600	7		1983	Reinforced Concrete Structure: Includes a control/communication center - 1664 sq ft, two 10 ton cranes, one 130 ton crane, one 30 ton crane, one 7.5 ton crane, two 15 ton cranes, two hatch lifting cranes, one four overhead doors, one freight elevator, fire suppression system wet pipe, fire suppression system - dry pipe, seven electric heater units, 17 steam heaters, three 1/2 ton hoists, one 1.5 ton hoist, five 1 ton hoists, one 5 ton crane, women's locker/change room, men's locker/change room, six storable bins. All of the six storage pools have the same footprint - 31 ft. wide by 46.5 ft. long. Pools 1 & 2 are 41 ft. deep and pools 3, 4, 5 & 6 are 31 ft deep.	The FAST facility has two main areas. The first is the Fuel Storage Area (FSA), where fuel is stored underwater. The second area is the Fluorinel Dissolution Process (FDP), where spent nuclear fuel was dissolved prior to the cancellation of fuel reprocessing. The FSA portion contains seven main functional areas: (1) the truck receiving area, (2) cask receiving and decontamination area (including two decon rooms), (3) fuel unloading pools and adjacent isolation pools, (4) the transfer channel, (5) fuel storage pool area, (6) fuel cutting pool area, and (7) the control room. Cask handling operations are conducted in the cask receiving and decon area located south of the unloading pools. Access to the storage pools from the unloading pool is provided via the transfer channel. The transfer channel is located on the east side of the storage pool area and runs the entire length of the storage area. There are two unloading pools with adjacent isolation pools.	Yes	Yes	Mixed Fission Products	Up to 109 Curies, 1.3 Curies pool water, 11 Curies spent ion exchanger resin, Misc loose contamination.	IAG-36 INTEC Fluorinel Dissolution & Fuel Storage (FAST) Facility (CPP-666), SAR 147-2 Section 2.1.5. SAR-113.	Hazard Category 2 - INTEC Fluorinel Dissolution Process Area & INTEC FAST Fuel Storage Area (FSA), made up of the following two facilities: CPP-666 (Fluorinel Dissolution & Fuel Storage Facility) and CPP-767 (Stack for CPP-666). The fuel storage area of FAST will be emptied of SNF per contract schedule by 2009. At that time fuel storage basin can be dewatered & stabilized.
CPP-666 Continued							The FSA was initially designed to provide interim fuel storage for fuels destined to be processed in FDP. After commencement of operations, the FSA facility was expanded to include assembling of fuels into packages, storage of diverse fuel types and components not destined for FDP and storage of fuels in a stacked configuration in the rack ports. Fuels included EBR-II, Fermi driver fuels, and misc. aluminum fuels. The current mission of the FSA includes long-term storage of fuels compatible with underwater environments, and interim storage of less stable materials destined for dry storage or other permanent disposition. Transfer of all fuels from the CPP-603 fuel storage basins to the FSA was accomplished in 2000. At the present time, the primary operation conducted at this facility is fuel receipt, handling, and storage. Other support activities include cask handling, water recirculation and treatment, crane operations, fuel inventory management, and racking activities.						
CPP-666 Continued							The FDP side was last operated in 1988, after two campaigns. The process was in a maintenance turnaround status when fuel reprocessing was discontinued. The FDP has been in a transition status since April 1992. All reagent makeup and feed vessels have been emptied, but not all have been flushed and may contain some residual chemicals, such as cadmium sulfate and cadmium nitrate. All three FDP dissolution trains have undergone chemical flushing followed by water rinses. Remaining solids have been sampled and determined to consist mainly of aluminum and zirconium. Sample analysis has found no hazardous constituents inside the dissolution trains and there is less than 15g of uranium total in the three trains. All fuel transfers into the FDP cell have ceased. All valves transferring product from the FDP to CPP-601 have been closed. As a result, the FDP cell is designated as non-CCA.						

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CPP-666 Continued							The DOG and cell off-gas prefilters and HEPA filters contain both radioactive materials and cadmium and are considered mixed waste. The FDP cells have RCRA interim status for storage of spent filters. There are 105 DOG prefilters, 40 final DOG HEPA filters, and 2 COG HEPA filters currently stored in the FDP cell. The spent HEPA filters are expected to be treated by the Filter Leach Process located in the NWCF. A minimum number of systems remain in service to provide adequate heating & ventilation, contamination control, fire protection, and basic utility services. All other related systems have been taken out of service. Most of the process instrumentation, Data Processing System Enhancement, and the plant protection system have been taken out of service. Most of the TS/Ss for the FDP have been canceled. The operating & administrative procedures have been reviewed and have either been rewritten or canceled to reflect current configuration.						
CPP-673	Service Bldg. 6th Bin Set	200	1		0 1986	Reinforced Concrete Structure Includes electric heaters.	Service Building: Houses the mechanical and electrical equipment necessary for CPP-791(6th Bin Set) to operate.	No	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-33 for CSSFs, LST-102 CSSF Safety Basis List, SAR-106 CSSF - (TL)	Hazard Category 2 - INTEC Sixth Calcined Solids Storage Facility. Includes CPP-673 (Storage Building for 6th Calcined Solids Storage Bin Set) & CPP-791 (6th Set Calcined Solids Storage Bins).
CPP-677	UREP Load Center #2	610	1		0 1983	Steel Framed Structure	Service Building This building is an electrical load center.	Yes	No				
CPP-679	Tent Fabrication Facility	1500	1		0 1983	Steel Framed Structure: Includes on overhead door - 8 ft wide, 10 ft high, Fire Suppression System - Wet Pipe - 1500 sq ft, one gas unit heater.	Carpentry Shop: This facility is used as the tent fabrication shop to support operations.	Yes	No				
CPP-684	Remote Analytical Lab	12000	2		0 1985	Steel Framed Structure: Includes one 15 ton crane, Fire Suppression System - Wet Pipe - 12000 sq ft, one electric heater, 19 steam heaters, one 1 ton hoist, women's locker/change room - 10 lockers, men's locker/change room - 42 lockers.	Chemical Laboratory (Nuclear) This facility is the primary hot analytical lab at INTEC.	Yes	Yes	Cs, Sr, U, Pu	> 1000D/M	SAR 147-2 Section 2.3.1.	Hazard Category 3 - Remote Analytical Laboratory.
CPP-691	Fuel Processing Restor. Facility	160000	6		3 1992	Reinforced Concrete Structure: Includes 12 overhead doors - 16 ft wide, 16 ft high, two overhead doors - 12 ft wide, 10 ft high, one overhead door - 12 ft wide, 18 ft high, freight elevator, high bay area, loading dock, back up generator, hot cells, 12 isolated processing cells, and a vault area. Has a freight elevator and a 50 ton crane. Main floor capacity is 250 psf.	Process Building: This facility was designed as a replacement fuel processing facility. The project was stopped prior to completion. Some of the major equipment is currently being stored within the facility. This facility has the latest technology for Radiation Protection, Contamination Control, Decontamination, Natural Phenomenon Protection and Remote Handling. The building siding is a unique construction to ventilation differential pressure maintenance, virtually air tight siding system. It has on the bottom level 12 isolated process cells of which the largest cells are 20 ft wide by 34 ft deep by 43 ft high with walls that are 5 ft thick with stainless steel lining on the floors and walls. The 50 ton crane is used for cell hatch work and is equipped with seismic claps. Bridge travel is 221 ft and has a span of 51 ft. There is also a bridge mounted manipulator for in cell maintenance. On the main floor is a control room with is contracted for missile protection. The building was designed and constructed to ASME NQA -1 compliance.	No	No				This facility was partly constructed and has 12 stainless steel lined hot cells partially completed in a state of the art designed liquid reprocessing facility. Life Safety System upgrades would be needed along with utilities to make this facility functional for future reuse.
CPP-692	Waste Stack Monitor System	600	1		0 1983	Steel Framed Structure: Includes one Cooling - DX Air conditioner plus one Package air cooler unit supplying air conditioning in parallel.	Processing Facility: This facility houses the monitoring instrumentation required to support the main stack monitoring activities.	No	Yes	Cs, Sr	> 1000D/M	IAG-32 for Airborne Waste Mgt., List-101 APS Safety Basis List	

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EM							Radiological Contamination				Related Documents - Available on Shared Library Unless Indicated as Technical Library - (TL)	Comments	
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Occ'd	Contaminated	Type			Level
CPP-694	NWCF Organic Solvent Disposal	850	1	0	1982	Steel Framed Structure: Includes on exhaust -220 cfm, Fire Suppression System/Dry Chemical/850 sq ft, one electric heater - 10 KW.	Storage Building: Building used for the disposal of organic solvents from NWCF (CPP-659).	No	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-43 for NWCF, List-112 NWCF Safety Basis List, SAR/TSR-103 - (TL), INEEL RCRA operating permit - Vol. 14, INEEL RCRA operating permit - Vol. 18, NWCF RCRA Closure Plan, Idaho EIS.	Hazard Category - 2: INTEC New Waste Calcining Facility (NWCF) includes CPP-659 (New Waste Calcining Facility Building, CPP-694 (Organic Solvent Disposal Building), CPP-1775 (NWCF Calciner Ventilation Stack). In accordance with current Consent Order requirements, DOE developed and the State of Idaho approved and issued a Calciner System RCRA Closure Plan in 2000. The plan requires DOE to flush remaining wastes from the Calciner system and render the system inoperable by isolating process waste lines and dismantling utility support lines by the end of FY04. In that regard, as of September 2004, the calciner system cells will be cleaned of debris, the system will be flushed of residual wastes, all process waste lines will be isolated by instrumentation and control system logic, and all utility support lines (kerosene, steam, etc.) will be physically cut and capped or blanked off. Since calcination remains as a viable SBW treatment option, the isolation activities are as much as practical being designed and implemented to allow for ease of re-connection if calcination is chosen for future use.
CPP-697	East Guardhouse	3938	1	0	1986	Reinforced Concrete Structure: Includes two overhead doors - 15.75 ft wide, 20 ft high, Fire Suppression System - Wet Pipe - 3938 sq ft, two electric heat pumps, covered vehicle inspections port with delta barriers.	Security Gate House: This facility is the INTEC east side security vehicle monitoring facility and guardhouse.	No	No				
CPP-701	Fuel Oil Unload Shelter	200	1	0	1951	Masonry block structure.	Used as the transfer station for fuel oil used in the CPP-606 boilers.	No	No				
CPP-701A	Fuel Oil Storage. Tank VES-UTI-681	1,600	1	0	1951	welded steel tank, 31 ft high	Used to house fuel oil for the CPP-606 boilers. Tank holds 244,000 Gals.	No	No				
CPP-701B	Fuel Oil Storage. Tank VES-UTI-682	900	1	0	1960	welded Steel Tank, 18 ft high	Houses fuel oil for the CPP-606 boilers. Tank holds 50,000 Gals.	No	No				
CPP-708	Main Exhaust Stack	200			1953	Reinforced concrete structure, 243 ft high	Used as an exhaust stack.	No	Yes	Cs, Sr, U, Pu	>1,000 D/M	IAG-32 for Airborne Waste Mgt., List-101 APS Safety Basis List, INTEC PSD 8.6	Hazard Category 2 - Airborne Waste Management System (AWMS). AWMS includes CPP-604, CPP-605, CPP-649, CPP-692, CPP-708, CPP-756 & CPP-1683.
CPP-711	Unloading Shelter at CPP 603	154	1	0	1958	Masonry block structure.	Used as a fuel transfer station.	No	No				
CPP-719A	Nitric Acid Storage VES-CS-100	750	N/A		1954	Welded Steel construction, 10 ft. high.	Used to store nitric acid. Tank holds 34,100 Gals.	No	No				
CPP-719B	Nitric Acid Storage VES-CS-151	600	N/A	0	1954	Welded Steel construction, 18 ft. high.	Used to store nitric acid. Tank holds 18,400 Gals.	No	No				
CPP-720A	Alum. Nitrate Storage VES-CS-101	500	N/A	N/A	1954	Welded steel construction, 7 ft. dia. By 16 ft. high.	Used for storage of Alum. Nitrate. Tank holds 18,400 Gals.	No	No				Tank is empty and in Operational Standby.
CPP-720B	Alum. Nitrate Storage VES-CS-102	400	N/A	N/A	1954	Welded steel construction, 4 ft. dia. By 12 ft. high.	Used for storage of Alum. Nitrate. Tank holds 8,000 Gals.	No	No				Tank is empty and in Operational Standby.
CPP-724	Lift Station	64	1	0	1953	Steel sided building - 8 ft wide by 8ft deep by 8 ft high over a reinforced concrete structure that contains a 110 gpm pump.	Structure is used as a lift station for the INTEC sewage treatment plant collection system.	No	No				
CPP-725	Water Storage Tank VES-UTI-600	3,600	N/A	N/A	1951	Welded steel structure 42 ft. high with a 25 ft dia. Holds 630,000 Gals.	Structure is used to store water for the INTEC fire protection system. The system is a gravity type.	No	No				
CPP-726	Raw Water Storage Tank	3,600	N/A	N/A	1960	Welded steel structure 40 ft high with a 25 ft dia. Holds 580,000 Gals.	Structure is used to store water for the INTEC fire protection system. The system is a gravity type.	No	No				
CPP-728	Lift Station for NWCF	78.5	1	1	1953	Round reinforced concrete structure, 22 ft high with a 10 ft. dia. The structure is basically below grade with 3 to 5 ft of the structure above grade.	The structure is used as a lift station for the NWCF operations and contains a 170 GPM pump.	No	No				
CPP-729	Vault for Bin Set 1	450	1	0	1960	Reinforced concrete building.	The structure is as a vault for Bin Set I	No	Yes	Cs, Sr, U, Pu	>1,000 D/M	IAG-33, for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazard Category 2 - INTEC first calcined solids storage system, includes CPP-639, CPP-729, CPP-732 & CPP-741. CPP-639 is the Blower Bldg for Bin Sets I, II & III.

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EM														
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Occ'd	Radiological Contamination				Related Documents - Available on Shared Library Unless Indicated as Technical Library - (TL)	Comments
									Contaminated	Type	Level			
CPP-730	Liquid Nitrogen Storage Tank	210	N/A	N/A	1964	Welded steel structure - 14 ft high with a 4 ft dia.	The structure is used as a liquid nitrogen storage tank.	No	No					
CPP-732	Cooling Stack Bin Set I	28	N/A	N/A	1960	Welded steel structure 50 ft high with a dia of 3 ft.	Used as the cooling stack for the 1st Bin Set	No	Yes	Cs, Sr, U, Pu	>1,000 D/M	IAG-33, for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazard Category 2 - INTEC first calcined solids storage system, includes CPP-639, CPP-729, CPP-732 & CPP-741. CPP-639 is the Blower Bldg for Bin Sets I, II & III.	
CPP-733	Lift Station	78.5		1	1	1953 Round reinforced concrete structure, 25 ft high with a 10 ft dia. The structure is basically below grade with 3 to 5 ft of the structure above grade.	Used a lift station for the sanitary waste system. The lift station is located on the east side of INTEC and has a 400 gpm pump	No	No					
CPP-736	Salt Storage Pit	200		1	1	1984 Reinforced concrete structure that is below grade and has a round manway lid at grade.	Is used to store salt for the water softener system located in the utilities building, CPP-606	No	No					
CPP-741	Equipment Vault for 1st Bin Set	450		1	1	1962 Reinforced concrete structure, below grade.	Being used as the WCF solids storage vault.	No	Yes	Cs, Sr, U, Pu	>1,000 D/M	IAG-33, for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazard Category 2 - INTEC first calcined solids storage system, includes CPP-639, CPP-729, CPP-732 & CPP-741. CPP-639 is the Blower Bldg for Bin Sets I, II & III.	
CPP-742	Vault for Bin Set 2	49		1	1	1966 Reinforced concrete structure, below grade.	Being used as a vault for Bin Set II	No	Yes	Cs, Sr, U, Pu	>1,000 D/M	IAG-33, for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazard Category 2 - INTEC second, third, fourth & fifth Calcined Solids Storage System. Includes CPP-639 (blower for Bin Sets I, II & III), CPP-646 (Instrument Bldg. for 2nd Set Calcined Solids Storage Bins, CPP-647 (Instrument Bldg for 3rd Set Calcined Solids Storage Bins, CPP-658 (Instrument Bldg. for 4th Set Calcined Solids Storage Bins, CPP-671 (Instrument Bldg. for 5th Set Calcined Solids Storage Bins), CPP-742 (2nd Set Calcined Solids Storage Bins), CPP-744 (Equipment Vault for 2nd Bin Set), CPP-746 (3rd Set Calcined Solids Storage Bins), CPP-747 (Equip. Vault for 3rd Bin Set), CPP-760 (4th Set Calcined Solids Storage Bins), 761 (Equip. Vault for 4th Bin Set), & CPP-765 (5th Set Calcined Solids Storage Bins).	
CPP-744	Equipment Vault for 2nd Bin Set	49		1	0	1965 Reinforced concrete structure situated in the tank farm area of INTEC.	Used for equipment storage.	No	Yes	Cs, Sr, U, Pu	>1,000 D/M	IAG-33, for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazard Category 2 - INTEC second, third, fourth & fifth Calcined Solids Storage System. Includes CPP-639 (blower for Bin Sets I, II & III), CPP-646 (Instrument Bldg. for 2nd Set Calcined Solids Storage Bins, CPP-647 (Instrument Bldg for 3rd Set Calcined Solids Storage Bins, CPP-658 (Instrument Bldg. for 4th Set Calcined Solids Storage Bins, CPP-671 (Instrument Bldg. for 5th Set Calcined Solids Storage Bins), CPP-742 (2nd Set Calcined Solids Storage Bins), CPP-744 (Equipment Vault for 2nd Bin Set), CPP-746 (3rd Set Calcined Solids Storage Bins), CPP-747 (Equip. Vault for 3rd Bin Set), CPP-760 (4th Set Calcined Solids Storage Bins), 761 (Equip. Vault for 4th Bin Set), & CPP-765 (5th Set Calcined Solids Storage Bins).	
CPP-746	Equipment Vault for 3rd Bin Set	49		1	1	1971 Reinforced concrete structure, below grade.	Being used as a vault for Bin Set III	No	Yes	Cs, Sr, U, Pu	>1,000 D/M	IAG-33, for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazard Category 2 - INTEC second, third, fourth & fifth Calcined Solids Storage System. Includes CPP-639 (blower for Bin Sets I, II & III), CPP-646 (Instrument Bldg. for 2nd Set Calcined Solids Storage Bins, CPP-647 (Instrument Bldg for 3rd Set Calcined Solids Storage Bins, CPP-658 (Instrument Bldg. for 4th Set Calcined Solids Storage Bins, CPP-671 (Instrument Bldg. for 5th Set Calcined Solids Storage Bins), CPP-742 (2nd Set Calcined Solids Storage Bins), CPP-744 (Equipment Vault for 2nd Bin Set), CPP-746 (3rd Set Calcined Solids Storage Bins), CPP-747 (Equip. Vault for 3rd Bin Set), CPP-760 (4th Set Calcined Solids Storage Bins), 761 (Equip. Vault for 4th Bin Set), & CPP-765 (5th Set Calcined Solids Storage Bins).	

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EM						Idaho Nuclear Technology Engineering Center - EM						Radiological Contamination		Related Documents - Available on Shared Library Unless Indicated as Technical Library - (TL)	Comments
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Occ'd	Contaminated	Type	Level				
CPP-747	Building Equipment Storage	80	1	0	1971	Reinforced concrete structure.	Used to store building equipment associated with the tank farm operations.	No	No			IAG-33, for CSSFs, LST-102 CSSF Safety Basis List, PSD 8.3B, PSD 8.3B-A (TL).	Hazard Category 2 - INTEC second, third, fourth & fifth Calcinced Solids Storage System. Includes CPP-639 (blower for Bin Sets I, II & III), CPP-646 (Instrument Bldg. for 2nd Set Calcinced Solids Storage Bins, CPP-647 (Instrument Bldg for 3rd Set Calcinced Solids Storage Bins, CPP-658 (Instrument Bldg. for 4th Set Calcinced Solids Storage Bins, CPP-671 (Instrument Bldg. for 5th Set Calcinced Solids Storage Bins), CPP-742 (2nd Set Calcinced Solids Storage Bins), CPP-744 (Equipment Vault for 2nd Bin Set), CPP-746 (3rd Set Calcinced Solids Storage Bins), CPP-747 (Equip. Vault for 3rd Bin Set), CPP-760 (4th Set Calcinced Solids Storage Bins), 761 (Equip. Vault for 4th Bin Set), & CPP-765 (5th Set Calcinced Solids Storage Bins).		
CPP-748	Lift Stations/Subsurface Drainage	100	N/A	N/A	1972	Reinforced concrete structure below grade, has grade level hatch for entry.	Used as a lift station for the surface drainage around INTEC.	No	No						
CPP-749	Peach Bottom Fuel Storage Fac.	80,000	N/A	N/A	1972	Approximately 5 asphalt paved acres used to house underground spent fuel vaults. The vaults are constructed of carbon steel tubes with some of them containing concrete plugs. All the tubes are below grade and accessed from the top using equipment specifically designed for this use.	Used to store spent fuel below grade.	No	Yes	Cs, Sr, U, Pu	>1,000 D/M	PSD 4.7 series.	Hazard Category 2 - INTEC Underground Fuel Storage Facility. There is a potential for degrading aluminum fuel cans and storage baskets in CPP-749, as the environment in first generation storage vaults is moist. There are 40 first generation vaults containing Peach Bottom fuel elements in aluminum cans and aluminum storage baskets. The presence of moisture and the degradation of aluminum cans and aluminum storage baskets have been documented. This vulnerability can be mitigated by transferring the Peach Bottom fuel to second generation storage vaults that are currently available at CPP-749.		
CPP-750	Pump Station	136	2	1	1973	Reinforced concrete structure which contains a 1,000 gpm pump below grade, entry is through a hatch at grade and has a 6 ft by 8 ft. concrete building over it.	Used as a pumping station for the service wastewater system at INTEC.	No	No						
CPP-751	Monitor Station	130	1	1	1973	Reinforced concrete structure below grade, which contains monitoring instrumentation.	Used to house monitoring instrumentation for the service wastewater system at INTEC.	No	No						
CPP-752	Diversion Station	100	1	1	1974	Reinforced concrete structure 9ft high with approximately 7 ft below grade. The concrete structure is isolated by metal fencing.	Structure is used as a diversion station for the service wastewater system at INTEC.	No	No						
CPP-753	Monitor Station	130	1	1	1974	Reinforced concrete structure below grade, which contains monitoring instrumentation.	Used to house monitoring instrumentation for the service wastewater system at INTEC.	No	No						
CPP-753A	Monitor Station	100	1	1	1974	Reinforced concrete structure 9ft high with approximately 7 ft below grade. The concrete structure is isolated by metal fencing.	Structure is used as a diversion station for the service wastewater system at INTEC.	No	No						
CPP-754	Diversion Station	100	1	1	1974	Reinforced concrete structure 9ft high with approximately 8.5 ft below grade. The concrete structure is isolated by metal posts & railing.	Structure is used as a diversion station for the service wastewater system at INTEC.	No	No						
CPP-756	Prefilter Vault	3,672	1	1	1976	Reinforced concrete structure below grade.	Used as a prefilter vault.	No	Yes	Cs, Sr, U, Pu	>1,000 D/M	IAG-32 for Airborne Waste Mgt., List-101 APS Safety Basis List, INTEC PSD 8.6	Hazard Category 2 - Airborne Waste Management System (AWMS). AWMS includes CPP-604, CPP-649, CPP-692, CPP-708, CPP-756 & CPP-1683.		
CPP-757	Vaulted Tank Area	12,500	N/A	N/A	1989	Structure is comprised of a concrete tank support and containment for fluoric acid that is housed in the support vessel VES-CS-113. The tank capacity is 12,500 gals. The containment is comprised of 12 inch thick walls and a 4 inch concrete floor. The tank is carbon steel.	Used as a vault and tankage for the fluoric acid supply system	No	No						
CPP-760	Vault for Bin Set IV	450	1	1	1977	Round Reinforced concrete tank, height is 34 ft.	Used as a vault for Bin Set IV.	No	No			IAG-33, for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)			
CPP-761	Vault for 4th Bins Set Equipment	450	1	1	1977	Reinforced concrete building, height is 10 ft. The structure is located on the roof of CPP-760	Used as a vault for Bin Set IV equipment storage.	No	No			IAG-33, for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)			
CPP-762	Condensate Pump Pit	80	1	1	1978	Reinforced concrete structure below grade. Access is through metal door plates at grade.	Structure houses the condensate pump for the west side of INTEC.	No	No						

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EM						Radiological Contamination				Related Documents - Available on Shared Library Unless Indicated as Technical Library - (TL)	Comments		
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Ocp'd	Contaminated			Type	Level
CPP-765	Vault for Bin Set V	2800	1	1	1981	Round Reinforced concrete tank, height is 54 ft.	Used as a vault for Bin Set V.	No	No			IAG-33, for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazard Category 2 - INTEC second, third, fourth & fifth Calcinced Solids Storage System. Includes CPP-639 (blower for Bin Sets I, II & III), CPP-646 (Instrument Bldg. for 2nd Set Calcinced Solids Storage Bins, CPP-647 (Instrument Bldg for 3rd Set Calcinced Solids Storage Bins, CPP-658 (Instrument Bldg. for 4th Set Calcinced Solids Storage Bins, CPP-671 (Instrument Bldg. for 5th Set Calcinced Solids Storage Bins), CPP-742 (2nd Set Calcinced Solids Storage Bins), CPP-744 (Equipment Vault for 2nd Bin Set), CPP-746 (3rd Set Calcinced Solids Storage Bins), CPP-747 (Equip. Vault for 3rd Bin Set), CPP-760 (4th Set Calcinced Solids Storage Bins), 761 (Equip. Vault for 4th Bin Set), & CPP-765 (5th Set Calcinced Solids Storage Bins).
CPP-766	Seepage Pit	200	1		1979	Round reinforced concrete structure below grade with round cast iron hatch at grade.	Used as a septic tank for CPP-662.	No	No				
CPP-767	FAST Stack	N/A	N/A		1985	Welded Steel structure.	Structure is used as the exhaust stack for FAST.	No	Yes	Mixed Fission Products	Up to 109 Curies, Misc loose contamination >1,000D/M.	IAG-36, SAR 147-2 Section 2.1.1, SAR-126.	Hazard Category 2 - INTEC Fluorinel Dissolution Process Area & INTEC FAST Fuel Storage Area (FSA), made up of the following two facilities: CPP-666 (Fluorinel Dissolution & Fuel Storage Facility) and CPP-767 (Stack for CPP-666).
CPP-768	Sewage Lift Station	80	1	1	1976	Reinforced concrete structure below grade with a concrete lid 2 ft above grade. Height of structure is 20 ft.	Used as a sewage left station for CPP-657/669, has a 200 gpm pump.	No	No				
CPP-769	Flow Control Station #1	68	N/A	N/A	1982	Reinforced concrete structure above grade with a metal lid on top for access. Height is only 2 ft.	Used as a flow control station at the sewage treatment plant.	No	No				
CPP-770	Flow Control Station #2	32	N/A	N/A	1982	Reinforced concrete structure above grade has a metal lid for access. Height is only 2 ft.	Used as a flow control station at the sewage treatment plant.	No	No				
CPP-771	Flow Control Station #3	72	N/A	N/A	1982	Reinforced concrete structure above grade with a metal lid on top for access. Height is only 2 ft.	Used as a flow control station at the sewage treatment plant.	No	No				
CPP-772	Flow Control Station #4	40	N/A	N/A	1982	Reinforced concrete structure above grade has a metal lid for access. Height is only 2 ft.	Used as a flow control station at the sewage treatment plant.	No	No				
CPP-773	UREP Flow Control Station #5	181	N/A	N/A	1982	Reinforced concrete structure above grade has a metal lid for access. Height is only 2 ft.	Used as a flow control station at the sewage treatment plant.	No	No				
CPP-774	UREP Flow Control Station #6	36	N/A	N/A	1982	Reinforced concrete structure above grade has a metal lid for access. Height is only 2 ft.	Used as a flow control station at the sewage treatment plant.	No	No				
CPP-791	Vault for Bin Set VI	1800	2	1	1984	Round Reinforced concrete tank, height is 70 ft.	Used as a vault for Ben Set VI.	No	No			IAG-33, for CSSFs, LST-102 CSSF Safety Basis List - PSD 8.3B, PSD 8.3B-A - (TL)	Hazardous Category 2 - INTEC Sixth Calcinced Solids Storage Facility. Includes CPP-673 (Storage Building for 6th Calcinced Solids Storage Bin Set) & CPP-791 (6th Set Calcinced Solids Storage Bins).
CPP-795	Vault for Bin Set VII	1800	2	1	1984	Round Reinforced concrete tank, height is 45 ft.	Used as a vault for Ben Set VII.	No	No				
CPP-796	Service Waste Bldg	120	1	1	1988	Masonry Exterior Wall construction.	Used to house the pumping stations for the service wastewater system on the west side of INTEC	No	No				
CPP-797	Service Waste Bldg	120	1	1	1988	Reinforced concrete construction.	Used to house the pumping station for the service wastewater system on the east side of INTEC. Contains two 1400 gpm pumps	No	No				
CPP-798	HF Acid Storage Tank	200	N/A	N/A	1988	Welded Steel construction	Used to store HF Acid.	No	No				
CPP-799	Lift Station	50	N/A	N/A	1992	Round reinforced concrete structure, below grade with metal hatch for entry.	Used as a lift station for storm water, contains 900 gpm pump.	No	No				

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EM										Radiological Contamination				Related Documents - Available on Shared Library Unless Indicated as Technical Library - (TL)	Comments
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Ocp'd	Contaminated	Type	Level				
CPP-1604	Office Building	22500		1	0	1986	Steel Framed Single Story Building. Features two conference rooms, one with overhead projection and telecommunications capabilities. Has the headend servers for engineering CAE and CAD capabilities. Fire Suppression System - Wet Pipe - Entire facility is sprinkled. There is 1 Heat Pump - 26000 Btu/hr, 3 Heat Pumps - 84000 Btu/hr, 2 heat pumps - 120000 Btu/hr and 1 Heat Pump - 52000 Btu/hr (Heat Pumps are mounted in the ceiling above the ceiling tiles and are water to air). Computer communications network headend equipment for CAE and CAD systems.	Office Building: General office building housing plant engineering, nuclear safety, project management, construction management, quality, and tenant support activities. Contains two conference rooms.	Yes	No					
CPP-1605	Engineering Support Building	16800		1	0	1986	Steel Framed Single Floor Structure. Facility has a vault area (252 sq. ft.), controlled file area, print/copy and document control space (3550 sq. ft.), office space. Cooling - 225200 Btu/hr air conditioning, Fire Suppression System - Wet Pipe - 16800 sq ft, Heat - Electric - 4750 KW, 5 Heat pumps, mounted in ceiling above ceiling tiles, Large Shipment Doors 7ft. high by 8ft. wide.	General Office Building: Houses the INTEC Copy/Print Center, Central Document Control, Procedure Writing Capabilities, and Administrative Offices.	Yes	No					
CPP-1606	Plant Support Warehouse	17400		1	0	1986	Steel Framed Structure: Includes a loading ramp for semi-trailers, dry sprinkler system for the entire building and 2 evaporative cooling units, 3 Steam Heater units, 2000CFM and 2 Steam Heater units, 5400 CFM. Three Overhead Doors - 14 ft wide, 12 ft high and one Overhead Door 7 ft wide, 10 ft high. Loading Dock is 14 ft wide, 3 ft high.	General Storage: Storage, Warehouse - 17400 sqft.	Yes	No					
CPP-1608	Contaminated Equip. Storage	4000		1	0	1987	Prefabricated/modular Structure: Includes two - 1 ton hoists, two exterior overhead doors and two internal overhead door. Overhead Doors - 12 ft wide, 10 ft high.	Tool Cribs/Dispensing/Control: Facility is used for the storage, maintenance, and issuance of contaminated tools required in maintenance and fabrication of contaminated work.	No	Yes	Cs, Sr	>1000D/M		Less than Hazard Category 3.	
CPP-1610	Salt Pit Control House	30		1	0	1985	Steel Framed Structure	Service Building: Facility contains the control equipment to provide salt feed to maintain the brine feed system in CPP-606.	No	No					
CPP-1615	Equipment Building 7th Bin Set	80		1	0	1989	Reinforced Concrete Structure	Service Building: Houses equip. necessary for operation of the 7th set calcine solids storage facility.	No	No				7th Calcine Storage Facility has never been utilized	
CPP-1617	Waste Staging Facility	6000		1	0	1986	Steel Framed Structure: Has an overhead door and is partially protected by a dry pipe sprinkler system. Overhead Door - 10 ft wide, 8 ft high. Fire Suppression System - Dry Pipe - 800 sq ft. Electric Heating - 7500 KW.	Processing Building: Facility is located within the hazardous and mixed waste staging area, is used for processing & staging materials.	No	Yes	Cs, Sr	>1000D/M	NWCF RCRA Closure Plan, Volume 18, PER 109-A-10	The facility is considered to be a Radiological type with a Hazard Classification of low. Requires utility isolations for D&D.	
CPP-1618	Liquid Eff. Treat. Disp. Bldg.	6000		3	0	1990	Reinforced Concrete & Steel Framed Structure Crane (1) - 0.75 ton, Trolley Hoist, Crane (2) - 1 ton, Heat - Steam (2) - 60000 Btu/hr.	Nuclear Waste Processing And/Or Handling Building Nuclear waste processing building located within the Hazard & Rad mixed waste staging area.	Yes	Yes	Cs, Sr, U, Pu	> 1000D/M	INEEL RCRA operating permit, Volume 14 Attachment 7	Recovers useable acid from PEWE overheads. Remaining water vapor super-heated and discharged to atmosphere via HEPA filter system. Final stage of INTEC Liquid Waste Management System (ILWMS). Permit not yet approved but submitted to the State of Idaho.	

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EM										Radiological Contamination				Related Documents - Available on Shared Library Unless Indicated as Technical Library - (TL)	Comments
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Ocp'd	Contaminated	Type	Level				
CPP-1631	Production Computer Support	11774	1	0	1988	Steel Framed Structure: Has raised computer floors. A electronics laboratory for computer repair, a conference room, Cooling - DX - 59500 Btu/hr, 15 ton Liebert deluxe system / 3 Glycool room unit, Fire Suppression System - Halon - 2708 sq ft, Fire Suppression System - Wet Pipe - 11774 sq ft., and Four Electric Heaters - 24 KW - Heat pump with raw water cooling system.	Service Building: Facility houses computers, servers, and associated hardware supporting process control systems, data acquisition, process development systems, instrument calibration databases, and business management systems in support of INTEC operations. Office space is also available in this building.	Yes	No						
CPP-1637	FPR Weld Fab Shop	8400	1	0	1989	Steel Framed Structure: Has four Overhead Doors; 1 that is 20ft wide & 14ft high. The other three Overhead Doors are 12ft wide & 14ft. high.	General Storage: Was originally built as a weld shop. Is used now as a general storage facility. Electricity and potable water are the only utilities in the building.	No	No						
CPP-1638	Temporary Waste Storage Facility	2000	1	0	1989	Steel Framed Structure: Includes two Overhead Doors: One is 12ft wide & 12ft high the other is 16ft wide & 14ft high.	Storage Building: Originally built as a general warehouse. Is current used to store wastes. Electricity is the only utility in the building.	Yes	Yes	Cs, Sr	>1000D/M		Less than Hazard Category 3.		
CPP-1642	Fire Pumphouse	660	1	0	1992	Masonry Exterior Walls Includes both dry and wet fire protection systems. Two Electric Heaters - 0.5 KW.	Service Building: This facility is one of two firewater pumphouses that supplies all of INTEC.	Yes	No						
CPP-1643	Fire Pumphouse	660	1	0	1992	Masonry Exterior Walls Includes both dry and wet fire protection systems. Two Electric Heaters - 0.5 KW.	Service Building: This facility is one of two firewater pumphouses that supplies all of INTEC.	No	No						
CPP-1647	Deminerizer Waste Bldg.	672	1	0	1991	Steel Framed Structure: Includes emergency eye wash and safety shower, and a sump pit. Fire Suppression System - Wet Pipe - 672 sq ft, Pit/Trench/Sump - 28 ft long, 24 ft wide, 4.25 ft deep & one unit heater. Pit and sump area is approximately 80% of the floor area, partially covered by grating.	Service Building: Facility houses the equipment to neutralize boiler feedwater and demineralized waste from CPP-606 operations.	No	No						
CPP-1650	Training Support Facility	7166	1	0	1992	Steel Framed Structure: Facility houses an auditorium type of training room, complete with overhead projection and sound capabilities. There are six other group oriented training rooms, class/training room with computer terminals for group training, fixed individual seating 111 seats are provided. Cooling - DX - 137091 Btu/hr, Water to air heat pump unit. Cooling - DX - 19427 Btu/hr, water to air heat pump unit. One Electric Heater - 40 KW, Two Electric Heaters - 12.5 KW, Two Electric Heaters - 10 KW, One Electric Heater - 15 KW (all are duct heater type), two cooling -DX - 25852 Btu/hr, two cooling - DX - 27582 Btu/hr, two cooling - DX - 33162 Btu/hr, Fire Suppression - Wet pipe - 7166 sq. ft.	Training Building: Primary plant training facility at INTEC.	Yes	No						
CPP-1659	Contaminated Equip Maint. Bldg	1660	1	0	1994	Steel Framed Structure	Nuclear Waste Processing And/Or Handling Building. It is currently being used to store 5 Calcine casks.	No	Yes	Cs, Sr, U, Pu	> 1000D/M	IAG-43 for NWCF, LST-112 NWCF Safety Basis List, SAR/TSR-103 NWCF DSA & TSRs - (TL), INEEL RCRA operating permit - Vol. 18	Is an integral part of the NWCF process operations and as such is a Hazard Category 2 - INTEC New Waste Calcining Facility (NWCF) includes CPP-659 (New Waste Calcining Facility Building, CPP-694 (Organic Solvent Disposal Building, CPP-1775 (NWCF Calciner Ventilation Stack.		
CPP-1663	Security & Fire Prot. Support Bldg.	4800	1	0	1992	Steel Framed Structure: Includes two Cooling - DX Heat Pump Systems: North zone, 2 1/2 ton heat pump & South zone, 2 ton heat pump. Fire Suppression System - Wet Pipe - 4800 sq ft., two Electric Heaters - 20 KW and one Electric Heater - 12 KW.	Office Building: Houses the administrative offices and equipment storage and repair facilities to maintain and service the INTEC Life Safety and Security systems.	Yes	No						

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EM							Radiological Contamination				Related Documents - Available on Shared Library Unless Indicated as Technical Library - (TL)	Comments	
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Ocp'd	Contaminated	Type			Level
CPP-1671	Protective Force Support Facility	3000	1	0	1993	Steel Framed Structure: Includes an exercise area, wet pipe sprinkler system and card reader for entry. One Cooling - DX - 36000 Btu/hr, three Heat Pumps, wet pipe fire suppression system - 3000 sq. ft., two Electric Heaters - 10KW, 1400 cfm carrier. Men's Locker/Change Room - 26 lockers, 364 sq ft., Women's Locker/Change Room - 13 lockers, Escort Staging Area/Locker/Change Room - 20 lockers, 352 sq. ft., Secure area - 3000 sq. ft.	Security Headquarters/Badge Issuance/Gate House: This facility is the security force administrative and assembly area. The security personnel use this facility for shift changes and escort assembly. The facility also includes exercise/physical fitness rooms, lockers, and change rooms for both male and female personnel.	Yes	No				
CPP-1672	Access Control Building	144	1	0	1993	Steel Framed Structure: Includes heating, lighting, and telephone service. Has two electric heaters.	Guard House: Is the access control point for entry into Tank Farm. Building is a temporary structure.	No	No				
CPP-1673	Utility Control Center	1600	1	0	1993	Steel Framed Structure: Includes a wet pipe sprinkler system & a communication control center. Control/Communication Center - 800 sq ft, Fire Suppression System - Wet Pipe - 1600 sq ft, Two Heat Pumps - 19000 Btu/hr.	Communications/Control Center: Houses the automated controls and utility monitoring equipment necessary to control and monitor utility operations.	Yes	No				
CPP-1674	Central Alarm Station	2000	2	1	1997	Reinforced Concrete Structure: Facility contains security equipment, Control/Communication Center and houses security systems for INTEC. Cooling - DX.	Security Headquarters/Badge Issuance/Gate House: Houses the central security alarm systems.	Yes	No			IAG-45 for INTEC Unirradiated Fuel Storage Facility (CPP-651)	Serves as the secure point of entry to CPP-651.
CPP-1676	Oil Hazardous Materials Bldg.	114	1	0	1994	Prefabricated/modular Structure: No utilities. Basically metal storage boxes with exterior vents.	Storage Building: Installed as a temporary building and used for storage of petroleum products. Mobile - Skid mounted structure.	No	No				
CPP-1681	Box Staging Area	7900	1	0	1994	Temporary Structure (Tent Type): Steel framed structure with vinyl exterior shell.	General Storage: Used for the storage of contaminated waste boxes prior to shipping off-site.	No	Yes	Cs, Sr	>1000DM		Less than Hazard Category 3.
CPP-1682	Kerosene Pumphouse	240	1	0	1994	Masonry Exterior Wall Structure: Fire Suppression System - Wet Pipe - 240 sq ft, One Electric Heater - 3 KW, One Electric Heater - 5 KW, Portable eyewash.	Service Building: Houses the kerosene pumps for providing kerosene for the operations of CPP-659 processing.	No	No				
CPP-1683	Waste Operations Control Room	2021	1	0	1996	Steel Framed Structure: One Cooling - DX - 27000 Btu/hr, One Cooling - DX - 36000 Btu/hr, Control/Communication Center - 2021 sq ft, Fire Suppression System - Wet Pipe - 2021 sq ft, One Steam Heater - 6000 Btu/hr, One Steam Heater - 36000 Btu/hr, One Steam Heater - 63000 Btu/hr.	Waste Operations Control Building: This facility houses the Waste Operations Shift Office & the controls, dcs systems, controllers, & computers necessary to control process operations for LET&D, service waste, PEW, and off-gas systems.	Yes	No			Included in documentation related to assoc. processes including PEWE, LET&D, APS & Service Waste.	Hazard Category 2 - INTEC Tank Farm Facilities which includes the following: CPP-604 (Waste Treatment Bldg.), CPP-618 (Tank Farm Instr. & Control Bldg.), CPP-619 (Waste Storage Control House), CPP-622 (Instr. House), CPP-623 (Instr. House), CPP-628 (Tank Farm Waste Storage House), CPP-632 (Instr. House), CPP-634 (Waste Storage Pipe Manifold Bldg.), CPP-635 (Waste Storage Pipe Manifold Bldg.), CPP-636 (Waste Storage Pipe Manifold Bldg.), CPP-712 (Instr. House), CPP-713 (Vault for Storage Tanks), CPP-780 (Vault for Storage Tanks), CPP-781 (Vault for Storage Tanks), CPP-782 (Vault for Storage Tank), CPP-783 (Vault for Storage Tanks), CPP-784 (Vault for Storage Tanks), CPP-785 (Vault for HLW Storage Tank), CPP-786 (Vault for HLW Storage Tank), & CPP-1683 (New Control Room). Part of Hazard Category 2 - INTEC Process Waste System (PEW) which includes CPP-601, CPP-604, CPP-641, CPP-642, CPP-1619 & CPP-1683. Also part of the Hazard Category 2 - Airborne Waste Management System (AWMS) which includes CPP-604, CPP-649, CPP-692, CPP-708, CPP-756 & CPP-1683
CPP-1684	Standby Generator Facility	4500	1	0	2000	Prefabricated/modular Structure: One Overhead Door - 10 ft wide, 10 ft high, Fire Suppression System - Dry Pipe - 4500 sq ft, 5 Electric Heaters - 15 KW, 1 Electric Heater - 1.2 KW, and 3 Electric Heaters - 7.5 KW.	Service Building: Houses the 3 back up generators for all of INTEC in case of unplanned power outages.	No	No				

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EM							Radiological Contamination				Related Documents - Available on Shared Library Unless Indicated as Technical Library - (TL)	Comments			
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Occ'd	Contaminated	Type			Level		
CPP-1686	Access Control Facility	7500		1	0	2000	Prefabricated/modular Structure: Has 1 Exhaust - 700 cfm, 1 exhaust - 550 cfm, fire suppression system - wet pipe - 7500 sq. ft., 2 Electric Heaters - 3 KW, 2 Electric Heaters - 7.5 KW.	Security Headquarters/Badge Issuance/Gate House: Used as Main security guard gate and access to INTEC.	Yes	No					
CPP-1688	SSSTF Decon Bldg.	6253		1	0	2003	Steel Framed Bldg. on slab.	Facility is being used for Nuclear Waste Processing.	Yes	No					Structure is part of the Idaho CERCLA Disposal Facility (ICDF) Operations.
CPP-1689	SSSTF Admin. Bldg.	1960		1	0	2003	Prefabricated Modular Metal Building.	Used as the administrative offices for the ICDF operations.	Yes	No					Structure is part of the Idaho CERCLA Disposal Facility (ICDF) Operations.
CPP-1711	Deep Well	64	N/A	N/A		1984	Reinforced concrete pad above the well hole.	Well is used for INTEC's potable water supply. Located on the North side of INTEC.	No	No					Referred to as the production well #4 & P-UT1505.
CPP-1713	Lift Station	425	N/A	N/A		1986	Reinforced concrete structure below grade. Has metal hatch at grade for entry.	Structure used as a lift station for the INTEC sewage system, contains a 5 gpm pump.	No	No					Located south of T-35 and east of CPP-699.
CPP-1715	Camera Tower	8	N/A	N/A	N/A		Prefabricated galvanized steel modular structure 32 ft high.	Used as a support structure for security camera.	No	No					Operational.
CPP-1729	Camera Tower	8	N/A	N/A	N/A		Prefabricated galvanized steel modular structure 32 ft high.	Used as a support structure for security camera.	No	No					Operational.
CPP-1733	Camera Tower	8	N/A	N/A	N/A		Prefabricated galvanized steel modular structure 32 ft high.	Used as a support structure for security camera.	No	No					Operational.
CPP-1739	Camera Tower	8	N/A	N/A	N/A		Prefabricated galvanized steel modular structure 32 ft high.	Used as a support structure for security camera.	No	No					Operational.
CPP-1741	Camera Tower	8	N/A	N/A	N/A		Prefabricated galvanized steel modular structure 32 ft high.	Used as a support structure for security camera.	No	No					Operational.
CPP-1743	Camera Tower	8	N/A	N/A	N/A		Prefabricated galvanized steel modular structure 32 ft high.	Used as a support structure for security camera.	No	No					Operational.
CPP-1747	Camera Tower	8	N/A	N/A	N/A		Prefabricated galvanized steel modular structure 32 ft high.	Used as a support structure for security camera.	No	No					Operational.
CPP-1749	Pump Station	40		1	1	1988	Reinforced concrete structure below grade. Has engineered metal sided enclosure over it, 17 ft deep.	Used to house the emergency pumps for the service wastewater system, contains a 2,000 gpm pump.	No	No					
CPP-1750	Power Control Center	10		1	1	1988	Reinforced concrete structure, below grade. Has a round cast iron hatchway for access.	Used as a power control center - # 773.	No	No					Manhole for electrical switch gear.
CPP-1751	Camera Tower	8	N/A	N/A	N/A		Prefabricated galvanized steel modular structure 32 ft high.	Used as a support structure for security camera.	No	No					Operational.
CPP-1754	Septic Tank, VES-CFE-6012	25		1	1	1983	Reinforced concrete structure below grade. Has metal hatch at grade for entry.	Used as septic tank, still in use.	No	No					
CPP-1756	Septic Tank, VES-CW-100	400		1	1	1992	Reinforced concrete structure below grade. Has metal hatch at grade for entry.	Used as a septic tank.	No	No					
CPP-1757	Septic Tank, VES-CA-101	400		1	1	1992	Reinforced concrete structure below grade. Has metal hatch at grade for entry.	Used as a septic tank.	No	No					
CPP-1758	Load Center #4	200	N/A	N/A		1990	Prefabricated modular unit with concrete slab on grade.	Used as a substation, 1,000KVA.	No	No					
CPP-1760	Kerosene Storage Tank Basin	100	N/A		0	1991	Reinforced concrete structure, contains two kerosene tanks, varies in height from 3 ft to 8 ft.	Used to contain kerosene spills	No	No					Kerosene tanks are no longer in use, waiting D&D.
CPP-1762	Load Center #5	240	N/A	N/A		2001	Prefabricated modular unit with concrete slab on grade.	Used as a load center, 480 V.	No	No					
CPP-1764	Load Center #14	240	N/A	N/A		2001	Prefabricated modular unit with concrete slab on grade.	Used as a load center, 480 V.	No	No					
CPP-1767	Control Valve Vault	25		1	0	1992	Reinforced concrete structure, located at the north fence line of INTEC.	Houses control valves for fire water system.	No	No					
CPP-1769	Potable Water Storage	120		1	0	1992	Steel framed structure, approximately 9 ft high on a concrete reinforced slab on grade.	Used to house the potable water storage tank	No	No					
CPP-1770	Substation #1	300		1	0	1994	Steel frame structure, 10 ft. high.	Used as a substation, 1,500KVA.	No	No					
CPP-1771	Substation #2	300		1	0	1994	Steel frame structure, 10 ft. high.	Used as a substation, 1,500KVA.	No	No					
CPP-1772	Lift Station	36		1	1	1992	Reinforced concrete structure, below grade. Has a round cast iron hatchway for access.	Used as a lift station within the INTEC sewage treatment system.	No	No					
CPP-1773	Load Center #13	400		2	0	2000	Steel framed structure, two floors and is 26 ft. high.	Contains transformers and switchgear, 480 V.	No	No					

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EMIdaho Nuclear Technology Engineering Center - EM													
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Occ'd	Contaminated	Type	Level	Related Documents - Available on Shared Library Unless Indicated as Technical Library - (TL)	Comments
CPP-1775	NWCF Calciner Vent. Slack		30	N/A	N/A	1981	Welded Steel Structure, 67 ft high.	Used as the venting stack for the calcine operations.	No	No		IAG-43 for NWCF, LST-112 NWCF Safety Basis List, SAR/TSR-103 NWCF DSA & TSRs - (TL), INEEL RCRA operating permit - Vol. 14, INEEL RCRA operating permit - Vol. 18, NWCF RCRA Closure Plan, Idaho HLW EIS.	Hazard Category 2 - INTEC New Waste Calcining Facility (NWCF) includes CPP-659 (New Waste Calcining Facility Building, CPP-694 (Organic Solvent Disposal Building, CPP-1775 (NWCF Calciner Ventilation Stack). In accordance with current Consent Order requirements, DOE developed and the State of Idaho approved and issued a Calciner System RCRA Closure Plan in 2000. The plan requires DOE to flush remaining wastes from the Calciner system and render the system inoperable by isolating process waste lines and dismantling utility support lines by the end of FY04. In that regard, as of September 2004, the calciner system cells will be cleaned of debris, the system will be flushed of residual wastes, all process waste lines will be isolated by instrumentation and control system logic, and all utility support lines (kerosene, steam, etc.) will be physically cut and capped or blanked off. Since calcination remains as a viable SBW treatment option, the isolation activities are as much as practical being designed and implemented to allow for ease of re-connection if calcination is chosen for future use.
CPP-1776	Utility Tunnel	4350		1	1	1985	Reinforced concrete structure	used as a underground utility tunnel.	No	No			
CPP-1777	USGS Water Quality Monitoring	36		1	0	1982	Prefabricated modular steel building, 7 ft high.	Used to contain USGS water monitoring instruments.	No	No			
CPP-1778	Sewer Lagoon	22,500	N/A	N/A		1972	Earthen construction located at the Sewage Treatment Plant.	Used for sewage treatment, 80,000 gpd.	No	No			
CPP-1782	Substation #15	400	N/A	N/A		1998	Prefabricated modular unit with concrete slab on grade.	Used as a substation at INTEC, 700 KVA.	No	No			
CPP-1784	720B/720C Tank Enclosure	600	N/A	N/A		1982	Reinforced concrete structure, 3 ft high.	Used to contain the Alum. Nitrate Tanks.	No	No			
CPP-1786	Load Center #1	300	N/A	N/A		2001	Prefabricated modular unit with concrete slab on grade, 18 ft high.	INTEC substation, 700 KVA.	No	No			
CPP-1787	Load Center #3	450	N/A	N/A		2001	Prefabricated modular unit with concrete slab on grade, 7 ft high.	INTEC substation, 2,500 KVA	No	No			
CPP-1788	PCC-NCE-85	300	N/A	N/A		2001	Prefabricated modular unit with concrete slab on grade, 18 ft high.	INTEC electrical distribution system, Switchgear - 2,400 Volts.	No	No			
CPP-1789	Staging and Storage Annex	33,300	N/A	N/A		2000	Asphalt paved area with metal fencing around perimeter.	Used to store waste containers and boxes.	No	No			
CPP-1790	Low Level Waste Holding Area	22,950	N/A	N/A		2000	Asphalt paved area with metal fencing around perimeter.	Used to store low level waste containers.	No	No			
CPP-1792	Storm Water Lift Station	64		1	1	2000	Reinforced concrete structure below grade. Has metal hatch at grade for entry.	Used as a lift station for storm water runoff, contains a 900 gpm pump.	No	No			
CPP-1793	Tank Farm Evaporative Pond	213,444	N/A	N/A		2003	Earthen structure.	Used to collect storm water runoff around the tank farm area.	No	No			
CPP-1794	Pad for Trailers	22,500	N/A	N/A		2001	Asphalt paved area.	Used to set subcontractors' construction trailers.	No	No			
CPP-1795	Truck Scales	1200	N/A	N/A		2003	reinforced concrete base for metal scales.	INTEC vehicle weighting area.	No	No			
CPP-1796	Contaminated Equip. Pad	7,452	N/A	N/A		2003	Reinforced concrete slab on grade	Used to store contaminated equipment.	No	No			
CPP-1797	Empty Container Holding Pad	7,200	N/A	N/A		2003	Asphalt Pad on gravel base.	Pad is used to store empty containers generated from the ICDF operations	No	No			
CPP-1798	Evap. Pond Crest Pad Bldg	318		1	0	2003	Steel framed structure	Houses the leak detection equipment for the evaporative pond.	No	No			
CPP-1799	Landfill Crest Pad Bldg	318		1	0	2003	Steel framed structure	Houses the leak detection equipment for the ICDF pond.	No	No			
CPP-2701	CERCLA Disposal Fac.	3,615,480	N/A	N/A		2003	Earthen construction located west of INTEC.	The ICDF area consists of two CERCLA disposal cells pits, totaling approximately each 550,000 cu. Yd. (second cell pit not constructed), two evaporation ponds, operations and an operations office.	No	No			ICDF operations started 9/17/03.
CPP-2706	CERCL Truck Loading & Unload	810	N/A	N/A		2003	Reinforced concrete slab on grade	CERCLA Trucks loading and unloading pad.	No	No			
CPP-2707	Dry S.F. Cask Unloading Pad	38,340	N/A	N/A		2003	Reinforced concrete slab on grade	Used for the unloading of Spent Fuel Casks.	No	No		SAR - 164 - (TL)	Construction completion planned for FY04. Expected to be a Hazard Category 2 as INTEC Dry Cask Storage Area (DCSA).
CPP-2712	Pond CD-328, East Evap. Pond	87,120	N/A	N/A		2003	Earthen structure with poly liner.	Used as the evaporative pond for the CERCLA operations.	No	No			
CPP-2713	Pond CD-329 West Evap. Pond	87,120	N/A	N/A		2003	Earthen structure with poly liner.	Used as the evaporative pond for the CERCLA operations.	No	No			
B21-718	INTEC Percolation Pond	99,225	N/A	N/A		2003	Earthen barrier with gravel base.	Used for the collection of INTEC's service wastewater and final disposition area to the ground.					The new Percolation Ponds and valve vault is located approximately 2 miles southwest of INTEC.

Exhibit C.5c - Idaho Nuclear Technology and Engineering Center Facilities - Operational

Idaho Nuclear Technology Engineering Center - EM											Radiological Contamination			
Building Number	Building Name	Area (sq ft)	# of Flrs	# Below Grade	Year Built	Facility Construction/Characteristics	Facility Usage/Capabilities	Ocp'd	Contaminated	Type	Level	Related Documents - Available on Shared Libray Unless Indicated as Technical Library - (TL)	Comments	
B21-719	INTEC Percolation Pond	99,225	N/A	N/A	2003	Earthen Barrier with gravel base.	Used for the collection f INTEC's service wastewater and final disposition area to the ground.						The new Percolation Ponds and valve vault is located approximately 2 miles southwest of INTEC.	
B21-720	INTEC Perc Pond Valve Vault	100	1	0	2003	Reinforced concrete structure with metal hatchway at grade level.	Used to house the valving system for the two new Percolation Ponds.	No	No				The new Percolation Ponds and valve vault is located approximately 2 miles southwest of INTEC.	
CPP-TR-54	CONTROL TRAILER	400	1	0	2001	Prefabricated/modular trailer	Office Trailer: Currently being used as an office trailer for Tank Farm Work.	No	No					
CPP-TR-56	Tank Farm Washdown Support Office	320	1	0	2001	Prefabricated/modular Trailer.	Office Building: Currently being used as a office trailer for Tank Farm Work.	No	No					
CPP-TR-57	ICDF Radcon Trailer	720	1	0	1982	Single wide Trailer.	Used as an office and storage trailer for the Radcon Personnel working at the ICDF.	Yes	No					
N/A	INTEC Railroad Spur	3250	N/A	N/A	1953	Gravel Ballast base. The rails are rated FRA, Class 4.	The rail line is located on the South side of INTEC and is used for delivery of casks to CPP-603.	No	No					