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Your ref:

Our ref: LTR-RAC-21-10

SUBJECT: WESTINGHOUSE 10CFR70.72 FACILITY CHANGE
 REPORT

January 27, 2021

Westinghouse Electric Company LLC (Westinghouse) hereby submits the report of Columbia Fuel Fabrication Facility (CFFF) changes that did not require Nuclear Regulatory Commission (NRC) pre-approval in accordance with 10CFR70.72. This report addresses those changes completed within calendar year 2020. Westinghouse had no facility changes that required NRC pre-approval during this time period.

Westinghouse uses an integrated safety review approach for all modifications of, or additions to, existing structures, systems and components at the CFFF. This process is described in, and conducted in accordance with the requirements of CFFF Regulatory Procedure RA-104, "Regulatory Review of Configuration Change Authorization." This integrated review is conducted by the various regulatory disciplines, including Nuclear Criticality Safety, Radiation Safety, Environmental Protection, Safeguards, Fire Safety, Chemical/Industrial Safety and other applicable Health and Safety experts when necessary. A key aspect of this review is a determination that the change is not prohibited by 10CFR70, a SNM-1107 license condition, or a governing order. The reviewers also determine whether NRC pre-approval and SNM-1107 license amendment changes are required prior to implementation.

Specific guidance is provided to ensure that NRC pre-approval is obtained for changes that:

- create new types of accident sequences that, unless mitigated or prevented, would exceed the performance requirements of 10CFR70.61 and that have not previously been described in the Integrated Safety Analysis (ISA) Summary;
- use new processes, technologies or control systems for which the licensee has no prior experience;
- remove, without at least an equivalent replacement of the safety function, an Item Relied On For Safety that is listed in the ISA Summary and is necessary for compliance with the performance requirements of 10CFR70.61; or
- alter any Item Relied On For Safety, listed in the ISA Summary, that is the sole item preventing or mitigating an accident sequence that exceeds the performance requirements of 10CFR70.61.

Each of the changes identified in the attachment to this correspondence were evaluated in accordance with this RA-104 procedure, and a determination was made that NRC pre-approval of the respective change was not required. This determination was documented on each change authorization form by the appropriate regulatory engineering review functions. For all of these changes, the regulatory engineering review function checked the "No" box on the form for "NRC pre-approval required?"

If you have any questions regarding this information, please contact me at (803) 647-2046.

Sincerely,



Elise M. Malek,
Regulatory Affairs Manager
Westinghouse Columbia Fuel Fabrication Facility
Docket 70-1151 License SNM -1107

Attachment 1: Westinghouse CFFF 2020 Facility Change Report (49 pages)

cc:

Mr. David Tiktinsky
Mr. Thomas Vukovinsky
Mr. Nicholas Peterka

Westinghouse CFF 2020 Facility Change Report

CCF	Title	Description	Justification	Location	ISA ID
15390	P-1141A/B Replacement/Relocation	Replace P-1141A/B pumps and bases and move pumps to the north side of the flash tank. New pumps will have smaller motors.	Existing bases are deteriorated and moving the pumps will allow for better maintenance access. Current pumps are oversized.	URRS/Still 1	ISA-06 Chemicals Receipt, Handling and Storage
16101	Electrical Modification of Acetone Cleaning Station and Polish Station on Oxide Coater 1	Modify the electrical components of the Acetone Cleaning Station and Polish Station on Oxide Coater 1 to be the same as that on Oxide Coater 2.	Make Oxide Coater 1 process to be like that of Oxide Coater 2.	Oxide Coater 1	Components
16102	Mechanical Modification of Acetone Cleaning Station and Polish Station for Oxide Coater 1	Make the acetone and polish stations on oxide coater 1 to be like that on oxide coater 2	Issues with cam feature on polish station leading to partially polished tubes.	Oxide Coater 1	Components
16545	Sintering Furnace Pipe Rack Installation	Install pipe racks to support existing piping and new N2 back-up header piping.	To better support existing piping and provide support for new N2 back-up header.	ADU Pelleting / Sintering Furnaces	ISA-08 Pelleting
16581	Stainless steel covers for QC Rod walking beam lifts	Allow the installation of pre-fibbed slip-on stainless steel cover to cover painted lift areas of the QC Rod walking beams from the leak check through the all UT1/UT2 handling (top and bottom) and x-ray to the gamma scanners.	Elimination of painted surfaces capable of transferring to rods.	QC Rod Soft Handling	ISA-10 ADU Rods
16714	S-1190 Drain Line Manual Valve Removal	Remove the manual ball valve in the drain line from the S-1190 sump overflow, before T-1166.	Valve needs to be removed so that the line can be credited as a passive overflow for the S-1190 CSE implementation.	URRS Outside/Waterglass	ISA-15 URRS Wastewater Treatment System
17185	Install new air handler to replace AC-11.	The scope of this CCF includes the air handler installation which includes heat detection, power for the air handler, controls for the Thermal Control Valve, plant air to the Thermal Control Valve, condensate drain from the air handler, and chilled water piping to the Air Handler. Phase 1 - Install Air Handler with associated chilled water piping and electrical components. Startup of AC-11 unit and operate without connecting ductwork to AC-10 (install blank) and adjust manual dampers to set air flow rates. This will provide cooling to bulk room while interferences can be addressed. Phase 2 - Complete installation of ductwork for tie in to existing AC10 ductwork (remove blank) and set air flow rates. Phase 3 - Install fire alarms and code simplex 1/16/2020.	Bulk Room is a moderation control area. It currently has a 6" chilled water lines which supply air handler AC-11. A coil failure of AC-11 could cause a criticality if water were to enter the moderation controlled area. This CCF installs a new air handler away from the Bulk Room to eliminate the issue.	Air Handler will be located on the new mezzanine installed under 17184 in Column line location 7-8 & C-D. Ductwork will tie into existing AC10 and AC11 ductwork above and near the Bulk Room.	ISA-01 Plant Ventilation System
17186	Relocate City Water piping above Bulk Room.	Install piping to allow relocation of city water piping above Bulk Room.	Bulk Room is a moderation control area. It currently has a 6" water line which runs above the room. The plan is to relocate the water line to avoid an issue.	Water Lines are above Bulk Room	ISA-05 ADU Bulk Powder Blending
17187	Reroute Chilled Water piping from above Bulk Room.	Install piping to allow rerouting Chilled water piping from above Bulk Room. Remove Existing abandoned lighting to aid in ease of installation. Remove Existing dead leg of AC duct to aid in ease of installation.	Bulk Room is a moderation control area. It currently has two 6" chilled water lines which runs above the room. The plan is to relocate the chilled water lines to avoid an issue.	Chilled water lines above bulk room	ISA-05 ADU Bulk Powder Blending

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CCF	Title	Description	Justification	Location	ISA ID
17205	Upgrade Still 1 Flash Tank Pump controls	Upgrade Still 1 Flash Tank Pump controls	Existing VFD is obsolete and is shared between the pumps. Existing Circuit also breaks power downstream of the VFD.	Ammonia Still #1 outside	ISA-06 Chemicals Receipt, Handling and Storage
17214	Shorten Bus Duct 8A-8D	Shorten Bus Duct 8A-8D so it does not extend under valves for chilled water piping or through ladder cage to platform. Phase 1: Reheat Coil 20KW Load Relocated & Operational; Phase 2: Storeroom Lift Load Relocated & Operational; Phase 3: AC-15 Load Relocated & Operational; Phase 4: AC-11 Load Relocated & Operational; Phase 5: Bus Duct Shortened and Operational; Phase 6: Demolition of unused portion of bus duct completed	Bus Duct currently extends through a ladder cage as a head bump source and across a platform as a trip hazard. The bus duct also is located under chilled water piping that is being modified. If water drips on the 480V bus duct it could be a very dangerous situation. Remove the currently unused portion of the bus duct to avoid issues.	In storeroom by wall between clean and contaminated area. The bus duct also extends though wall into map area.	Grounds
17234	Coater 6 MKS Replacement	Replace MKS 'Type 146' Controller with an up-to-date version MKS 'Series 946'.	MKS Type 146 controllers are obsolete. MKS controllers are still considered the best for the vacuum ranges applied.	Coater 6	ISA-14 IFBA Processing
17295	Install electrical for S-1030 work platform and hoists.	Install electrical to support new monorail and S-1030 platform hoist. Add lighting and receptacles for new work platform at S-1030. Phase 1: Monorail Hoist Operational; Phase 2: Bridge Crane Operational; Phase 3: All Lighting except Platform Lighting Operational, Receptacles Operational; Phase 4: Platform Lighting Operational. Demoted 10/1/19 to break Phase 3 into Phase 3 and 4.	New Platforms and hoists are being installed so CFFF does not require a 250 ton mobile crane to remove S-1030 scrubber baskets from roof.	At S-1030 on conversion platform on roof.	ISA-01 Plant Ventilation System
17325	FL-3A Replacement	Replace existing FL-3A with new Parker model cartridge filter. No processes, systems, or components that contain, measure, handle, transport, process, or secure Uranium in any form are modified by this configuration change.	Existing filter is old and obsolete.	URRS Outside - Tank Farm	ISA-06 Chemicals Receipt, Handling and Storage
17364	ADU Sintering Furnace 3A Controls and Power Improvement and Major Furnace Rebuild	Replacement of the Drum Controller and Numalogic PLC with an AB PanelView and CompactLogix PLC. Relocation of 480V SCR and other 120V and higher components to a safer Location. PLC Controls for Safety are being removed from the Numalogic PLC and relocated to a new Siemens Safety PLC and/or Hardwired.	To address Obsolescence and Safety Concerns	Pellet Sintering Furnace 3A	ISA-08 Pelleting
18045	Extend Perforated Sheet on Pellet Drying Ovens for Lines 1, 3, 4 and 5	Replace the existing perforated sheets installed in the pellet drying ovens with a longer perforated sheet of the same material and perforation type. This will be a multi-phase CCF to allow for the implementation of the extended sheets on pellet lines 1, 3, 4 and 5.	Eliminate gaps which allow pellets to fall into bottom of online dryer beneath perforated sheet in the existing configuration. This modification is similar to the modification which was made on pellet line 2	ADU Pelleting Online Pellet Tray Drying Oven between Grinding and D&V station (Lines 1, 3, 4 and 5)	ISA-08 Pelleting
18066	Relocate Liquid Nitrogen Dispensing Line to Lines room in the Chemical Laboratory.	Phase 1: Relocate Liquid Nitrogen Dispensing Line to Lines room in the Chemical Laboratory. Phase 2: relocating a table and a mixed gas dispenser in the Lines room located in the chem. lab.	Current location requires using a transport dewar to provide liquid nitrogen to processes. By relocating it will move the dispensing point to point of use.	Chemical laboratory Lines room	ISA-18 Laboratories
18075	New chillers for Grid Laser Welders	1 Demolition and removal of the abandoned chiller; 2 Construction of a new concrete pad for the two new chillers; 3 Installation of the two new chillers.	In order to accommodate the addition of Laser A, the chillers need to be upsized to increase flow	Outside of the north wall of the facility.	Components

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CCF	Title	Description	Justification	Location	ISA ID
			and head capacity. Replace an abandoned chiller for the grid laser welders with two new units with increased capacity.		
18094	Install Density monitor on Aqueous Ammonia Tank T-02 in the tank farm.	Install new Density Meter and new piping on Aqueous Ammonia Tank T-02, in the tank farm. This new instrument will be tied back into the Still 2 Experion system. This change does not constitute a modification to processes, systems, or components that contain, measure, transport or secure Uranium in any form.	The local Princo instrument is obsolete and does not provide feedback to the control room.	Tank-02 in the tank farm	ISA-06 Chemicals Receipt, Handling and Storage
18102	Preheat DI water supply for UCON wash station	Add an in-line preheater to the DI water feed line to the UCON washer. It will heat both the cold water and hot water to the washer. The heater will be thermostatically controlled and have a separate hi-limit thermostat. A guard rail will be installed to protect the heater from carts. Phase 1 of the project consists of modifying the DI water piping to facilitate installation of the new heater. Phase 2 consists of all other work.	During winter months the temperature of the cold water is below the min allowable temperature. During the winter months the hot DI water for the final rinse falls below the minimum allowable temperature for hot water when make-up water is added to the hot water tank.	final assembly area	ISA-17 Final Assembly
18114	View Inspection Equipment (Voyager 18, Bazic 12, 1220) Replacement	In the CE Grid Area, replace existing View Inspection Machines with updated New/repurposed View Inspection Machines (W, O, N). The replacement units have the same utility requirements (air, electrical)	New View machines have been purchased. This is part of the overall inspection process improvement plan (Quality at the Source) in the grid area.	CE Grid Area	Components
18131	WWTP Entry Sump and Chlorination Chamber Upgrades: Baffle install and add Sample Point	The processes do not contain, measure, handle, transport, process, or secure Uranium in any form. Installation of baffle system in chlorination chamber to improve chlorine contact time. Modification of existing components to eliminate interferences. Install new educator pump stand. Grating modification to support DHEC required treated sample point.	Improve chlorination efficiency and reliability.	Wastewater Treatment Plant	Miscellaneous
18138	Outside Fire Protection System Upgrades - Post Indicator Valves	Upgrade several portions of the outside fire protection system. Phase 1 will add a new PIV next to PIV #10; and Phase 2 will add a new PIV next to PIV #37; Phase 3 will add a new PIV next to PIV #26. No SSCs are impacted. No CSEs are impacted.	For the fire loop, several of the PIVs do not fully close and still allow flow at an unacceptable rate when the valve is fully closed.	Phase 1: In front of pump house #1, PIV #10; Phase 2: Near pump house #2, PIV #37; Phase 3: Near walkway in front of trailer 5, PIV #26	Grounds
18141	WWTP Entry Sump Outer Wall work	Install two new manual shear gates in entry sump to sanitary lagoon wall. Install plugs in two remaining wall penetrations. The processes do not contain, measure, handle, transport, process, or secure Uranium in any form	Allow for Entry Sump and Chlorination Chamber to be isolated from the Sanitary Lagoon to facilitate future CCFs related to the overall project.	Wastewater Treatment Plant	Grounds
18155	IFBA Area fire detection	Provide installation of spot detection in the ten enclosed rooms within the fire area. Provide installation of linear heat detection in the mezzanine. Provide installation of heat detection or flame detection in areas having significant ignition sources, such as the drying ovens and the welding area.	There is currently no smoke or heat detection throughout the IFBA area.	IFBA	ISA-14 IFBA Processing
18177	Furnaces Platform Davit Crane Support	Set the requirements for install a Davit Crane support on Furnace platform. No SSCs are impacted. No CSEs are impacted. This process, system, or component does not contain measure, handle, transport, process, or secure Uranium in any form.	The CFFF configuration management process allows for maintenance to install a permanent base support to be able to use Davit Crane.	Plant Roof / Furnaces Platform	ISA-01 Plant Ventilation System

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CCF	Title	Description	Justification	Location	ISA ID
18234	S-231 Scrubber Slab Tank Replacement	The S-231 scrubber tank on Conversion Line 2 will be replaced with a universal scrubber tank. The new scrubber tanks have nozzles on both sides to accommodate installation on any line.	Existing scrubber tank needs replacement due to wear.	Line 2 Conversion	ISA-03 ADU Conversion
18277	Respirator Cleaning Facility GS5000 Respirator Washer Installation	Install a new GS5000 Respirator Washer in the Respirator Cleaning Facility. No CSEs are impacted. This process, system, or component does not contain measure, handle, transport, process, or secure Uranium in any form.	Currently respirators are washed by hand in a sink. Replace with GS5000 Respirator Washer because it is a multi-use washer that automatically pre-cleans, disinfects, and rinses at the push of a button.	Respirator Cleaning Facility	Grounds
18309	Replace Dock Lift for the South-East Expansion/ Metallurgical Lab/ Mechanical Development Lab	Replace Dock Lift for the South-East Expansion/ Metallurgical Lab/ Mechanical Development Lab	The current lift was modified from a person elevator lift to a freight only elevator per CCF 17221. The proposed lift to be installed is only qualified to lift freight.	South-East Expansion/ Metallurgical Lab/ Mechanical Development Lab	ISA-18 Laboratories
18319	Line 1 R53 Press and Platform Upgrade	Update R53 Press electrical and mechanical components and controls: Phase 1 - Lower platform mods part 1; Phase 2 - Lower platform mods part 2, press rebuild, controls upgrades.	Obsolescence, Continuous Improvement, Maintenance Reliability, Replacement of worn components.	Line 1 Pellet Press	ISA-08 Pelleting
18329	QC Lab Hood 1 Door Modification	Replace current QC Lab Hood 1 door with new door	The additional height will allow Chem Lab Techs to close the door completely.	QC Lab Hood 1	ISA-18 Laboratories
18348	Provide additional borings in floor of conversion	holes will be installed per SOI-M-010, rev 1. Prior to boring the concrete will be sampled per COP-843007. After boring a liquid tight metal cover will be installed on the holes until the sampling can be performed. A safety cone will be placed on top of the cover. After sampling the holes will be filled with grout.	Additional borings are needed to provide more data on soil contamination	spiking station in UF6 bay	ISA-03 ADU Conversion
18363	Replace Automatic Transfer Switch 1ATS1	Replace the existing ATS with a new model having up to date features. The replacement will be like, in-kind. Scope of work will entail removing the existing ATS panel and replacing with a new ATS panel.	The current automatic transfer switch used for 1ATS1 is past its useful life and needs to be replaced to maintain plant reliability.	Mezzanine, Column G6.	Grounds
18367	Replace 1ATS3 and 1ATS5 with New ATS (1ATS8)	Phase 1 - Install new 1ATS8; Phase 2 - Remove 1ATS5 from Service/Transfer Load to 1ATS8 / SSC Testing; Phase 3 - Remove 1ATS3 from Service/Transfer Load to ELP-16/17C; Phase 4 - Final physical removal of 1ATS3 and 1ATS5. In addition to the work described above, a new PCN Gateway will be installed in the vicinity of Substation 4 for interfacing 1ATS7 and 1ATS8 to the PCN.	The current automatic transfer switch used for 1ATS3 and 1ATS5 are past their useful lives and need to be replaced to maintain plant reliability. Additionally, 1ATS3 is undesirably located on the AC22 platform rendering access a safety concern, especially during a power outage situation. The current installation of 1ATS5 is in violation of the working space requirements of the NEC	Mezzanine above Compressor/Plating Room near column 16B	Grounds
18382	IFBA Coater 8 Controls upgrade	Upgrade the controls, instrumentation, HMI, and power supplies for IFBA coater #8	The PLCs are obsolete and unattainable.	IFBA coater #8 & throughout the IFBA floors that pertain to coater #8	ISA-14 IFBA Processing

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CCF	Title	Description	Justification	Location	ISA ID
18408	Install new power converters for RP-3-105F	Install two new power conditioners to replace the existing power conditioners. Phase 1- Install and connect Power Conditioner # 1; Phase 2-Demo Remove old power conditioners and associated equipment; Phase 3-Install and connect Power Conditioner # 2 No processes, systems, or components that contain, measure, handle, transport, process, or secure Uranium in any form are modified by this configuration change.	The existing power conditioners are obsolete.	IFBA Equipment Room	ISA-12 IFBA Fuel Rod Manufacturing
18419	Supply of Plant Chill Water to New Fuel Scanners 1&2	Ensures existing Chill Water supply has adequate design margin to supply new fuel scanners 1&2 at specified pressure and flowrate, and provides new piping configuration (including isolation valves, supports, and flow indicators (if necessary) to connect local Chill Water Supply to the new scanners.	Provides adequate Plant Chill Water to new fuel scanners 1&2 to meet requirements of the PNL-03436 Facility Interface Specification	QC Rod Inspection	ISA-10 ADU Rods
18420	Supply of a New Exhaust System to New Fuel Scanners 1&2	Documents design, of the new Plant Exhaust System (fans, duct, supports, etc.) to New Rod Scanners 1&2. Exhaust system provides for the specified exhaust flow rate, taking suction on the scanners (to remove fuel scanner leakage with local atmosphere dilution) and discharging via ducts to outside atmosphere above roof.	Provides adequate exhaust flow to meet requirements of the PNL-03436 Facility Interface Specification	QC Rod Inspection	ISA-10 ADU Rods
18443	Install Auger with 0.25" thick helix in CCC-750A & C	Install Auger with 0.25" thick helix in CCC-750A & C. This CCF is to supplement changes made to CCF-18009 for the install of the new Dirty Dissolver Units CC-750A-C.	Installation per original design.	Inside URRS	ISA-04 Safe Geometry Dissolver
18450	Stills 2 Tank Level Transmitter Replacement	Replacement of two level transmitters and adjustment or replacement of two others.	Existing transmitters for the 1177 Flash Tank and the 1178 Distillation column were installed recently. These need to be reviewed for proper application, and control loop(s) re-tuned for smoother operation.	URRS Stills 2	Grounds
19002	PE Lab Weld Booth	Replace current wood construction PE Lab Weld Booth with a non-combustible OSHA complaint weld booth. This change does not constitute a modification to a processes, systems or components that contain, measure, transport or secure Uranium in any form.	Current weld booth is constructed out of combustible material that is a fire hazard and non-compliant to OSHA requirements.	PE Lab	ISA-18 Laboratories
19004	Dirty Dissolver Hanger Bearing Change	Dirty Dissolver CCC-750 Hanger Bearing Change	Change bearing to help with maintenance	URRS	ISA-04 Safe Geometry Dissolver
19014	Safety and functionality upgrade of Sintering Furnace 4C.	The scope of work is for the mechanical rebuild and upgrade of Sintering Furnace 4C will consist of the following: • Rebuild of the Cool Down Box • Replacement of natural gas assemblies • Rebuild of the furnace pushers • Replacement of all process piping and valves. • Rebuild of the Cooling Water Manifold • Site Port Replacement & N2 Purge Tubing • Installation of a new High Heat Zone 2 Thermocouple • Installation of new process transmitters • Installation of dewpoint sampling port and tubing to connect to new analyzer panel • Frame modification of the gas section • Installation of new process gas main block/bleed valves • Replacement of saturator tank and assembly of sight glass • Installation of new Boat Inverter Proximity Brackets • Modification of the Gas Section Side Cover • Removal of the carbon steel pan/boat shelf and replacement with stainless steel version. The scope of work is for the electrical rebuild and upgrade of Sintering Furnace 4C will consist of the following: • Installation of control panels • Installation of conduit •	To address Obsolescence and Safety Concerns and for the following rebuild upgrade issues	ISA-08 Pelleting, Pellet Sintering Furnace 4C	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
		Installation of conductors • Installation of discrete field devices • Installation of field instruments.			
19030	ISR7 - Activate SSC ADUCAL-920, ADUCAL-921, and ADUCAL-922 for Line 4	Install programming in S PLC to activate ADUCAL-920, ADUCAL-921, and ADUCAL-922 for Line 4. ADUCAL-920 and ADUCAL-921 will shut off hydrogen if the line loses power or has a loss of ventilation to the calciner scrubber offgas hood. ADUCAL-922 will initiate the Nitrogen purge to the calciner.	Hydrogen will collect in S-1030 duct if power and ventilation is lost and the hydrogen keeps flowing from the calciner.	Line 4 Calciner Scrubber Hood	ISA-03 ADU Conversion
19031	ISR7 - Install and Activate SSC ADUCAL-920, ADUCAL-921, and ADUCAL-922 for Line 1	Install hardware and programming in S PLC to activate ADUCAL-920, ADUCAL-921, and ADUCAL-922 for Line 1. The new SSCs will shut off hydrogen if the line loses power or has a loss of ventilation to the calciner scrubber offgas hood.	Hydrogen will collect in S-1030 duct if power and ventilation is lost and the hydrogen keeps flowing from the calciner.	Line 1 Calciner Scrubber Hood	ISA-03 ADU Conversion
19032	ISR7 - Install and Activate SSC ADUCAL-920, ADUCAL-921, and ADUCAL-922 for Line 2	Install hardware and programming in S PLC to activate ADUCAL-920, ADUCAL-921, and ADUCAL-922 for Line 2. The new SSCs will shut off hydrogen if the line loses power or has a loss of ventilation to the calciner scrubber offgas hood.	Hydrogen will collect in S-1030 duct if power and ventilation is lost and the hydrogen keeps flowing from the calciner.	Line 2 Calciner Scrubber Hood	ISA-03 ADU Conversion
19033	ISR7 - Install and Activate SSC ADUCAL-920, ADUCAL-921, and ADUCAL-922 for Line 3	Install hardware and programming in S PLC to activate ADUCAL-920, ADUCAL-921, and ADUCAL-922 for Line 3. The new SSCs will shut off hydrogen if the line loses power or has a loss of ventilation to the calciner scrubber offgas hood.	Hydrogen will collect in S-1030 duct if power and ventilation is lost and the hydrogen keeps flowing from the calciner.	Line 3 Calciner Scrubber Hood	ISA-03 ADU Conversion
19034	ISR7 - Install and Activate SSC ADUCAL-920, ADUCAL-921, and ADUCAL-922 for Line 5	Install hardware and programming in S PLC to activate ADUCAL-920, ADUCAL-921, and ADUCAL-922 for Line 5. The new SSCs will shut off hydrogen if the line loses power or has a loss of ventilation to the calciner scrubber offgas hood.	Hydrogen will collect in S-1030 duct if power and ventilation is lost and the hydrogen keeps flowing from the calciner.	Line 5 Calciner Scrubber Hood	ISA-03 ADU Conversion
19038	Installation of Foundations and Underground Raceway for New Diesel Generators	Install foundations and underground raceway and grounding for the new equipment. Phase 1: Demolition of Smoking Area Canopy and Removal of Existing concrete; Phase 2: Install Foundations and Underground Raceway for SBG-11, SBG-13, and SBG-14; Phase 3: Install Foundation and Underground Raceway for SBG-12; Phase 4: Installation of SBG-11, SBG-13, and SBG-14 on to their foundations.	Existing diesel generators (DGs) SBG-1, SBG-2, SBG-3, SBG-4, and 4ATS6 have exceeded their useful life and need to be replaced.	Yard Area: Adjacent to west side of the Manufacturing Building roughly between column lines 12 and 15 Yard Area: East side of the Manufacturing Building between the plant roadway and sidewalk, roughly between column lines 101 and 102	Grounds
19039	Replace Existing SBG-1 with New Diesel Generator SBG-1	Design for installing the above ground electrical raceway design and interconnecting cables to make the new standby generator SBG-1 operational. It is intended that pre-work be performed for this CCF and CCF 19041 at the same time. • Phase 1: Auxiliary Power Installation • Phase 2: Fire Detection Installation • Phase 3: Remote HMI Installation • Phase 4: Start Circuit Installation • Phase 5: Main 480V Generator Power Installation; SSC SBG-301/302 Verification; Diesel Tank Fuel Fill; and Site Acceptance Testing • Phase 6: Cutover from existing SBG-1 to new SBG-1 • Phase 7: SBG-1 SSC CHEM-1-1 Functional Testing • Phase 8: Post-SAT SBG Supplier Punchlist • Phase 9: Removal of EG-1 Day Tank from Service. NOTE: New SBG-1 was formally referred to as SBG-11 in various CCF-related	Existing SBG-1 (also referred to as EG-1) has exceeded its useful life and need to be replaced.	Yard Area-Adjacent to west side of the Manufacturing Building roughly between column lines 12 and 15	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
		documents. This CCF creates new environmental protection SSCs SBG-301 and SBG-302. This CCF also installed new emergency power panel EPP2-15B to receive power from the new SBG-1 and to sub-feed existing EG-1 Power Distribution Panel.			
19041	Replace Existing SBG-3 and SBG-4 with New Diesel Generators SBG-3 and SBG-4	This CCF will install new diesel generators SBG-3 and SBG-4 to replace existing diesel generators SBG-3 (and temporary generator SBG-9) and SBG-4. New SBG-3 and SBG-4 will be installed outdoors on foundations installed per CCF 19038. Demolition of existing SBG-3 and SBG-4 will be done under CCF 19052. This CCF provides the design for installing the above ground electrical raceway design and interconnecting cables to make the new standby generators SBG-3 and SBG-4 operational. It is intended that pre-work be performed for new SBG-3 and SBG-4 at the same time. However, cutovers from existing SBG-9 to new SBG-3 and existing SBG-4 to new SBG-4 will be done sequentially so as not to simultaneously remove both generators from service. The pre-requisite for this CCF is completion of the scope per CCF 19038 which installs the foundations and underground conduit for new SBG-1, SBG-3, and SBG-4. This CCF provides auxiliary power, fire protection, and Remote Annunciator/HMI wiring to SBG-1 for final pull in and connections to new SBG-1 under CCF 19039. The scope for the SBG-1 main power and generator start connections is covered by CCF 19039. Scope of this CCF 19041 is broken down into Eleven (11) Phases as follows: • Phase 1: Installation of new SBG-3 and SBG-4 Generator Terminal Boxes • Phase 2: Auxiliary Power Installation • Phase 3: Fire Detection Installation • Phase 4: Remote HMI Installation • Phase 5: Start Circuit Installation • Phase 6: Main 480V Generator Power Installation; SSC SBG-401/901/902 Verification; Diesel Tank Fuel Fill; and Site Acceptance Testing • Phase 7: Cutover from existing SBG-3/SBG-9 to new SBG-3 • Phase 8: New SBG-3 Functional Testing • Phase 9: Cutover from existing SBG-4 to existing SBG-9 (Interim Configuration)/SBG-9 Functional Testing • Phase 10: Cutover from existing SBG-9 to new SBG-4 • Phase 11: New SBG-4 Functional Testing. Phase 9 is included as an interim configuration which will use portable generator SBG-9 in place of SBG-4. NOTE: New SBG-1, New SBG-3, and New SBG-4 were previously referred to as SBG-11, SBG-13, and SBG-14 respectively. This CCF creates new environmental protection and Fire Safety IROFS SSCs SBG-901, SBG-902, and Fire Safety IROFS SSCs SBG-401, SBG-402	Existing diesel generators (DGs) SBG-3 and SBG-4 have exceeded their useful life and need to be replaced.	Yard Area: Installation of new SBG-3 and new SBG-4 is adjacent to west side of the Manufacturing Building roughly between column lines 12 and 15. Yard Area: Electrical installation work Mechanical Area: Electrical installation work Equipment Room #3: Electrical installation work	ISA-03 ADU Conversion
19055	Pellet Lines 2-5 Powder Lift Level Switch Replacement	Replace existing powder level switches with new switches similar to recent installation on Pellet Line 1 under CCF #17073. Install new panels to house contactors and safety relays. Remove existing switches and related control devices from existing control panel. Modify PLC program to remove logic associated with old probes.	The existing level probes are not failsafe. Both types of the probes are obsolete and parts are not available.	Pellet Lines 2-5 Powder Lift Areas	ISA-08 Pelleting
19065	GM1 Vacuum Furnace 4" forline butterfly valve w/ actuator replacement	Replace existing 4" forline Morin / Tyco valve w/ actuator assembly on GM1 (FC-4205) vacuum furnace with 4" Keystone / Pentair valve w/ actuator assembly from G-M Enterprises (G-M part number S0131300).	Replace 4" forline butterfly valve w/ actuator with new valve to improve equipment performance, reliability, and reduce long term downtime and production delays.	Vacuum furnace area on GM1 (FC-4205)	Components

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CCF	Title	Description	Justification	Location	ISA ID
19066	Replace 05A/B pumps at precipitators (V-x05A/B)	project will replace the AG pumps with the more appropriate Wilfley A7 pumps. The thermocouples will be reinstalled.	Existing pump seals are designed such that at shut down a small amount of material leaks from the pump chamber.	In conversion near the precipitators	ISA-03 ADU Conversion
19081	IFBA Drying Oven #2 supports for element stands	This work would be a direct copy of CCF 16390 that occurred on IFBA Drying Oven #1. The purpose is to add welded stainless steel angle stops as necessary to the shell of Oven #2 to support the heating element stands. See attached picture for the as-built condition on Oven #1.	The current welds on the element stands are cracking due to cyclic loading from heat cycling (expansion and contraction).	IFBA Drying Oven #2	ISA-12 IFBA Fuel Rod Manufacturing
19083	IFBA RLN7 Pellet Dryer Oven #2 - Alignment Tabs	IFBA RLN7 Pellet Dryer Oven #2 trolley beam has misalignment between monorail channel sections A and B. This CCF will add two 304 stainless steel alignment tabs to monorail channel section A to prevent future misalignment between the two trolley segments.	Due to thermal expansion, the threaded hanger studs supporting the monorail channel sections deflect over time.	IFBA Oven 2	ISA-14 IFBA Processing
19096	Install network connection, alarm light and add run / stop switch to IFBA Dehumidifier. Relocate GFCI outlet for condensate pump.	Phase 1: Install network cable and connect to PCN Phase 2: Install Run/Stop switch at dehumidifier Phase 3: Install Alarm Light in IFBA Phase 4: Update HMI by Maintenance with Alarms from Dehumidifier Phase 5: Relocate GFCI Outlet for Condensate Pump	Connection to PCN will allow monitoring of IFBA Dehumidifier without installing an area display. Installing a run/stop switch will allow system to be turned off before main disconnect is opened. Installing an alarm light will indicate to area personnel that a problem exists and maintenance should be contacted. Relocate GFCI outlet for condensate pump to address moisture issues which causes tripping.	Outside of building by Doc 9 is where dehumidifier is located.	ISA-14 IFBA Processing
19099	ADU Conversion Lines 1, 2, 3, and 5 Calciner Seal Purge Modifications	In order to improve the performance of the calciner seals, the following changes were made to the calciner on ADU Conversion Line 4: Relocated existing BPCS flow transmitters FT-409E and FT-409F on the primary purge lines to a location prior to the regulator. Installed new BPCS flow transmitters on the secondary seal purge lines. Replaced existing 0-10inWC gauges PI-409K and PI-409J with 0-50inWC gauges on the secondary seal purge line. Installed four new BPCS transmitters to measure pressure on both primary and secondary seals. Changed purge pressure setpoints from 5inWC on the secondary to 15 in WC Changed purge pressure setpoints from 20inWC on the primary to 30 in WC. No changes were made to the functionality of ADUCAL-913 as part of this change. Since the changes were implemented on line 4, the seals have not failed. This project will provide the same modifications to the other ADU lines. Phases 1, 2, 3, and 4: Mechanical installation of transmitters, regulators, and tubing modifications. Phases 5, 6, 7, and 8: Electrical connection of instrumentation to BPCS.	Improve operation of the calciner seals. The relocation of the transmitters will remove a pressure drop in the line from the regulators to the seals. The regulators and setpoint change allow for a higher seal pressure to counter the calciner operating pressure.	Conversion lines 1, 2, 3, and 5	ISA-03 ADU Conversion
19102	Upgrade of Honeywell Experion DCS System for Conversion (Phase 3 of 3 of Isolated Network Cutover)	Phase 1 is to install a network switch cabinet, patch panel+cables, and fiber optic cabling in the Conversion Control Room to support migration. Phase 2 is to install new network switches for Isolated Honeywell Network in cabinet adjacent to existing PNC/Business network cabinet. Fiber Patch cables will be routed from new network switch (in phase 1 to this cabinet). Power for switches will be fed from existing adjacent cabinet. Phase 3 is to perform cutover of Honeywell 3.11 Controls to Honeywell 50X.X Controls and isolated	Hardware is mature and operation system is obsolete. Honeywell DCS version requires upgrading in order to maintain support	Chemical Side - Conversion Area	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
		network for common services and conversion line 5. Phase 4 is to perform cutover of Honeywell 3.11 Controls to Honeywell 50X.X Controls and isolated network for conversion lines 1&2. Phase 5 is to perform cutover of Honeywell 3.11 Controls to Honeywell 50X.X Controls and isolated network for conversion lines 3&4. Phase 6 is to replace the existing 4 ICON stations with a single Orion Console and Auxiliary Station end Pieces. Phase 7 is to create a temporary control station in the conversion conference room. This involves moving 1 wonderware computer, winLIMS computer, and 1 SIS (monitor keyboard & mouse) along with 8 Experion screens. Phase 8 is to demo the temporary control station and return conference room to layout prior to temporary control station.			
19109	Conversion Line 4 Calciner Scrubber Confirmatory Order Mechanical Improvements	first phase will consist of the following: 1. Add pH element, flow element, control valve and block valve for automatic pH control. 2. Add a flow element to monitor DI water flow to the scrubber off-gas condenser. The second phase will remove the piping installed in CCF-18375. A straight bypass line will be installed in place of the removed piping, flow meter and pH elements from CCF-18375. The above changes are for the piping and mechanical equipment only. The electrical and controls installation and demolition is covered in CCF-19132.	These changes are to meet NRC confirmatory order commitments	Line 4 Conversion Calciner Off-Gas Scrubber.	ISA-03 ADU Conversion
19112	IFBA Dry Room Valve Motor Actuator SR 38026 Replacement	The IFBA dryroom dehumidification train PK9662 utilizes a valve motor actuator SR 38026 that is obsolete. The obsolete valve motor actuator is a Johnson Controls PN: M130XGA-1. There are 5 valves which utilize the obsolete part. The 5 valves which utilize the part are the following: Chilled Water: Phase 1: Make-Up Precool Coil Chilled Water Valve VA03; TCV9662A1; 4-20 mA Input Signal Phase 2: Return Blend Precool Coil Chilled Water Valve VA05; TCV9662B; 4-20 mA Input Signal Phase 3: Post Supply Coil Chilled Water Valve VA06; TCV9662C1; 0-10 VDC Input Signal Steam: Phase 4: Make-Up Preheat Coil Steam Valve VA04; FCV9662A1; 4-20 mA Input Signal Phase 5: Supply Post-Heat Coil Steam Valve VA07; FCV9662C2; 0-10 VDC Input Signal Munters Corporation services PK9662 and have specified a service kit to address the obsolescence issues associated with the part. For the 0-10 VDC input signal Munters PN G48212-01 will be utilized. For the 4-20 mA input signal Munters P/N G48212-02 will be utilized. The existing cover installed on the valves topworks may need to be modified depending on the footprint of the new topworks. The existing cover installed on the valves is shown in drawing 814F19EQ01:01 and :02. This CCF does not affect any SSC's this configuration change does not modify any process, system, or component that contains, measure, handle, transport, process, or secure Uranium in any form	Existing valve motor actuator SR 38026 is obsolete and there are no longer any spares available in the storeroom.	IFBA Dryroom Dehumidification Train Outside	ISA-12 IFBA Fuel Rod Manufacturing
19113	IFBA Coater 8, 6 & 3 Roller Supports Modification	This modification to the upper roller supports will move the rollers away from the cathodes to the center space between cathode and top of the Coater.	Currently design has the roller bearing support arms (items 26 & 27) too close to cathodes 4/6. This makes it impossible to insert the bearing cover. When no bearing cover is installed, the build-up of dust has caused arcing from the cathode to the cathode ground shield.	IFBA Coater #8, 6, 3	ISA-14 IFBA Processing

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CCF	Title	Description	Justification	Location	ISA ID
19114	Replace Obsolete Dry Trash Scales 2, 3, & 4	Replace Obsolete Dry Trash Scales 2, 3, & 4. We will be replacing the existing Scales (Displays and Platforms) with the current model display and platform.	The existing scales are obsolete and can longer be maintained.	Dry Trash Scales in the UF6 Bay	Grounds
19131	Modifying Line 4 Calciner Exhaust Stack	Modifying Line 4 Calciner Exhaust Stack to include a no-loss rain guard, extend the stack to 15' above the roof surface, and install a damper at approximately 4' above the roof that can be operated and locked in place manually but has the ability to in the future be controlled with an actuator off a transmitter sensing calciner combustion chamber pressure. The stack will have a reduce diameter just above the roof from 12" to 10". The no-loss rain guard will extend from the top of the stack.	Line 4 calciner has poor temperature control causing poor quality product.	Line 4 Calciner Stack	ISA-03 ADU Conversion
19132	Conversion Line 1-5 Calciner Scrubber Confirmatory Order I&C/Electrical PH Improvements	SCOPE: Install new instrumentation and automatic controls for maintaining required scrubber pH including monitoring Process Temperature.	These changes are to meet NRC Confirmatory Order EA-16-173 commitments	Line 1-5 Conversion Calciner Off-Gas Scrubber	ISA-03 ADU Conversion
19140	Add 3-Way Valve to V-X05 Precipitator Drain	The proposed change would remove the current pipe spool with the drain line and install a new spool and a 3-way valve. The 3-way valve would keep the precipitate in the main line during operation and changing the valve position would allow the line to drain. This will be a 5 phase CCF, one phase per line.	The 3-way valve will keep the precipitate in the main process line during operation rather than settle down into the drain line.	Conversion precipitator lines.	ISA-03 ADU Conversion
19142	Conversion Line 1-5 Calciner Scrubber Confirmatory Order I&C/Elec/Mech Level Improvements	SCOPE: Install new automatic controls for flushing the Slab Scrubber Inlet Piping used for the Level Transmitter.	These changes are to meet NRC Confirmatory Order EA-16-173 commitments	Line 1-5 Conversion Calciner Off-Gas Scrubber	ISA-03 ADU Conversion
19149	Boat Loader Enclosure Lighting	Install LED lighting in the boat loader enclosures to assist operations with cleanout and maintenance.	Currently operators use flashlights for cleaning out the enclosures.	Pelleting	ISA-08 Pelleting
19158	WWTP Entry Sump and Chlorination Chamber Upgrades: Electrical and Controls install and final tie in	The processes do not contain, measure, handle, transport, process, or secure Uranium in any form. This change will allow for automated control of Chlorination at the Sanitary Lagoon Outlet Structure. Interlocks will be installed to isolate flow from the Sanitary Lagoon in the event of a Chlorine upset. This change will install a Chlorine sampling system on the outlet of the Sanitary Lagoon outlet Structure to provide indication and provide a control signal to the Chlorine Injection System. This change will provide for monitoring of the Chlorination parameters in the URRS outside control room. Also, a removable filter screen will be installed on the inlet to the Chlorination Chamber to reduce the probability of Chlorinator clogging. A Panel air conditioner for the Hach analyzers will be installed which has R134A for the Refrigerant, volume is 5.29oz. Equipment that had been installed under CCF's 18141,19196 and 18131 will be automated and tested as a part of this CCF. Phase 1 Startup system for testing with chlorine and effluent; Phase 2 Startup system for normal operations; Phase 3 Install Inlet Filter. 5/13/2020 CCF was demoted to add phase 3 for installation of the inlet filter. The other document changes are due to the chlorine analyzer becoming obsolete and an input averaging mode for residual chlorine control. These changes include drawings, control narrative, and test plan.	CCF is required to improve plant diagnostics for residual chlorine content and wastewater flow, and also to improve chlorination efficiency and reliability	Wastewater Treatment Plant	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
19162	ABAR Vacuum Furnace Roughing Pump Replacement	The current ABAR roughing pump, Stokes model is obsolete and many spare parts are no longer available. This pump will be replaced with a pump which will be common with the pumps used on GM1 & GM2.	The Stokes model is obsolete and many spare parts are no longer available.	Vacuum Furnace Area - ABAR Oven	Components
19166	Pelleting Line 1 Bulk Container Enclosure Fall Protection	Employees are exposed to a fall hazards above four feet while reaching out onto the container to adjust the strongback and while placing/removing the safety netting. This CCF will replace the existing safety netting in the bulk container enclosure with an OSHA approved lift gate to eliminate the fall hazard present while changing out the bulk container.	Eliminate fall hazard.	Pellet Lines 1	ISA-08 Pelleting
19169	WWTP Entry Sump and Chlorination Chamber Coating and Valve Install (Manual Operation Only)	The processes do not contain, measure, handle, transport, process, or secure Uranium in any form. The overall project objective is to improve Sanitary Lagoon outfall flow control and shutoff. Provide interlocks to prevent sanitary wastewater that has not been disinfected from being discharged. Provide interlocks to ensure that an unintended chlorine release is not caused during a loss of sanitary flow event. Improve the configuration of the chlorine contact chamber in the chlorination sump to ensure complete disinfection prior to sending sanitary flow to final treatment. The project was broken down into CCFs that could be coordinated to minimize the impact on operations by allowing for installation and system recovery windows. This CCF will remove degraded plant equipment and install equipment that will be utilized (in later CCFs) for system automation. Phase 1, A vendor (Palmetto Environmental) will perform a thorough cleaning of entry and chlorination chambers. A second vendor (IFCO) will apply a protective epoxy coating (3300CR Veil Coat), to extend the life of the structure. Phase 2 Will remove existing degraded system shear gates and test plugs from the wall between the Entry and Chlorination Chambers. Then will install piping, flow transmitter, air operated valve (AOV), shear gate and permanent welded plugs. Flow transmitter and AOV will be connected to the logic under a later CCF. New pipe supports and shear gate handle support angle. This work will require field welding in a confined space. IFCO to perform coating touch up following equipment installation.	Under the WWTP upgrade project, the new process will increase the reliability of the chlorination system and ensure compliance with new SCDHEC requirements by adding continuous flow monitoring, residual chlorine sampling and by providing fail safe (positive isolation of sanitary and chlorine flow) in the event of a power loss.	Wastewater Treatment Plant	Grounds
19171	Install Current Limiting Fuses on Coater 1,2,3,4,6,& 7 Power Supplies	Install current limiting fuses on the 480 VAC supply to the coater power supplies. This CCF will require 6 phases one phase per coater fuse installation.	The coater power supplies are occasionally tripping the power supply feeder breaker at the MCC.	Coater Power Supply Rooms	ISA-14 IFBA Processing
19173	Replace P-05 and P-12A/B With Alternate Style of Air Diaphragm Pump, Modify Pump Suction Manifold, and Improve Level Indication on V-12A-F at Cylinder Wash	Phase 1 - Replace P-12A/B With Alternate Style of Air Diaphragm Pump. These pumps recirculate solutions generated from the cylinder wash process and transfer them to the Conversion. These pumps will also be relocated on the V-12 A through F bottom header. Mechanical Installation of upgrade to LT-12 on V-12A and new LT-12D on V-12D will also be included in Phase 1. Phase 2 - Replace P-05 With Alternate Style of Air Diaphragm Pump. This pump recirculates the solution in V-07B and transfers rinse solution to V-09 Water Feed Column. Phase 3 - Electrical installation of upgrade of current model of differential pressure transmitter, LT-12, new level transmitter LT-12D, and new automatic valve XV-12A.	Current P-12A/B are obsolete models that are difficult to find parts for to maintain.	Cylinder Wash	ISA-09 UF6 Cylinder Wash

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CCF	Title	Description	Justification	Location	ISA ID
19195	Provide external lubrication port for Fitzmill	This project will supply grease fittings external to enclosures and tubing to the mills to facilitate lubricating the bearings. This will allow lubrication without shutting down the mill. Since no SSC's are affected.	Decrease down time of the Fitzmill and reduce exposure to operators	Conversion	ISA-03 ADU Conversion
19218	Pelleting Bulk Container Enclosure Fall Protection	Employees are exposed to a fall hazards above four feet while reaching out onto the container to adjust the strongback and while placing/removing the safety netting. This four phase CCF will replace the existing safety netting on Pellet Lines 2-5 with an OSHA approved lift gate to eliminate the fall hazard present while changing out the bulk container.	Eliminate fall hazard.	Pellet Lines 2 - 5	ISA-08 Pelleting
19225	Nitrogen Piping Adjustment in Support of 4C Upgrades.	Piping supplying Nitrogen to furnace 4C has to be routed so that it can accommodate upgrades performed on pellet sintering furnace 4C. This CCF does not impact any SSCs or CSEs. The process, system, or component modified by this CCF does not contain, measure, handle, transport, process, or secure Uranium in any form.	Current piping does not reach furnace 4C.	Exit end of pellet sintering furnace 4C.	ISA-08 Pelleting
19229	Addition E-Stop for IPSEN Oven #3	Install local and remote E-Stops for Ipsen Oven. The remote E-Stop will be located at north wall entrance.	Greenbook # 72405 issued to install E-Stops.	Grid Area Ipsen Vacuum Oven	Components
19236	Single Point Disconnect for New Polish Station	Install new 4 Pole Disconnect to remove all power (Single Point) for New Polish Station. Remove 480 Volts and 120 Volts from Station.	Provide single point disconnect for Safety Lock Out Tag Out operations for Polish Station. This will simplify the Lock Out Tag Out for Polish Station.	Oxide Coater #1	Components
19251	Modification of conduit run from Pelleting Area mezzanine to Line 4 control panels to facilitate removal of out-of-service Furnace 4C control panel.	Modify the conduit routing between the Pelleting Area mezzanine nitrogen header pressures switches. The switches wired to furnaces 4A and 4B pass through the furnace 4C panel which is out of service and requires demolition. The conduit will be reworked to provide separate drops to the two remaining control panels (4A and 4B) and the 4C drop will be eliminated. An existing receptacle will also be moved and rewired to enable the removal of the control panel.	Permit removal of furnace 4C out-of-service control panel and facilitate future demolition of either remaining panel without requiring shutdown of both.	Pellet Line 4	ISA-08 Pelleting
19254	Nitric Acid Storage Tank T0051 Offload Fall Protection	Install Carbis safety platform with self-leveling tread gangway with safety cage, OPW loading / vent arm and drive off protection LED traffic controller light at Nitric Acid Storage Tank T0051.	Eliminate fall hazard during nitric acid offload while venting tanker vessel.	Nitric Acid Storage Tank T0051	ISA-06 Chemicals Receipt, Handling and Storage
19258	Pellet Line Glove Box Replacement	Replace lexan glove boxes on all pellet lines with stainless steel glove boxes.	6S Project. Existing glove boxes are made of lexan have aged and require replacement.	Pellet Lines 1 - 6 Back End	ISA-08 Pelleting
19264	Office 116A, Outside Protective Clothing Facility Fire Protection and CE Grid Area Speaker Installation	With this CCF, we will be adding three (3) Fire Protection Speakers to the current system. One speaker will be in Office 116A, the second speaker will be located on the outside of the Protective Clothing Facility and the third speaker will be located in the CE Grid Area. These new speakers will be designated S-223, S-224, and S-227.	As per the Fire Excellence program post project check it was discovered that these areas required additional speaker coverage.	Office 116A, Outside Protective Clothing Facility Fire Protection and CE Grid Area	Grounds
19265	Substitution for Pellet Line 2- Replace Elevator Pan Extend and Retract Solenoid	Replace the extend and retract solenoid on the elevator lift pan extend and retract on pellet line 2. The existing miller valve PN 320-401-502-115AC-2635 will be replaced with an ASCO 8562A106H1G2GF0	The existing solenoid and valve have been replaced 17 times since 2001 on the elevator pan extend retract cylinder PL1-PL5. The solenoid coil	Pellet Line 2 Elevator	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
			has also had multiple failures and is prone to overheating when energized for an extended time.		
19281	SO2 cylinder shed mounting modification	Provide a proper mounting for the housing around the SO2 cylinders in outside URRS. This change does not constitute a modification to a processes, systems or components that contain, measure, transport or secure Uranium in any form.	During a recent storm, the housing around the sulfur dioxide cylinders blew down due to high winds, causing the cylinders to also fall, and a leak of SO2 to occur.	Outside URRS, SO2 Addition System	ISA-15 URRS Wastewater Treatment System
19285	IFBA Scrap Process Area Wilden M2 Pump Replacement	Replace Wilden M2 pump (obsolete) with Wilden P200 pump. Per manufacturer, P200 pump has a total volume capacity of .47 gal. Pump will consist of Kynar and Teflon material. Phase 1: P-7093; Phase 2: P-7094; Phase 3: P-7152; Phase 4: P-7157C	Wilden M2 pumps used in IFBA are obsolete and no longer supported by the manufacturer.	IFBA Scrap Area	ISA-12 IFBA Fuel Rod Manufacturing
19287	CAAS Station 9 Control cabinet replacement	The scope of this project is to replace the original power paint corroding CAAS Station 9 Control cabinet with a new stainless steel one.	Current cabinet has met its end of life.	Station 9 Solvent Extraction	ISA-07 Solvent Extraction
19290	Sea-land Container C-44 Removal	Remove Sea-land container C-44 and properly package for offsite disposal.	The container floor is rotten and the roof is leaking.	Outside Plant Grounds	Grounds
19294	IFBA Coater 8 Controls Upgrade Phase 6-10	CCF 18382 is phases 1-5 of the IFBA Coater 8 Controls upgrade. This CCF is a continuation of the project. Phase 6 we upgrade the Coater drum rotation drive from an ABB to an Allen Bradley VFD. Phase 7, will migrate the IO associated with the water system, and install new transmitters. Re-wiring of MCC and chamber heater device IO will take place during this stage. Phase 8 will upgrade to the SMC pneumatic valve rack. Turk IO blocks will be installed and configured in Phase 9. During phase 10 we will migrate the 1st floor water distribution and finish the controls upgrades. In addition, we will do pre-work for installing new power supplies. New cables will be run from the coater shell. Install flex IO and install new safety PLC.	The PLCs are obsolete and unattainable.	IFBA coater #8 & throughout the IFBA floors that pertain to coater #8	ISA-14 IFBA Processing
19303	Install Maintenance Bypass circuit for EPA Chlorine Analyzers	Install Key-Lock Maintenance Bypass circuit for EPA Chlorine Analyzers This change does not constitute a modification to processes, systems, or components that contain, measure, transport or secure Uranium in any form.	When the instrument(s) is out of service this will allow us to implement the relevant procedure, which will allow us to by-pass the failed instrument	EPA Building Chlorine analyzers	Grounds
19304	FL-9405 VP-29 & FL-9166 VP-30 Modification	Enlarge current view ports (VP-29 & VP-30) opening to approximately 6" X 6" and seal opening with sheet metal, lined with gasket to prevent water intrusion. Phase 1: FL-9405 (VP-29); Phase 2: FL-9166 (VP-30)	Inspectors need larger access hole to allow remote control camera to enter FL-9405 (VP-29) and FL-9166 (VP-30) duct to take better pictures.	ERBIA Roof Platform	ISA-01 Plant Ventilation System
19305	Demo IFBA Chiller #2 (CH-7096)	Phase 1: Demo the old chiller.	IFBA Chiller #2 has failed and the plant is currently operating on a temporary rental chiller.	IFBA Mechanical Room	ISA-14 IFBA Processing
19306	Hematite Sea-land Container Removal	This CCF will remove the following Hematite Sea-land containers from site per procedure CA-022: C07 C08 C09 C10 C11 C15 C24	Eliminate environmental hazard.	Outside Plant Grounds	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
19307	Zirc Tube Sea-land Container Removal	This CCF will remove the following Zirc Tube Sea-land containers from CFF site per procedure CA-022: WEC1000 WEC1001 WEC400 WEC500 WEC700 WEC800	Eliminate environmental hazard.	Outside Plant Grounds	Grounds
19308	Optimize/Update Laser Exhaust Relief Valves and Bellows Valves on Laser 6	Improvement Item 1: Laser 6 contains two custom made unique exhaust relief valves in the exhaust line that feeds part of the instrumentation loops. The relief valves are serviced on OM71001 every week requiring the valve to be removed from the laser, disassembled, and cleaned. The current valve contains BSPT tapered threads on each end that are really designed for one time use and so are subject to damage every time they are disconnected and reconnected which leads to small leaks potentially impacting instrumentation functionality. The threads have also incurred damage in the past preventing reconnection and leading to downtime delays until threads were repaired. The new valves contain parallel SAE connections instead of BSPT and are equipped with replaceable O-rings to improve serviceability otherwise the valve body is intended to function exactly the same as the original. For this reason, the old and new valves can be substituted with use of proper adapter fittings but the goal is to eliminate update with the new design. Adapter fittings are included with the new relief valve and will be used in the installation. The new fittings and O-rings are commercially available. Improvement Item 2: Laser 6 contains two bellows valves attached to a QF16 connection on the bottom of each weld chamber to supply 90psi argon for the argon knives. The bellows valves contain a QF16 connection and similar sized valve body. It has become evident that the QF16 sized valve body sometimes struggles to open against the 90psi argon pressure. In the past, a valve containing a QF16 port size but a QF25 body was used. This connection size and body combination is no longer commercially available. Replace the QF16 bellows valve with the QF25 valve using a QF16 to QF25 cone adapter and QF25 to 1/2" SST adapter.	Improvement #1 will reduce the possibility of leaks, improve serviceability of the equipment, create spare(s), and improve the reliability of the instrumentation. The original relief valves are custom made for this application so there is no replacement until now. Improvement #2 will improve functionality of valves.	Laser 6, W4220	Components
19309	Modification of control boxes and switches for the new laser grid system chillers	Modification locations of the existing power panel boxes and selector switch to meet code and plant standards. Separate power feeds to permit independent operation of the two chillers. This will get one chiller operational and in service so the old McQuaid unit can be removed and the other Carrier chiller powered under a separate CCF.	This work is necessary to correct NEC and plant standard issue with the current installation and providing independent power to both units creating a true backup system should one fail.	Outside the north wall of the facility	Components
19316	QC Rods Soft Handling Section E7 Pivoting Rod Stop Installation	This CCF is to document the installation of a pivoting rod stop at west end of rod soft handling (RSH) Section E7. -Phase 1- implement PLC logic changes and screen updates - Phase 2- remove fixed rod stop; install pivoting rod stop; install proximity sensor; install bolt to disable operation in manual mode -Phase 3- remove bolt and install spring plunger to enable operation in manual mode	To allow for manual loading of rods at Section E7	QC Rods Soft Handling Section E7	ISA-17 Final Assembly
19320	Modify Scrubber S-1030 Air Flow Controls	Modify Scrubber S-1030 Air Flow Controls. Relocate Flow Element on Fan-A and add Flow Element on Fan B.	The existing flow measuring device is located at the discharge of the fan exhaust. Air flow at this location is very turbulent and prevents accurate air flow measurement. Our goal is to be able to control air of the system via the measurement device. We also want to be able to measure either	Chemical Roof at 1030 scrubber	ISA-01 Plant Ventilation System

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			the primary or backup fan flow, depending which is on-line.		
19325	Cover Diesel Generator Room 2 South Side Fire Dampers	Permanently cover the two dampers in the south wall of the diesel generator room 2. A piece of sheet metal will be installed over the dampers and sealed with fireproof sealant. This change does not constitute a modification to a processes, systems or components that contain, measure, transport or secure Uranium in any form.	The dampers on the south wall are not in use. There is a large damper in the east wall that is used for the room in place of the two closed dampers. By covering the south dampers, it would eliminate the need for periodic inspections of the two dampers that are closed and not in use.	Compressor/Diesel Generator Room 2	Grounds
19326	IFBA Dry Room Tray Scale	Replace existing obsolete pellet tray scale with a new scale. The scale footprint will change from a 12" X 12" to a 12" X 16" scale.	The existing scale is obsolete	North of IFBA Dry Room At tray loading station	ISA-12 IFBA Fuel Rod Manufacturing
19331	Power Distribution Boxes for New Non-Fuel Welder Camera System	Installing electrical outlets in control boxes to support Tooling's' new Non-Fuel Welder Camera Systems. • 5 power boxes (Non-Fuel & Thimble Line) will have an SO cord and a 20A plug for plugging into local 120VAC duplex receptacle • 2 power boxes (WABA Room) will be hardwired in the WABA Room, the existing power distribution box will be demoed No CSE or SSCs will be impacted by this work.	Existing INNOVIA camera systems are obsolete and WEC no longer works with INNOVIA. New camera systems are designed by WEC Tooling Department.	Non-Fuel and the Thimble line also WABA Room Welder 2 & 3/4	ISA-03 ADU Conversion
19333	Sea-land Container Removal	This CCF will remove the following Sea-land containers from site per procedure CA-022: C26 C28 C29 C35 C46 C47 C48 C49 C65	Eliminate environmental hazard.	Outside Plant Grounds	Grounds
19338	Install a Sink in the Decontamination Step Off Pad Area of the Respirator Cleaning Room in the Respirator Building	Install a Sink in the Decontamination Step Off Pad Area of the Respirator Cleaning Room in the Respirator Building	Currently there is one sink in the Respirator Cleaning Room of the Respirator Building. Employees use this sink to wash contamination off of respirators. Employees remove their shoe covers and lab coats as they move to the decontamination step off pad to frisk for prior to exiting the Respirator Cleaning Room. If contamination is found, employees must put back on their shoe covers and lab coats and go back to the potentially contaminated sink to decontaminate themselves	Respirator Building	Grounds
19345	Install an Additional Aerosol Penetrometer to Test Filter Cartridges in the Respirator Building	Install an Additional Aerosol Penetrometer to Test Filter Cartridges in the Respirator Building	The current penetrometer is obsolete and can be down for long periods of time when it breaks down.	Respirator Building	Grounds
19347	Replace Roughing Pumps on IFBA Coaters #1, 2, 3, 4, 6, 7 & 8. Modify Utility Connections and Install New GXS250 Dry Screw Pump	Install GXS250 Dry screw pump and associated utilities. This will require: 1) Remove existing Leybold DK200 IFBA coater roughing pumps and Install Edwards GXS 250 Dry Scroll pumps in their position. The roughing pump intake and the discharge piping will require modification per the piping plan drawing. 2) Modify chilled water supply and return piping to run cooling lines to the pumps. 3) Run instrument air to the pumps as purge gas. 4)	Current roughing pumps are obsolete and the number of spare pumps is dwindling.	On IFBA Mezzanine	ISA-14 IFBA Processing

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		Electrical changes will replace existing MCC Buckets with a new control configuration to support the electrical requirements of the new GXS250 pumps. Additional Changes will involve adding (2) new Pump Digital Status Alarms to the existing Coater PLC I/O spare inputs. Changes will also include updating the Coater Process Diagram and Alarm Display to incorporate the (2) New Pump Status Alarms. In addition, a new Operator Interface for Acknowledging Pump Alarms and monitoring will be installed. This will be an eight phase CCF with the following phases: Phase 1 - Coater 1 Roughing Pump Install; Phase 2 - Coater 2 Roughing Pump Install; Phase 3 - Coater 3 Roughing Pump Install; Phase 4 - Coater 4 Roughing Pump Install; Phase 5 - Installation of instrument air and chilled water for pumps 1-3 & 4, 6& 7; Phase 6 - Coater 6 Roughing Pump Install; Phase 7 - Coater 7 Roughing Pump Install; Phase 8 - Coater 8 Roughing Pump & Utilities Install			
19350	Tool & Gage Water Heater Removal	Remove water heater tank located on the mezzanine above Tool & Gage that supplies hot water to sink in Tool & Gage (Hot water is not used). This change does not constitute a modification to a processes, systems or components that contain, measure, transport or secure Uranium in any form.	The water heater plumbing is not in compliance with plumbing code.	Mezzanine above Tool & Gage	Miscellaneous
19353	Bulk Blending Room Roof Catwalk Ladder Replacement	Replace steel ladder that connects to the small catwalk above Bulk Blending Room per OSHA 1910 SUBPART D.	The access ladder to the platform above the Bulk Room is 7" away from the Bulk Room wall, however, the 3rd ladder rung from the top is a safety hazard because of a gutter that runs behind the rung. It limits a person's step onto the next rung because there is only about 2" to place your foot on the rung in question.	Ladder North East outside of Bulk Blending Room	ISA-05 ADU Bulk Powder Blending
19355	Install Tee and isolation valve in the IFBA-ERBIA chilled water crossover pipe.	Install Tee and isolation valve in the IFBA-ERBIA chilled water crossover pipe in both the chilled water supply and return lines, install a tee with an isolation valves that allow a temporary chiller to be connected to flow either to the IFBA 1 & 2 chillers, the ERBIA chiller or both. The isolation valve will shutoff the line to the temporary chiller to allow it to be attached and removed without draining the chilled water system. This also moves the temporary chiller installed per CCF-19291 to tie into the IFBA/ERBIA chilled water system through the tees installed via this CCF. A temporary is added to the temporary chiller since the IFBA #2 pump is removed from the temporary chiller circuit.	IFBA No. 2 Chiller has failed and a temporary chiller is currently installed. The installation was made by breaking the line for both the chilled water supply and return just outside the chiller and connecting the temporary chiller there.	IFBA Mechanical Room	ISA-14 IFBA Processing
19359	Replace steel ladders in SOLX, from floor level to incinerator platforms.	Replace steel ladders in SOLX, from floor level to mezzanine (approximately 15 feet), from mezzanine to second level platform (approximately 4 feet). Phase 1 - floor level to mezzanine; Phase 2 - mezzanine to second level platform	These fixed ladders are in very poor condition and do not meet OSHA 1926 / 1910.	SOLX, south at BB-2	ISA-07 Solvent Extraction
19360	Dialight High-Bay Lighting Control Panel Installation	Pre-approved Level 0 CCF: Install Dialight Control Panels in 3 areas: 1. On Sub 2 mezzanine 2. On Plating Room mezzanine 3. Grid Area north wall. The installation will mirror CCF 18413. This CCF only covers the installation, lighting control/adjustments will be taken over by the Area Engineers.	"There are several lights in the final assembly area that are too bright and pose a safety risk to the operators when they have to look up at the cranes in the area. This Dialight control panel will allow	1. On Sub 2 mezzanine 2. On Plating Room mezzanine 3. Grid Area north wall	

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			someone to connect with a laptop and adjust the brightness of the lights that cause problems."		
19362	Vibrating Fork for T-51 Nitric Acid Storage Tank	Replacing the obsolete Drexlbroom High High Level Probe on the T-51 Nitric Acid Tank with a new Rosemount Level Probe.	The obsolete replacing the Drexlbroom High High Level Probe has failed and been repaired several times. Replacement parts are getting hard to find.	URRS outside T-51 Nitric Acid Storage Tank	ISA-06 Chemicals Receipt, Handling and Storage
19366	S Roof Section Replacement	Install a new roof in the S section roof area, the roof will have a mechanically attached 1/2" high density isocyanurate cover board with a coated glass facer. A 0.060 TPO membrane will be mechanically attached to the cover board face.	The Existing S section roof area has exceeded its useful life.	S area roof section above MAP	ISA-03 ADU Conversion
19369	Rod Weigh B Pivot Arm Modifications	The pivot arms on rod weigh b (assembly 33 and 34 on 1962F04) are going to be modified to ensure they are better secured to the shaft. These changes will incorporate a mounting plate instead of a shoulder bolt and split collar that was used to these pivot arms to the shaft.	The old style pivot arms have issues remaining tight on the shaft, and cause issues holding the rod during transport.	Tube Prep	Components
19370	Tumbler Blending Cage Enclosure	Install approximately 4' of fencing along the back side of the tumbler cage in Bulk Blending Room. Fencing will be tack welded to current fencing and I-beam (no hole for anchor bolts in the floor). This change does not constitute a modification to a processes, systems or components that contain, measure, transport or secure Uranium in any form.	To prevent personnel from being able to access tumbler while in operation	Bulk Blending Room	ISA-05 ADU Bulk Powder Blending
19372	IFBA Line 5 Passive Gamma Scanner Bar Code Reader upgrade.	The scope of this project is to replace the inlet and outlet Bar Code Readers.	Current Barcode Readers are obsolete and spare parts are used or not available.	IFBA Line 5 Passive Gamma Scanner Bar Code Reader	ISA-12 IFBA Fuel Rod Manufacturing
19374	Modifications for Reliability Purposes for the New Air Cooled Compressors	This CCF will cover the installation of structural steel to support extended exhaust deflectors beyond the roof line of the current shed. The purpose is to reduce the potential to recycle cooling air for the compressors. Phase 1: Extended ductwork and structural steel on ZT315 Air Compressor; Phase 2: Extended ductwork and structural steel on ZT250 Air Compressor; Phase 3: Blocking direct sunlight solution on ZT315 and ZT250 Air Compressors	The Air Cooled Instrument Air Compressors are tripping on Inverter Overtemp and Main Motor Overtemp.	New Air Cooled Air Compressors	Grounds
19375	Ransome Cylinder Wash Rotator Guarding	Install machine guarding around the Ransome cylinder wash rotator to eliminate pinch hazards.	Correct inadequate guarding identified during Global EHS Audit.	Ransome Cylinder Wash Rotator	ISA-09 UF6 Cylinder Wash
19376	UF6 Container Transport Conveyor Upender Guarding	Remove hard stops on outer frame of UF6 cylinder upender to eliminate pinch points. Stops will be moved to the middle of the frame where personnel cannot come in contact with hazard. The upender controls will also be relocated back towards the south wall to remove the operator from a potential pinch hazard when loading the UF6 cylinder into the upender.	Correct inadequate guarding identified during Global EHS Audit.	UF6 Container Transport Conveyor	ISA-03 ADU Conversion
19377	Guarding on Rotating Equipment for Calciner Lines	This CCF will place a lexan cover on existing guarding on rotating equipment at the front end on the second floor on Calciner Lines 1, 3-5.	Correct inadequate guarding identified during Global EHS Audit.	Calciner Lines 1, 3-5	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
19378	S-1008 Scrubber Heat Detector Installation	Install heat detectors before and after each filter bank FL-1008A/B on the S-1008 Scrubber. This installation will mirror the installation done on Filter House 1A/1B and 2A/2B. These will be deemed SSCs per SSCID VENT-905-ALL	SSC VENT-905-ALL requires: Automatic fire detection before and after all HEPA filter banks that vent to atmosphere.	Scrubber S-1008, Filter House FL-1008	ISA-01 Plant Ventilation System
19379	Pellet Crusher Installation in the Chem Lab	With this CCF, we will be installing a new Vibratory Disc Mill (Pellet Crusher in the Chem Lab).	The old Pellet Crusher is faulty and needs replacing.	QC Lab	ISA-18 Laboratories
19381	Improve Sample Filtration on Chlorine Analyzers in EPA building	Improve Sample Filtration on Chlorine Analyzers in EPA building. Develop suitable cross-flow filtration to our Chlorine Analyzers. This filter may be installed or removed from service without the need for a configuration change. This filter provides another level of filtration improvement, but it is not required. The intent is to develop our filtration to reduce the maintenance on the chlorine analyzers. This change does not constitute a modification to processes, systems, or components that contain, measure, transport or secure Uranium in any form.	The chlorine analyzers are sensitive to a "dirty" sample; which can cause improper measurement and increased maintenance on the instruments.	EPA Building chlorine analyzers sampling system, outside near still 2 control room.	Miscellaneous
19385	Change to allow KF connections on check/relief valves on Lasers 6	Change PID drawings to allow KF connections on check/relief valves on grid laser 6 in addition to existing pipe and parallel threads. Approve the use of either SS hard tubing and/or poly tube as acceptable as long as tubing is 1/2" size minimum. Allow the use of other check valves with threaded, tubing, or KF connections as long as cracking pressure of 1 psig is attained. Custom check valve designs will meet requirements under TA-507. Allow minor modifications to mounting panel as needed to accommodate mounting the valves if necessary or allow valves to be suspended by hard tubing.	Due to the weekly frequency of cleaning these valves, the stainless steel threads on the fittings have been galling causing delays. The flanges will be easier to service, will save time, and will eliminate possibility of galling during maintenance activities.	Laser Welder 6	Components
19386	IFBA Oven 3 TAC3 Solenoid Valve Replacement - Door Open / Close	Replace obsolete / failing nitrogen solenoid valves on IFBA Oven # 3 used for door open / close.	The existing valve MFG, Humphrey, sold the product line to Control Line Valve. Per Control Line Valve, no functional changes have been made to the valve.	Vacuum Oven #3, IFBA	ISA-12 IFBA Fuel Rod Manufacturing
19387	ADU Men's Change Room Smoke Detector to Heat Detector Changeover	With this CCF, we will be converting all smoke detectors to heat detectors. One heat detector will be relocated to the smoker's lounge where there is currently no fire detection installed.	There have been a multitude of smoke alarm activations of the ADU men's change room smoke detector. The circuit currently contains both smoke detectors and heat detectors. Due to the large number of "false" alarms this smoke detector should be replaced with a heat detector.	ADU Men's Change Room	Grounds
19395	Add Isolation Valve to Line 5 Scrubber Slab Tank Level Flush DI Water Line	CCF-19142 automated the manual flush capability of the scrubber slab tank level indication port. A single ball valve was replaced with a ball valve in parallel with a solenoid valve. While there is a valve upstream that allows the DI water line to be locked out, it includes several branch lines that do not need to be locked out during scrubber slab tank maintenance	This issue was discussed with Operations and it was determined that the LOTO for the scrubber could use the valve further upstream for the short term, but it would be necessary for the long term to add a valve to isolate only the flush line.	Line 5 Scrubber Slab Tank Level Indication Port DI Water Flush	ISA-03 ADU Conversion
19396	TPBAR X-Ray Control System Upgrade	The scope of this project is to remove the GE PLC control system and replace it with the current plant standard Allen Bradley PLC/HMI control system with new AB Servo motors.	Current GE control system is obsolete.	TPBAR	Grounds

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		Project does not make any modifications to processes, systems, or components that contain, measure, handle, transport, process, or secure Uranium in any form.			
19400	IFBA Chiller No. 2 Installation	Replace IFBA Chiller #2 with new chiller. Previous chiller demo is covered under CCF-19305. This CCF replaces IFBA Chiller #2 with a Carrier Model. The Compressor is on a VFD. The existing pad from the old chiller will be expanded for the new chiller to sit on.	IFBA Chiller #2 has failed and the plant is currently operating on a temporary rental chiller.	IFBA Mechanical Room	ISA-14 IFBA Processing
19406	Install heat trace on Process Water Supply piping to new Boiler House #2	Install heat trace on Process Water Supply piping to new Boiler House #2 Design and installation per FSS-019 - Columbia Plant Process Freeze Protection, Heat Tracing Specification	Per plant standards, to mitigate potential for freezing and to satisfy a post-start action for the Boiler House #2 Project.	Boiler House #2	Grounds
19408	IFBA Torit Plant Air Bleed Off Valve Install	This project is to install a 1/2" drop leg with 1/2" ball valve on the main plant air supply line downstream of the main shut off valve, prior to supply airline splitting to the IFBA Torit.	This will allow operation to be able to bleed off compressed air more safely and easily.	IFBA Torit Plant Air Line	ISA-01 Plant Ventilation System
19410	New Boiler Enhancements	A valve and a bleed will also be installed on the feedwater lines feeding each Boilers' Economizer for the purpose of double block and bleed isolation for feedwater. A 1" conditioning or warm-up line will be installed from the main steam header on the west end of the new boiler house by-passing the 8" plant steam tie-in valve to the plant steam. The by-pass line will allow steam to be valved into the plant steam pipe in a controlled and limited manner after a shutdown to allow gradual heat-up of the plant steam piping to the plant. Phase 1 - Boiler #1 Economizer Isolation Valve and Bleed Valve; Phase 2 - Boiler #2 Economizer Isolation Valve and Bleed Valve; Phase 3 - Conditioning Bypass Line and Valve. This modification will not affect a process that may contain, measure, handle, transport, process, or secure Uranium in any form	Given the temperature and pressure of feedwater to the economizers, dual isolation and bleed is required but only single isolation was designed and installed for feedwater going to the economizer. Currently the process is to crack the 8" Gate Valve to slowly send steam to the plant which is not ideal. Cracking the 8" valve causes the valve to be at risk of steam cutting. Conditioning lines like this will also prevent water hammer from sudden, rapid introduction of hot dry steam into a cold pipe.	Boiler House #2	Grounds
19411	Sea-land Container Removal	This CCF will remove the following Sea-land containers from site per procedure CA-022: C18 C20 C31 C32 C33 C37 C39 C43 C51 C58 C61. No SNM systems are affected as a result of this change.	Eliminate environmental hazard.	Outside Plant Grounds	Grounds
19413	Remove Test Ports for Conversion Line #2 Calciner Scrubber	This CCF will remove the test port spool pieces from the off gas scrubber inlet pipework, off gas condenser & flapper valve pipework, and the scrubber outlet pipework. Replacement spool pieces and associated flanges will be field fit to length and installed in place of the test port spool pieces.	The removal of the test ports will eliminate the buildup of material in the pipework, which requires additional rod out time during line cycles.	Conversion Calciner line #2	ISA-03 ADU Conversion
19414	Remove Test Ports for Conversion Line #4 Calciner Scrubber	This CCF will remove the test port spool pieces from the off gas scrubber inlet pipework, off gas condenser & flapper valve pipework, and the scrubber outlet pipework. Replacement spool pieces and associated flanges will be field fit to length and installed in place of the test port spool pieces.	The removal of the test ports will eliminate the buildup of material in the pipework, which requires additional rod out time during line cycles.	Conversion Calciner line # 4	ISA-03 ADU Conversion
19417	APVIS TRAY STACKER FIX	Modify the lower cross beams on the filled side tray stacker to allow greater clearance for the needed vertical movement.	The current condition prevents the limit switch from being made properly which keeps the machine sequencing until an operator intervenes.	Columbia Fuel Fabrication Facility, IFBA Facility, APVIS	ISA-14 IFBA Processing

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CCF	Title	Description	Justification	Location	ISA ID
19420	Conversion Lines 1 & 4 Simplex Speaker Installation	Installing two (2) new Fire Protection Speakers on the conversion side of the UF6 bay wall. One between conversion lines 1 & 2 and the other between conversion lines 3 & 4.	Investigate need for increasing voltage to existing speakers or adding additional speakers as appropriate.	Conversion Line 1	Grounds
19423	IFBA Coater 1, 2, 4, 5 & 7 Roller Supports Modification	This modification to the upper roller supports will move the rollers away from the cathodes to the center space between cathode and top of the Coater. Similar to CCF 18257 & 19113. Phase 1 - Coater 1; Phase 2 - Coater 2; Phase 3 - Coater 4; Phase 4 - Coater 5; Phase 5 - Coater 7	The new bearing arms are designed to reduce cathode contamination from loose ZrB2 material. In turn, the lower contamination levels promote a plasma with reduced arcing.	IFBA Coaters 1,2,4,5,7	ISA-14 IFBA Processing
19424	ADU Rod Lines 3 & 4 Machine Guarding	Install machine guarding on ADU Rod Lines 3 & 4.	Correct inadequate guarding identified during Global EHS Audit.	ADU Rod Lines 3 & 4	ISA-10 ADU Rods
19425	Access Doors on 4C/4D Containment System Duct.	Install four access doors on the 4C/4D ducts. In phase one the holes will be cut and a temporary cover installed. Phase 2 will remove the temporary covers and install permanent ones. The duct integrity will be verified after each installation is complete.	Access Doors are needed to aid in the inspection and cleaning of the ducts.	4C/4D ducts	ISA-03 ADU Conversion
19428	Replacing Perchloroethylene (PERC) and Kerosene in SOLX with Dodecane	SOLEX uses perchloroethylene (PERC) in SOLX I and kerosene in SOLX II as the diluent for the solvent mixture with tributyl phosphate (TBP). PERC can no longer be used on site due to restrictions from our environmental permit and therefore is being phased out. Dodecane has been selected as the replacement chemical as it can be used onsite without restriction and the density allows a greater concentration of TBP to be utilized in solution than kerosene. While PERC was heavier than water and was injected at the top of SOLX I, dodecane is lighter than water and will be injected at the bottom of SOLX I requiring a piping and control change. Kerosene is also lighter than water and so no physical system changes will be required in SOLX II to transition to dodecane. The current system parameters for releasing the raffinate will assure adequate system function.	Dodecane is used in the Plutonium Uranium Redox Extraction (PUREX) process which chemically functions similarly to the SOLX process and SOLX II has demonstrated that the upward flow works for solvent extraction and stripping.	SOLX I and SOLX II	ISA-07 Solvent Extraction
19429	Replace solids collection tank, upper conversion piece, lower conversion piece, and pump on conversion line 1	Replace V-119 system. The project will include the following phases: 1. Install pressure transmitter. 2. Install VFD controls for pump. 3. Install the tank, pump, flow transmitter, and piping 4. Install flow transmitter on DI water line to decanter.	Reduce down time associated with clogging in the V-119 tank	conversion line 1 on calciner platform	ISA-03 ADU Conversion
19430	Addition of E-Stops for Abar Furnace	Install Local and Remote E-Stops for Abar Furnace. The remote E-stop will be located at north wall entrance.	Greenbook 72405 issued to install E-stops	Abar Furnace in Grid Furnace Area	Components
19431	Install permanent Shower/Eye Wash Station in Boiler House #2	This CCF will install a permanent Shower/Eye Wash Station in Boiler House #2. Water source will be from the city water system (potable). The Shower/Eye Wash Station will also be installed with an anti-scalding valve. This modification will not affect a process that may contain, measure, handle, transport, process, or secure Uranium in any form	According to response section of the SDS for chemicals stored in Boiler House #2, a shower and eyewash station is needed.	Boiler House #2	Grounds
19432	Add Incinerator Filter Houses HEPA Filters Differential Pressure readings to Safety PLC	Add Incinerator Filter Houses HEPA Filters Differential Pressure readings to Safety PLC. This will include passing this signal to the BPCS for trending and logging.	Trending of the differential Pressure will allow us to better monitor the filter loading and adjust our maintenance of these filter so we can maintain them more efficiently.	SIS Panel by the Incinerator	ISA-01 Plant Ventilation System

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19433	SURE Project Punchlist Items: Modify fixed ladder #83 to meet OSHA Standard § 1910.23	The ladder will be reworked to meet § 1910.23(d)(2)	The ladder modification is required to meet commitments.	Ladder is on south side conversion area scrap cage liquid waste storage columns platform.	ISA-11 Scrap Uranium Processing
19438	S-1030 Pack Section Cover Rigging Frame	S-1030 Pack Section Cover Rigging Frame "Lid Rigging Frame" No SSCs are impacted and no new SSCs are planned. This change does not constitute a modification to a processes, systems or components that contain, measure, transport or secure Uranium in any form. Therefore, per TA-500, the RAF-104-10 form is not required.	Rigging of the lid currently requires input and oversight from a qualified rigger due to the use of nonstandard components and off centered weight distribution (integrated solution pipe header and spray nozzles) to lift the scrubber pack section cover.	S-1030 Elevated Maintenance Access Platform	ISA-01 Plant Ventilation System
19440	THK Linear Bearing Number Update	Update the bearing designation in MAPCON to account for the manufacturer's model reorganization.	The original model bearing utilized in the design is no longer available;	CFFF - General - ZAP is for the example change	ISA-14 IFBA Processing
19441	Installation of stop to Big Joe for IPSEN Furnace	A stop was made out of stainless steel tube steel and will be attached to the base of Big Joe, which is used to load and unload baskets from the IPSEN furnace.	Add a fixed stop to prevent overtravel into the furnace.	Grid area	Components
19443	East Lagoon - Chem Lab Drain Reroute	Some Chem Lab sinks currently drain into the Process Sump, a potential flow path of uranium. This flow path will be rerouted into a Contaminated Drain.	Chem Lab sinks should drain to Contaminated Sump so the Process Sump is not exposed to unnecessary contamination.	Contaminated Sump	ISA-15 URRS Wastewater Treatment System
19446	East Lagoon - Reroute of Additional East Lagoon Inputs	The remaining inputs to the East Lagoon need to be rerouted to suitable destinations. CCFs 19442, 19445, & 20092 also address some inputs to the East Lagoon. Phase 1 - Relocate Panel for MX-1110; Phase 2 - Relocate Panel for P-1110A; Phase 3 - Relocate Panel for P-1110B; Phase 4 - Install LLRW Pumps & Piping; Phase 5 - Demo NaOH connection; Phase 6 - Install T-1110 nozzles for PSV relief lines; Phase 7 - PSV-1102 from Still #1 reroute; Phase 8 - PSV-1178 from Still #2 reroute; Phase 9 - T-1187 & T-1189 Demoed; Phase 10 - Abandoned lines at East Lagoon capped; Phase 11 - 1109 dike install; Phase 12 - 1109 dike floor coating install; Phase 13 - 1109 dike sump pump P-1109C install; Phase 14 - 1109 dike pump P-1109D install; Phase 15 - Install insulation and heat tracing as needed	With the removal of the East Lagoon, drain lines and flow paths need to be rerouted to accommodate a new destination.	East Lagoon, Outside URRS	ISA-15 URRS Wastewater Treatment System
19447	IFBA Coater Dust Cup Redesign	Redesign coater bearing dust cup to allow installation / replacement without disassembling pin-roller assembly. NOTE: All drawing updates are completed under TDR-0003370, linked to this CCF in Related Documents.	Reduce tooling changeover time.	IFBA Coaters	ISA-08 Pelleting
19448	Line 5 grinder splash guard adjustment	This CCF will add lexan pieces to the both sides of the line 5 grinder hood to further prevent splashing outside of the hood. This CCF will also allow use of clear plastic vinyl matching the other grinder line splash guards, cut to fit, to close gaps around moving parts.	Excessive splashing creates higher airborne contamination.	Grinder Line 5	ISA-08 Pelleting
19449	Remove S-974 and supporting subcomponents, reroute suction to duct heater H-974, filter FL-	Demo the S-974 Scrubber and the FL-10A Filter House and FN-10A Fan. Reroute the suction ducting for both to the H-974 Duct Heater which will then pass thru the FL-973 Filter House and FN-973 Exhaust Fan. Adjust VFD for FN-973 as needed to balance system after	The Chemical Laboratory Scrubber S-974 has been deemed unnecessary for Environmental Control.	Chemical Roof Lab Section	ISA-01 Plant Ventilation System

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	973, and fan FN-973. Remove Filter FL-10A and all downstream components, reroute suction duct from System 10A to existing duct for duct heater H-974, filter FL-973, and fan FN-973.	scrubber removal. Phase 1 will comprise of all work needed to ensure that the ventilation system is functional post modification. Phase 2 will be the balance of work needed to complete demolition and installation of components and systems that are not directly required for operation of the ventilation system. i.e. removal of demolished equipment, rework open holes in platform grating, supply/drain piping removal no longer required, demolished conduit. (Note: no roof penetrations will be altered) Phase 3 will be installation of two new viewports to facilitate future duct work inspections. PLC programming required to reflect deletion of components associated with S-974.			
19451	UN Tanks Gamma Monitor increase Alarm Trip Setting from 6 g U235/L to 7g U235/L	Uranyl Nitrate Gamma Activity monitors will be recalibrated to a new alarm set point of 7g-U235/L. The trip points in the GE "UN_Bulk_Storage" program will be changed from 6 to 7. The SOLX Wonderware screen description for the UN105 A/B in alarm will change from 6 to 7. The Gamma monitors at the UN tanks will require Technicians to recalibrate and verify.	Nuisance Alarms are distracting SOLX Operations. CSE will be updated for the new alarm trip.	UN Pad and SOLEX control room.	ISA-02 Uranyl Nitrite Bulk Storage Tanks
19452	Steam Trap Part Number Substitution	A storeroom stock request form will be submitted with this CCF to reference the correct SRO number in the storeroom.	The existing steam trap is no longer available.	URRS above dirty dissolver	ISA-04 Safe Geometry Dissolver
19453	Replacement of obsolete Hall Effect Sensor for IFBA Pellet Transfer Station gripper.	The Hall Effect switches used in the IFBA Pellet Transfer Station gripper are obsolete. This will provide for a like-kind substitute of the same form, fit, and function.	Existing switches are obsolete and no longer available.	IFBA Pellet Transfer Station	ISA-12 IFBA Fuel Rod Manufacturing
19454	Line 5, 6, and 7 Grinder Wheel Rinse tube change	Current rinse tube limits adjustability for rinsing the grinding wheel, as a result we are getting either too much flow or not enough flow, both resulting in inadequate rinsing. New design will fix this issue.	Rinse tube isn't rinsing appropriately cause sludge at the pellet/grinder interface.	Line 5, 6, and 7 Grinders	ISA-08 Pelleting
19455	Pellet Furnace 1C Entrance Pusher Plate Modification	Replace current Pellet Furnace 1C aluminum entrance pusher plate with a stainless steel plate approximately 1" longer. The design will be similar to Furnace 1A entrance pusher plate.	Current entrance pusher plate is worn and boats on the conveyor are getting stuck behind the plate when the pusher pushes a boat into the furnace.	Pellet Furnace 1C	ISA-08 Pelleting
19456	Replace Obsolete URRS Drum Scale	Current Mettler-Toledo Scale is obsolete and will be replaced with the current model Mettler Toledo Scale. The Display and the platform (load cells) will be changed.	The existing scale is obsolete and spare parts are not available	Drum Scale in URRS, UF6 Bay.	ISA-13 Low Level Radioactive Waste Processing
19457	Grinder Line Polycord Conveyor Path Guide Mod	Change the shape of the polycord conveyor path guides to help control the pellets during transfer upsets. Lines 1 through 5 will each be modified under its own phase.	Currently have 3 different conveyor path guide shapes; grinder line 6's appears to do the best at keeping the pellets in the track. This CCF will update the other lines' guides to that shape.	CFFF, Chemical Side, Grinder Lings 1-6	ISA-08 Pelleting
19459	Chem Lab Pellet Crusher Air Sampler #47 Relocation	Relocate 1" airline in Chem Lab for HP flow meter air sampler # 47.	Allow adequate room to install new pellet crusher.	Pellet Crusher	ISA-18 Laboratories

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CCF	Title	Description	Justification	Location	ISA ID
19461	Repower Gamma Scanner #4 Loads from existing Panelboard RP-10D	GS#4 loads currently powered from RP-10E will be re-powered from panel RP-10D. There are five (5) circuits identified as needing to be repowered.	Existing panelboard RP-10E will need to be removed in order to install the new rod scanner replacing GS#3.	Rod Inspection Area	ISA-10 ADU Rods
19462	Substitution of SCR power controller for Pellet Line 5 Blue M Oxidation Oven.	This CCF establishes an alternate storeroom item for replacement of the Pellet Line 5 Blue M Oxidation Oven SCR power controller. It is based on Major Modification CCF #19439.	The SCR power controller is obsolete and no replacement is available for the one currently in operation.	Pellet Line 5 Blue M Oxidation Oven	Grounds
19463	Speaker 524 Adjustment in ERBIA Dry Room	With this CCF, we will be adjusting the volume level to speaker S-524.	Per EWO# 849676 IFBA Line 5 operators reported that they could not hear the announcement when the vibratory bed is running. The bed creates too much background noise.	IFBA Stairwell leading from the Production floor to the Men and Women's change room	Grounds
19464	Incinerator Filter House FL-948A/B Pre-Filter Support Guard	Project is to create pre-filter support guard (approximately 24"X24 - Thickness <1/4") out of 300 series stainless steel metal panels. All dimensions shall be field verified to allow both filters and support guard to fit in available slotted space. The support guard shall be installed on the downstream side of the filter.	The purpose of the pre-filter support guard is to provide a ridged support for the 24"x24"x2" pre-filters (STR#21230), to aid in maintaining the filter's structural integrity and prolong its differential pressure life.	FL-948A/B	ISA-01 Plant Ventilation System
19465	Part Number Change for the Conversion Decanter Bearing Housings	The part numbers for the decanter bearing housings are no longer available from the manufacturer. This CCF will assign an equivalent part number/manufacturer. The part number has been changed on tooling drawing 360F26EQ10	Current part is no longer available.	Conversion Decanters	ISA-03 ADU Conversion
19466	VFS 1 & 2 Leybold Series Holding Pump Model Number Change	Project is to approve use of an upgraded pump for Leybold series. Both model pumps shall be approved to be used on VFS 1 & 2.	The manufacturer has changed the model# VFS 2 pump model is failing.	VFS 1 & 2	Components
19467	Outlet (UPS) In Grid Area Network Cabinet	Installing electrical service (uninterruptable power supply) to a newly installed network cabinet in the Grid Area.	Per EWO# 877059 Information Technology has installed a new network cabinet in the Grid area on the South wall and need UPS power installed.	Grid Area south wall	Components
19468	Develop Solid Model of Existing IFBA Coater Cathode Assembly and Resolve Discrepancies	Create a Solidworks model which represents the latest and greatest cathode design and resolve discrepancies. Incorporate previously uncaptured changes, eliminate parts and features on parts that are no longer being used or that no longer serve a functional purpose. -3D model was created which has exposed some imperfections not previously addressed or observed in the 2D model. -Eliminate type 2 cathode, no longer in service - Eliminate ground shield button standoffs from future fabrications as they are no longer used (use existing parts in field as is) -Eliminate ground shield upper bar as they are no longer being used -Minor corrections on dimensions to improve fitment. -Fully document the use of tapered side target retainers -Absorb the target retainer parts from TD001583 into drawing package 802F12EQ27. TD001583 will remain a tool drawing but will only retain the adjusting tool portion (Note: Changes to TD001583 managed under TA-507). No physical design changes are being made so all existing TD001583 inventory or parts in the field can continue being used.	Improve success of future improvements, increase accuracy in documentation, and simplify some parts and the assembly drawing.	Any coater or rebuild area	ISA-14 IFBA Processing

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CCF	Title	Description	Justification	Location	ISA ID
19471	Storeroom replacement of obsolete Dewpoint sensor and transmitter for Cylinder Recertification Building.	Establish new storeroom item for replacement of obsolete sensor and associated transmitter.	Sensor is obsolete and designated storeroom replacement is not compatible with associated transmitter.	Cylinder Recertification building.	ISA-09 UF6 Cylinder Wash
19472	Incinerator Mill Sorting Screen Options	Project is to create a couple of sorting screens (perforated plate) as optional use, with smaller diameter holes than the current 1" hole. The new design sorting screens will be added to drawing 304F06EQ02 to allow optional use.	The 1" hole is allowing metal to make it through the sorting screen to the fitz mill and damaging the hammers. The smaller holes will help catch metal that are big enough to damage the hammers prematurely.	Incinerator Fitz Mill Hood	ISA-13 Low Level Radioactive Waste Processing
19473	IFBA Torit Poly-Pak Ventilation Hood Modification	Rearrange IFBA Torit polypak ventilation hood to have access door facing north instead of east.	Per operation there is little to no room at the current access door location. There are many bump hazards for operators checking the poly pack. Relocating the access door will minimize the hazard.	IFBA Torit	ISA-14 IFBA Processing
19476	Pressurized Hot Water Lance at Cylinder Wash Lance Design Modifications	Enable alternate lengths and potential angle variations of cylinder wash lance to determine best design for optimal internal cylinder cleaning.	Current lance needs to be optimized for better internal cylinder cleaning.	UF6 Bay, Cylinder Wash	ISA-09 UF6 Cylinder Wash
19479	Camera Inspection Port Additions to Contaminated Standpipes to Contaminated Sump	This modification will add 2 camera inspection locations to various standpipes that go to the contaminated sump in the plant. One location will be a standpipe in the MAP Room that serves the Fitness Center Showers. The second location will be a standpipe near the UF6 Bay that serves the S0974 Chemical Lab Fume Scrubber and 2nd Floor Men's Showers and Sink. Phase 1: Camera Port for Standpipe in Maproom; Phase 2: Camera Port for Standpipe in UF6 Bay. Per NCS, the Contaminated Sump (and, by extension, any stream that feeds it) is a non-SNM operation as documented in LTR-EHS-10-112, Revision 1.	These camera inspection ports are being added for the underground piping surveillance program.	Maproom and UF6 bay	Miscellaneous
19480	Pelleting Roll Compactor Guide Bar Material Change	The pelleting line 4 roll compactor guide bar material is currently ANSI Type F2. ANSI Type F2 is no longer readily available so the part will be changed to CPM 10V or D2 as an alternative.	Type F2 is a water-hardened alloy steel with excellent abrasion resistance. CPM 10V also has excellent wear resistance which will work well in this application. D2 tool still will also be a good alternative but is not as resistant to wear as CPM 10V so is just being listed as an alternative.	Roll Compactors on Pelleting Line 4.	ISA-08 Pelleting
19481	EDM Replacement	Replacement of the Mitsubishi FX-20 EDM with new Mitsubishi MV2400-ST EDM. The FX-20 machine will be removed and disposed of. The new MV2400-ST will be installed in the same place as the old machine. For EDM removal/installation the tooling area wall panel will have to be opened to allow for machine pass through. The new machine will require the same utilities for power and compressed air that the old machine used. Environmental requested a plan for disposal of dielectric fluid in the machine. After discussion with the area, it was determined that the dielectric fluid was DI water, which has been properly disposed of by the Area. Installation of the new machine requires disconnect and	Old Mitsubishi FX-20 EDM is broken beyond repair. Production requires the use of the new MV2400-ST EDM to meet demand.	Arrangement bays 12-13 & BB-A shown on drawing 500F04AR03,04 R11	Components

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CCF	Title	Description	Justification	Location	ISA ID
		reconnect of Air and DI water. The connections in the room will be reused so no changes to the drawings are required. Drawing number 510F20PI01, 03 and 510F33PI04, 01 were not updated as part of this package.			
19482	Alternate piping configuration for the scrap uranium recovery equipment	Alternate piping configuration for the scrap uranium recovery equipment Currently the piping includes a pressure indicator, PI-1032-3. It is not an SSC, is not used for control, and its output is not logged or used by the operator. This project will document an alternate piping configuration that does not include this pressure indicator. The existing design including the pressure indicator will also remain valid.	The existing PI has failed and we do not have a replacement. The equipment can function safely and effectively without this instrument.	scrap cage	ISA-03 ADU Conversion
20001	Enable Distributor Nozzles in Deionized Water Anion Tanks T-1362A/B to be Constructed from Stainless Steel in Addition to PVC	Enable Distributor Nozzles in Deionized Water Anion Tanks to be Constructed from Stainless Steel in Addition to PVC. No CSEs are impacted. This process, system, or component does not contain measure, handle, transport, process, or secure Uranium in any form.	PVC distributor nozzle inside DI Water Anion Tank T-1362B became warped during a misdirected steam flow event. Stainless Steel is compatible with the hot caustic that runs the distributor nozzle. Stainless Steel has proven to be an effective nozzle material of construction in T-1362A.	DI Water Building	Grounds
20002	Substitution for FL-229 Filter Bag Housing Nitrogen Blow Back Solenoid Valves	Replace current defective ASCO 1/4" threaded nitrogen solenoid valve (Item# EF8262G220-120V) with new ASCO 1/4" threaded nitrogen solenoid valve (Item# EF8262H220-120V). These solenoid valves are used for the nitrogen exhaust for the Filter Bag Housing located on the Hot Oil Dryer. The valves are similar and are the direct replacement.	Solenoid valve was upgraded by ASCO manufacturer.	Filter Bag Housing nitrogen exhaust line	Grounds
20003	Oil House Storage Rack Installation	This CCF will install oil drum and pallet racks in the Oil House.	5S & safety improvements.	Oil House	Grounds
20004	Machine Shop Area Modifications	This CCF is to set the requirements for a Pre-Approved Level 2 Modification that allows future work to be performed in the Machine Shop production area with an appropriate graded level of review and approval. The following drawings have been clouded to show what is included in these bounds:500F04AR08 Sheet 2 and Sheet 3 and 500F04AR09 Sheet 1 and Sheet 4. These drawings are marked for illustrative purposes only and have been attached to this CCF.	The CFFF configuration management process allows for an appropriate graded level of review and approval for certain types of modifications.	Machine Shop	Grounds
20006	Device Substitution P/N:OSE-SPW replacing P/N:OSE-HPW	Device substitution for (2) emitters (E-5, E-4) from a high power beam (OSE-HPW) to a standard power beam (OSE-SPW) within the PE lab. The part substitution poses no changes to the original overall design or functionality of the existing fire alarm system. The Fit-Form-Function will not change. Only the intensity of the emitter's beam will differ from high power to standard power.	Currently, we are troubleshooting the Open-area Smoke Imaging Detection (OSID) devices within the PE lab. Due to nuisance trouble signals to the fire alarm panel, the OSID manufacture recommends that we substitute (2) emitters (E-5, E-4) from a high power beam (OSE-HPW) to a standard power beam (OSE-SPW) to mitigate the issue. The part substitution poses no changes to the original overall design or functionality of the existing fire alarm system. The Fit-Form-Function	PE Lab	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
			will not change. Only the intensity of the emitter's beam will differ from high power to standard power.		
20007	Move/Replace Pellet Line 5 Centrifuge jib	The pellet line 5 Centrifuge bowl moved approximately 6" as a result the current Jib does not reach the center of the bowl. This change will move the jib stand closer so that it can be used again. This will require filling and creating new anchors in the floor. The Jib for line 6 was broken during the line 5 upgrade, the line 5 jib was then moved to line 6. This modification will include purchasing a new jib for line 6. Max Approximate weight to be lifted is 200 lbs., Skyhook jibs are rated for 500 lbs.	This is a safety issue for operations attempting use this hoist.	Pellet Line 5 Grinder Centrifuge	ISA-08 Pelleting
20008	Conversion Line 4 Dryer Condenser Exhaust Fan Inlet Ventilation Pot Addition	The ADU dryer DR-425 off-gases go through bag filter FL-429 and condenser CO-426 to fan FN-427. The liquid condensed from the gas is directed to tank V-412. Currently some of the condensed liquid is being blown over to the fan when the bag filter is pulsed with nitrogen. The liquid then drips out of the fan housing onto the floor. The pipe between the condenser and the fan is currently two inches in diameter. This modification will install a six inch diameter vertical ventilation pot between the condenser and the fan. The gas/water will flow into the ventilation pot near the top. Gas will then flow out of the top of the pot to the fan and water will flow out of the bottom of the pot to tank V-412. This modification will also remove the unused (and unnumbered) surge tank that is located between condenser CO-426 and vessel V-420. This small tank was installed several years ago as part of another project but has never been used and it is not needed.	Currently water is being blown over to the fan. The water then drips out of the fan housing onto the floor. This will slow the velocity of the gas, cause a change in direction of the gas and prevent liquid from reaching the fan.	Conversion Line 4	ISA-03 ADU Conversion
20009	Replacement of Bar Code Reader on Rod Weigh A	This CCF is to replace the current Prosilica style bar code reader on Rod Weigh A with a Keyence SR-2000 style reader. The mounting bracket and hardware will also change with the new camera. A new group has been added to the drawing to depict these changes.	The current video bar code reader on Rod Weigh A is obsolete. The area process engineer has already completed the qualification for the new style scanner, and it has been attached to the CCF. The new bracket will mount to the current 8020 that is installed, so there will be no additional changes needed for the structure.	Rod Weigh	Components
20010	Condensate Heat Exchanger Removal and Line 4 Steam Tracing Condensate Upsizing.	Removal of heat exchanger HX-1410, and upsizing of Line 4 steam tracing condensate collection line as part of the Conversion Piping Replacement 2020. Phase 1 - Demolition of HX-1410 and associated piping. Upsizing of piping junction between tie points D, E, and F. Phase 2 - Upsizing of piping between tie points F, A, B, and C. CCF was demoted on March 9th, 2020 To update drawings and CCF to incorporate contingency plans. Work split into 2 phases.	Heat exchanger HX-1410 needs to be removed, and the steam tracing condensate line from Line 4 upsized to reduce flash steam. Flash steam is escaping the sump in the east trench and causing a safety concern.	In East Sump beneath Line 3 and 4 vaporizers.	ISA-03 ADU Conversion
20012	Resurface T-1187 dike containment with chemical resistant coating	The T-1187 Containment dike floor surface is eroding and needs to be resurfaced. Remove section of dike between T-1 & T-2 that is unused. This CCF does not affect any SSC's. This configuration change does not modify any process, system, or component that contains, measure, handle, transport, process, or secure Uranium in any form	T-1187 Containment diked floor area is in a degraded condition. And unused dike wall.	URRS outside tank farm	ISA-15 URRS Wastewater Treatment System

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CCF	Title	Description	Justification	Location	ISA ID
20013	T-4 Ammonia Density Meter Replacement	Replace the existing density meter on the T-4 ammonia storage tank with a new model. This modification will not affect a process that may contain, measure, handle, transport, process, or secure Uranium in any form therefore no RAF-104-10 is required.	Existing meter is obsolete and does not function properly.	URRS Outside/Tank Farm	ISA-06 Chemicals Receipt, Handling and Storage
20014	CLN3 Steam Chest 3B Repair	Replace CLN3 Steam Chest 3B lower actuator attachment bracket as shown on revised drawing.	The existing bracket has been damaged and will be replaced with an improved and reinforced bracket.	CLN3 Steam Chest B	ISA-03 ADU Conversion
20015	DI Water A Unit Blind Flange Installation	Install blind flanges on the DI Water A Unit in the following locations: - 2.5" main water feed pipe into T-1361A (cation vessel). - 1.5" sulfuric acid pipe entering the back of T-1361A. - 1" caustic pipe entering the back of T1362A (anion vessel).	Installation of blind flanges will safely isolate the system from running processes.	DI Water A Unit	Grounds
20026	Calciner 1st Discharge Screw Torque Limiter Replacement	Replace obsolete Boston Gear torque limiter with Dalton Gear Company torque limiter.	Torque limiter from Boston Gear is obsolete.	Calciner Lines 1, 3, 4 & 5	ISA-03 ADU Conversion
20029	Solenoid Valve Replacement on Line 6 Bottom End Plugger	This CCF is to replace the current 1/4" plugger valve solenoid with a 1/2" model and added subbase P. The current 1/4" clamp valve solenoid and subbase is being replaced with a 1/2" model and subbase . New mufflers will also be added to both solenoids.	The solenoid valve size is being increased from 1/4" to 1/2" in order to increase the flow to the equipment. There is currently a timeout that is occurring because of the limited flow. Mufflers are also being added to dampen the noise from the equipment.	Non Fuel	Components
20030	Add Guarding to Oxide Coater 1 Exit Ramp	This CCF is for the addition of guarding to the exit ramp of Oxide Coater 1.	When the tubes exit the oven, they are extremely hot. This guarding will serve as a barrier to protect operators from contacting the tubing.	Oxide Coater 1	Components
20031	Add Guarding to Oxide Coater 2 Exit Ramp	This CCF is for the addition of guarding to the exit ramp of Oxide Coater 2.	When the tubes exit the oven, they are extremely hot. This guarding will serve as a barrier to protect operators from contacting the tubing.	Oxide Coater 2	Components
20033	Install a Nipple on the Bottom Flange of the P-06 Discharge Valve at Cylinder Wash	Install a nipple on the bottom flange of the P-06 discharge valve at Cylinder Wash.	The nipple on the bottom flange of the P-06 discharge valve at Cylinder Wash will facilitate access needed for URRS operators.	Cylinder Wash	ISA-09 UF6 Cylinder Wash
20034	Installation of dew point monitor(s) for plant instrument compressed air lines	Install dew point monitors for the plant instrument compressed air lines.	Provide means of monitoring dew point in the instrument air lines to prevent moisture from affecting downstream equipment.	Compressor room 2 and adjacent outside receiver tank area	Grounds
20035	Repair of Process Cooling Water Piping in Conversion	Th Phase 1 of the CCF. Phase 2 will be installing a permanent spool piece and removing the piping that has the growth. The spool piece will be approximately 2' in length and have socket weld or slip on Class 150 flanges installed. This modification will not affect a process that may contain, measure, handle, transport, process, or secure Uranium in any form. ADULEAK-102 (CSE-3-H, ISA-03) is a piping integrity SSC for the ADU Conversion Area that is in place to prevent water/solution leak to protect the recycle feeder. Upon walkdown,	This tee clamp device is needed to prevent a significant water leak from occurring in the conversion area. The permanent repair will be performed at a time when the system can be taken offline and drained. Phase 2 is the permanent repair solution.	Line 4 Conversion at the main aisle between conversion and pelleting.	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
		this section of piping for the SSC is not applicable due to the fact a water leak from this section of pipe for the process cooling water system would never reach the recycle hood. Phase 1: Temporary Pipe Tee Clamp; Phase 2: 2' Spool Piece Install			
20036	Replacement of Laser Welder Moisture Analyzers.	Replace the Panametrics Moisture Analyzer on Laser Welders 3-6.	Current analyzers are obsolete and technicians have only one working spare remaining.	Grid area Laser Welders	Components
20037	Ammonia Still Cooling Towers and Structural Support Frame Replacement	The project objective is to install two new Ammonia Still Cooling Towers including pumps and a new structural frame support. Each Cooling Tower piping will include the option to cool either Ammonia Still 1 or 2. Phase 1: The existing towers and frame will be demolished. Install new permanent structural frame, new cooling towers and any needed ancillary equipment to operate system in same relative location on a new structural frame. Validate new towers meet operational needs. Phase 2: Replace three existing cooling tower CT-1186 return & supply pipeline supports.	The cooling towers require replacement. The basins of both towers have experienced leaks and recently patched up. Temporary cooling towers planned to be installed under CCF 20057.	Ammonia Still 1&2 Cooling Towers	ISA-06 Chemicals Receipt, Handling and Storage
20040	IFBA Coaters - Cryogenic Pump Alternate Roughing Port	Project is to add a port and isolation valve to the cryogenic pump roughing line. Phase 1 - Coater 1; Phase 2 - Coater 2; Phase 3 - Coater 3; Phase 4 - Coater 4; Phase 5 - Coater 5; Phase 6 - Coater 6; Phase 7 - Coater 7; Phase 8 - Coater 8	This will allow faster regeneration of the stalled pumps, potentially improving uptime on the Coaters.	IFBA	ISA-14 IFBA Processing
20041	IFBA Coater Water Skid Pressure Relief Valve Upgrade	Specify new upgraded pressure relief valves (PRVs) to replace current 1850 series PRVs.	The current 1850 series PRVs are obsolete. The 2700 series PRVs are the upgraded replacement.	IFBA Equipment Rm	ISA-14 IFBA Processing
20045	Conversion Line 4 Steam Chest 401A Lid Actuator Lever Modification	Redesign and modify the lid actuator lever on V-401A to make it stronger and prevent damage.	The current lever design was damaged on vaporizer 3B.	UF6 Bay at CLN4	ISA-03 ADU Conversion
20047	HF Offloading Piping Extension	Project is to install a 2" flanged spool piece, approximately 6" long, on the end of the truck offloading line.	Currently there is a 45 degree angled section that is causing issues when hooking up the driver's hose. The section is too short causing the piping to interfere with bolts to hook up the hose.	HF Pad	ISA-06 Chemicals Receipt, Handling and Storage
20048	Rod Weigh A Pivot Arm Modifications	The pivot arms on rod weigh a (assembly 33 and 34 on 1962F04) are going to be modified to ensure they are better secured to the shaft.	The old style pivot arms have issues remaining tight on the shaft, and cause issues holding the rod during transport. This change will decrease the likelihood that the arms can shift on the shaft since it will be held in place with a mounting plate verses a split collar.	Tube Prep	Components
20049	IFBA Coater Drum Guide Improvements	Modify design to make drum guides symmetrical to eliminate the possibility of installing in the incorrect orientation.	Prevent the possibility of damage to the drum guides during installation.	Coater Drum Guides	ISA-14 IFBA Processing
20051	Demo of Air Compressors in Compressor Room #1	This CCF will cover demolition of compressors, dryers, piping (air and cooling water), air receivers, and electrical in Compressor Room #1.	Compressor Room #1 is needed for a future project at the CFFF.	Compressor Room #1	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
20052	Incinerator Quench column and Absorber column spray nozzle material change.	Incinerator Quench column and Absorber column spray nozzle material change. revise BOM to include Hastelloy C276 as a material option.	Revise BOM to include Hastelloy C276 as a material option. the BOM currently calls for Hastelloy C22 that has become increasingly difficult to acquire.	URRS incinerator.	ISA-13 Low Level Radioactive Waste Processing
20054	Pellet Powder Lift Shaft Modification	Modify sprocket keyway slot depth to ANSI B17.1-1967, R1989 standards.	The current keyway slot depth is not of sufficient depth to assemble the sprocket onto the shaft.	Powder Lift Shaft	ISA-08 Pelleting
20055	GM 1 & 2 Roughing Pump Exhaust Filter Upgrade	Replace the existing exhaust filters for GM 1 & 2 with high capacity filters.	Due to furnace process changes there is increased vacuum oil vapor carry-over. Replacement of filter elements has been increased in frequency from 26 weeks to 2 weeks.	GM1 & 2 Exhaust Piping	Components
20056	Substitution CCF for O-Ring Gasket for Wash Vessels 1032A/B/C	The current seal being used with the wash vessel is of a different dimension and therefore a substitution in accordance with MCP-108139 could not be done. The vendor has approved the use of a rectangular type seal as another option that is readily available and not a custom seal that is difficult to fabricate. The new proposed seal is rectangular vs round and is PTFE (same as current).	To have a substitute seal that is more easily fabricated.	Scrap Cage Wash Vessel V1032A/B/C	ISA-11 Scrap Uranium Processing
20057	Temporary Ammonia Still Cooling Towers to Facilitate Permanent Replacements	Install two temporary Ammonia Still Cooling Tower skids. Phase 1: Install temporary power and pipe connections to install temporary cooling tower for Still 1. Phase 2: Install temporary power and pipe connections to install temporary cooling tower for Still 2. Phase 3: Validate temporary towers meet operational needs. Phase 4: After startup of CCF 20037(new replacement cooling towers), blank off pipe connections and remove temporary power. Remove temporary cooling towers. This change does not constitute a modification to a processes, systems or components that contain, measure, transport or secure Uranium in any form.	The cooling towers require replacement. The structural steel frame that supports the cooling towers is severely corroded. In order to replace the current towers and structural frame, a temporary set of cooling tower skids is needed to ensure continued operations during demolition and implementation activities.	Ammonia Still 1&2 Cooling Towers	ISA-06 Chemicals Receipt, Handling and Storage
20058	Modifying Piping to S-431 Scrubber Slab Tank's Eductors	The scope of this project is to modify the discharge piping from the eductor recirculation pumps (P-431C/D) and install a line that recirculates from the existing recycle supply to the decanter (D-407) back to the eductor on the south end of the scrubber slab tank. The piping which currently supplies the flow to the spray nozzles located on both sides of the Calciner vent line inlet to the scrubber slab tank will be modified to supply the eductor located on the north end of the scrubber slab tank.	The intent of this piping modification is to increase the velocity in the recycle loop in order to prevent the line from plugging.	Scrubber Slab Tank Conversion Line 4	ISA-03 ADU Conversion
20060	Modify Gasket Dimensions for V1032A/B/C	Modify the dimensions of the gasket for the vessel seal gasket for wash vessels V-1032A/B/C to provide a better seal. The current gasket ID is too large and causes issues with gasket staying in seal groove. Vendor provided data for ID was incorrect. This CCF is similar to CCF 20-056 which modified gasket dimensions.	Existing gasket has too large of an ID and does not fit properly in vessel seal groove.	Scrap Cage	ISA-11 Scrap Uranium Processing
20061	Storeroom replacement of obsolete fiber optic sensor for the rod line pluggers.	Establish new storeroom item for replacement of obsolete rod line fiber optic sensor (S/R #198400).	Sensor is obsolete.	ADU, IFBA and TPBAR Rod Line Pluggers	ISA-10 ADU Rods

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CCF	Title	Description	Justification	Location	ISA ID
20062	Helium Reduction Project	The CCF if for the modification of the ADU rod lines 1 and 2. The modification is to add tooling that will cap the chamber. The cap will prevent helium from leaking out into the atmosphere when the machine is not in use. Phase 1 - ADU Rod Line 1; Phase 2 - ADU Rod Line 2	Add tooling to the process that will prevent the loss of helium.	Seal welders on line 1 and 2	ISA-10 ADU Rods
20063	Replacement of Thermal Stability System "A" temperature transmitters.	Replacement of three temperature transmitters for Thermal Stability "A"	Existing transmitters are obsolete and technicians no longer have the instrumentation required to perform adjustments.	Thermal Stability Platform - System "A" (formerly MAP).	ISA-08 Pelleting
20064	Add Lifting Lugs to Incinerator Quench Columns	Add Lifting Lugs to Incinerator Quench Columns QT0942A, QT0942B, QT0942C	Add Lifting Lugs to Incinerator Quench Columns QT0942A, QT0942B, QT0942C to assist in removal and installation.	URRS Incinerator	ISA-13 Low Level Radioactive Waste Processing
20067	Substitution for SSC Pellet Grinder Line Bowl Lift	This CCF will allow substitution of Lifts for Pellet Line Grinder Bowls. Lifts to be used as substitution shall meet specification to the sky hook lift attached.	Grinder Line 3 sky hook lift friction brake has worn out. Grinder Line 1-5 uses similar lifts that are interchangeable. It is common for the manufacturer to upgrade lifts with minor improvement changes as well as to change part numbers so the identical part number is no longer available. Also, there are other manufacturing brand that maybe similar to this specification.	Pellet Grinder Line	ISA-08 Pelleting
20068	Replace obsolete Automatic Transfer Switch (ATS) Switch	Replace obsolete ATS switch 5ATS-4 with a current model. This change does not constitute a modification to processes, systems, or components that contain, measure, transport or secure Uranium in any form.	Existing ATS unit is obsolete and will be replaced with a current model.	ATS in Erbia Furnace Area	Grounds
20069	IFBA Coater 1 Vacuum Roughing Line Filter Replacement	Replace obsolete custom made vacuum roughing line filter with commercially available filter.	Part availability and vacuum system performance improvement.	IFBA Coater #1	ISA-12 IFBA Fuel Rod Manufacturing
20070	R53 Pellet Press Feed Chute Replacement	Replace current R53 Press feed chute(S/R#126092) that is a one piece cast part with a machined multi-piece construction (see attached GEA Process Engineering drawing DA7322000530).	Manufacturer has changed the designed from a one piece cast part to a machined multi-piece construction. PLN3 feed chute needs replacement.	Pellet Area	ISA-08 Pelleting
20071	Repair of Process Cooling Water Piping in Conversion	The Process Cooling Water Supply line in Conversion has an inactive leak near a Victaulic coupling. A clamping device will be used to temporarily house the inactive leak. This clamp will house the inactive leak to prevent any future water leak until a permanent repair can be performed. This will be Phase 1 of the CCF. Phase 2 will be installing a permanent repair. Phase 1: Temporary Pipe Tee Clamp; Phase 2: Permanent Spool Piece Piping Repair	This clamp device is needed to prevent a significant water leak from occurring in the conversion area. The permanent repair will be performed at a time when the system can be taken offline and drained. Phase 2 is the permanent repair solution.	Line 4 Conversion at the main aisle between conversion and pelleting.	ISA-03 ADU Conversion
20072	IFBA Rod Line 7 Cassette Handling Drybox Mirror Holder Replacement	Replace current mirror holders that mirror is glued to, with a holder that the mirror can slide in or out. Phase 1 - larger mirror holder (806F05EQ26 sheet 1); Phase 2 - smaller mirror holder (806F05EQ26 sheet 2). This change does not constitute a modification to a	The glue that Maintenance use causes the mirror to prematurely crack. Installing and removing the mirror is time-consuming.	IFBA	ISA-12 IFBA Fuel Rod Manufacturing

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CCF	Title	Description	Justification	Location	ISA ID
		processes, systems or components that contain, measure, transport or secure Uranium in any form.			
20073	Update the design of the chemical cooling tower to allow isolation of the cooling towers.	Update the design of the chemical cooling tower to allow isolation of the cooling towers. Adding isolation valves will allow the isolation of a single tower. Two additional 8" gate valves will be added to the cooling tower inlets.	This would allow for repairs in the future if a single tower is damaged.	outside north of tank farm	Grounds
20074	Steam Chest Vaporizer Structural Repair	The steam chest vaporizers on lines 2 and 3 that are used for heating UF6 cylinders, experienced a degraded condition of its concrete footings. This CCF is being created to issue a design and replacement for the concrete footings. These steam chest vaporizers are located in the east trench of the UF6 Bay. There will be a phase (4) for each steam chest vaporizer for lines 2 and 3. Phase 1: V-201B Steam Chest Vaporizer (Line 2); Phase 2: V-201C Steam Chest Vaporizer (Line 2); Phase 3: V-301A Steam Chest Vaporizer (Line 3); Phase 4: V-301B Steam Chest Vaporizer (Line 3)	The steam chest vaporizer concrete footings must be replaced for lines 2 and 3.	UF6 Bay East Trench	ISA-03 ADU Conversion
20075	Chem Lab Agilent Mass Spec Replacement	This project will remove and dispose the nonfunctional Chem Lab Agilent Mass Spectrometers and install a new Agilent Mass Spectrometers in the Chem Lab.	The Chem Lab has two Agilent Mass Spectrometers that were planned to be replaced in FY21. However, one of the Agilent abruptly stopped working and is unable to be repaired.	Chem Lab	ISA-18 Laboratories
20076	MAP & ERBIA Hydrogen Isolation	This CCF isolates Hydrogen supply to MAP and ERBIA, by disconnection the supply lines outside of the building.	MAP and ERBIA no longer use Hydrogen. Isolating the supply lines will prevent potential leaks which in turn will allow for safer operations.	Work will be performed outside of the building. Isolated Areas will be MAP (both sided) and ERBIA (whole area).	ISA-20 ERBIA
20077	Mistake proof connection of primary and secondary seal nitrogen lines on the calciners.	This project will modify the secondary nitrogen line. The fitting at the calciner will be a 1/2" x 1/4" tube connector. The tee in the nitrogen line will become a 3/8 x 3/8 x 1/4 reducing tee, and a short length of 1/4" tubing will be installed. Only the secondary seal piping will be modified. Since all SSC's for the nitrogen seal are associated with the primary seal, no SSC's are affected by this project.	Prevent installation of the primary and secondary nitrogen lines to the calciner seals.	On the calciner platform at each end of the calciner	ISA-03 ADU Conversion
20078	Installation of Tubing Support for the Lathe in WABA Room	This CCF will allow the installation of a support structure that will be mounted to the floor in the WABA Room to serve as a support for the tubing that is being cut by the lathe.	There was an injury in the WABA room while cutting a tube because the tubing supports were not used.	Non Fuel	Components
20079	Secondary Source Hood Modifications	The secondary source hood, which came in as a package unit, is being modified in order to accommodate a drill press for the operators to perform rework with inside the hood.	Currently the operator is not able to safely perform their job task and is using makeshift equipment.	Non Fuel	Grounds
20080	IFBA Vacuum Oven 3 Flow Switch replacement.	Replace the existing flow switches on IFBA Oven 3 with similar models that include display of the process variables. Add metering flow valves to improve adjustment of flows in addition to (space permitting) or in place of the existing ball valves.	Current model switches do not provide true flow measurement. Their "teach" functionality has allowed trip set points to be changed over time without quantification.	IFBA Vacuum Oven 3	ISA-14 IFBA Processing

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CCF	Title	Description	Justification	Location	ISA ID
20081	Conversion Acid Wash Wand Holders	Install three wand holders on each conversion line. Wand holders will be mounted near the wands on Scrubber Heat Exchanger stand, Acid Wash Pump stand and Nitrate Storage Area Pump stand. An additional support strut will be installed on the stands if necessary.	Acid is currently dripping out of the wands on the floor causing degradation to the floor.	Chemical Conversion lines	ISA-03 ADU Conversion
20082	Outlet In Respirator Building Network Cabinet	Installing electrical service in a newly installed network cabinet in the Respirator Building.	Per EWO# 865430 Information Technology had a new network cabinet installed and now need electrical service supplied to it.	Respirator Building	Grounds
20083	Outlet (UPS) In UT Area Network Cabinet	Installing electrical service (uninterruptable power supply) to a newly installed network cabinet in the UT Team Meeting area.	Per EWO# 865426 Information Technology had a new network cabinet installed and now need electrical service supplied to it.	network cabinet in the UT Team Meeting area	Grounds
20085	Pellet Furnace 3A Load Pusher Modification	Relocate Load Pusher Plate mounting holes in order to center the Pusher with the boat. Dimension "A" on Sheet 02 of 361F02EQ20 will need to be changed from 2.50" to 3".	Load Pusher Plate is not aligned to the center of boat. This causes the boat to hang up at the entrance of the furnace.	3A Furnace	ISA-08 Pelleting
20086	Pelleting operations temporary lexan panels over equipment hood openings	Pelleting operations temporary lexan panels over equipment hood openings. The hoods affected are the Press Hood Extension, Ribbon Blender Hood, Roll Hood and Addback Hood (all lines) and the Oxidation Oven/Sifter Hood (all lines except Line 1).	This is a time consuming task which results in extra waste disposal.	Pelleting Operations	ISA-08 Pelleting
20088	Repair Leak on Condensate Return on 1143 Tank.	A leak was found at the 1143 Tank which requires repair. The repair will demo the condensate return to the Powermaster in Boiler Room 1. A replacement piping spool piece will be created to install at the location the leak occurred. This modification does not contain any processes, systems, or components that contain, measure, handle, transport, process, or secure Uranium in any form.	A steam leak requires repair.	At the 1143 Tank.	Grounds
20090	Replace HX-1362 heat exchanger in the DI Water building	HX-1362 in the DI Water building is in poor condition and obsolete. It needs to be replaced if it cannot be repaired.	HX-1362 in the DI Water building is in poor condition and obsolete. It needs to be replaced if it cannot be repaired.	URRS outside	Grounds
20091	Provide alternate basket insert design for SURE process.	Existing bag insert is HALAR coated. The design of the basket insert needs to be changed so it can be fabricated quickly. The new design will be fabricated out of 316L just like the existing insert but not HALAR coated. The connections of the frame to the ring will be changed to provide a stronger design. Update vendor supplied drawings of pressure vessel authorizing optional use of Nitronic 60 eyebolt and nuts to reduce a galling issue with lid closure bolts.	Existing bag insert failed and it will take several weeks to fabricate and have the inserts coated. The new design will be easier to fabricate. Vendor provided design change to reduce a galling issue with lid closure bolts.	Used in SURE process vessels	ISA-11 Scrap Uranium Processing
20092	East Lagoon piping rerouting sink, H2SO4, T1116	In efforts to remove the East Lagoon, these pipes flowing into it need to be rerouted Phase 1, Sulfuric Acid double wall tank 625 gallon added to brick pad Phase 2, Tank 1116 rerouting to 1114 lift station sump Phase 3, Control Room Sink rerouting to the sanitary sump SSC CHEM-937 is modified.	With the removal of the East Lagoon drain lines and flow paths need to be rerouted to accommodate a new destination	East Lagoon, Outside URRS	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
20093	Locator Pin Re-Design	The locator pin for the grid marking system turntable is going to have the OD reduced from 0.4848 to 0.482.	The current hole is too tight and causes downtime issues in the area. The tolerance does not need to be held so tightly for this process.	Grid Area	Components
20094	Addition of External Pilot Line for Line 6 Bottom End Plugger Solenoids	An instrument airline will be added to the plugger and clamp solenoids for the line 6 bottom plugger as an external pilot to assist with the functioning of the solenoid.	When attempting to run with the internal pilot, the regulated airline is too low to operate the solenoid properly. A direct air line will be run to the solenoids to allow for external pilot for these solenoids.	Non Fuel	Components
20095	IFBA Blast Cabinet Inlet Duct Extension	Extend duct inlet duct inside blast cabinet approximately 24". The inlet duct runs on the inside top of the cabinet that provides air flow towards the window to minimize dust for operator to see. The current duct is approximately 12" towards the top back side of cabinet. This change does not constitute a modification to a processes, systems or components that contain, measure, transport or secure Uranium in any form.	By extending the duct, it will prevent operators from blasting directly inside the duct that causes dust/FM blowing to the operator's area.	IFBA Blast Cabinet	ISA-14 IFBA Processing
20096	Air Products Dual-tank Liquid Nitrogen & Liquid Argon modifications	Phase 1 Liquid Argon system work by Air Products: Replace fill cluster, remove low temperature shutdown valve, remove excess flow valve. Phase 1 Argon: Westinghouse is responsible for the installation of a concrete pad to support fill lines and the configuration control form. Phase 2 Liquid Nitrogen system work by Air Products: Fill cluster replacement, Replace the common fill connection between the two tanks, Replace Pressure-Temperature Control Manifold "A", Replace Pressure-Temperature Control Manifold "B", Switching unit replacement, replace vaporizer, replace LIN dual tank telemetry system, which is currently combined with several other systems (Hydrogen and Helium systems), Phase 2 Nitrogen: Westinghouse is responsible for the installation of a concrete pad and the configuration control form.	The Argon and nitrogen piping around the tanks is not supported adequately. The new concrete will support the new piping, valves and equipment.	Nitrogen tank is located south of the ammonia tank farm. Argon is located next to dock #2	ISA-06 Chemicals Receipt, Handling and Storage
20097	ADU dryer Paddle modification	The current paddles that are being supplied by BEPEX need to be threaded to the shoulder of the paddles, the extra threads are needed to meet the drawing requirements.	The current paddles that are supplied by BEPEX need to be threaded to the shoulder of the paddles, the extra threads are needed to meet the inside dryer clearance.	conversion lines 1-5	ISA-03 ADU Conversion
20100	Replacing Argon Gas with Instrument Air on Roughing Pump for Coater #5	The new roughing pump for Coater #5 uses a gas-loaded bearing seal at the vacuum boundary. This requires 25 standard liters/min of purge gas. As currently configured, high purity argon is piped to the pump for this purpose. Edwards only requires clean, dry air (filtered instrument grade) for this application. This CCF will convert to use of Instrument Air for the gas-loaded bearing seal.	Edwards only requires clean, dry air (filtered instrument air grade) for this application.	Roughing Pump for Coater #5 in IFBA	ISA-14 IFBA Processing
20102	Provide new port covers for FL-1008A/B	Currently filters FL-1008A and FL-1008B are located on the roof. They are part of the exhaust for the ammonia scrubber S-1008. The covers of each filter housing contains two portals with covers. These covers are bent and no longer effective at preventing ingress of rain. In addition, FL-1008B has an uncovered port on the outlet duct and the covers for the pressure gauge tubing penetrations are degraded. Currently the portal covers and the outlet cover hole are covered with tape to prevent rainwater from entering the filter	Currently VENT-CON-109-S-1008 is degraded.	Roof	ISA-01 Plant Ventilation System

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CCF	Title	Description	Justification	Location	ISA ID
		housing. This project will provide new covers with red rubber gaskets for the above mentioned openings.			
20103	Install New Model RIO controller in Oxide Coater 2	The current RIO controller for oxide coater 2 will be replaced with a newer model.	The current RIO controller is obsolete and no longer available for purchase on the manufacturer's website. This new model is the same design but upgraded with a faster processor and larger storage.	Tube Prep	Components
20104	Replacing AC-1 and AC-2 on the 1986 Office Building Section	The AC-1 and AC-2 HVAC units on the roof of the 1986 Office Building section are being replaced. The new units have been evaluated and will use the existing electrical and mechanical utilities.	The existing AC-1 and AC-2 units have reached the end of life and need to be replaced.	Roof of the 1986 Office Expansion	Grounds
20105	Pellet Press 3 VFD Enclosure Replacement	Install a larger VFD enclosure on Pellet Press 3. TAF-500-10 Risk Assessment Form linked as related document PSEDoc-0006636 rev 0.	New VFD is tripping due to high temperature inside the enclosure. A larger enclosure is needed for proper air circulation.	Pellet Press 3	ISA-08 Pelleting
20106	Warm Caustic undersized Vacuum Breaker modification	Warm Caustic undersized Vacuum Breaker modification Phase 1 SSC ID WCD-116 & WCD-118 Tanks T-1167A, B, C & T1168; Phase 2 SSC ID WCD-120 Tanks V-1170 TAF-500-10. Risk Assessment Form linked as related document PSEDoc-0006636 rev 0.	The purpose of this CCF is to increase the size of the vacuum break for T-1167A-C and T-1168 tanks, and the vacuum break on the T-1170 tanks in the warm caustic process	URRS outside waterglass	ISA-15 URRS Wastewater Treatment System
20107	Conversion Line 1 Calciner Scrubber Tank Recirculation Solution Duplex Strainer Removal	Solution is recirculated from the bottom of the scrubber tank to the eductors and to the top of the scrubber tank. The pipe that goes to the top of the scrubber tank has a duplex strainer. This CCF will remove the duplex strainer in the recirculation pipe.	The strainer stays plugged up continuously and is no longer used. The strainer has been removed from all the other conversion lines.	Conversion Line 1 Calciner Scrubber Tank Recirculation Piping	ISA-03 ADU Conversion
20108	Non-Fuel Repair Lathe Relocation	Relocate the non-fuel repair lathe from its current location near the non-fuel WIP storage tubes to a location in front of the insert welder	The relocation is needed to allow for the installation of a rod/tube constrainer being developed by the Tooling group.	CFFF, Mechanical Area, Non-Fuel Rod Production	Components
20109	Modify Crane 8050 over the machine shop to add a VFD to the Trolley	Modify Crane 8050 over the machine shop to add a VFD to the Trolley This change does not constitute a modification to processes, systems, or components that contain, measure, transport or secure Uranium in any form.	The existing brake has failed and is obsolete, the VFD can replace the braking function. The VFD also allows adjustment of the trolley motor "ramp-up" and "ramp-down" times. This makes for a better control of the crane. This change has been made before on other cranes.	Crane over Tool Room (machine shop)	Grounds
20111	AC-4060 / Plating Room Scrubber Interlock removal	With this CCF, we will be removing a hardwired interlock between AC-4060 and the Plating Room Scrubber.	Need to be able to shut down and lock out the scrubber prior to the actual demolition of the scrubber (in order to not have to perform monitoring per our new air permit). Currently, the comfort air is interlocked with the scrubber so that if the scrubber is off the air handler isn't	Plating Room Mezzanine	Components

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CCF	Title	Description	Justification	Location	ISA ID
			pressurizing the room and driving the fumes out into the shop. Need to have this interlock broken once the tanks are drained and the scrubber is ready to be locked out.		
20112	UF6 Bay Water Source Installment	Install city water supply line with valve and spigot; tie-in from the main water supply that goes to the safety shower on the wall of Conversion storage area in the UF6 Bay This change does not constitute a modification to a processes, systems or components that contain, measure, transport or secure Uranium in any form.	During a safety audit, it was noticed that a fire door is being propped open to facilitate completing an OM to check the level probes on the vaporizers. To perform the OM, a hose is run from the Compressor Room out to the UF6 Bay to add water to vaporizer.	UF6 Bay	ISA-03 ADU Conversion
20114	Installing New DOP Test Ports on ERBIA Platform HEPA Filters	Install new inlet and/or outlet DOP test ports at the locations shown on linked drawings. Phase 1: FL-9406; Phase 2: FL-9410A, B, C & D; Phase 3: FL-9413. Note: FL-9406 is the only filter with and SSC affected.	Some of the existing test port locations do not comply with industry standards/vendor recommendations. This CCF is addressing issues described CAP IR-2019-494.	ERBIA Platform on Roof	ISA-01 Plant Ventilation System
20115	Installing New DOP Test Ports on Conversion Platform HEPA Filters	Install new inlet and/or outlet DOP test ports at the locations shown on linked drawings. Phase 1: FL-969A and FL-969B for system 4C; FL-970A and FL970B for system 4D; Phase 2: FL-971A and FL-971B for system 4E; Phase 3: FL-961 for system 1A (Scrubbers 2A/2B); FL-962 for system 1B (Scrubbers 2A/2B); Phase 4: FL-3A, FL-3B; Phase 5: FL-4A; Phase 6: FL-5A, FL-5B; Phase 7: FL-8A, FL-8B; Phase 8: FL-39-R	Some of the existing test port locations do not comply with industry standards/vendor recommendations. This CCF is addressing issues described CAP IR-2019-494.	Conversion Platform on Roof	ISA-01 Plant Ventilation System
20116	Installing New DOP Test Ports on Penthouse HEPA Filter FL-949A (5A)	Install new inlet and/or outlet DOP test ports at the locations shown on linked drawings.	Some of the existing test port locations do not comply with industry standards/vendor recommendations. This CCF is addressing issues described CAP IR-2019-494.	Roof Incinerator Penthouse Area	ISA-01 Plant Ventilation System
20117	Installing New DOP Test Ports on URRS Platform HEPA Filters FL-972A and FL-972B	Install new inlet and/or outlet DOP test ports at the locations shown on linked drawings.	Some of the existing test port locations do not comply with industry standards/vendor recommendations. This CCF is addressing issues described CAP IR-2019-494.	Roof, URRS Platform	ISA-01 Plant Ventilation System
20118	Installing New DOP Test Ports on Sintering Furnace Platform HEPA Filters	Install new inlet and/or outlet DOP test ports at the locations shown on linked drawings. This process, system, or component does not contain, measure, handle, transport, process, or secure Uranium in any form.	Some of the existing test port locations do not comply with industry standards/vendor recommendations. This CCF is addressing issues described CAP IR-2019-494.	Roof, Sintering Furnace Platform Area	ISA-01 Plant Ventilation System
20119	Installing New DOP Test Ports on ADU Change Room HEPA Filter FL-7300	Install new inlet and/or outlet DOP test ports at the locations shown on linked drawings. This process, system, or component does not contain, measure, handle, transport, process, or secure Uranium in any form.	Some of the existing test port locations do not comply with industry standards/vendor recommendations. This CCF is addressing issues described CAP IR-2019-494.	Roof ADU Change Room HEPA Filter	Miscellaneous

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CCF	Title	Description	Justification	Location	ISA ID
20120	Natural Gas Isolation of MAP & ERBIA	This CCF isolates Natural Gas supply to MAP and ERBIA, by disconnection the supply legs inside of the building. The Nitrogen purge for this modification will be performed by temporarily connecting Nitrogen and isolated (via valves) Natural Gas headers. The temporary connection will be made in ERBIA and MAP areas, near the abandoned furnaces.	MAP and ERBIA no longer use Natural Gas. Isolating the supply liens will prevent potential leaks which in turn will allow for safer operations.	Natural Gas lines for MAP & ERBIA	ISA-20 ERBIA
20121	Pellet Line 2 Grinder Centrifuge Bowl/Drum Belt Change	Replace Pellet Line 2 Grinder Centrifuge drum belt AX37with an AX38	By using a longer belt which is approximately 1" longer than the AX37 belt, it will allow Maintenance/Operation to adjust the motor distance from the drum to prevent touching or rubbing.	Pellet Line 2 Grinder	ISA-08 Pelleting
20124	HX-1484 and HX-1084 Heat Exchanger redesign	HX-1484 and HX-1084 Heat Exchanger redesign. The new design will have seamless tubes and seam welding the tube sheets.	URRS has had several failures of heat exchanger tubes on our concentrator systems	URRS SOLX	ISA-07 Solvent Extraction
20125	Laser X Conveyor Stop Addition	Add an end stop to the conveyor system of the Laser X grid welder. (This work is being completed under previously approved CCF 17169.)	Without the stops and operator error could result in dumping a grid onto the floor.	CCCF, Mechanical, Grid Expansion	Components
20126	New 120VAC Receptacle for QC Shipping Receiving area.	Adding new 120 VAC receptacle outside of the QC Shipping Receiving Office for general use.	There are not any 120 Vac receptacles outside of the Shipping Receiving office area for the area. When power is needed; long extension cords are used creating an unsafe area.	Outside of QC S/R office - between TPBAR and QC Office building.	Grounds
20127	IFBA Captured Row Tray Updates	IFBA Line 7 Captured Row Tray design changes for manufacturability and drawing corrections to 812F01EQ05.	Design changes for manufacturability improvements.	IFBA Material Handling / Pellet Handling	ISA-12 IFBA Fuel Rod Manufacturing
20130	S-1030 Inlet Elbow Spray Nozzles	Phase 1 - install and test new spray nozzle at scrubber S-1030 inlet elbow. Monitor new nozzle performance and select preferred nozzle (new 360deg rotating nozzle, or original 120deg flat nozzle) at conclusion of testing period. Phase 2 - update design documentation based on selected nozzle.	The S-1030 inlet elbow accumulates uranium bearing material despite the presence of spray system	Scrubber 1030 inlet elbow on roof	ISA-01 Plant Ventilation System
20131	T-2/T-4 Transfer Ball Valves	Replace the transfer valves for ammonia storage tanks T-2 and T-4 with lockable ball valves. This modification will not affect a process that may contain, measure, handle, transport, process, or secure Uranium in any form.	Process locks are being implemented to prevent errors in transferring tanks, and the ball valves are much more efficient for this purpose.	URRS Outside/Tank Farm	ISA-06 Chemicals Receipt, Handling and Storage
20132	IFBA Rod Line 5 Machine Guarding	Install machine guarding on IFBA Rod Line 5 in the Dry Room to eliminate operator contact with rod line pinch points. Note: ITRFLOOR-119 Generic ITR for SSC FLOOR-119 has been attached to this CCF.	Correct inadequate guarding identified during Global EHS Audit.	IFBA Rod Line 5	ISA-12 IFBA Fuel Rod Manufacturing
20133	IFBA Oven 1 Solenoid Valve Replacement	Replace cooling water / city water control valve.	Existing valve is obsolete.	IFBA Oven 1	ISA-14 IFBA Processing
20134	Bulk Blending Room Mirrors Install	Install mirrors in the Bulk Room area. Mounting will not penetrate through the outside walls of the Bulk Blending Room. Phase 1 - above the clock by the entrance door (South);	Operation request mirrors to increase visibility in blind spots.	Bulk Blending Room	ISA-05 ADU Bulk Powder Blending

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CCF	Title	Description	Justification	Location	ISA ID
		Phase 2 - near the railing above the fork truck charging area (West); Phase 3 - back wall near tumbler (North); Phase 4 - area above bulk container storage (East)			
20135	Site Message Board	With this CCF, we will be installing an electronic message board near the US Flag outside the ECP.	EWO# 879692: Communications personnel have purchased an Electronic Message board to be installed near the US Flag prior to entering the ECP. Electrical service for this message board needs to be installed.	near the US Flag prior to entering the ECP.	Grounds
20137	ADU Sintering Furnace End Of Chamber Switch Diaphragm Failure Prevention	Damage to the sintering furnace end of chamber switch diaphragm can occur due to the actions required to separate boats that are stuck together. To eliminate the diaphragm from being overextended and damaged, a stop added to the tray the switch is mounted on will be installed as a Pilot for Sintering Furnace 1C.	Reduce downtime of the ADU Furnaces in repairing the diaphragm.	All ADU Sintering Furnaces.	ISA-08 Pelleting
20138	Add Impulse Line heaters for FN-1030A and FN1030B air flow transmitters	Add Impulse Line heaters for FN-1030A and FN1030B air flow transmitters This change does not constitute a modification to processes, systems, or components that contain, measure, transport or secure Uranium in any form.	Due to the moisture saturated exhaust air stream from 1030 scrubber, the moisture condenses into the air flow transmitters impulse lines. This causes errors in the transmitter reading. Heating the impulse lines will eliminate this issue by keeping the temperature above dew point.	S-1030 scrubber platform on Roof	ISA-01 Plant Ventilation System
20140	Sintering Furnaces 2B, 2C, 3A Hydrogen Header Upgrade.	Hydrogen header for sintering furnaces 2B, 2C, 3A are leaking and have to be replaced. New header will be made out of SS tubing and include new functioning ball valves. This CCF does not impact any SSCs or CSEs.	Hydrogen is flammable gas and leaks have to be removed. This upgrade will increase safety of the pelleting area.	Exit end of sintering furnaces 2B, 2C, 3A.	ISA-08 Pelleting
20141	Mobile DI Water System Substitution	This CCF will allow the install of a new mobile trailer for deionized water generation. The current trailer (MultiFlow 600) has a two-pass cation bed, an anion bed, and a mixed-resin polishing bed. The new trailer (Mobile Flow DI) will have two parallel-path cation beds and three parallel-path anion beds, with no mixed-resin bed. This will more closely replicate the DI Water Building system.	Powder and pellet quality are adversely affected when using DI Water from the current mobile system. The goal is to combine the safety and reliability of the mobile system with the acceptable product quality produced by the building system.	URRS Outside	Grounds
20142	Decommission and remove URRS Zirc Cage, Sponge blast booth and Dust Collector Platform, Honing booth in its entirety, two obsolete tanks T-991 & T-992 located on west wall and FL-999 & FN-999.	Decommission and remove URRS Zirc Cage, Sponge blast booth and Dust Collector Platform, Honing booth in its entirety, two obsolete tanks T-991 & T-992 located on west wall and FL-999 & FN-999.	In order to support emptying the remaining 11 sealands containing some PERC related drums, additional space is required in URRS for storage and processing.	URRS contaminated area in the bay.	ISA-13 Low Level Radioactive Waste Processing
20143	Mechanical Turn Tables at UF6 Bay 30B Cylinder Vertical Storage Locations	Allow the installation of mechanical turn tables to be installed in the UF6 Bay 30B Cylinder vertical storage locations.	The turn tables will allow a cylinder to be rotated 360 degrees without the use of the crane. This will allow better access for cleaning and surveying cylinders.	Conversion UF6 Bay	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
20144	Replace Hydrocarbon Based Oil with Fluorinated Based Oil in High Pressure Pump P-08 at Cylinder Wash	Replace Hydrocarbon Based Oil with Fluorinated Based Oil in High Pressure Pump P-08 at Cylinder Wash. Cat Pump Crankcase Oil ISO 68 with Fomblin Y LVAC 06/6.	Cat Pump Crankcase Oil ISO 68 contains hydrocarbons which could be highly reactive with UF6 if a breach occurred and the oil contaminates the internal surface area of the 30B cylinder during the high pressure wash operation. Fomblin Y LVAC 06/6 is a perfluoropolyether fluid which is not reactive with UF6.	URRS UF6 Bay	ISA-09 UF6 Cylinder Wash
20145	Helium Reduction Project	The CCF if for the modification of the ADU rod lines 3 and 4 Phase 1 will be for ADU rod line 3 Phase 2 will be for ADU rod line 4. The modification is to add tooling that will cap the chamber. The cap will prevent helium from leaking out into the atmosphere when the machine is not in use.	This CCF will add tooling to the process that will prevent the loss of helium.	Seal welders on line 3 and 4	ISA-10 ADU Rods
20146	IFBA Coater 6 Cathode 2 Slide Bar Redesign	Redesign coater cathode slide bar design to eliminate arc during coater run due to proximity of cathode and drum. This change is applicable specifically to the slide bars for IFBA Coater 6, Cathode 2. NOTE: Existing slide bars on Coater 6 Cathode 2 are being modified under TSWO-001776.	Eliminate arcing between cathode 2 and drum during coater runs.	IFBA Coater 6; Cathode 2	ISA-14 IFBA Processing
20147	Modify dryer baskets	As part of the dryer filter on each conversion line, two baskets are used to retain the powder while allowing air to pass through. Each of these bags are held in position by a wire basket. In the event that one of these bags fails product is lost and downstream equipment is contaminated. Per operations most bag failures occur at the seam of the bag. In an attempt to reduce the number of bag failures, this project will modify the basket design to provide for addition bag support at the seam. The current plan is to add the additional vertical rods to the existing baskets and reinstall. The procedure used to install the bags in the dryer will require an addition to instruct the operator to install the bag such that the seam corresponds with the area of increased basket support.	Reduce the number of bag failures: - to reduce contamination of downstream equipment - to reduce loss of product	calciner platform	ISA-03 ADU Conversion
20148	IFBA Re-Workstation STA-9610 Protective Barrier	Install two 1.5" modular rail pipe protective barrier mounted to the floor. Anchor bolt hole depth will be a maximum of 3". Rails will consist of aluminum or stainless steel material. Top rail shall have height range of the cart (no higher than the rollers on the re-workstation) used at re-workstation. The other rail shall be in mid-range of the post.	Rails will be used to protect the re-workstation rod rollers from getting damaged by cart.	IFBA	ISA-12 IFBA Fuel Rod Manufacturing
20150	UF6 Cylinder Wash/V-12 Solution Storage Wilden M2 Pump (P12A/12B) Airline/Filter Regulator Replacement	Remove oiler from pump airline and replace obsolete regulator/filter with new regulator/filter combination Phase 1 - P-12A airline regulator/filter; Phase 2 - P-12B airline regulator/filter	The airline regulator/filter Master Pneumatic BCFDR10 is obsolete.	V12 SW Expansion	ISA-09 UF6 Cylinder Wash
20154	IFBA Coaters 3-Way Diverter Valve and Actuator Replacement	The existing 3-way purge / diverter cooling water valves on Coaters 1 - 7 are obsolete and leaking water. This CCF will replace the obsolete 3-way cooling water valves and actuators in 7 phases.	The existing 3-way valves are obsolete and leaking water.	IFBA Coaters 1-7	ISA-14 IFBA Processing
20156	Correct setting for 1ATS7 to disable closed transition	This CCF is to correct the configuration of 1ATS7. It is currently configured for a closed transition which caused it to fail to return to normal power on phase angle difference	The current setting for 1ATS7 caused it to fail SSC testing per MCP-202223. We do not need a closed	1ATS7 on mezzanine over the compressor room	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
		greater than .3 Hz upon testing. This CCF will change the configuration parameter for 'Closed Transition' from 'On to Alarm' to 'Disabled' in order to improve reliability.	transition with phase sync for this ATS. This setting modification will improve the reliability of the emergency to normal power transition.		
20157	Still #1 Valve removal for RMP boundaries protection.	URRS Still #1 2" valve removal to prevent the misdirected flow from ammonia into caustic supply system. The scope of this CCF does not modify any processes, systems, or components that contain, measure, handle, transport, process, or secure Uranium in any form.	An analysis of EPA RMP boundaries concluded that multiple pieces of equipment in the caustic supply system must be added to RMP coverage because of the potential for misdirected flow from ammonia piping if a single manual valve at still #1 is closed.	URRS outside Still 1	ISA-15 URRS Wastewater Treatment System
20158	Conversion T204 DI Water Piping Conductivity Probe Isolation Valve and Drain Installation	Project is to install isolation valve downstream, but near the conductivity probe on DI water piping associated with T204 in Conversion. Also, install a drain line/valve on DI water piping in between the isolation valve and RP-204 Backflow Preventer.	Installing valves near the conductivity probe will improve safety on removing probe by reducing head pressure and having a controlled way of draining the DI water.	Conversion	ISA-03 ADU Conversion
20159	Replacement of Bar Code Reader on Rod Weigh B	Replace the current Prosilica style bar code reader on Rod Weigh B with a Keyence SR-2000 style reader. The mounting bracket and hardware will also change with the new camera.	The current video bar code reader on Rod Weigh B is obsolete.	Rod Weigh	ISA-10 ADU Rods
20161	Cylinder Wash Transfer/Recirculation Pumps Replacement	Replace the pumps with Wilden model pumps. Rated flow rates and pressures are very similar. The pump inlet, outlet and air supply piping will have to be field modified slightly to connect to the new pumps because of dimensional differences. The new pump will utilize the existing pump embedded mounting bolts but a new pump base plate will be fabricated to attach to these existing embedded mounting bolts.	The Wilden M2 pumps are obsolete and no longer available.	Cylinder Wash Area	ISA-09 UF6 Cylinder Wash
20162	Air Compressor Replacement Project	Replace the existing compressors and dryers in Compressor Room #1 with 300 HP and 250 HP Variable Flow Control Centrifugal Air Compressor and an Externally Heated Blower Purge Dryers	The 300 HP Kobelco compressor failed while in service and was not economical to repair. The 250 HP Kobelco compressor is nearing the end of usable service. The air dryers that service the Kobelco air compressors have exceeded their useful life and are obsolete designs.	Compressor Room 1	Grounds
20163	Office Renovations (2nd floor) - Government Services	Westinghouse Government Services office space will be on the 2nd floor, south west corner of the office. A wall is being added to this area of the office to have a badge access secured location.	Westinghouse government services needs a secured location	Southwest corner of offices	Grounds
20164	IFBA Coater 8 Replace obsolete MKS Mass Flow Controller model with current model MKS model.	Replace obsolete MKS Mass Flow Controller model with current model MKS.	Existing MKS controller is obsolete and there are no spare parts available.	IFBA Coater 8	ISA-14 IFBA Processing
20165	Provide cover/tool shelf for UF6 cylinders	This project will provide a portable shelf for holding tools while the cylinder is being installed and removed. The shelf will set on top of the cylinder when in use and be stored between uses.	Reduce contamination of UF6 cylinders	UF6 Bay	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
20166	Provide additional access doors on S2A/2B system ductwork	This project will provide three new access doors to facilitate inspection and cleaning. The doors will be fabricated per current Westinghouse design.	Reduce potential for buildup and facilitate removal of SNM in S2A/2B ductwork.	scrap cage	ISA-01 Plant Ventilation System
20167	Modify acetone dispensing system	This project will provide a new ergonomically sound dispensing system that reduces and contains splashing and overflows.	Reduce potential for employee injury. Reduce incidence of acetone spills.	adjacent to ECG room	Components
20170	Revise VENT-S1030-105 to use PIT-S-1030C-5 instead of PI-S-1030C	VENT-S1030-105 is an administrative control requiring verification of spray functionality by verifying adequate pressure in the spray header. PI-S-1030C is currently used to take the verification reading. This CCF will modify the controls forms to specify the use of PIT-S-1030C-5 instead. No physical changes will be made.	PIT-S-1030C-5 is currently installed, in the calibration system, and intended for use as a safety device.	S-1030 Scrubber	ISA-01 Plant Ventilation System
20174	Wash Pit and Chip Knock Pit Zirc Barrier Modification	Project is to extend current zirc barrier to a height of approximately 6'. The zirc barrier is located between the wash pit and chip knock pit. Also, add a shield attached to the barrier that extends to the light fixture located between chip knock pits.	This modification is to prevent zirc from blowing over onto operators as they perform their task on the wash pit and chip knock pit.	Wash Pit and Chip Knock Pit	ISA-17 Final Assembly
20178	Conversion Line 3 Dryer Condenser Exhaust Fan Inlet Ventilation Pot Addition	This modification will install a six inch diameter vertical ventilation pot between the condenser and the fan. The gas/water will flow into the ventilation pot near the top. Gas will then flow out of the top of the pot to the fan and water will flow out of the bottom of the pot to tank V-312.	Currently water is being blown over to the fan. The water then drips out of the fan housing onto the floor. This will slow the velocity of the gas, cause a change in direction of the gas and prevent liquid from reaching the fan.	ADU Conversion Line 3	ISA-03 ADU Conversion
20180	Install 3" overflow on V-1019	This project will provide a new 3" clear PVC overflow on V-1019. The existing 1" overflow will be removed and the new 3" overflow will occupy its current location. The new overflow will be provided with line-of-sight inspection ports on both the horizontal and vertical piping.	Maintain compliance with VENT-AFS-103	URRS inside	ISA-11 Scrap Uranium Processing
20181	Repurposing of Shed 31a for the short term storage of WCM and hazardous waste drums.	The objective of the CCF is to convert a portion of Shed 31 (bay A) to be used as a less than 90 day storage area. The additional area is needed to temporarily store previously generated wet combustible material (WCM) drums containing small amounts of perchlorethylene.	The removal of the Sealand containers requires that additional storage space be designated on the Columbia site.	CFFF, Concrete Pad/Shed 31, Bay A	Grounds
20182	Diesel Fuel Pump Breaker Install	Replacing 40amp breaker with a correctly sized 20amp breaker.	Per EWO: 858700 Circuit # 8 in RP-BR1 panel is a 40 amp breaker. This circuit feeds the Diesel Fuel Pump used to refill the Maintenance Fuel Wagon and other portable diesel equipment. The full load amps on the motor is listed as 7.6 amps fed by 20amp rated wire. This breaker is oversized.	Electrical Panel in Power Master Boiler Room	Grounds
20183	Office Renovations (2nd floor) - Government Services - Electrical	The new government services room is adding (2) new servers and need power to feed the (2) UPS units. This will require adding (2) 30amp circuits to provide power to stand alone server UPS's.	Westinghouse Government Services needs an open office space	2nd Floor Southwest corner - Former Executive Area	Grounds
20184	IFBA Oven 1 & 2 Solenoid Valve Replacement	Replace obsolete cooling water / city water solenoid valves on IFBA Ovens 1 & 2.	Existing valves are obsolete.	Oven 1 & 2	ISA-14 IFBA Processing

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CCF	Title	Description	Justification	Location	ISA ID
20185	IFBA Coater MKS Mass Flow Controller Replacement	Define the new model a direct replacement for the current model, including replacing existing storeroom items with the new model.	Existing model is obsolete and no longer available.	Storeroom Part for IFBA Coaters	ISA-14 IFBA Processing
20188	Final Assembly Loader Pendant Quick Disconnect	This CCF will be completed to accomplish a reliability improvement to the Final Assembly Loaders. The Modification will add a bulkhead connector to the control panel of each loader in order to allow for quick disconnect of the pendant for replacement and repair	The pendants of the loader are currently subject to damage due to the lengthy coiled cable that runs between the pendant and the control panel.	Final Assembly - Loaders 1-5 and Unloader 6	ISA-17 Final Assembly
20189	Helium Reduction Project	The CCF if for the modification of the IFBA rod lines 5 The modification is to add tooling that will cap the chamber. The cap will prevent helium from leaking out into the atmosphere when the machine is not in use	Add tooling to the process that will prevent the loss of helium.	IFBA seal rod lines 5	ISA-12 IFBA Fuel Rod Manufacturing
20190	UF6 Cylinder Recertification T-1405 Vent Reroute	Reroute T-1405 vent to the outside south side wall of the UF6 Cylinder Recertification building.	Venting inside the building causes a safety hazard concern with N2.	UF6 Cylinder Recertification Building	ISA-09 UF6 Cylinder Wash
20191	Demo Puma Robotic Welding System Robot 1 and Robot 2. Install (2) Nordson Robots	Demo PUMA Robotic Welding System robot 1 and robot 2 with associated controls, with portions of the personnel fence and turntable. Install (2) NewRobot Models	PUMA 500 Robotic Welding System robot 1 and 2 have exceed their useful life. Replacements must be installed to maintain production capacity.	Grid Area	Components
20194	Install hub with torque limiter on line 5 calciner second discharge screw	Install hub with torque limiter on line 5 calciner second discharge screw	Existing hub has failed	ADU line 5 calciner	ISA-03 ADU Conversion
20195	CATHODE AND INSULATOR MODS TO REDUCE ARCS NEAR FEED THROUGH BASE	Improvements are being made at the universal cathode drawing level, to be acceptable for use in all coaters, to be installed in cathode assemblies as they are being rebuilt and then cycle into coaters as other cathodes are being swapped out for rebuild.	Reduce likelihood of arcs and water leaks while preserving maintainability	All coaters eventually as cathodes are cycled through rebuild	ISA-14 IFBA Processing
20196	XV1075-C and XV1075-D Replacement	This actuated valve is obsolete and will be replaced and substituted	XV1075-D is leaking by, causing issues with filling V-1075.	V-1075	Grounds
20197	IFBA Scrap Process Area Wilden Pump Air Regulator/Filter Replacement	Project is to remove oiler from pump airline and replace obsolete regulator/filter with new regulator/filter combination.	The airline regulator/filter Master Pneumatic is obsolete.	IFBA Mop Water Area	ISA-14 IFBA Processing
20205	Add Current Meter to IFBA Pellet Acid Stripping Bath Heater	Add Current Meter to IFBA Pellet Acid Stripping Bath Heater	Operators need a tool to assist them when troubleshooting heating issues on the IFBA Acid Stripper.	Pellet Stripping Bath in the IFBA Scrap Area	ISA-14 IFBA Processing
20206	Vacuum Boat Loader Queuing Mechanism Hardware Change	Vacuum Boat Loader Queuing Mechanism Hardware Change. Change the Item 85 Jam Nut to a Thin Nylon-Insert Locknut.	Prevent loosening of Vacuum Boat Loader hardware.	Pelleting	ISA-08 Pelleting
20207	Line 5 Boat Loader Clamp Piston Guard	Line 5 Boat Loader Clamp Piston Guard. Add a guard over the boat loader clamp piston.	The boat loader clamp piston and cylinder extend 6" into the aisle between the boat loader and the furnaces on each pellet line.	Pelleting line 5	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
20208	Pelleting Line 2 Oxidation hood sifter enclosure ventilation redesign.	The other pelleting lines have an improved poly pack enclosure that eliminates the potential exposure. Line 2 will incorporate the new design.	Pelleting line 2 oxidation hood sifter enclosure ventilation redesign is required as the unit requires operators to wear respirators to change out poly packs.	Pelleting Line 2	ISA-01 Plant Ventilation System
20209	Sintering Furnace Exhaust Stack Test Port Addition	Add a one inch hole in all five sintering furnace exhaust stacks. A plug will be installed when the hole is not being used for testing.	The new test holes will be used for flow testing to validate the isokinetic probes are in the correct location.	Roof, Sintering Furnace Exhaust Stacks.	ISA-08 Pelleting
20210	Conversion Exhaust Stacks Test Port Addition	Add a one inch hole in the following exhaust stacks: 1. Phase 1: Conversion Calciner Combustion Exhaust Stacks; 2. Phase 2: Conversion 1A and 1B Exhaust Stacks; 3. Phase 3: UF6 Bay Conversion Emergency Exhaust Stack; 4. Phase 4: Conversion Decontamination Room Exhaust Stack; 5. Phase 5: Ammonia Fume Scrubber 1008A and 1008 B. Exhaust Stacks A plug will be installed when the hole is not being used for testing.	The new test holes will be used for flow testing to validate the locations of the isokinetic probes.	Roof, Conversion Exhaust Stacks	ISA-01 Plant Ventilation System
20211	Conductivity Transmitter Substitution. Obsolete Rosemount series	Conductivity Transmitter Substitution. The current Rosemount series conductivity transmitters are obsolete. CCF will allow us to upgrade existing non-SSC conductivity transmitters with the current model conductivity transmitter.	The current Rosemount series conductivity transmitters are obsolete	Storeroom Parts	Components
20213	Chem Lab Waste Treatment Exhaust Fan-09 No Loss Stack Installation	Install a no loss stack on exhaust Fan-09 vertical stack located on the roof. No loss stack inside diameter will be at least 1" larger than the outer diameter of Fan-09 vertical stack. No loss stack height will be 4x vertical stack diameter. No loss stack will be connected at a minimum of 6" from the top of the vertical stack.	No loss stack will be used to prevent water from entering Fan-09 vertical stack. Currently there is no protection to prevent rain from entering stack.	Roof	ISA-01 Plant Ventilation System
20214	Pellet Line 5 Aisle Way Mirror Installation	Install a mirror on the post near aisle way south of Pellet Line 5 Deer Stand. Convex mirror approx. 26" half-moon shaped.	Operators are requesting a mirror near the intersection of Conversion Line 5 aisle way and main aisle way south of Pellet Line 5 Deer Stand to aid IFBA rod transport visibility.	South of Pellet Line 5 Deer Stand on the beam near aisle way	ISA-08 Pelleting
20215	IFBA Rod Transport Mirror Replacement Near UF6 Bay Double Door and ERBIA Storage Area	Replace current convex mirror located on duct work near UF6 Bay double doors and HP remote Floor Lab with larger convex mirror. Approx. 36" half-moon shaped mirror	Operators are requesting a larger mirror to aid IFBA rod transport visibility.	Near HP Remote Lab	ISA-12 IFBA Fuel Rod Manufacturing
20217	Install Rental Electric Air Compressor and Dryer	This CCF is needed to install a rental electric air compressor and heatless desiccant dryer. The scope of install is the following: 1. Use the circuit power feed to the current ZT315 outside. 2. Run temporary power from the ZT315's power feed to the rental compressor. Adjust breaker settings and/or fuses as necessary. 3. Remove a pipe spool piece from the ZT compressor 4. Run temporary compressed air hose and connect to 150 Class flange SS 5. Run power to heatless desiccant dryer. 6. Startup rental equipment and keep close track of instrument air dewpoint temperature and header pressure	This will give the plant the needed reliability during the installation of the new permanent air compressors and dryers in CCF 20162 without interruption of plant air and instrument air.	Outside near the current air cooled air compressors.	Grounds
20219	Option for RIO controller in Oxide Coater 2	Include on the BOM the option to use either RIO controller	Both have been verified through the QA-004 process. The current model is now obsolete and	Tube Prep	Components

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CCF	Title	Description	Justification	Location	ISA ID
			will be replaced with the newer model. These are of the same design, but the new one is upgraded with a faster processor and larger storage.		
20220	Eliminate Unnecessary Piping and Components from P-431A/B Discharge to Filter Presses	This modification will streamline a section of piping by eliminating the branch that is no longer used as well as 4 valves which are no longer needed.	Existing piping configuration is no longer needed since flow switches are no longer used in this application.	Conversion Line 4 piping from P-431A/B discharge supplying filter presses (FP-431A/B)	ISA-03 ADU Conversion
20221	Grid Laser-X Argon Pressure Monitor / Alarm	Add new TURCK Pressure Switch in parallel with PI-4224-4. Monitor the minimum Pressure Required to operate Grid Laser X devices.	System does not have automated Pressure Monitor for operations; if loss of Argon Pressure on main header could cause quality issues with Laser X operations.	Grid Laser X	Components
20222	Labs, IFBA, Pellet and ERBIA Areas Exhaust Stacks Test Port Addition	Add a one inch hole in the following exhaust stacks: 1. Phase 1: Met Lab Exhaust; Stack 2. Phase 2: Chemical Lab Filter Exhaust Stack; 3. Phase 3: HP Lab Exhaust Stack; 4. Phase 4: IFBA Exhaust Stack; 5. Phase 5: Pellet Combined Exhaust Stack; 6. Phase 6: ERBIA Change Room Exhaust Stack; 7. Phase 7: ERBIA Furnace Exhaust; 8. Phase 8: ERBIA Exhaust. A plug will be installed when the hole is not being used for testing.	The new test holes will be used for flow testing to validate the isokinetic probes are in the correct location.	Roof Exhaust Stacks	ISA-01 Plant Ventilation System
20223	URRS and Maintenance Area Exhaust Stacks Test Port Addition	Add a one inch hole in the following exhaust stacks: 1. Phase 1: Supplemental Incinerator Exhaust Stack; 2. Phase 2: Solvent Extraction 8A and 8B Exhaust Stacks; 3. Phase 3: MAP Combined Exhaust Stack; 4. Phase 4: ABF Furnace Exhaust Stack; 5. Phase 5: Waterglass Scrubber 1190 Exhaust Stack; 6. Phase 6: Maintenance Weld Exhaust Stack. A plug will be installed when the hole is not being used for testing.	The new test holes will be used for flow testing to validate the isokinetic probes are in the correct location.	Roof, URRS and Maintenance Area Exhaust Stacks	ISA-01 Plant Ventilation System
20224	Update PM9500 Datalogic Scan Gun to PM9501 Due to Obsolescence	The new Datalogic Scan Gun Powerscan PM9501 will be implemented across the plant as a replacement for the PM9500.	The PM9500 was deemed to be obsolete by the supplier, and the PM9501 is the suggested replacement.	Operations	Components
20225	Optional use of rental chiller for the IFBA/ERBIA chilled water system.	Previous CCFs installed a temporary rental chiller (CCF-19291), provided permanent connection points (CCF-19355), and installed shore power to power the rental chiller (CCF-19327). This CCF will allow the removal of the rental chiller and allow the option of reinstalling the rental chiller as an alternant configuration when a temporary rental chiller is required	Permanent changes were made via previous CCFs to allow for the connection of a rental chiller. One chiller still needs to be replaced and the rental chiller will need to be reinstalled.	IFBA Equipment room and immediately outside the IFBA building (location of a temporary rental chiller)	ISA-14 IFBA Processing
20226	Gather Station PC Repair	With This CCF, IT is proposing a fix for the Gather Station PC. They plan to replace the hard drive and add memory.	The current Gather Station PC is inoperable and unable to load the Pellet Area application. This is preventing Pelleting Operations from moving "Add-Back" material to the pellet lines.	Chemical Side	ISA-05 ADU Bulk Powder Blending
20228	IFBA Rod Line 5 Clutch Replacement	Replace obsolete ACCU-Clutch model. The corresponding clutch adaptors will also be redesigned to mate with the new clutch. New clutch and corresponding clutch adapter will be replaced on: Rod Plugger Girth Welder Seal Welder	Vendor for ACCU-Clutch model no longer offers this option to WEC.	IFBA Rod Line 5	ISA-12 IFBA Fuel Rod Manufacturing

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CCF	Title	Description	Justification	Location	ISA ID
20229	This is a Pre-Approved Substitution CCF based on CCF #17515. Replacement of Conversion Line 2 x31 Scrubber "Red Valve" positioner.	Replace the obsolete valve positioner and mounting kit. This change has already been made on two other conversion lines.	The installed positioner is not functioning properly and is obsolete.	Conversion Line 2 Slab Scrubber	
20230	Removal of Ecodrum composter	This Ecodrum model in vessel composter is being removed and donated to NC State. This CCF is to set the requirements for future Pre-Approved Level 2 Modifications for demolition, construction, and startup of modifications performed in the non-production areas outside the main manufacturing building, and overall electrical distribution system (inside and outside).	The composter is no longer needed and is being donated.	Storage Pad	Grounds
20233	Implement a Retractable Lance in the High Pressure High Temperature Cylinder Internal Scale Operation at Cylinder Wash.	Implement a retractable lance in the high pressure high temperature cylinder internal scale operation at Cylinder Wash. Install a jib crane to store and provide an ergonomic means for attaching and detaching the retractable lance to the cylinder. Enable alternate spray nozzles to be utilized that are compatible with the 0.25 inch MNPT fittings on lance designs.	Cylinders have unique internal scale patterns that require removal. A retractable lance will enable operations to target the critical areas.	Cylinder Wash	ISA-09 UF6 Cylinder Wash
20234	URRS Dirty Dissolver product hold tanks redundant overflows	Add redundant passive overflows to V-736A, B, & C, V-746A, B, & C, V-756A, & B, SOLX dirty scrap product hold tanks.	The SOLX Dirty scrap safe geometry dissolvers hold tanks do not have passive overflow pathways that are completely independent.	SOLX Dirty scrap safe geometry dissolver	ISA-04 Safe Geometry Dissolver
20236	Heat Shrink Machine Belt Support	Add supports beneath the machine's transfer belts to decrease the positional variability of the heat shrink tubing as they pass beneath the machine's heating elements.	The flex of the transfer belts decreases the effectiveness of the machine under heavier loads.	CFFF, Mechanical Side, Non-Fuel Rod Assembly, Heat Shrink Tubing Machine	Components
20240	Line 1 Vaporizer Footers Replacement	The steam chest vaporizer footers on Line 1 (V-101A and V-101B) were inspected in March 2020. Based upon inspection, the engineering recommendation was to refurbish the footers with the new design that was implemented on Lines 2 and 3 under CCF 20074 within 12 months. This CCF is being created to issue the design from CCF 20074 and replace the concrete footings on Line 1. These steam chest vaporizers are located in the east trench of the UF6 Bay. There will be a phase (2) for each steam chest vaporizer for line 1. Phase 1: V-101A Steam Chest Vaporizer (Line 1) Phase 2: V-101B Steam Chest Vaporizer (Line 1)	Based upon inspection. the engineering recommendation was to refurbish the footers with the new design that was implemented on Lines 2 and 3 under CCF 20074 within 12 months.	East trench of the UF6 Bay	ISA-03 ADU Conversion
20247	Provide gaskets on Fitzmill doors	This project will add a 1/4" thick red rubber gasket to each door. Each gasket will be a solid rectangle of gasket material. It will be bolted to the door outside the sealing area using 1/4-20 hardware and oversized washers. Stainless steel spacers will be installed under all hinges and clamps. Each Fitzmill will constitute a distinct phase.	Reduce potential for airborne contamination	Conversion	ISA-03 ADU Conversion
20249	S-1030 Scrubber Lid Mounting Hole Enlargement	Increase the size of the S-1030 Scrubber Lid hold down holes to improve the ease of alignment during the re-lidding of the scrubber.	The current holes at 7/16" diameter make it difficult to align the lid during closing.	CFFF, Chemical Area Roof, S-1030 Scrubber	ISA-01 Plant Ventilation System

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CCF	Title	Description	Justification	Location	ISA ID
20250	Replacement of flow switch for IFBA Vacuum Furnace 3 Heat Exchanger Cooling Water Line.	Replace the existing flow switch on IFBA Oven 3 heat exchanger cooling water line with similar model that includes display of the process variable. This work will be similar to that recently completed for 12 other cooling water lines on the furnace.	Current model switch does not provide true flow measurement. Its "teach" functionality has allowed the trip set point to be changed over time without quantification.	IFBA Vacuum Furnace 3	ISA-14 IFBA Processing
20251	Flanders Filter Replacement for Storeroom# 21109	Replace obsolete filter, with new filter. New filter will replace obsolete filter. Filters are used on: -AH-7306 comfort air system (Chem Lab, Men's Change Room) comfort Air -PK-816 IFBA Dehumid Unit.	Current filter is obsolete. New filter is the replacement for current filter per manufacturer.	AH-7306 Chem Lab, Men's Change Room comfort Air & PK-816 IFBA Dehumid Units for Coaters	ISA-01 Plant Ventilation System
20254	Resolve Moisture Spikes from Rain in IFBA Dry Room	This CCF will install a no-loss rain guard on the reactivation fan ductwork, a rain gutter on the air compressor shed, and a sheet metal or duct enclosure on the makeup air intake. Phase 1: No-Loss Rain Guard Installation; Phase 2: Gutter on Air Compressor Shed; Phase 3: Duct Enclosure on the Makeup Air Intake. This modification does not contain any processes, systems, or components that contain, measure, handle, transport, process, or secure Uranium in any form therefore a RAF-104-10 is not required.	To prevent moisture spikes in the IFBA Dry Room	Dehumidifier PK9662	ISA-14 IFBA Processing
20255	CLN4 Scrubber Slab Tank PH Probe (PHE-431) Replacement.	Replace the PH probe on the Calciner Line 4 Scrubber Slab Tank with a different model.	To improve reliability/maintainability.	CLN4	ISA-03 ADU Conversion
20256	URRS dissolver hanger bearing material	URRS dissolver hanger bearing material change	The current material of construction is stainless steel and is corroding quicker than acceptable.	SOLX Dissolvers	ISA-04 Safe Geometry Dissolver
20263	IPSEN Furnace Vacuum Air Cylinder and Solenoid Replacement and Addition of Jog Button to Increase Roughing Pump Oil Change Efficiency	This CCF will replace the three failing cylinders and solenoids Also add momentary push button near the roughing pump to allow maintenance to "jog" the roughing pump when performing oil changes.	Replace failed vacuum air cylinders and solenoids and install push / jog button to increase roughing pump oil change efficiency.	IPSEN Oven	Components
20265	Modification to WABA Tray Weldment	The brackets on the underside of the tabletop will be moved forward 12 inches. By moving these brackets, the tabletop will be able to slide a few inches away from the main table	The current table configuration makes it an awkward task for the operator. By shifting the table, the operator will have more room to complete the task.	WABA Room	Components
20266	Add Warm Caustic Pump Running Heater) Interlock	Add interlock to Warm Caustic Heater, which will require pump to be running before the heater will be enabled.	This is to ensure that the heater is not turned on without having water flow.	Warm Caustic in the Waterglass Building	ISA-15 URRS Wastewater Treatment System
20268	CFFF Site Sealand Relocation Project	Relocate sealands as required and update drawing to show new location.	Support CFFF Site Sealand removal project.	Plant Grounds	ISA-13 Low Level Radioactive Waste Processing
20270	Install Temporary Generator to Back up Generator #4. Generator	With this CCF, we will be renting a backup unit to serve the standby generator function while Generator 4 is down for repair or replaced.	Standby generator power is required	Standby Generator is located in Equipment Room 4. The	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
	4 will be out of service for repair or replacement			Temporary unit will be next to the west wall of the building, between the maintenance dock and dock 3, next to Gen 9.	
20276	Reinstall auger in V-119 transition	Reinstall auger in V-119 transition Under CCFV-19437 the auger was removed. This project will reinstall the auger.	Request by operations	Conversion line 1	ISA-03 ADU Conversion
20277	V-1081 Bottom Plate	Increase diameter of half-coupling and internal pipe located at center of V-1081 (SOLX 1 Extraction Column) bottom plate	Decrease solvent inlet velocity at bottom of V-1081 to promote higher uranium extraction efficiency within column	URRS - SOLX	ISA-07 Solvent Extraction
20280	Rental Air Compressor and Dryer Installation	With this CCF we will be installing a rental electric air compressor and heatless desiccant dryer. The scope of install is the following: 1. Use the circuit power feed to the current outside. 2. Run temporary power from the power feed to the rental compressor. 3. Remove a pipe spool piece from the compressor. 4. Run temporary compressed air hose and connect. 5. Run power to heatless desiccant dryer. 6. Startup rental equipment and keep close track of instrument air dewpoint temperature and header pressure	This will give the plant the needed reliability during the installation of the new permanent air compressors and dryers in CCF 20162 without interruption of plant air and instrument air. Also supporting the removal of the diesel fuel operated compressors from the site.	Outside near the current air cooled air compressors.	ISA-05 ADU Bulk Powder Blending
20281	Conversion Line Two Hot Oil Dryer Foundation Modification.	Add structural support steel at each dryer pedestal to add strength and prevent movement.	The concrete dryer pedestals have deteriorated over time and need to be reinforced.	CLN2 Hot Oil Dryer	ISA-03 ADU Conversion
20282	Fabricate New Pressure and Sludge Plate Frames for Conversion Lines 1-4 Filter Presses per Westinghouse generated drawing	This modification will use a single phase CCF to allow for the use of the new replacement pressure and sludge plate frames on the lines 1-4 Conversion filter presses. The new components should be able to be installed interchangeably with existing components that are in adequate condition.	New replacement pressure and sludge plate frames are needed to replace some of the existing components which are in a degraded condition. The degraded condition of some of the existing components creates leaks points within the filter press enclosure since the components can't get an adequate seal	Conversion Line 1-4 Filter Presses	ISA-03 ADU Conversion
20284	IFBA Passive Gama Scanner gear reducer replacement part.	Procure and install new alternate part number	The existing part is obsolete, a new part is available as a replacement Existing part is unavailable	IFBA rod line 2	ISA-12 IFBA Fuel Rod Manufacturing
20285	Update Drawing 360F18EQ03 for Conversion Line 5 Filter Presses to Improve Manufacturability	This modification will use a single phase CCF to allow for the use of the new components on the line 5 Conversion filter presses. The new components should be able to be installed interchangeably with existing components that are in adequate condition.	Tool Engineering has assisted with the reverse engineering required to generate Westinghouse drawings to replace needed components on Conversion Lines 1-4 filter presses per CCF-20282. This CCF will update drawings 360F18EQ03 to be consistent with the drawings generated per CCF-20282 (lines 1-4) to improve the manufacturability of the filter press components for line 5.	Conversion Line 5 Filter Presses	ISA-03 ADU Conversion

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20288	Replace Pellet Line 1 Autoprep Weigh scale with current model	Replace Obsolete Pellet Line 1 Autoprep Weigh scale with current model	Existing Jag-Xtreme is obsolete	Above Autoprep Panel on Line 1 Pelleting	ISA-08 Pelleting
20289	Rental Air Compressor Installation	With this CCF, install a rental electric air compressor.	This will support removal of the diesel air compressor, and hopefully future removal of the temporary air compressor installed under CCF 20280.	Air compressor room in the Water Glass area	Grounds
20291	Replace Obsolete Chlorine Transmitters in EPA Building	Replace Existing Obsolete Chlorine Transmitters in EPA Building with the current model and Controller.	Existing Chlorine Analyzers are obsolete	Chlorine Analyzers in the EPA Building	Grounds
20292	Substitution - Storeroom replacement for obsolete Thermocouple.	Substitution - Replacement for obsolete thermocouple storeroom. The thermocouple will be replaced with an identical item	Product is obsolete and identical replacement is readily available.	Grid Area ABAR Furnace and ADU Conversion Calciners	Components
20294	Replace AutoFeed Prep. Scales for Pellet Lines 2, 3, &4 with the current Model	Replace AutoFeed Prep. Scales for Pellet Lines 2, 3, &4 with the current Model	Existing Jag-Xtreme models are obsolete.	Pellet lines 2, 3, & 4 above autoprep control panel.	ISA-08 Pelleting
20297	Storeroom substitution for obsolete thermocouple	Replacement for obsolete thermocouple storeroom. The thermocouple will be replaced with an identical item Substitution is based on CCF 18340 for non-SSC electrical components	The T/C is obsolete and is required for ABAR furnaces.	Grid Area ABAR furnaces	
20298	Warm Caustic Cleaning Basin modification to maintain structural dimensions.	Warm Caustic Cleaning Basin modification to maintain structural dimensions.	Per SSC WCD-128, the filter plate cleaning basin for the warm caustic process must conform to these dimensions: 24" x 24" x 6". These dimensions are checked annually with OM85111. In the most recent inspection, the width of the basin was found to have bulged out to approximately 24.5". The basin was repaired back to specification. To prevent recurrence, the basin needs to be modified to reinforce the rim to mitigate the risk of use/motion bringing the dimensions out of tolerance.	Water Glass building	ISA-15 URRS Wastewater Treatment System
20303	SOLX TORIT DC-1070 Duct Downstream of VH-731 & 741 Modification	Cut and remove excess duct at the end of the main duct, downstream of VH-731 & VH-741 ventilation duct drop legs; reinstall access door. Phase 1 - VH-731 door #99; Phase 2 - VH-741 door #98	The excess duct downstream of the hoods is a dead leg without much airflow causing material to accumulate.	Dissolver Platform	ISA-01 Plant Ventilation System
20319	Storeroom replacement for obsolete Auxiliary Contact and related Cutler-Hammer contactor	Storeroom replacement for obsolete Auxiliary Contact for Cutler-Hammer contactor. This replacement also requires substitution for related contactor.	The part is obsolete and no longer available.	Storeroom part(s) for ADU Line 5 Hot Oil Dryer control panel.	Components

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20322	Replace obsolete V-1085 transfer line valves.	Replace obsolete V-1085 transfer line valves with new available valves. The valves are not functioning properly and are failing to open/close effectively. The level in V1085 is being controlled by draining volume of condensate into cream cans. SOLX cannot operate in this manner. This will be a two phase CCF. Phase 1 replace actuated valves with manual valves. Phase 2 add actuators to valve body's	The valves are not functioning properly and are failing to open/close effectively.	URRS SOLX	ISA-07 Solvent Extraction
20324	Substitution for Rod Line 7 Photohelic Gage/Switch	Substitution for Rod Line 7 Photohelic Gage/Switch	Switch is obsolete and manufacturer's recommended replacement is exact in form, fit, and function.	IFBA Rod Line 7	Components
20326	Pellet Grinder Line 3 Bowl Lift	Install bowl lift with upgraded skyhook lift Custom Model	Lift is worn and new lift is the upgraded design.	Pellet Grinder Line 3	ISA-08 Pelleting
20328	Remove Rental Air Compressors and Dryers	This CCF will be removing 3 Rental Air Compressors and 3 Rental Air Dryers that were installed under CCF 20217 (ZT315), CCF 20280 (ZT250), and CCF 20289 (ZR250). There will be 2 Phases to place the permanent compressors back into service that were removed. There will be a 3rd phase to remove the 3rd rental compressor and dryer and permanently abandon the one.	Compressors that were installed under CCF 20162 have been placed into service that will be signed off for startup prior to removing the rental equipment under this CCF.	Compressor Room #2 and Yard	Grounds
20330	Sintering Furnace Sight Port Glass Vendor and Part Number Change	The sintering furnace sight port glass part has been discontinued by Corning. This CCF will change the Vendor and Material	The current material is no longer available.	Sintering Furnaces	ISA-08 Pelleting
20346	ECG Electrical/Mechanical Changes	This CCF will replace the continuous positive #4 cable on the ECG machine with the manufactures recommended quick disconnect kit in order to prevent electrolyte from wicking through the cable into the electrical cabinet and will change current nickel plated spindle wheel adapter to approved stainless steel Wheel adapter.	Current cable is wicking electrolyte into the electrical cabinet and the ECG machine is down.	Grid Area ECG machine	Components
20350	Replace acid control valve FCV-1190D.	This project will replace the existing valve with an identical valve except it will have a G linear trim.	Existing valve is leaking	at Waterglass	ISA-15 URRS Wastewater Treatment System
20354	East Lagoon - Hot Water Tank Overflow Reroute	A three phase approach will be utilized for this change: Phase 1 – Remove existing piping, install elbow, valve, and hose routed to East Lagoon, lock open valve; Phase 2 - Remove hose, reinstall original piping (modify piping as needed to accommodate the ball valve); Phase 3 – Remove valve, install spacer spool as needed, reattach piping, field route piping to sump	The floor of the dike is currently experiencing high levels of moisture due to the discharge from the overflow line. Rerouting the discharge temporarily will allow the dike to be dried out prior to the scheduled work for the dike coating. Installing the valve in the overflow line allows for the hose to be isolated and removed once the dike is sufficient cured without having to schedule the work during an outage, as potential impact to production would be high due to the condensate that runs into the hot water tank.	1160 Waterglass Dike Area Hot Water Tank	ISA-06 Chemicals Receipt, Handling and Storage
20359	Cylinder Wash Drive Gearbox Replacement	The current Baldor gearboxes are no longer being manufactured. A Boston unit has been found as a replacement.	A replacement is needed.	Cylinder Wash Trailer	ISA-09 UF6 Cylinder Wash

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20363	Donaldson Cabinet 84 Filter Replacement	Replace obsolete sateen bag filter that contains metal mesh material with new style sateen bag filter that contains nonwoven polyester filter medium mesh (fiber material).	Old filters are obsolete and new style filters are the replacement per manufacturer.	SW Expansion Area	ISA-01 Plant Ventilation System
20387	Relocate Fire Detectors in Hot Oil Room	During a recent audit it was noticed that the two fire detectors in the hot oil room are not in the correct location per NFPA Code 72, section 17.6.3.1.3. These two heat detectors need to be raised closer to the ceiling.	The two detectors need to be raised to be compliant with the NFPA 72 code, section 17.6.3.1.3.	Chemical Side Hot Oil Room	ISA-03 ADU Conversion