



Westinghouse Electric Company
5801 Bluff Road
Hopkins, South Carolina 29061-9121
USA

Director, Office of Nuclear Material Safety and
Safeguards
U. S. Nuclear Regulatory Commission
Document Control Desk
11555 Rockville Pike
Rockville, Maryland 20852-2738

Direct tel: 803-647-2119
Direct fax: 803-695-3964
e-mail: courturf@westinghouse.com
Our ref: LTR-RAC-19-6

Date: January 23, 2019

SUBJECT: WESTINGHOUSE 10CFR70.72 FACILITY CHANGE REPORT

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 2018. 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 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) 647-2119.

Sincerely,



Gerard F. Couture, Principal Engineer
Licensing
Westinghouse Columbia Fuel Fabrication Facility
Docket 70-1151 License SNM -1107

Attachment 1: Westinghouse CFFF 2018 Facility Change Report (37 pages)

CC:

U. S. Nuclear Regulatory Commission, Region II
245 Peachtree Center Avenue NE, Suite 1200
Atlanta, GA 30303-1257
Attn: Mr. Tom Vukovinsky

U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Maryland 20852-2738
Attn: Mr. Matthew Bartlett - Mail Stop TWFN-4A60

2018 CCF Approved by Engineer for Startup

Name	Title	Description	Justification	ISA ID	Location
14209	Replace Induction Power Supply Primary Winding on Oxide Ctr 1	Replace induction power supply transformer primary winding on oxide coater 1.	Existing coil has failed and a direct replacement is not available.	Components	Oxide Coater 1 on the Mechanical side
15263	P-1165A Suction Wand	Install suction wand on feed to P-1165A to provide the ability to easily process waste liquids in the Waterglass area into T-1160B.	Emptying mop buckets and the like into F-1165 basins is a safety risk (strains/pulls).	ISA-15 URRS Wastewater Treatment System	URRS Outside/Waterglass
15347	Relocate UN Valve Station in Scrap Cage to UF6 Bay	Relocate UN tank valve station from scrap cage to UF6 bay so area behind control room can be used by a new process.	Existing valve station in the scrap cage is taking up valuable space.	ISA-11 Scrap Uranium Processing	Valves currently located in the scrap cage will be relocated to the UF6 bay
15419	Connection and Activation of Line 1 Calciner Combustion Airflow Transmitter FIT-S-109-6.	Connect the combustion airflow transmitter for Line 1 calciner to the SIS PLC and add programming to allow evaluation and data collection to determine flow range.	To establish the actual range of combustion air flow under normal conditions.	ISA-03 ADU Conversion	Line 1 Calciner
15422	Line 4 Ribbon Blender Outlet Plug Cylinder Speed Control Addition	Add cylinder bleed control plate to the line 4 ribbon blender outlet plug pneumatic cylinder circuit.	To provide speed control for opening and closing the cylinder.	ISA-08 Pelletizing	ADU Pelletizing/Line 4 Ribbon Blender
15453	Replace Line 1 High Temperature Pump Contactors for P111A/B and P131A/B/C/D	Replace Line 1 High Temperature Pump Contactors for P111A/B and P131A/B/C/D. Remove process line between V-112 and S-131 and associated controls.	The auxiliary contact package when disconnected prevents reset of the pump after a trip and requires maintenance to correct the issue. Similar to CCF 14-599.	ISA-03 ADU Conversion	Line 1 by Scrubber pumps
15480	Install Experion Rack to Support New Scrap Uranium Recovery Equipment	Install a new Experion C200 Rack to existing Common Services BPCS system.	Additional I/O is required for new process.	ISA-11 Scrap Uranium Processing	Scrap cage
15490	Dispensing system for Satellite Oil Station	The dispensing station inside the building (lab area adjacent to the pump rebuild shop) will dispense four (4) types of hydraulic fluids from the drum locker located outside the building (Reference CCF 17-063). Full description of the fluids to be dispensed and the operation of the dispensing station are attached to this CCF.	Elimination of waste containers that need to be disposed of in contaminated landfill. Reduced handling of drums and containers during maintenance operations.	Grounds	Along west wall of plant in the lab area adjacent to the pump rebuild shop on the chemical side of the operation.
15651	Conversion Line 1 Decanter Frame Replacement	Replace the decanter frame on conversion line 1 with a new frame that has been redesigned and fabricated.	The old frame has corrosion issues and is not rigid enough to operate the decanter at full RPM.	ISA-03 ADU Conversion	Conversion Line 1 Decanter

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Name	Title	Description	Justification	ISA ID	Location
15663	Install V-312 Surge Tank in Conversion	The project will remove the existing V-312 vessel and install a tank incorporating a new design. The motors for the P-312A and P-312B pumps will also be replaced with C-frame units. New acid resistant pumps and tank pads will also be installed. New piping will be installed as needed to connect to the new tank. An orifice will be added in the tank inlet from the bag filters.	Based on mechanical integrity investigations, Reliability Engineering recommends that all five surge tanks be replaced.	ISA-03 ADU Conversion	The new tank and pump assemblies will be installed in the location of the existing tank and pump assemblies.
15665	Install V-112 Surge Tank in Conversion	The project will remove the existing V-112 vessel and install a tank incorporating a new design. The motors for the P-112A and P-112B pumps will also be replaced with C-frame units. New acid resistant pump and tank pads will also be installed. New piping will be installed as needed to connect to the new tank. An orifice will be added in the tank inlet from the bag filters.	Based on mechanical integrity investigations, Reliability Engineering recommends that all five surge tanks be replaced.	ISA-03 ADU Conversion	The new tank and pump assemblies will be installed in the location of the existing tank and pump assemblies.
15666	Install V-512 Surge Tank in Conversion	The project will remove the existing V-512 vessel and install a tank incorporating a new design. The motors for the P-512A and P-512B pumps will also be replaced with C-frame units. New acid resistant pumps and tank pads will also be installed. New piping will be installed as needed to connect to the new tank. An orifice will be added in the tank inlet from the bag filters.	Based on mechanical integrity investigations, Reliability Engineering recommends that all five surge tanks be replaced.	ISA-03 ADU Conversion	The new tank and pump assemblies will be installed in the location of the existing tank and pump assemblies.
16193	Line 3 Moisture Sampler Modification	The sensor will be removed. The determination that a sample has been retrieved will rely only on another sensor.	The sensor currently in use is obsolete.	ISA-03 ADU Conversion	UO2 powder sampler
16194	Line 4 Moisture Sampler Modification	The sensor will be disabled. The determination that a sample has been retrieved will rely only on another sensor.	The sensor currently in use is obsolete.	ISA-03 ADU Conversion	UO2 powder sampler
16195	Line 4 Moisture Sampler Modification	The sensor will be removed. The determination that a sample has been retrieved will rely only on another sensor.	The sensor currently in use is obsolete.	ISA-03 ADU Conversion	UO2 powder sampler
16196	Line 5 Moisture Sampler Modification	The sensor will be disabled. The determination that a sample has been retrieved will rely only on another sensor.	The sensor currently in use is obsolete.	ISA-03 ADU Conversion	UO2 powder sampler

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Name	Title	Description	Justification	ISA ID	Location
16197	Line 5 Moisture Sampler Modification	The sensor will be removed. The determination that a sample has been retrieved will rely only on another sensor.	The sensor currently in use is obsolete.	ISA-03 ADU Conversion	UO2 powder sampler
16306	Demo of Abandoned HF Transfer Line - URRS	This CCF will demo the remaining abandoned 2" lined piping transfer line.	Clutter reduction on the pipe rack and in the Waterglass Building and eliminate source of unknown contamination that could be construed as HF.	ISA-06 Chemicals Receipt, Handling and Storage	South of the main process building (outside) and in the Waterglass Building
16392	Modify Cathode Ground Shield	Remove 0.125 inches from top edge of each long side of ground shield.	Increase gap between target retainer and ground shield.	ISA-14 IFBA Processing	F29IFBA/FA 1
16437	R53 Press Core Rod Holder Design Modification	Change the Core Rod Holder Base and Nut hex from 31/64" to 1/2".	To have a standard size hex and eliminate the need for an uncommon size wrench.	ISA-08 Pelleting	Pelleting-R53 Press
16442	Wash Tanks Electrical Modification	This CCF covers the electrical modifications to tanks 1, 2 and 3.		The wash tanks are obsolete and require replacement.	ISA-17 Final Assembly FA Wash Tanks
16492	Line 1 Dust Collector Chute Replacement	Replace OEM Dust Collector Chute per For Construction drawings.	OEM chute is cracked and requires replacement.	ISA-01 Plant Ventilation System	ADU Pelleting-/Line 1 Dust Collector
16609	CL1 - Calciner Safety Upgrades	Install new valving and instrumentation to improve safe operation of C-109 Calciner and adjacent equipment.	This CCF continues capital safety upgrades previously completed on CL2/3/4/5.	ISA-03 ADU Conversion	Conversion Line 1 Calciner
16663	IFBA COATER SSC Extraction	Separate the code in the IFBA Area application that deals with Coater SSC's.	Identify and separate programming that deals with SSC's.	ISA-14 IFBA Processing	IFBA/FA1 - for "Zone Area Process" this change will be for all coaters.
16664	ADU Sintering Furnace 3C Controls and Power Improvement	Replacement of the Drum Controller and current PLC with a graphic terminal and new PLC. Relocation of 480V SCR and other 120V and higher components to a safer location. Some furnace rebuild components (specifically switches, valves and transmitters) are being included in the scope of this CCF.	To address Obsolescence and Safety Concerns and rebuild upgrade issues	ISA-08 Pelleting	Pellet Sintering Furnace 3C

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Name	Title	Description	Justification	ISA ID	Location
16741	Erbia FL-9407 Filter House Modification	Remove the bag-in/bag-out system from each filter bank in the Erbia FL-9407 filter housing and replace any wire mesh pre-filters and HEPA filters with our standard S/R # 21230 pre-filter and S/R # 21500 HEPA filters.	This filter house has a bag-in/bag-out design to aid in filter removal. However, the design is for removing the pre-filter and HEPA filter simultaneously, which is currently not allowed. Removal of the bag will not affect the form, fit or function of the filter housing and filters. Elimination of the wire mesh filters will eliminate the separation of the wire from the burnable material.	ISA-01 Plant Ventilation System	Erbia/FL-9407
16742	Erbia FL-9404 Filter House Modification	Remove the bag-in/bag-out system from each filter bank in the Erbia FL-9404 filter housing and replace any wire mesh pre-filters and HEPA filters with our standard S/R # 21230 pre-filter and S/R # 21500 HEPA filters.	This filter house has a bag-in/bag-out design to aid in filter removal. However, the design is for removing the pre-filter and HEPA filter simultaneously, which is currently not allowed. Removal of the bag will not affect the form, fit or function of the filter housing and filters. Elimination of the wire mesh filters will eliminate the separation of the wire from the burnable material.	ISA-01 Plant Ventilation System	Erbia/FL-9404
16745	Installation of Sintering Furnace Infrastructure Wireway	Install Electrical Wireway from PLC Furnace Room to Entrance End of Furnaces 1-4 (A, B, & C).	Control Power and Controls (both Safety and BPCS) are being fed from the Furnace PLC room to allow adequate room for additional controls and to eliminate control panels on the factory floor.	ISA-08 Pelletting	Chemical Side - Pelletting
17065	UT2 Tank Heater Thermostat Upgrade	This CCF will replace the obsolete mechanical thermostat device with a new temperature controller for the UT2 Tank Heater.	The existing thermostat is obsolete. It will be replaced with a current model of digital temperature controller.	ISA-10 ADU Rods	QC Rods UT2
17073	Replace Line 1 Elevator Powder Lift SSC Controls	Replace the two level probes in the elevator with fork level probes using different manufactures (PELPREP-106 and PELPREP-107). Replace control wiring associated with the Elevator Shaft Door Closed SSC PELPREP-914.	The existing two level probes in the elevators are not failsafe.	ISA-08 Pelletting	Pellet Line 1
17075	Ammonia Still Product Piping	Re-configure ammonia product piping inside Still 1 building (relocated to outside building), removing archaic flow meters.	Ammonia product lines are overly complex and contain archaic flow meters.	ISA-06 Chemicals Receipt, Handling and Storage	URRS Outside/Still 1 Building

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Name	Title	Description	Justification	ISA ID	Location
17087	ADU Line 5 Dust Collector Fork Level Installation	Replace the obsolescent high and high, high level probes on ADU line 5 dust collector. Install a new control panel with individual alarms and controls for each level probe.	The manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	ADU line 5 Dust Collector
17088	SOLX Torit DC-936 Fork Level Installation	Replace the obsolescent high and high, high level probes on SOLX Dust Collector DC-936. Install a new control panel with individual alarms and controls for each level probe.	The manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	FL-936 SOLX Area
17089	URRS DC-993A and DC-993B Fork Level Installation	Replace the obsolescent high and high, high level probes on URRS Dust Collector DC-993A and DC-993B. Install a new control panel with individual alarms and controls for each level probe.	The manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	South West Decon Area FL-993A and FL-993B
17090	SOLX DC-1070 Fork Level Installation	Replace the obsolescent high and high, high level probes on SOLX Dust Collector DC-1070. Install a new control panel with individual alarms and controls for each level probes.	The manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	SOLX Dust Collector DC-1070
17099	Replace waste storage columns V-1014A-E.	This project will replace each existing column with a 8" diameter schedule- 40 316L, PTFE lined vessel. The section of the frame supporting the V-1014 vessels will also be modified. After all sections have been modified, the support frame will meet the criteria of FSS-018 Seismic Design Specifications. The stainless steel discharge piping will also be replaced with PTFE lined 316L stainless steel piping. A temporary barrier will be installed to protect the line 5 decanter hydromotor during this project.	The existing tanks have deteriorated and should be replaced.	ISA-11 Scrap Uranium Processing	Conversion Scrap Cage
17100	Replace waste storage columns V-1015A-E.	This project will replace each existing column with a 8" diameter schedule- 40 316L, PTFE lined vessel. The section of the frame supporting the V-1015 vessels will also be modified. After all sections have been modified, the support frame will meet the criteria of FSS-018 Seismic Design Specifications. The stainless steel discharge piping will also be replaced with PTFE lined 316L stainless steel piping. A temporary barrier will be installed to protect the line 5 decanter hydromotor during this project.	The existing tanks have deteriorated and should be replaced.	ISA-11 Scrap Uranium Processing	Conversion Scrap Cage
17104	Rod Weigh Programming Station Installation	Installation of Programming Station for Rod Weigh and QC Rod PLCs.	Facilitate maintenance troubleshooting of Rod Weigh and nearby Rod Soft Handling equipment.	ISA-10 ADU Rods	QC Rod Soft Handling Section "A" near existing Programming Station
17109	VFS1 Control Systems Upgrade	The scope of this project is to upgrade the current obsolete electrical control system to the latest manufacturer's standards.	Many components on VFS1 are obsolete and some not available anymore.	Components	Zirc Clean and Anneal room.
17126	Inspection Equipment (H) replacement.	In the grid area, replace existing Inspection Machine (H) with a new Inspection Machine (P) that is of similar model and has the same footprint. The new unit also uses the same utilities.	This is part of the overall inspection process improvement plan (Quality at the Source) in the grid area.	Components	Grid Inspection area

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Name	Title	Description	Justification	ISA ID	Location
17127	VIEW Inspection Equipment (J,K,L,B,M,I,N) replacement.	In the grid area, replace existing VIEW Inspection Machines (K,I,B,J,L,M,N) with new VIEW Inspection Machines (Q,R,S,T,U,V,X) that are of similar model and have the same footprint. The new units also use the same utilities (air and electrical).	This is part of the overall inspection process improvement plan (Quality at the Source) in the grid area.	Components	Grid View Inspection
17128	Simplex System Control ZAM Parts Replacement	Replace old control zam part number 2190-9163 with new control zam part number 4090-9008.	Control zam 2190-9163 is no longer manufactured.	Grounds	Fire protection plant-wide
17130	Seismic Analysis for Scrap Cage Liquid Waste Column and Precipitation Tank Frames	Physical modifications to the frame for the liquid scrap tanks were made to the frame under CCF's 17097, 17098, 17099, and 17100. Since the seismic analysis was performed on the fully modified frame only, the documentation of the analysis is accomplished through this CCF.	The V-1006A/B Precipitation Tank Frame drawing has been confirmed to meet FSS-018 requirements per CN-PEUS-17-01, "Seismic Qualification of Precipitation Tank V-1006A-B Support Frame per CFFF FSS-018. A new V-101 Scrap Cage Liquid Waste Column Frame drawing 333F08ST01, Rev. P1 has been created from sketches SKF-95164, sheets 1 and 2, and has been confirmed to meet FSS-018 requirements per CN-PEUS-17-02, "Analysis and Design Modification of Scrap Cage Tanks Support Frame."	ISA-11 Scrap Uranium Processing	ADU Conversion Scrap Cage
17134	Stock and Use Granular Chlorine for the Lagoon Systems	Stock and Use Granular Chlorine for the Lagoon Systems.	Regular sanitization of the river discharge vessels with granular chlorine will assure that there are not pockets of bacterial growth that can short circuit in-line chlorination processes.	ISA-06 Chemicals Receipt, Handling and Storage	River Discharge
17142	Remove BET-3 and Replace With New Unit.	In LINES room of main Chemical Lab, remove BET-3 model MS-21. Replace with new unit, BET-6 model MS-22.	BET-3 is obsolete and past it's shelf life.	ISA-18 Laboratories	Chem Lab - LINES Room
17143	Modify Line 9 Rod Repair Lathe Cutoff to add Counter	By adding a counter similar to the repair lathe in ADU, this will allow the area to enable an alarm to alert the operators to change the blade after 7 cuts.	Ensure better quality on reworks and minimize COPO.	Components	Tube Prep Repair Lathe
17156	Remove BET-4 and replace with new unit.	In LINES room of main Chemical Lab, remove BET-4 model MS-21. Replace with new unit, BET-7 model MS-22.	BET-4 is obsolete and past it's shelf life.	ISA-18 Laboratories	Chem Lab - LINES Room
17160	Retrofit Grid Laser #6 to Accommodate New and Existing Vacuum Pump	Replace the current vacuum pumps on the laser welders and perform required modifications on the lasers to accommodate the new pumps.	Original vacuum pump for the Grid Laser Machines is obsolete and no longer available from the manufacturer.	Components	Grid Area, Laser W6

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Name	Title	Description	Justification	ISA ID	Location
17183	Chilled Water Tie-In for Relocation of Piping from Above Bulk Room	Add Tie-In to allow relocation of chilled water piping above Bulk Room.	Bulk Room is a moderation control area.	ISA-05 ADU Bulk Powder Blending	Chilled water lines above bulk room
17194	Modify Slide Windows on the Front of the Blu-M Oven Hood for PL2	Modify the existing design and install a quantity of 5 smaller slide windows, which are similar to PLN5 auto-prep hood.	Allow for easier access to hood without modifying the face velocity to the hood.	ISA-03 ADU Conversion	Blu-M hood on the front end of Pellet Line 2
17197	P-1362B Start/Stop	Add a local start/stop button on P-1362B, DI Water recirculation pump.	Currently, operators have to start and stop the pump using the breaker, a potentially unsafe action.	Grounds	URRS Outside/DI Water Building
17202	IFBA Moisture Analyzer Line 7 (Dry Box)	Replace old control moisture image series unit with new moisture image series unit.	The older moisture image series is no longer manufactured and the 2 on-site are nearing their end of life.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA Line 7 Drybox
17204	Install a Chlorinator on the East Lagoon Recirculation Line	Install a Chlorinator on the East Lagoon Recirculation Line.	The current process does not provide adequate surface area chlorine tablet contact and does not provide a consistent dosage of Chlorine.	Grounds	Outside URRS/ East Lagoon
17209	Temporary installation of Carbon/Sulfur analyzer in the Chem Lab	Relocate Carbon/Sulfur analyzer in chem lab.	Verification of new Carbon/Sulfur analyzers to replace old obsolete Carbon/Sulfur analyzers.	ISA-18 Laboratories	Chem Lab
17216	Replace Breaker in RP3-4E for S-1030 Drive Building AC Unit on Roof	Replace Breaker in RP3-4E for S-1030 Drive Building AC unit on Roof.	Existing Breaker is sized at 30A, the manufacturer of the equipment recommends the maximum breaker size be 20A.	ISA-01 Plant Ventilation System	Panel is in S-1030 Drive Building and the breaker is for the AC unit that services the drive building
17222	Replace Carbon/Sulfur Analyzers with 2 new Carbon/Sulfur Analyzers	Replace Carbon/Sulfur Analyzers with 2 new Carbon/Sulfur Analyzers.	Replacing two old obsolete analyzers with two new analyzers.	ISA-18 Laboratories	Chem Lab
17225	Replace Discharge and Recirculation Piping on Conversion Scrap Tank V-1015 with New Piping	Replace Discharge and Recirculation Piping on Conversion Scrap Tank V-1015 with New Piping and change drawing 333F08PI01, sheet 01, note 3 to show the affected change.	Replacement with new SS exterior piping is a significant improvement for lifespan.	ISA-11 Scrap Uranium Processing	V-1015 Conversion Scrap Cage
17229	Replace Scrubber 2A and 2B Sump Level Controls	Replace Scrubber 2A and 2B Sump Level Controls.	The current level controllers are pneumatic, obsolete, and not working properly.	ISA-01 Plant Ventilation System	Scrubber 2A and 2B sumps in the conversion area scrap cage
17232	Coater 1 Controller Replacement	Replace Coater 1 Controller with an up-to-date version controller.	The older controllers are obsolete.	ISA-14 IFBA Processing	Coater 1
17233	Coater 2 Controller Replacement	Replace Coater 2 Controller with an up-to-date version controller.	The older controllers are obsolete.	ISA-14 IFBA Processing	Coater 2

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Name	Title	Description	Justification	ISA ID	Location
17274	Dew Point Analyzer Replacement on Thermal Stability Furnace A	Replace obsolete dew point analyzer model with newer series 5 on Thermal Stability Furnace A.	Existing part is obsolete and at the end of life.	ISA-08 Pelletizing	Thermal Stability Furnace "A"
17275	Install New Testing System in Position #2 in PE Lab	Install New Testing System in Position #2 in PE Lab.	Previous system was outdated and needed to be replaced.	ISA-18 Laboratories	PE Development Lab
17279	Implement Rod Pulling Device in PE Lab	Design and fabricate new portable tool for the Product Engineering Test Lab to load and unload beginning-of-life (BOL) fuel assemblies for full scale tests.	The PE Test Lab currently has no safe method of loading or unloading BOL assemblies.	ISA-18 Laboratories	PE Development Lab
17282	Individual Disconnect Installation for Waste Treatment Aerator's 1 and 2	Install individual disconnects for waste treatment aerators 1 and 2.	Creates LOTO point and ability to maintain process while performing maintenance to individual motors.	Grounds	Waste water treatment aerators 1 and 2
17284	Relocate AC unit compressor	Relocate AC unit compressor by doors at UF6 Bay.	This relocation will provide area to land loads from new monorail hoist.	Grounds	Area by back door outside of UF6 Bay
17286	C401A Vaporizer Lid Hold Down Bolts	Add three hold down bolts and replace the old hold down tabs.	This modification will bring the total amount of hold down bolts to 9, which is similar to the lines 1 & 2 vaporizers, which each have 10.	ISA-03 ADU Conversion	C401A Vaporizer
17301	UN Bulk Storage Containment Modification	Modify UN bulk storage containment to increase capacity.	The containment need to be enlarged to contain the majority of the tank's volume to protect the environment from an event.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	URRS outside bulk UN storage containment
17309	V1014 Recirculation Piping Replacement	Replace recirculation piping and discharge piping on Conversion Scrap Tank Pump P-1014 to Conversion Scrap Tanks V-1014C-E, V-1014A-B.	Existing 304 stainless steel pipe is deteriorating at a rapid rate causing numerous leaks.	ISA-11 Scrap Uranium Processing	Conversion Scrap Cage
17310	V1017 Recirculation Piping Replacement	Replace recirculation piping and discharge piping on Conversion Scrap Tank Pump P-1017 to Conversion Scrap Tanks V-1017C-E, V-1017A-B.	Existing 304 stainless steel pipe is deteriorate at a rapid rate causing numerous leaks.	ISA-11 Scrap Uranium Processing	Conversion Scrap Cage
17311	V1018 Recirculation Piping Replacement	Replace recirculation piping and discharge piping on Conversion Scrap Tank Pump P-1018 to Conversion Scrap Tanks V-1018A-E.	Existing 304 stainless steel pipe is deteriorate at a rapid rate causing numerous leaks.	ISA-11 Scrap Uranium Processing	Conversion Scrap Cage
17314	Power Monitoring Replacement	Replace power monitoring equipment (in Equipment Room #1) with a new power monitor.	Current power monitoring equipment is obsolete.	Grounds	Equipment Room #1 adjacent to MCC-7702
17332	Final Assembly Loader 4 Gore Track Extension	Add track extension to Loader 4 for the gore track in Final Assembly Area.	To keep the gore track from sagging into the ball screw once the carriage travels to the forward position.	ISA-17 Final Assembly	Loader 4

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Name	Title	Description	Justification	ISA ID	Location
17333	New Ramp from Conversion Platform (north side) to Roof Level	Install new access ramp from conversion platform to roof level.	Safety project that will mitigate at-risk behavior and at-risk conditions for employees while transitioning new and spent S-1030 filters to and from platform.	ISA-01 Plant Ventilation System	Directly adjacent to the weigh scales for the S-1030 spent filters on north side of conversion platform. Roof bay C-D and 5-6
17344	PLN3 Tray Conveyor Modified Pans Installment	Install modified pans on the pellet line #3 tray conveyor to allow for improved back end ECOs.	Eliminate pinch points and Improve effectiveness of line ECOs.	ISA-08 Pelleting	Pellet Line #3 at Pellet Tray Conveyor between Grinder and D&V Station
17345	PLN5 Tray Conveyor Modified Pans Installment	Install modified pans on the pellet line #5 tray conveyor to allow for improved back end ECOs.	Eliminate pinch points and Improve effectiveness of line ECOs.	ISA-08 Pelleting	Pellet Line #5 at Pellet Tray Conveyor between Grinder and D&V Station
17348	DI Water System Modifications	This CCF will serve as a Pre-Approved Level 2 Modification for any changes in the DI Water System in Outside URRS, including the DI Water Building Operation and the DI Water Trailer Operation.	The DI Water System as bounded by this CCF contains no uranium, and contains no Safety Significant Controls.	Grounds	DI Water/Outside URRS
17356	Tube Prep 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 Tube Prep area with an appropriate graded level of review and approval.	The CFFF configuration management process allows for an appropriate graded level of review and approval for certain types of modifications.	Components	Tube Prep area as marked on attached drawing
17357	Removal of electrical components, wiring, mechanical components and piping on ADU Sintering Furnace 1A	Remove all electrical components and wiring. Additionally, remove process piping and valves, along with brick and heating elements.	The furnace is in need of a complete rebrick and heating element replacement.	ISA-08 Pelleting	Chemical Side - Pelleting - ADU Sintering Furnaces
17361	Removal of electrical components, wiring, mechanical components and piping on ADU Sintering Furnace 3A	Remove all electrical components and wiring. Additionally, remove process piping and valves, along with brick and heating elements. Remove pellet pan storage shelves on one side.	The furnace is in need of a complete rebrick and heating element replacement.	ISA-08 Pelleting	Chemical Side - ADU Pelleting
17362	ADU Sintering Furnace 1A Controls and Power Improvement and Major Furnace Rebuild	Replace the drum controller and current PLC with a graphic terminal and new PLC to include other additions and upgrades as required.	To address Obsolescence and Safety Concerns and upgrade issues.	ISA-08 Pelleting	Pellet Sintering Furnace 1A
17367	Chiller #7 (Equipment Room #3) Demo	Disconnect Chiller #7 piping from the chilled water and condenser water headers. Disconnect electrical wiring and conduit from Chiller #7 starter panel. Dismantle the chiller into 3 pieces: evaporator, condenser, and compressor/motor.	Chiller #7 is not economical to repair.	Grounds	Equipment Room #3

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Name	Title	Description	Justification	ISA ID	Location
17370	Chiller #6 (Equipment Room #3) Demo	Remove the refrigerant from Chiller #6. Disconnect Chiller #6 piping from the chilled water and condenser water headers. Disconnect electrical wiring and conduit from Chiller #6 starter panel. Dismantle the chiller into 3 pieces: evaporator, condenser, and compressor/motor.	The source of numerous failures has not been determined and the machine is not reliable.	Grounds	Equipment Room #3
17371	Automated Rod Length Measurement at Rod Inspection	Add a sensor to the existing CRMS Computer to allow direct input of rod length.	Eliminate numerous manual rod length entries.	ISA-10 ADU Rods	Mechanical Side - Final Rod Inspection
17373	FL-9405A Inlet Duct Elbow Repair	Seal crack on FL-9405A inlet duct elbow(galvanized material) with fiberglass 470 vinyl ester resin and cloth.	The elbow has a stress crack that can suck water in, if not sealed.	ISA-01 Plant Ventilation System	FL-9405A Elbow
17376	IFBA Oxidation Oven Replacement	Replace IFBA Oxidation Oven.	The existing oven is obsolete.	ISA-19 Hoods and Containment	IFBA Oxidation Oven
17378	Ribbon Blender/ECO Assist Gantry Installation	Install ribbon blender/ECO assist gantry	Safety/operator ergonomics improvement.	ISA-08 Pelleting	Pellet Line 4, Ribbon Blender Hood
17380	IFBA Oxidation Oven Replacement	Move rack currently across aisle from the oven to the south by 24 inch and re-anchor to floor and rotate Champs station to face south.	Rack must be moved to provide space for the oxidation oven control panel.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA oxidation oven
17386	Fire Pump House #2 Alarm Additions	Tie Fire Pump #2 Common Trouble Alarm and Fire Water Tank T-8208 low level alarm into the CFFF fire alarm system and upgrade the obsolete monitoring devices being useon the Fire Pump #2 system.	Fire Protection Improvements.	Grounds	Fire Pump House #2
17390	Install additional tabs on C301A like Line 4 CCFs 17278 & 17286	This CCF will add an additional three tabs for C301A.	Additional tabs will improve the sealing efficiency of the lid.	ISA-03 ADU Conversion	Line 3 "A" Vaporizer
17394	Modify West II to West I Discharge Line to Accommodate Cleanout	Modify West II to West I Discharge line to accommodate cleanout.	Solid buildup causes restrictions that limit pump out capacity from West II to West I.	Grounds	West I and West II Lagoon

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Name	Title	Description	Justification	ISA ID	Location
17396	Furnace Area Filter House FL-2276, filter differential pressure measurements upgrade.	Replace the existing differential pressure gauge/switches with the functional equivalent gauge/switches.	The existing gauges cannot be read in the sunlight.	ISA-01 Plant Ventilation System	Sintering Furnace Filter House FL-2276 on the Roof
17397	Furnace Area Filter House FL-2278, filter differential pressure measurements upgrade.	Replace the existing differential pressure gauge/switches with the functional equivalent gauge/switches.	The existing gauges cannot be read in the sunlight.	ISA-01 Plant Ventilation System	Sintering Furnace Filter House FL-227 on the Roof
17398	Furnace Area Filter House FL-2279, filter differential pressure measurements upgrade.	Replace the existing differential pressure gauge/switches with the functional equivalent gauge/switches.	The existing gauges cannot be read in the sunlight.	ISA-01 Plant Ventilation System	Sintering Furnace Filter House FL-2279 on the Roof
17403	Ladder Replacement FL-5922 Platform	Replace ladder with stairs at FL-5922 platform located near the Chemical Development area.	Existing ladder does not meet today's standards.	ISA-18 Laboratories	Chemical area near Chemical development lab.
17405	in Still #1 Cooling Tower Cold Water Basin Liner Replacement	Replace the existing failed liner from the cold water basin in Still #1 cooling tower.	The existing cold water basin liner in Still #1 cooling tower has failed.	Grounds	Ammonia Still #1 Cooling Tower
17412	Scrap Cage Oxidation Oven Testing	Test a different filter media to determine if the different filter media will lengthen the service life of the filter.	Part of the CO program reducing uranium bearing materials going to the S-1030.	ISA-01 Plant Ventilation System	These two units are located in the scrap cage area in the conversion area
17416	ADU 1B Furnace Cooling Water Modification	Replace existing element leg cooling glands with new, improved cooling glands.	New cooling glands will be able to compensate for alignment issues, provide improved sealing and improved cooling.	ISA-08 Pelletting	ADU Pelletting 1B Sintering Furnace
17422	Ash Residue Dissolver Disconnect and Electrical Panel Removal	Remove disconnect and electrical panel for abandoned ash residue dissolver in the old chemical Development Lab.	The panel and disconnect need to be removed to make way for a stairway.	ISA-18 Laboratories	Chemical side, between the Electrical step off pad and the Maintenance step off pad.
17425	VIPER Dual Assembly Hexagonal Housing - Partial assembly wall and Simulated Bottom Nozzle Modification	Modify the VIPER dual assembly hexagonal flow housing partial assembly wall.	To accommodate different grid elevations from the fuel that was previously tested, as well as a new simulated bottom nozzle.	ISA-18 Laboratories	VIPER Loop - Product Engineering Development Lab
17437	Modification of Frame for ADU Sintering Furnace 1A	Modify ADU Sintering Furnace 1A frame.	The clearance in front of the heating element controls cabinets and their supports needs to be a minimum of 42 inches.	ISA-08 Pelletting	Chemical Side - Pelletting Area (ADU Sintering Furnaces)

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Name	Title	Description	Justification	ISA ID	Location
17439	HF storage tank T-1174 Increase to the Maximum Level of 95% filled	Install an orifice in the air line to diaphragm pump P-1192 to set an upper limit on the air pressure at 15 psig.	We were not able to completely unload the last delivery truck before the level in the tank reached 80%. Our contract with the HF vendor requires that he return with an empty tank.	ISA-06 Chemicals Receipt, Handling and Storage	Outside in the HF diked area
17440	Chiller #7 (Equipment Room #3) Replacement	Install a new 500 ton chiller.	Current #7 centrifugal chiller utilizing R134a is not economical to repair.	Grounds	Equipment Room #3
17442	Chiller #6 (Equipment Room #3) Replacement	Install a new 500 ton chiller.	Current #6 centrifugal chiller utilizing R134a is not economical to repair.	Grounds	Equipment Room #3
17443	New TP BAR Vibratory Feeder and Vacuum Pump	Install new Vibratory Feeder and Vacuum Pump in TP BAR.	To support new campaign requirements.	Components	TP BAR
17446	Installation of an O2 Monitor in TPBAR	Provide power and installation of an O2 monitor and sensor near the area the pellet storage containers will unpacked and refilled.	The addition of an oxygen monitor in the area is somewhat beneficial but not required for improving safety, regulatory compliance and/or operability.	Components	TPBAR facility
17447	Chiller #5 Demo (Equipment Room #3)	Remove the refrigerant from Chiller #5. Disconnect Chiller #5 piping from the chilled water and condenser water headers. Disconnect electrical wiring and conduit from Chiller #5 starter panel. Dismantle the chiller into 3 pieces: evaporator, condenser, and compressor/motor.	Current #5 centrifugal chiller utilizing R134a is not economical to repair.	Grounds	Equipment Room #3
17448	Door Chamfer Latch Swing Bolt Slot Addition	Add chamfer on door latch swing bolt slot on 418F10EQ04, Item 184, door yoke wear block.	Door seal leaks.	Grounds	Grid area, laser welders
17457	Steam Bypass Valve Replacement	Replace C-401B steam bypass valve (XV-401B-1) with ball valve identified in FSS-003-16 Piping Spec.	Steam bypass valve was leaking.	ISA-03 ADU Conversion	ADU Line 4, C-401B Vaporizer, Valve # XV401B1 under grating
17459	Chiller #5 (Equipment Room #3) Replacement	Install a new 500 ton chiller.	#5 centrifugal chiller utilizing R134a is not economical to repair.	Grounds	Equipment Room #3
17466	Removal of Rental Chiller from Equipment Room #3	Close system isolation valves in Equipment Room #3 and drain chilled water supply and return hoses for the rental chiller. Remove chilled water supply and return hoses from rental chiller to system isolation valves. Remove the 400 ton air cooled chiller and generator for Equipment Room #3 from site.	Rental chiller is no longer needed.	Grounds	Equipment Room #3
17468	BWR Magazine Track and Cart Guides Removal	Remove the BWR track and rod channels for carts.	To prevent a tripping injury.	ISA-17 Final Assembly	Bay E-F & 11-12 BWR Rod Loading

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Name	Title	Description	Justification	ISA ID	Location
17470	S2A/2B Bag Filters Blow Down Air Regulator	Install air regulator in the instrument air line that supplies air to the 2A/2B bag filters in Conversion area.	Air regulator will be used to prevent blowing 120 psi air into the bottom of the cyclone separator.	ISA-01 Plant Ventilation System	2A/2B Scrubber Bag Filters
17471	Vacuum Mounted Rotary Turbine Type Pneumatic Vibrator on Bulk Feed Tanks	Allow for use of vacuum mounted rotary turbine type pneumatic vibrator on bulk feed tanks.	Provide a more robust and reliable vibrator for operations to use for processing the ADU bulk feed tanks.	ISA-08 Pelleting	Bulk Container Enclosure/Bulk Containers on ADU Pellet Lines 1, 2, 3, 4 and 5
17472	2A/2B Scrubbers' Access Doors Installation	Install access door on duct openings 89 and 90 on the duct from the S-2A/2B scrubbers.	The temporary covers are difficult to handle.	ISA-01 Plant Ventilation System	Roof
17473	Scrap Cage Tanks V-1017A-E, V-1018A-E, and V-1006B Elbows Installation	Install elbows in weep holes on scrap cage tanks V-1017A-E, V-1018A-E, and V-1006B.	Increases personnel safety.	ISA-11 Scrap Uranium Processing	Scrap cage
17476	Laser Welder #3 Door Latches Modifications	Modify door latches on laser welder #3 to add clearance for swing bold base circle by adding a chamfer to the item 184 door latch wear block.	Allows a potentially tighter seal of the door to the door gasket.	Components	Grid Area
17477	VFS-1 Vacuum Valve Replacement	Replacing current Main Gate Valve on VFS1 with new valve Part Number: LPWA-10A-ASA-N8-20-V-EP-110-TAP.	Control System upgrades.	Components	Zirc Strap Cleaning & Annealing
17478	Change in Incinerator Quench Column refractory brick replacement	Repair the refractory brick in the incinerator quench columns.	The refractory brick is eroded and needs to be replaced.	ISA-13 Low Level Radioactive Waste Processing	Incinerator room
17479	Portable Refueling Station Purchase	Purchase Portable Refueling Station that adheres to the applicable codes and standards.	The Portable Refueling Station is a dispensing method to pump No. 2 Fuel Oil to Facilities equipment such as the fire pumps, generators and air compressors.	Grounds	Portable Refueling trailer will be attached to golf cart, truck, or tractor
17480	Strap Making Stations Installation	Install Strap Marking Stations in Grid Build Stations #1 and #2.	Additional need.	Components	Grid Braze Station STN4240 and STN4241 within Bays 17-18 and B-C
17482	1030 Check Valve Installation	Install a check valve in the pipe that goes from the 1030 pumps to Q tanks.	The check valve will prevent back flow from the 1005 pumps to the 1030 scrubber system.	ISA-01 Plant Ventilation System	Scrap Tank Area
17483	Check Valve in 1030 Bag Filter Blowdown pipe.	Install a check valve in the blowdown pipe that goes from the 1030 filters to tank V-1030E.	The check valve will prevent backflow from the tank to overflow the filters.	ISA-01 Plant Ventilation System	Conversion at filter FL-1030CX area
17484	Laser Welder #5 Modification	Modify Door latches on laser welder #5.	Allows a potentially tighter seal of the door to the door gasket.	Components	Mechanical Side Grid Area
17485	Laser Welder #6 Modification	Modify Door latches on laser welder #6.	Allows a potentially tighter seal of the door to the door gasket.	Components	Mechanical side grid area

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Name	Title	Description	Justification	ISA ID	Location
17488	Instrumentation holes Addition to the Hexagonal FACTS Flow Housing	Add additional instrumentation holes to the hexagonal FACTS flow housing.	Addition of 6 new displacement transducers.	ISA-18 Laboratories	PE Lab, Facts Loop
17491	Demo FN962 to allow it to be replaced.	Remove FN962 from roof to allow for installation of a new fan.	Existing fan and motor that makes up FN962 is oversized.	ISA-01 Plant Ventilation System	Roof
17492	S4025 Plating Room Scrubber Fan Replacement	Replace the epoxy coated carbon steel fan at S4025 Plating Room Scrubber with the FRP fan as designed.	Current hood is obsolete.	Components	Above Plating Room
17493	FN962 Replacement Fan Installaton	Install fan and add VFD to control the fan instead of damper system, which is currently used.	Existing fan is oversized.	ISA-01 Plant Ventilation System	Roof
17494	Demolition of Incinerator System 6A Ventilation	Permanently remove ductwork associated with the incinerator 6A system.	This work is in preparation for installation of new duct, demisters, duct heater, and filter houses.	ISA-01 Plant Ventilation System	From the absorbers in the incinerator room to the vent stack on the roof above the penthouse
17495	Incinerator 6A Ventilation Modifications	Reconfigure Incinerator 6A Ventilation.	Chloride Stress Corrosion Cracking (CSCC), inefficient dewatering system, heater failures.	ISA-01 Plant Ventilation System	Incinerator room and penthouse
17498	Elevated Drain Screens In Each Vaporizer	Redesign and fabricate the current basket and elevated screens to prevent common cause failure.	Installing elevated drain screens would eliminate common cause failure of the drains and allow for crediting both drains independently in the Criticality Safety Evaluation.	ISA-03 ADU Conversion	Both Vaporizers on Conversion Lines 1-4
17499	Level probe replacement	Replace probe with level switch for high level interlock.	The new probe is more reliable.	ISA-08 Pelleting	Pellet Sintering Furnace 1B
17503	Dissolver XV-S-748A/B Removable Guard Rail	Install a 3' high X 4'5-1/2" wide removable guard rail (powder-coated yellow).	To prevent damage to valves identified in ARC 100396442.	ISA-07 Solvent Extraction	XV-S-748A/B valves near main aisle
17505	Pellet (Tray) Casket Cart Modification	Add two additional swivel casters and reposition the fixed casters.	Additional maneuverability is needed from the carts.	ISA-08 Pelleting	CFFF, Pelleting, Pellet/Tray Transportation
17509	Scrap Cage Oxidation Oven Platform and Plenum reorientation	Addition of a platform over the scrap cage oxidation oven hood and rotate the two plenums 180 degrees.	Part of the Confirmatory Orders, uranium carryover mitigation efforts.	ISA-19 Hoods and Containment	Between the scrap cage oxidation ovens and the S1008 platform
17512	Viper Loop Interposing Relay Installation	Install a new interposing relay between the Fire Alarm Zone Addressable Module and the motor starter for the Viper Loop roof exhaust fan.	Premature failure of the fire alarm zone addressable module due to current load from motor starter.	Grounds	Viper Loop in PE Lab

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Name	Title	Description	Justification	ISA ID	Location
17514	Beryllium Fume Hood Replacement in Non-Fuel Area	Replace Beryllium Fume Hood in Non-Fuel Area with new Ductless Fume Hood.	Hood has been purchased.	Clean Side Rod Area	Non Fuel area behind WABA room
17515	Substitution for non-SSC Control Valves	This CCF will allow the substitution of non-SSC Control Valves. Evaluation Criteria the valve must physically fit, perform the intended process function, be constructed of materials which are compatible with the process, and be compatible the process control function.	This CCF would give the CFFF the ability to substitute control valves which could provide us many benefits; longer life, better performance, increase uptime, and allow for replacement of obsolete (i.e., unavailable) valves with readily available units.	Components	Columbia Fuel Fabrication Facility (CFFF)
17517	Conversion Decanter Rotating Assembly	Document a new rotating assembly that has been manufactured from reverse engineered drawings. The new rotating assembly could be used on any of the decanters.	This is a replacement assembly for the decanters.	ISA-03 ADU Conversion	Conversion Decanter Lines
17518	Pelleting Furnace 5A Door Slave Pilot Piping and Programming Modifications.	Modify the natural gas piping for Furnace 5A load and unload door slave pilots. Install programming updates to SIS and BPCS PLCs.	To provide fully independent adjustment of the slave pilots and improve their reliability.	ISA-08 Pelleting	Pellet Sintering Furnace 5A
17520	Vibratory Bowl Feeders Modification	Modify the bowls on pellet lines 1-6 and Erbia/line 7's vibratory bowl feeders to eliminate hold up points where rogue pellets can become stuck.	Modifications are being implemented to address a customer observation in which a rogue annular pellet was found stuck in one of the void spaces while the customer contract was running a solid pellet.	ISA-08 Pelleting	ADU Pelleting Lines 1-6 Grinder Vibratory Feeder, Erbia Pelleting/Line 7 Grinder Vibratory Feeder
17522	ADU Hot Oil Dryer Fire Detection Systems for Lines 2 through 5	Install system on each of lines 2-5 to provide early detection of fire at the hot oil dryers by sensing excessive temperature.	This installation will improve safety by providing automated response to a fire rather than relying on human detection.	ISA-03 ADU Conversion	ADU Lines 2-5 Hot Oil Dryers and Hot Oil Room
17523	Grinder Line 6 New Replacement Ram Bed Installation	Install a new ram bed on grinder line 6.	Eliminate obsolescence and operational issues, which were associated with the roll screw type ram bed assembly.	ISA-08 Pelleting	ADU Pelleting/Grinder Line 6
17524	Conversion Lines 2 Through 5 Dryers Fire Detection Thermocouples Installation	Install thermocouples on hot oil dryers 2, 3, 4 and 5. The thermocouples are to be used for fire detection. Also see CCF 17522 for the electrical scope.	To add fire detection to the dryer area to detect a hot oil fire.	ISA-03 ADU Conversion	Conversion Dryers

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Name	Title	Description	Justification	ISA ID	Location
17525	Butler Building Rollup Door Replacement	Replace and upgrade the Butler Building east side roll up door with 16'W X 12'H commercial grade rollup door.	Current door is not working.	Grounds	Butler Building
17526	ADU Line 1 Calciner Safety Upgrades Phase II	Install instrumentation and equipment related to the Line 1 Calciner and Scrubber upgrades.	The addition of these controls will provide defense-in-depth in the active engineered control systems for hydrogen deflagration mitigation.	ISA-03 ADU Conversion	ADU Line 1 Calciner and Scrubber
17528	UCVS Skid Demobilization	Disconnect the UCVS skid electricity and mechanical components and package and ship.	The UCVS Skid was on loan to CFFF from SRS/PNNL.	ISA-03 ADU Conversion	UF6 PAD
17530	Demo FN961	Remove FN961 from roof to allow for installation of a new fan.	Existing fan and motor which makes up FN961 is oversized and has caused issues with the safety basis of the plant.	ISA-01 Plant Ventilation System	Roof
17531	FN961 Replacement Fan Installation	Install fan and replace VFD to control the fan.	Existing fan is oversized for the application and can cause safety basis issues for the plant.	ISA-01 Plant Ventilation System	Roof
17532	ADU Line 5 Dryer Condenser Replacement	Replace dryer condenser on ADU line 5.	Obsolescence. Existing condenser is leaking.	ISA-03 ADU Conversion	ADU line 5 in Conversion
17533	Replace dryer condensers on ADU line 2	Replace dryer condenser on ADU line 2.	Obsolescence.	ISA-03 ADU Conversion	ADU line 2 in Conversion
17534	Replace dryer condenser CO-126 on ADU line 1	Replace dryer condenser on ADU line 1.	Obsolescence.	ISA-03 ADU Conversion	ADU line 1 in Conversion
17535	Modification of Air Supply to Vacuum Mounted Portable Vibrators for ADU Bulk Feed Tanks (Pellet Lines 1-5)	Modify the air supply to the vacuum mounted portable vibrators on pellet lines 1-5.	To prevent continuous running of the vibrator, which can lead to compaction of the powder within the bulk container.	ISA-08 Pelleting	ADU Pelleting Bulk Container Enclosures Lines 1-5
17536	ADU Sintering Furnace 1B, 1C, 2A, 2B, 2C, 3B, 4A, 4B, 4C and 5B BPCS and SIS Control Back plate Installation and Connection	Mount and terminate power/network connections of BCPS and SIS back plates for furnaces.	Allow for pre-installation of the controls back plates to support future cutover of sintering furnaces.	ISA-08 Pelleting	Chemical Area - Pelleting
17537	Met Lab Autoclave Power Feed Relocation	Swap power feeds for Met lab Autoclave Systems 1 and 2.	To determine if one of the two 80A breakers is defective.	ISA-18 Laboratories	Chemical Area - Pelleting

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Name	Title	Description	Justification	ISA ID	Location
17538	Relocation of Power Feed for Pellet Line 5 Dryer Oven and D&V Hood Blowers	Relocate power feed from Buss Duct 07C-07D to MCC-2223.	Obsolete Buss Duct and to address grounding and safety concerns with accessing buss duct cans.	ISA-08 Pelleting	Chemical Side - Pelleting
17539	Relocation of Power Feed for Pellet Line 6 Grinder and Laminar Flow Hood	Relocate power feed from Buss Duct 07C-07D to MCC-2223.	Elimination of Buss Duct and to address grounding and safety concerns with accessing buss duct cans.	ISA-08 Pelleting	Chemical Side - Pelleting
17540	Relocation of Power Feed for ADU Rod Line 1 Girth Welder and Seal Welder	Relocate power feed from Buss Duct 07C-07D to MCC-2223.	Elimination of Buss Duct and to address grounding and safety concerns with accessing buss duct cans.	ISA-10 ADU Rods	Chemical Side - ADU Rod Lines
17542	ADU Furnace PLC Room Stair Modifications	Move the stairs on the west side of Furnace 1A leading up to the mezzanine to the West a minimum of 3".	Heating Element Controls Cabinet and other 480V components are being relocated from beneath the furnace to the entrance of Furnace 1A directly across from the stair case leading up to the mezzanine in the Pelleting/Furnace Area.	ISA-08 Pelleting	Chemical Side - Pelleting/Furnace Area Mezzanine
17547	Demolition of Duct Work on old Map Control Room HVAC System and Installation of a New HVAC System	Demolish old HVAC ventilation in old MAP Control Room and install a blind on remaining old duct as noted on drawing. Install HVAC (split unit) for DCS Controls Room (inside Auxiliary Control Room).	A section of the Old MAP control room is being re-purposed for DCS Equipment operational area.	ISA-03 ADU Conversion	Chemical Side - Old MAP Control Room
17552	Line 3 Strong back Installation	Install 361F05EQ18 strong back and 361F05EQ19 Load Block Adaptor in the Line 3 Bulk Container room to replace the 66560 Strong back.	The 66560 strong back is one of our older strong backs and does not meet a 5:1 Safety Factor.	ISA-08 Pelleting	ADU Pelleting \ Line 3 Bulk Container Room
17554	Fire Alarm Speaker Additions for 2nd Floor Main Office Area	Add speakers to the 2nd Floor main office area.	Fire Improvement Excellence Project.	Grounds	2nd Floor Main Office Area
17555	IFBA Fire Alarm Speaker/Horns Additions	Add Fire Alarm Speaker/horns to IFBA Coater Power Supply Room and 3rd FL Tech Shop.	Fire Improvement Excellence Project.	Grounds	Coater Power Supply Room and 3rd FL Tech Shop
17556	URRS Fire Alarm Speaker/Horns Additions	Install 4 new speakers installed in series between two existing speakers.	Fire Improvement Excellence Project.	Grounds	EPA Building and Outside URRS

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Name	Title	Description	Justification	ISA ID	Location
17557	ERBIA Chiller Cooling Tower Repairs	Repair the leaking seams in the single cell ERBIA chiller cooling tower cold water basin.	The cold water basin seams are leaking in the ERBIA cooling tower.	Grounds	ERBIA Chiller Cooling Tower
17558	Cooling Tower Chemical Treatment Upgrade	Replace the existing cooling tower chemical controller with an advanced model.	To allow for a free chlorine residual to be maintained in the cooling tower to address the bio-growth.	Grounds	ERBIA Furnace Hot Well/-Cold Well
17563	Still #1 and Still #2 Cooling Tower Chemical Treatment Upgrade	Replace the existing cooling tower chemical controllers with an advanced model.	The advanced controllers will allow for a free chlorine residual to be maintained in the cooling tower to address the bio-growth.	ISA-06 Chemicals Receipt, Handling and Storage	Still #1 and Still #2 Cooling Tower
18001	Oxidation Oven Door Wire Rope Clips Substitution	This CCF will allow the substitution of non-SSC wire rope clamps for oxidation ovens.	To replace parts or equipment with components that meet the equivalency criteria for form, fit, and function	ISA-19 Hoods and Containment	For all oxidation oven Door Lifting Mechanisms. Includes Areas in Pelleting, Erbia, Conversion/Scrap Cage, URRS, and IFBA
18003	Equipment Room #1 Chiller Cooling Tower Repairs	Repair the leaking seams in the Equipment Room #1 chiller cooling tower cold water basins.	The cold water basin seams are leaking in the Equipment Room #1 cooling towers.	Grounds	Equipment Room 1 Cooling Towers
18008	Portable Ventilation for Incinerator Refractory Repair	Attach portable ventilation unit duct to the vent pipe above one of the quench columns.	To provide ventilation airflow and minimize airborne during refractory repair work inside the incinerator chamber.	ISA-01 Plant Ventilation System	Incinerator Room
18009	CCC-750A, B and C Replacement	Replace Dirty Dissolver Channels.	Equipment is 20+ years old and has issues with leaks.	ISA-04 Safe Geometry Dissolver	URRS
18010	P-1015 Discharge Piping Pulsation Dampener Addition	Add pulsation dampener to P-1015 discharge piping.	Adding a pulsation dampener will reduce vibration and slug flow.	ISA-11 Scrap Uranium Processing	Scrap Cage Conversion
18012	Tooling Office Door Installation	Add doorway to provide access to the ECG enclosure roof.	A doorway is a cost effective and safe way to access the roof.	Grounds	Tool Room Office
18017	Liquid scrap tanks V-1006A/B Level Reduction	Decrease maximum level in liquid scrap tanks V-1006A/B.	Reduce the risk of tank overflows in V-1006A/B.	ISA-11 Scrap Uranium Processing	Scrap cage - Conversion

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Name	Title	Description	Justification	ISA ID	Location
18018	Conversion Wash Machine #2 Ventilation Modification	Disconnect ventilation duct from Wash #2-and install a 4" flexible articulating fume arm on to the ventilation duct. C172	Operation needs another flexible articulating fume arm for cream can acid fumes when lid is open.	ISA-11 Scrap Uranium Processing	RE-1010 Conversion Wash Machine
18019	Modify front panel of ADU Scrap Lathe	Modify front panel of ADU Scrap Lathe to make openings large enough to work in and have access for cleaning.	Listed on Top 5 ADU Safety Hazards.	ISA-10 ADU Rods	Near ADU pass through window and Scrap hood
18020	Change Thimble line thermal compensator air pressure supply	Change Thimble line thermal compensator air pressure supply.	To eliminate end stop movement during the electrode set up.	Clean Side Rod Area	Near Dashpot Robot
18021	Level transmitter on V-19	Suggest Level transmitter 3051L3AAOFH2AAAM5 -as an alternate to level transmitter 3051L3AA4FH2AAAM5.	The option of either transmitter is necessary due to the long lead time of 3051L3AA4FH2AAAM5. The transmitters are identical, except that one is flush mount and one has a four inch extension.	ISA-03 ADU Conversion	CL1-CL5, V-19 tank
18022	UN bulk storage tank spill deflector	Install UN bulk storage tank spill deflector.	The cover will prevent liquid from spilling over the dike wall if a tank or pipe line was to leak.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	URRS outside UN bulk storage area
18023	Non Fuel Area Modifications	Set the requirements for a Pre-Approved Level 2 Modification that allows future work to be performed in the Non Fuel production area with an appropriate graded level of review and approval.	The CFFF configuration management process allows for an appropriate graded level of review and approval for certain types of modifications.	Components	Non Fuel area as marked on attached drawing
18025	Fire Pump House #1 Upgrades	Upgrade the controller and replace the jockey pump for Fire Pump #1.	The existing fire pump controller cannot be upgraded to accept the additional alarm points.	Grounds	Fire Pump House #1
18026	Fire Pump #2 Upgrades	Replace the existing fire pump controller for fire pump #2.	The existing fire pump controller cannot be upgraded to accept the additional NFPA 20 required alarm points.	Grounds	Fire Pump House #2
18027	CPVC Replacement on Sintering Furnace 3	Replace CPVC piping with Cast Iron piping between header isolation valve and the sintering furnace isolation valves.	The CPVC piping is not aligning with the cast iron piping for Sintering Furnace 3C.	ISA-08 Pelleting	Chemical Side - Pelletizing Sintering Furnaces
18028	Modification of Conduit Run from Pelletizing Area Mezzanine to Line 1 Control Panels.	Modify the conduit routing between the Pelletizing Area mezzanine main nitrogen header pressures switches.	To permit removal of furnace 1A out-of-service control panel.	ISA-08 Pelletizing	Pelletizing Line 1 control panels-
18030	Addition of Hold Down Plates to Pin Stamp	Incorporate TDR2851 with the pin stamp unit. This includes the addition of 7 hold down plates above the rails.	To prevent issues when tubes are getting loaded onto the rollers.	Components	Pin Stamp

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Name	Title	Description	Justification	ISA ID	Location
18031	Installation of new pull tester in the Grid Area	Update the arrangement drawing for the installation of the new pull tester.	Equipment upgrade for old pull tester.	Components	Next to SU3 spot welder
18032	Final Assembly Wash Tank Replacement	Replace current 3 wash tanks with 2 new wash tanks. Upgrade anchoring and bracing to meet CSE Seismic requirements.	To meet NPH CSE seismic requirements and mitigate tank reliability issues.	ISA-17 Final Assembly	Final Assembly Wash Pit
18034	Chem Lab Moisture Hood Left Red Door Removal	Remove Left Red Door from Moisture Hood Outside Chem Lab in response to CAPAL issue 1004882.	Injury occurred due to door.	ISA-18 Laboratories	Conversion outside Chem Lab
18036	Fuel Rod Lathe Station Power Relocation	Relocate Power Feed for Rod Lathe Station from Buss Duct 07C-8D to MCC-2223.	Power Feeds are being relocated to eliminate use of Buss Duct.	ISA-10 ADU Rods	Chemical Side - Pelleting
18037	Relocation of CP-2280-D load from Buss Duct 07C-07D to MCC-2223	Refeed power from Buss Duct to MCC.	For LOTO access and reduced operator exposure to potential voltage excursion.	Grounds	Chemical Side - Pelleting
18038	ADU Rod Line 1 Control Panel Power Relocation	Relocate power feed from Buss Duct 07C-07D to MCC-2223.	For LOTO access and reduced operator exposure to potential voltage excursion.	ISA-10 ADU Rods	Chemical Side - Pelleting
18039	Relocation of power from Panel RP-6D at Buss Duct 07C-7D to MCC-2223	Refeed power from Buss Duct to MCC.	For LOTO access and reduced operator exposure to potential voltage excursion.	Grounds	Chemical Side - Pelleting
18041	Relocation of Power Feed for Thermal Stability from Buss Duct 07C-07D to MCC-2223.	Refeed power from Buss Duct to MCC.	For LOTO access and reduced operator exposure to potential voltage excursion.	ISA-08 Pelleting	Chemical Side - Pelleting
18042	Conversion HF spiking station enclosure modification.	Modify HF spiking station enclosure.	New valve beacon will not allow room for protective enclosure to be installed.	ISA-03 ADU Conversion	Conversion HF spiking
18044	Skeleton Area Modification	Set the requirements for a Pre-Approved Level 2 Modification that allows future work to be performed in the Skeleton area with an appropriate graded level of review and approval.	The CFFF configuration management process allows for an appropriate graded level of review and approval for certain types of modifications.	Clean Side Rod Area	Skeleton assembly area
18046	Still 1 Bottoms Sample Valve Addition	Install a new sample valve on the Still 1 bottoms line adjacent to the bottoms pH meter.	Current sample valve used is on the "hot" side of a cooling heat exchanger, creating a potential burn hazard when handling sample bottles.	ISA-06 Chemicals Receipt, Handling and Storage	Outside URRS/Still 1 Building
18048	Plating Room Scrubber Stack Replacement	Replace stack on plating room scrubber with a backdraft style head and add expansion joint to scrubber fan exhaust.	The plating room is at a slight negative pressure, and when the fan system is off, the backflow of air can bring fumes into the plating room.	Components	Nickel plating room process ventilation stack Mechanical Roof Area

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Name	Title	Description	Justification	ISA ID	Location
18050	Connections Installation For Temporary Boiler	Install connections for temporary boiler.	We are no longer capable of generating sufficient steam to operate the plant due to boiler failures.	Grounds	Outside near T-1143
18051	Fixed Window Door on QC Lab Hood #1 Replacement	Replace current lifting door with a fixed- cover for QC Lab hood 1.	The hood is out of service until replacement can be made.	ISA-18 Laboratories	QC Lab Hood # 1
18052	400 HP Rental Boiler Connection and Operation	Place into operation the 400 HP rental boiler under the rules and regulations provided by SC DHEC.	Boiler #1 has failed due to a cracked weld in the feed water patch.	Grounds	Boiler House
18053	TP BAR Vibratory Feeder Install	Install new TP BAR vibratory feeder.	To keep up rod demand in TP BAR a vibratory feed will expedite the process a loading pellets.	Clean Side Rod Area	TP BAR
18054	TP BAR Modifications	Set the requirements for a Pre-Approved Level 2 Modification that allows future work to be performed in the TP BAR production area with an appropriate graded level of review and approval.	The CFFF configuration management process allows for an appropriate graded level of review and approval for certain types of modifications.	Components	TP BAR
18055	Incinerator Refractory/brick configuration	Install incinerator refractory and brick to the new configuration.	The vendor is recommending an installation of the refractory and brick that will better support our process.	ISA-13 Low Level Radioactive Waste Processing	Incinerator
18056	Fire Water Tank #1 Replacement	Replace fire water tank #1 with a new tank of the same dimensions, and constructed in the same location as the current tank.	After comparing the cost of refurbishment versus replacement it was determined that replacement is the best option.	Grounds	Fire Water Tank #1
18058	Modification to Packing Dock 1 Ramp Railing	Move the railings to the outer edges of ramp.	Existing ramp railing used for the original side loader is spaced for one set of side loader wheels.	ISA-17 Final Assembly	Packing area, Dock 1 - Side Loader Ramp
18059	QC Lab Hood 1 Door Replacement	Replace current temporary fixed window with a 1/2" thick door on the Chem Lab QC Lab 1 Hood.	The new counterweight balance door will allow operators to open and close door to their preference.	ISA-18 Laboratories	QC Lab
18063	Strap Marking Station Installation in Grid Build Stations at Laser #3	Install, test, and startup a new strap marking station at the Laser #3 Grid Build Station.	New strap marking station.	Components	Within Bay A-B and 16-17 near Laser #3
18069	Fire Alarm Speaker Additions for 2nd Floor Main Office Area	Add speakers to the 2nd Floor main office area.	Fire Improvement Excellence Project.	Grounds	2nd Floor Main Office Area

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Name	Title	Description	Justification	ISA ID	Location
18070	Thermal Stability Oven pyrometer calibration target block modification	Modify existing pyrometer calibration target block or use new target block.	Current calibration block is not large enough for current setup.	ISA-08 Pelleting	Thermal Stability oven
18071	Plant Air to New Feeder TP BAR	Add a plant air feed to TP BAR's new feeder.	To add a new separate branch off existing plant air in area.	Components	TP BAR
18072	Portable Ventilation for Obsolete Erbia Scrubber S-9165 Cleanout	Attach portable ventilation unit duct to the base of Out of Service V-9165A/B to provide ventilation during cleanout of scrubber vessel S-9165.	To provide ventilation air flow and minimize airborne during packing removal and cleanout of the obsolete Erbia Scrubber S-9165.	ISA-01 Plant Ventilation System	Erbia/ Erbia Roof
18073	Loader #1,2, 4, 5, and 6 Voltage Monitor Relay Installation	Install a voltage monitor relay on loader #1,2, 4, 5, and 6.	A fuel assembly loader allowed the Rod Pull to advance on its own due to a voltage excursion.	ISA-17 Final Assembly	Final Assembly Rod Loader #1, 2, 4, 5, and 6
18074	URRS LR-230 air line valve removal	Remove air valve located on LR-230 offload.	A valve was bumped open and an operator was exposed to uranyl nitrate during an LR-230 offload.	ISA-02 Uranyl Nitrate Bulk Storage Tanks	URRS outside at the LR-230 offload platform.
18076	Equipment Room #1 Chiller Replacement - Chillers #1 and #2	Demolish and replace Chillers #1 and #2.	Chillers #1 and #2 are centrifugal chillers that have refrigerant leaks.	Grounds	Equipment Room 1
18078	Boiler House #2 (North American Boiler House) Demolition	Remove North American Boilers #1 and #2 and associated components.	The North American boilers are over 30 years old and have exceeded their usable life.	Grounds	Boiler House #2 (North American Boiler House)
18079	Replacement of the Water Vapor Generator and Furnace to the Netzsch Thermal Analyzer	Existing water vapor generator and furnace is replaced with model # HTP40000A88.	The replacement equipment is used to support the thermal analyzer to perform thermal analysis experiments on enriched uranium dioxide powder relevant to fuel pellet fabrication and performance.	ISA-18 Laboratories	ERBIA Analytical Lab
18084	Relocation of Power Feed for Pellet Line 3 Grinder and Dryer Oven	Relocate power feed from Buss Duct 07E-07G to MCC-2215.	Elimination of obsolete Buss Duct and to address grounding and safety concerns with accessing buss duct cans.	ISA-08 Pelleting	Contaminated Area - Pelleting
18085	Relocation of Power Feed for Pellet Line 4 Grinder, Dryer Oven and Pellet V&V Hood Blower	Relocate power feed from Buss Duct 07E-7G to MCC2215.	Elimination of obsolete Buss Duct and to address grounding and safety concerns with accessing buss duct cans.	ISA-08 Pelleting	Contaminated Area - Pelleting

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Name	Title	Description	Justification	ISA ID	Location
18088	Relocation of power feeds for AC13 fan and pump	Relocate power feed from Buss Duct 07E-7G to MCC-2215.	Elimination of obsolete Buss Duct and to address grounding and safety concerns with accessing buss duct cans.	ISA-08 Pelleting	Contaminated Area - Pelleting
18089	Relocation of power feed for AC14 fan	Relocate power feed from Buss Duct 07E-7G to MCC-2215.	Elimination of obsolete Buss Duct and to address grounding and safety concerns with accessing buss duct cans.	ISA-08 Pelleting	Contaminated Area - Pelleting
18090	Relocation and Addition of Network Connections to SOLX Pump Out PLC's	Relocate 1087 Pump-Out and Safe Dissolver Pump Out PLC networks and add new network connection for both PLC's to Experion DCS system.	Current connection places the PLC's on the business LAN which is vulnerable to less attention (for outages) and also makes the system more vulnerable than other systems (that are located in the PCN).	ISA-07 Solvent Extraction	Contaminated Side - URRS SOLX
18091	TP BAR Pressure Gage Addition to Vacuum pump suction	Add pressure gage to vacuum pump suction TP BAR.	Added pressure gage will help with understanding process.	Components	TP BAR
18092	Oxide Coater #1 Helium Station Vacuum Pump Replacement	Replace the existing 60HD vacuum pump at the Oxide Coater #1 Helium backfill station with a new manufacturer's dry scroll pump.	The pump is obsolete.	Components	Oxide Coater #1
18095	Line 1 Pellet Press Structural Framework Modifications - Second Level Truss	Remove the upper handrail on the west and part of the north side of the second level platform and replace it with a truss and replace some of the C-channel supporting the south and center of the platform floor with tube steel.	The Line 1 pellet press structural platform framework has been analyzed by an outside vendor and has been determined to be structurally inadequate for current loading configuration.	ISA-08 Pelleting	Pellet Press Line 1
18097	Thimble Tube Inspection Lighting Truss Assembly Modification	Replace truss (12" latter, item 5) located in the middle of lighting truss assembly, with truss (6" latter) aluminum tube.	The 6" truss is custom made to lower the height of the tray for shorter workers to access the gage safely.	Components	Thimble Tube Inspection
18098	Condensate Pump Replacement for A/C Unit Inside the Instrument Room	Replace the condensate pump for A/C unit inside the Instrument Room.	The condensate sump pump for the A/C unit inside the gamma monitor instrument room has failed and it needs to be replaced.	ISA-03 ADU Conversion	Gamma Monitor Instrument Room in UF6 Bay

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Name	Title	Description	Justification	ISA ID	Location
18099	Push Rail Removal from Skeleton Fixture	Remove the push rail on the automatic bulge carriages. Update drawing 443F02EQ02.	This is needed to add a tray for instrumentation tubes per 443F02EQ12 - TDR- Clean Side Rod Area 2912.		Skeleton assembly area
18102	Preheat DI water supply for UCON wash station	Add an in-line preheater to the DI water feed line to the UCON washer.	During winter months the temperature of the cold water is below the min allowable temperature.	ISA-17 Final Assembly	Final assembly area
18103	Additional Guarding added around Grinder Line 6 and Line 7/Erbia	Add guard panels around the Pellet Transfer.	To prevent pinch points.	ISA-20 ERBIA	Grinder Line 6 and the Line 7/Erbia grinder
18107	Changing O-Ring Material and Dimensions for better utilization of the Laser Welder Door Chambers	Change the current O-Ring to a softer material for Laser 3-6 both A and B Chambers.	There is leaking around the door chamber when the chambers are over-pressurized causing leakage.	Components	Laser Welders in Grids
18108	Tube Cart Modification	Provide for an alternate arrangement of the casters for supporting the cart.	The carts are difficult to maneuver and put the operators at higher risks for strain injuries.	Components	CFFF, Mechanical Side, Tube Handling Equipment
18112	New Lid Covers Installation on Dryer Filters	Install new covers on all five dryers.	The existing lids have a high potential to fail and are not easily repairable.	ISA-03 ADU Conversion	Conversion lines 1, 2, 3, 4, and 5
18113	Boiler Upgrade Connection Installation	Install required piping connections that will be necessary to upgrade the CFFF boilers.	The boilers are over 30 years old and have exceeded their usable life.	Grounds	Outside Pipe Bridge at URRS Still #1
18115	PE Lab Area Egress Lighting Installaton	Install Egress lighting in the PE Lab Area.	There is currently no egress lighting.	ISA-17 Final Assembly	PE Lab between Chem. Lab and IFBA
18116	Computer Stand Replacement	Replace Painted Computer Stand with New Ergotron Style Computer Pole and Arm.	The current computer stand at the Tube Prep lathe has a potential concern for paint to get on tubes when moving them.	Components	Tube Prep
18122	Final Assembly Area Trolley Contactors Replacement	Replace Obsolete Contactors with Smart-Move MSM-R in Trolleys in Final Assembly Area.	These contactors can no longer be obtained because they are obsolete.	ISA-17 Final Assembly	Final Assembly
18124	Conversion Line 4 S-431 scrubber Replacement	Replace S-431 scrubber on Conversion Line 4 with universal scrubber.	Installation of new scrubber.	ISA-03 ADU Conversion	Line 4 Conversion

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Name	Title	Description	Justification	ISA ID	Location
18125	Furnace Booster Pump Replacement	Replace booster pump on furnace with equivalent manufacturer supplied booster pump.	The recently installed booter pump was found to be mechanically bound.	Components	GRID-FURN-IPSN
18127	Fan-993 VFD Installaton	Remove automatic damper and install VFD on Fan-993 in URRS Decon Cutting Room.	The existing Damper is worn out and is obsolete.	ISA-01 Plant Ventilation System	Southwest Decon Cutting Room
18129	Riser Flow Switch Replacement for FS-11	Replace a defective flow switch FS-11 in the Respirator Cleaning Facility.	VSR-F is obsolete.	Grounds	Respirator Cleaning Facility
18130	Oxide Coater 1 Computer Guard Rail Installation	Install a stainless steel guard rail at the backside of the HMI computer at Oxide Coater 1.	The guard rail will add protection to the computer from cart movement in the area.	Components	Tube Prep - Oxide Coater 1
18133	Emergency Lighting Replacement at Line 8 Tube Prep.	Replace the Emergency Lighting at Line 8 Tube Prep.	Existing lighting is obsolete and has a risk of falling debris (FME & Safety).	Components	Lighting around Tube Prep. Line 8
18134	Temporary Drain Install	Hot Tap temp drains into pipe to assist in draining.	Assistance needed for draining chilled water.	ISA-03 ADU Conversion	Chilled water in Conversion, near TORIT
18145	Vibration Isolation for FN948A/B Incinerator Exhaust Fan	Add vibration isolation to the incinerator exhaust fans.	Adding vibration isolation will prevent vibrations from the fan being transferred to other equipment.	ISA-01 Plant Ventilation System	Penthouse
18148	ADU Conversion Line 4 Calcliner Seal Purge Modifications	Relocate existing BPCS flow transmitters FT-409E and FT-409, install new BPCS flow transmitters on the secondary seal purge lines, replace existing gauges PI-409K and PI-409J, install four new BPCS transmitters to measure pressure on both primary and secondary seals, change purge pressure setpoints, and change purge pressure setpoints.	To Improve operation of the calciner seals.	ISA-03 ADU Conversion	ADU Conversion Line 4 Calcliner
18153	Fire Sprinklers Installation in Project Storage Building	Install fire sprinklers in Project Storage Building.	Meet site and NFPA requirements.	Grounds	Project Storage Building
18159	Rollup Door, UF6 Bay to Erbia	Replace existing fabric rollup door (near the hot oil room) with a new steel rollup door.	The existing rollup door does not function.	ISA-03 ADU Conversion	Passage from UF6 bay into the Erbia area, adjacent to the hot oil room-
18160	Booster Pump on VFS # 2 Replacement	Replacing failed obsolete 2 HP motor with a new 3 HP motor that matches up with booster pump.	The current motor on VFS # 2 has failed and needs to be replaced.	Components	VFS # 2 vacuum booster pump
18161	Timing Belt Pulley and Actuators Cover Guard Installation	Install cover guard over timing belt pulley and actuators on the pin-stamper unit in Tube Prep.	Safety	Components	Between Oxide Coater 1 and Line 9

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Name	Title	Description	Justification	ISA ID	Location
18162	Plastic sheeting spill protection for wet drum trash-	Install temporary plastic sheeting between wet drums and cylinder wash piping and tanks.	The plastic sheeting will prevent material from cylinder wash area from entering into a 55 gallon wet trash drums.	ISA-09 UF6 Cylinder Wash	URRS cylinder wash
18163	Grinder Relocation	Relocate the grinder equipment adjacent to its existing location within the tool room area.	Existing grinder has reached its end of life and safety issue was raised due to the location of the existing grinder.	Components	Tool Room
18164	Discharge housing of FN4025, Plating Room Scrubber Fan Test Port Installation	Install 3/8" diameter test port into discharge housing of FN4025, Plating Room Scrubber Fan.	Existing fan has no discharge port to test the static pressure or flow conditions.	Components	Plating Room Scrubber system, mezzanine above plating room
18165	Conversion Scrap Cage Fume Capture Hood Installaton	Install fume capture hood in Conversion Scrap Cage.	Operator exposure to fumes.	ISA-11 Scrap Uranium Processing	Scrap Cage by Washing process
18166	Conversion Scrap Cage Manual Wringer and Stand Installation	Install manual wringer and stand in Conversion Scrap Cage.	Wringer will reduce likelihood of operator exposures to acid.	ISA-03 ADU Conversion	In Scrap Cage in Conversion-
18169	Comfort Air Bag Filter Replacement	Replace multi-pocket bag filters with 24x24x30, 6-Pocket, UL Classified, 90-95% efficient high efficiency filters.	Current vendor is not able to supply filters as needed.	Clean Side Rod Area	AC Units in Non-Fuel, Final Assembly, Tool Shop, ADU Rod Area
18170	Whole body monitor in PPE issue station	Install the first whole body monitor in a temporary location.	The new whole body monitor will provide a more thorough scan of the individual's body.	ISA-18 Laboratories	PPE issue station outside of men's main changing room
18171	Chem. Lab Mass Spec. #2 Power Monitor Removal	Remove the power monitor from Mass Spec. #2 and connect power to directly to PP-3HB ckt. 7, 9, & 11.	-The power monitor does not have settings that will prevent trips.	ISA-18 Laboratories	Chem. Lab
18175	AC32 Filter Substitution	Substitute pleated high capacity filter with 20x25x2, UL 900 Classified, consisting of polypropylene media.	Current vendor is not able to supply filters as needed.	Components	AC 32 Grid Area
18176	New IFBA Roll Around Carts	Construct tool cart per attached drawings.	New design for a coater tool cart, to support coater operations.	ISA-14 IFBA Processing	IFBA Coaters
18178	Addition of Manual Pull Station, 3 Smoke Detectors in Old Map (Auxiliary) Control Room	Add manual pull station, 3 smoke detectors, -and remove abandoned Fire Map Alarm Panel.	To meet EHS requirements for allowing occupancy of room plus monitoring of electronic equipment in room for fire detection	Grounds	Chemical Side - Auxiliary Control Room (between SOLX and Bulk Blending Areas)
18179	Delay Timer Addition to ADUCAL-913 for Lines 2-5.	Add delay timer to ADUCAL-913 for Lines 2-5.	The current implementation results in false failure indication for seals (conservative). The change will improve the intended function of the control.	ISA-03 ADU Conversion	ADU Conversion Lines 2,3,4, and 5

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Name	Title	Description	Justification	ISA ID	Location
18181	Coater Insulator Design Improvements	Create a new alternate insulator assembly design.	To protect ground shields from direct line of sight exposure.	ISA-14 IFBA Processing	All Coaters
18184	Ultra-Sonic Generators and Transducers Replacement	Replace ultra-sonic generators and transducers.	The system is down and we are not able to find enough working transducers.	Components	RAMCO Grid Strap Cleaner on the Clean Side Grid Area
18185	Oxidation -Oven Filter	Substitute filter with -high capacity pleated filter 24x24x2, UL 900 Classified.	Current vendor is not able to supply filters as needed.	ISA-19 Hoods and Containment	Oxidation Ovens 1 and 2
18193	CL1 - ADUCAL-902 Flow verification ADUCAL-901 to ADUSCR-904 upgrade	Install flow verification of N2 purge to satisfy ADUCAL-902 and install safety upgrades to migrate ADUCAL-901 to ADUSCR-904.	Upgrade required to satisfy NRC minor violation and self-reported violation.	ISA-03 ADU Conversion	Calcliner Line 1
18194	Obsolete Lockout Valve Replacement at Dock 1 Fall Protection Platform	Replace obsolete lockout valve at dock 1 fall protection platform.	The lockout valve is no longer available from manufacturer.	Grounds	Dock 1 Location, Column 14F
18195	Pellet Line 1 Sintering Furnace Hydrogen Supply Header Piping Section Replacement	Replace a section of piping to provide a new connection point for Furnace 1A.	Installation of the new section will provide a new connection point for the furnace including an appropriate LOTO valve.	ISA-08 Pelleting	Pellet Sintering Furnace 1A Unload End
18196	Valve Replacement on 2C Furnace	Replace valve on 2C Furnace with the current model.	Valve series has been discontinued by the manufacturer.	ISA-08 Pelleting	ADU Sintering Furnace 2C
18198	IFBA Chiller Condenser Water Pump Mechanical Seal and Check Valve Replacement	Replace the existing component mechanical seals on the IFBA chiller condenser water pumps with a split mechanical seal.	The existing condenser pump check valves have failed in service, and do not shutoff to reverse flow.	ISA-14 IFBA Processing	IFBA Equipment (Chiller) Room
18202	Replacement Rotameters for Nitrogen flow on Thermo-stability furnaces	Replace the rotameters for nitrogen flow on the thermo-stability furnaces.	Current nitrogen rotameters on System A and System B thermo-stability furnaces are obsolete.	ISA-08 Pelleting	Thermo-stability Furnaces near Team Managers offices
18203	Replacement Rotameters for Hydrogen flow on Thermo-stability furnaces	Replace the rotameters for hydrogen flow on the thermo-stability furnaces.	Current hydrogen rotameters on System A and System B thermo-stability furnaces are obsolete.	ISA-08 Pelleting	Thermo-stability Furnaces near Team Managers offices

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Name	Title	Description	Justification	ISA ID	Location
18211	220v power source for roof T1T2 reroofing project	Providing service from MCC9400 with step-down transformer that can feed distribution panel outside the Erbia Platform.	Re-Roofing project vendor equipment requires 60amp 220V single phase.	Grounds	Erbia Platform on the Roof
18212	IFBA Pass Through Wall Hole Cover Installation	Install cover over pass through hole in wall in IFBA.	Reduce amount of untreated air entering IFBA.	ISA-12 IFBA Fuel Rod Manufacturing	Dock 9
18215	Main Process Cooling Water Lines Plug/Cap Branches	Plug/Cap branches from Main Process Cooling Water Lines.	The potential for excessive water leaks will be prevented.	ISA-03 ADU Conversion	Chemical Side - Auxiliary Control Room Ceiling
18216	URRS Sanitary Sump Variable Frequency Drives (VFDs) Relocation	Relocate the VFDs for the Sanitary Sumps from the Still 2 Control Room to the Still 1 building.	Safety arc fault concern with the VFDs located in a high traffic area.	Grounds	Still 2 Control Room and Still 1 building outside in URRS
18217	Modification of Grid Laser Gripper for Grid Tooling Compatibility	Modify Grid Laser Gripper.	As part of the production implementation of the new 15x grid, the gripper jaws on grid laser -need to be modified so that they are compatible with the Top/Mid grid weld tooling.	Components	Grid Laser Welder
18219	Final Assembly Wash Pit Punch List Items	Align tank blow off assemblies, cut ladder access plate in half and install air filter guard.	To provide additional clearance between fuel assemblies from blow off assemblies, -reduce lift weight of the ladder access plate which is removed for inspections, calibrations, and pit cleaning and to protect the air filters from damage.	ISA-17 Final Assembly	Final Assembly Wash Pit
18221	Obsolete URRS Dry Trash Scale Replacement	Replace obsolete URRS Dry Trash Scale #1 WIC-1314A.	The existing scale has failed and is obsolete.	ISA-13 Low Level Radioactive Waste Processing	Dry Trash Scales in UF6 Bay
18223	Modification of Gripper Plungers to Reduce Sticking	Modifiy gripper plungers.	It has been observed that the spring loaded plungers on the gripper jaws occasionally get stuck.	Components	Laser X
18224	Tumble Blender Replacement	Replace the tumble blender in the bulk blending room.	The existing tumble blender fails often and needs to be replaced with a unit that has been improved structurally.	ISA-05 ADU Bulk Powder Blending	Chemical Side Bulk Blending Room
18228	ADU Line #2 Condenser CO-226 Centrate Line Revision	Revise ADU Line #2 Condenser CO-226 Centrate Line from existing 1" to 2" pipe, to match other line configuration.	Existing ADU Line #2 Condenser CO-226 Centrate Line is 1" and has the potential for causing carryover to the blower (FN-227).	ISA-03 ADU Conversion	Located on the main ground level between lines 1 and 3

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Name	Title	Description	Justification	ISA ID	Location
18229	Test Ports - Conversion Line #4 Calciner Scrubber (Confirmatory Order No. EA-16-173)	Install test ports upstream and downstream of the line #4 calciner scrubber.	This modification supports completion of a commitment in Confirmatory Order No. EA-16-173.	ISA-03 ADU Conversion	Calciner Line 4
18230	Chemical Side Instrument Lab Speaker Additions	Add speaker(s) to the Chemical Side Instrument Lab.	Fire Improvement Excellence Project.	Grounds	Chemical Side Instrument Lab
18231	Addition of Portable Eye Wash by Line 8	Add a portable eye wash station on the wall by line 8 in tube prep.	There is a hazardous waste drum with potential for splash in employee's eye.	Components	Tube Prep Line 8
18232	Fiberglass Wrap Installation on T-46 in URRS	Install fiberglass wrap on T-46 in URRS.	Tank failed visual inspection.	ISA-06 Chemicals Receipt, Handling and Storage	Outside in URRS tank farm
18233	Vent Fume Tank T-46 Replacement	Replace vent fume tank T-46.	Existing tank failed visual inspection.	ISA-06 Chemicals Receipt, Handling and Storage	Outside in URRS tank farm
18235	Replacement of FT- 1030D in S-1030 Recirculation Flow Path and renumbered to FT-S- 1030-2	Replace the UT strap-on instrument with a new instrument.	This instrument is being installed for evaluation to determine suitability for future use in a Safety Significant Control.	ISA-01 Plant Ventilation System	Scrap Recovery/Conversion
18238	Wet Drum cover and wall to prevent unwanted SNM from entering drums.	Install cover and wall at the wet drum scales to prevent any unwanted SNM from getting into the drums at that location.	The Cover and wall will prevent inadvertent leaking from the cylinder wash process into a wet trash collection drum.	ISA-13 Low Level Radioactive Waste Processing	URRS bay next to cylinder wash
18241	S-1008 Branch Installation	Install branch in S-1008 for new washing process fume pick-up at new scrap cage washing machine.	Ammonia fume will need ventilation when ammonia laden filters are loaded into new washing process.	ISA-01 Plant Ventilation System	In scrap cage by new washing process
18242	MET Lab Scanning Electron Microscope Replacement	Install a new SEM in the MET Lab SEM Room.	Old SEM is over 35 years old(outdated) and has passed its useful life.	ISA-18 Laboratories	SEM Room
18243	Oxidation Oven Platform Temp Conduit Mod	Temporarily add a section of flex conduit to permit installation of the oxidation oven platform.	Part of the CO project.	ISA-19 Hoods and Containment	Scrap cage oxidation oven
18246	Pellet Tray Casket Door Modification	Replace the phenolic type bearing and slide assemblies with ball type bearing units.	The phenolic bearing have become difficult to operate over time and can cause the doors to stick and jam.	ISA-08 Pelleting	CCF, Chemical Side, Pellet Tray transfer carts

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Name	Title	Description	Justification	ISA ID	Location
18249	Concrete Pad for Compressed Air Receiver	Excavate and pour a concrete pad.	For a new compressed air receiver tank and mist eliminator/filter.	Grounds	Outside of Atlas Copco Compressor Room
18251	Conversion Ramp Platform Modification	Modify conversion ramp platform.	To accommodate future roof membrane changes.	ISA-03 ADU Conversion	Conversion Roof Platform
18252	Relocation of Pressure Differential Gauges and Associated Conduits	Rotate the gauges associated with the scrap cage oxidation ovens 180 deg to permit reading from the platform.	Part of the CO project.	ISA-19 Hoods and Containment	Scrap Cage oxidation ovens
18253	Flange Guards FACTS Loop Installation	Install Flange Guards FACTS Loop.	Safety Issue Identified for ISR8.	ISA-18 Laboratories	FACTS Loop
18254	V-1014A and V-1017A to V-1014C and V-1017C Level Transmitters Re-Tubing	Re-tube level transmitters on V-1014A and V-1017A to V-1014C and V-1017C, V-1014A/B and V-1017A/B.	Level indication will still be needed on V-1014 and V-1017 tank banks.	ISA-11 Scrap Uranium Processing	Scrap Cage
18256	Pre-Approved Level 2 Mod - Metallurgical Laboratory	Perform review, demolition, construction, and startup of plant modifications within the Metallurgical Laboratory (Met Lab).	The CFFF configuration management process allows for an appropriate graded level of review and approval for certain types of modifications.	ISA-18 Laboratories	Metallurgical Laboratory
18257	IFBA Coater 4 Roller Supports Modification	Modify the upper roller supports will move the rollers away from the cathodes to the center space between cathode and top of the coater.	Current design has the roller bearing support arms (items 26 & 27) too close to cathodes 4/6.	ISA-14 IFBA Processing	IFBA Coater #4
18258	Conversion Line 1 S-131 Scrubber Replacement	Replace S-131 scrubber on Conversion Line 1 with universal scrubber.	Mechanical Integrity Engineering found two locations on S-131 below the Crit. allowable minimum of 0.114" during PM81506, 26 Week Scrubber Tank Wall Thickness Measurement and External Inspection.	ISA-03 ADU Conversion	ADU Conversion
18259	UF6 Cylinder Scale Replacement	Replace the UF6 Cylinder scale.	The vendor has recommend replacement.	ISA-03 ADU Conversion	UF6 Cylinder Scale in UF6 Bay
18260	Bulk Container Feeders Coated Vibrators	Allow for use of coated type vibrator for bulk container feeders.	The new vibrator has improved force output compared to the previously used.	ISA-05 ADU Bulk Powder Blending	Bulk Blending Conversion Feeders which are used on ADU Bulk Containers
18261	Optical Pellet Measuring System	Install a pellet measuring system based on 2-D optical micrometers.	To reduce or eliminate observed operator variability for sintered density and grinder shape log measurements.	ISA-08 Pelleting	Pellet Inspection Line 2 Pelleting

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Name	Title	Description	Justification	ISA ID	Location
18262	Modify Tube Sensor Bracket Height at Tube Prep Repair Lathe	Addition of a permanent shim will be necessary to get the necessary height for the sensor bracket.	The height of the sensor bracket at the Tube Prep repair lathe needs to be adjusted to allow the sensor to be the proper height to see the tube.	Components	Tube Prep
18264	Criticality Alarm Horn and Two Fire System Alarm Horns on Roof Relocation	Relocate Criticality Alarm Horn L2B-8 which is located on S-1030 scrubber platform.	The three horns will be moved so they are no longer attached to the beam that will be replaced. This will allow the beam to be easily replaced.	Grounds	On S-1030 platform east side.
18265	Rod Line 9 Blowout Switch/Gauge Removal	Remove switch/gauge, solenoid valves (SV40 AND SV41), and tubing on the Rod Line 9 Blowout system.	Switch/gauge and components are not used and will not be used in the future.	Components	Rod Line 9
18267	P-3B Ammonia Transfer pump Replacement	Replace existing P-3B with new pump & motor.	Pump is obsolete and condition is degrading.	ISA-06 Chemicals Receipt, Handling and Storage	URRS/Tank Farm
18268	Power source for Roofing Project T2 Section	Install a transformer and circuit breaker panel for distribution of power at the Main Penthouse.	Roofing project vendor requires single phase 50A service.	Grounds	Main Penthouse on the roof-
18269	S-4025 Plating Room Scrubber AHU Condensate Pump Replacement	Replace S-4025 Plating Room Scrubber AHU Condensate Pump with a higher capacity unit.	The existing condensate pump is undersized and has had leakage issues.	Components	Above Plating room on Mezzanine
18270	Nitric Acid Supply Header Blind Flange Replacement	Remove valve and replace blind on Nitric Acid Supply header at Conversion ADU Line 3 with blind flange.	Valve has been locked out for over a year, and is a potential leak path for Nitric Acid.	ISA-03 ADU Conversion	Chemical Side, Conversion, front end of ADU Line 3
18271	Fume Capture Hood Glove Type Modification	Modify the glove type that is currently being used for the Fume Capture hood.	The operators have a difficult time re-inserting their hands into the current glove type.	ISA-11 Scrap Uranium Processing	ADU Conversion Temporary Fume Capture Hood
18273	Manual Electrode Grinder Electrical	Correct wiring to manual electrode grinder	The WABA/non-fuel manual electrode grinder is currently wired incorrectly for desired function.	Components	WABA-/Non-fuel, Tool Room and Tube Prep Line 8
18275	Line 3 Press Hopper & Vibra-Fluid Feeder Vibratory System Modifications	Modify Line 3 press hopper & feeder vibratory system.	To allow separate control of the hopper vibrator and feeder vibrator and alleviate vibratory issues with the remaining system.	ISA-08 Pelleting	ADU Pelleting Line 3 R53 Press
18276	Respirator Cleaning Facility Sump Pump Replacement	Replace the submersible pump with new style submersible pump.	Current sump pump is obsolete.	Grounds	Floor Sump of the Respirator Cleaning Facility
18280	Mechanical Side Bathrooms Speaker Additions	Add speakers to the Mechanical Side Bathrooms near Maintenance.	Fire Improvement Excellence Project.	Grounds	Bathrooms near Mechanical Maintenance area
18281	Sintering Furnace Hydrogen Flow Meter Replacement	Install a 0-200 SCFH flow meter for hydrogen on the ADU pellet sintering furnace 4A.	Sintering of Erbia pellets requires 175 SCFH hydrogen flow through the saturator.	ISA-08 Pelleting	ADU Pelleting Line 4, Sintering Furnace 4A, Hydrogen process gas to saturator tank flow meter

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Name	Title	Description	Justification	ISA ID	Location
18282	Sintering Furnace Hydrogen Flow Meter Replacement	Install a 0-200 SCFH flow meter for hydrogen on the ADU pellet sintering furnace 3C.	Sintering of Erbia pellets requires 175 SCFH hydrogen flow through the saturator.	ISA-08 Pelleting	ADU Pelleting Line 3, Sintering Furnace 3C, Hydrogen process gas to saturator tank flow meter
18286	Operator Interface for Still 1 Turbidity Monitor Replacement	Replace the obsolete model operator interface for Still 1 turbidity monitor with a newer model unit.	Existing unit is obsolete and unavailable.	ISA-06 Chemicals Receipt, Handling and Storage	Still 1 Building
18289	Oxide Coater #2 Argon Station Vacuum Pump Replacement	Replace the existing vacuum pump at the Oxide Coater #1 helium backfill station with a dry scroll pump.	The current pump is obsolete.	Components	Oxide Coater 2
18290	Oxide Coater #1 Argon Station Vacuum Pump Replacement	Replace the existing vacuum pump at the Oxide Coater #1 Helium backfill station with a dry scroll pump.	The current pump is obsolete.	Components	Oxide Coater 1
18291	IFBA Coater #8 Automatic Ballast Valve	Install a solenoid valve on the vacuum roughing pump for actuation by the PLC as part of the vacuum cycle.	Automation of manual relief function to facilitate vacuum cycle.	ISA-14 IFBA Processing	2nd floor IFBA vacuum pump area
18292	Tube Prep Pinch Roller Clutch Improvement	Specify similar type slip clutch that is improved from the current slip clutch to be used on the pinch rollers in Tube Prep.	Current slip clutch allows pinch rollers to continue to roll when it should be stopped creating football skid marks on tubes.	Components	Tube Prep Pinch Rollers
18293	Fire Pump House #1 Repairs	Repair and bring fire pump house #1 up to code on items that we removed or damaged with removing the old Fire water tank.	Fire water pump house was damaged during removal of the old tank.	Grounds	Fire Water Pump House #1
18294	Upgrade Chemical Development Lab Hood and Door	Replace the existing CDL door with new security door.	Security and a hood is required for ATF.	ISA-18 Laboratories	Chen Development Lab
18296	Calciner Line 4 System Testing	Restore to an operational condition as dictated by operations to include complete removal of all modifications to removing just valves and installing blinds.	Testing is necessary for the CO.	ISA-01 Plant Ventilation System	Conversion Calciner Line 4
18299	S-1030 Ventilation Duct Sample Port Installation	Cut approximately 4" hole on S-1030 vent duct on roof and install the 4" flange saddle sample ports over it.	Sample ports will be use to capture samples from the air that S-1030 pulls from the process areas.	ISA-01 Plant Ventilation System	S-1030 Vent Duct on the roof
18302	Pellet Area Ceiling Leak Drainage Tarp	Install temporary tarp/plastic sheeting to capture leaks from ceiling above SNM Area/Pellet Area in Bay Areas 500F03AR11, 500F03AR12, and 500F0AR16; liquid will be drained from tarp/plastic sheet and routed to approved container.	Leak was identified near the Super Torit and D&V Station in the Pellet Area. Plastic will be used to capture water from roof leak to prevent water from dripping in unwanted places in Pellet area and/or on SNM.	ISA-08 Pelleting	Pellet Area

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Name	Title	Description	Justification	ISA ID	Location
18303	Guarding for pellet transfer	Modify current guarding on pellet transfer on Line 6 and Line 7 pellet transfer robot.	The modification will insure the nip points are guarded but give some space for operators to adjust the trays for the prox sensor to detect.	ISA-08 Pelleting	Line 6 and Line 7 pellet transfer
18304	ECG Machine Fitting Replacment	Either modify or change the pneumatic fittings on the ECG machine to stainless steel/plastic or leave the current fitting material on.	Some of the fittings are corroding.	Components	ECG machine
18308	Test Ports for Conversion Line #2 Calciner Scrubber (Confirmatory Order No. EA-16-173)	Install test ports upstream and downstream of the line #2 calciner scrubber.	This modification supports completion of a commitment in Confirmatory Order No. EA-16-173.	ISA-03 ADU Conversion	Conversion calciner line #2
18312	Rupture Disk Replacement and Argon Backfill Interlock	Replace existing obsolete over pressure rupture disk and holder with new rupture disk and holder.	Current model of rupture disk and holder are obsolete.	Components	Grid area age hardening furnaces
18314	Kitchen Water Heaters Installation	Install new instantaneous water heaters and 208 vac circuits for heaters in kitchen.	Existing water heater system is not functioning.	Grounds	Kitchen
18321	Hydrogen Tank T-1408 Piping Modification	Modify the piping associated with PI 1408 A on Hydrogen Tank T-1408.	This modification is necessary in order to provide a vent path for future purging activities needed to remove T-1408 from service.	ISA-01 Plant Ventilation System	ADU Pelleting Hydrogen Moisturizer Tank on the thermal stability platform/mezzanine
18323	Televisions Installations	Install Televisions for "Tableau/App-Space" throughout plant.	To provide area personnel with a visual display of the status, of the area Key Process Indicators (KPIs).	Grounds	Plant Wide
18324	Equipment Room 3 Cooling Water Chemical Treatment Piping Replacement	Replace cooling water chemical treatment piping in equipment room 3.	The existing supply connection is improperly located and does not supply enough pressure.	Grounds	Equipment Room 3
18326	Oxidation Ovens Damper Relocation & Inspection Access	Relocate the two damper for the scrap cage oxidation ovens.	Part of the CO project.	ISA-01 Plant Ventilation System	Scrap Cage oxidation ovens
18327	Stairwell Handrail Replacement	Replace handrail on stairways to the second floor office area in the old expansion.	Existing handrails are not per code and could contribute to a slip and fall incident.	Grounds	Old expansion
18332	Lab Testing related to CO Projects	Perform testing of samples materials taken from the off-gas systems at the Calciner slab tank efficiency samples (taken at the entrance and exit of the slab tanks) and S-1030 efficiency samples (taken at the entrance and exit of the S-1030).	Part of the CO work.	ISA-01 Plant Ventilation System	Erbia Lab and Chem Lab

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Name	Title	Description	Justification	ISA ID	Location
18333	DI-Water tanks manway gaskets substitution	Add new gaskets as a substitution to the current selection for DI-Water tanks T1361A & B, T1362A & B, T1363A & B.	Current neoprene gasket have been leaking.	Grounds	URRS outside DI-water
18334	Conversion Line 4 Off-Gas Piping Heater Installation	Install heater on conversion line 4 off-gas piping.	The off-gas piping is having to be rodded out more frequently than before the heater was removed.	ISA-03 ADU Conversion	conversion Calciner line 4
18336	Substitutions for Non-SSC Valves & Non-RMP Covered System Valves	Allow substitution of non-SSC valves and non-RMP covered system related valves.	It is common for the valve manufacturer to change part numbers so the identical part number is no longer available.	Grounds	Plant wide
18337	Whole body monitor at the Maintenance Step-Off Pad	Install the second whole body monitor in a temporary location to familiarize the staff and the operators with the new technology.	The addition of a whole body monitor is an initial step in the process of aligning CFFF with industry safety standards.	Grounds	Maintenance Step-Off Pad
18340	Substitution for Non-SSC Electrical Components.	Substitute non-SSC electrical components using approved substitution criteria on non-RMP covered systems.	Electrical components are subject to obsolescence as technology advances.	Components	Plant wide
18342	Coater Wonderware PC Upgrade	Upgrade coater software platform.	Obsolescence	ISA-14 IFBA Processing	Coater 1-8
18343	Oxide Coater 1 breaker replacement	Replace the current 6A breaker with 2 10A breakers.	The 6A breaker is not the adequate size to allow for the pumps to function properly.	Components	Tube Prep
18344	Oxide Coater 2 breaker replacement	Replace the current 6A breaker with 2 10A breakers.	The 6A breaker is not the adequate size to allow for the pumps to function properly.	Components	Tube Prep
18346	S-7159(IFBA Scrubber) Sight Glass Replacement	Replace current sight glass with new robust sight glass between pump and piping of the bottom of S-7159(IFBA Scrubber).	Current sight glass flange is broken and Area Engineer would like to replace it with a more robust design.	ISA-14 IFBA Processing	Pipe between pump and bottom of S-7159

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Name	Title	Description	Justification	ISA ID	Location
18347	Satellite Oil Station electrical repair	Replacing existing three-phase electronic overloads with thermal overload relays suitable for single-phase applications.	The existing electronic overloads are not suitable for single-phase applications.	Grounds	Satellite Oil Station in Chemical Maintenance Shop
18349	Disconnect and permanently remove hydrogen saturator vessel T-1408 Removal	Disconnect and permanently remove the hydrogen saturator vessel T-1408 from service.	Eliminate potential safety hazard by removing the hydrogen vessel from the manufacturing area.	ISA-08 Pelleting	ADU Pellet Area Thermal Stability Platform
18352	9 Temporary Monitoring Wells Installation	Install 9 temporary monitoring wells.	To obtain groundwater samples.	Grounds	West side of facility
18353	Fire Pump House #1 Backflow Preventer Replacement	Remove and replace existing city water to fire system backflow preventer in Fire Pump House #1.	Replacement parts are unavailable.	Grounds	Fire Pump House #1
18369	Allow field alignment of the sintering furnace sight port with the corresponding hole in the pinwall brick	Modify drawing 361F02EQ27 sight port, Item 01, pipe to be mounted offset and/or at an angle to the Item 02 flange centerline.	To allow flexibility for aligning the sight port with the field drilled brick port and/or brick ports that have shifted over time during sintering furnace heating/cooling cycles.	ISA-08 Pelleting	ADU Pelleting Sintering Furnaces
18370	Laser 4 Exhaust Ports Modification	Remove Laser Welder exhaust manifold that connects to the three ports from the chamber and cap off two of the ports and connect the exhaust directly to one of the ports on the chamber.	The manifold is collecting zirc material inside of it, that becomes a potential safety hazard concern.	Components	Laser 4 Exhaust Ports
18371	PE Development Lab 3D Printer Installation	Install the new 3D printer in the Product Engineering Development Lab.	New Printer.	ISA-18 Laboratories	PE Dev Lab
18372	HF feed line to spiking stations #1 and #2.	Demo the lines to both spiking stations from the wall to the skids. Isolation valves will be installed at the wall.	Reduce the possibility of damage to HF feed line and exposure to employees during the demo of spiking station #2 containment pad.	ISA-03 ADU Conversion	In vaporization bay of conversion
18374	Pre-Approved Level 2 Modification Scoping CCF for Office, Kitchen/Cafeteria, Non-Production Area Locations, and Electrical Distribution System	Set the requirements for future Pre-Approved Level 2 Modifications for demolition, construction, and startup of modifications performed in the Office areas, Kitchen/Cafeteria, non-production areas outside the main manufacturing building, and overall electrical distribution system (inside and outside).	The CFFF configuration management process allows for an appropriate graded level of review and approval for certain types of modifications.	Grounds	Office areas and Plant grounds

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Name	Title	Description	Justification	ISA ID	Location
18376	Replace Obsolete Trolley Contactors Replacement	Replace the current obsolete trolley contactors.	The contactors can no longer be obtained because they are obsolete.	ISA-17 Final Assembly	Final Assembly
18378	Kitchen Boiler Recirculating Pump Removal	Remove kitchen boiler recirculating pump in Equipment Room 1 and replace it with spool piece piping per FSS-003.	The pump is obsolete and is not needed due to the new installed inline water heaters in the kitchen.	Miscellaneous	Equipment Room 1
18380	Level 0 CCF to remove unused shipping container C68	Remove shipping container C68.	Shipping container C68 was originally placed for the use of the mechanical side high bay lighting project. The project is not active and as a result C68 is longer used.		Across the road from the Pavilion, outside the CAA
18381	Substitution of Storeroom Part 21079; Plant Air Filter	Substitutue new filter.	Existing filter is obsolete and no longer available.	Components	Some air lines in the plant
18386	IFBA Coater 3 and 5 Unused Brackets Removal	Remove Unused Brackets from IFBA Coater 3 and 5.	These brackets are unused and extend out into the transportation path of cart traffic creating a pinch hazard.	ISA-14 IFBA Processing	Coater 5 and Coater 3
18389	FL-1363B DI Water Tank Replacement	Replace FL-1363B DI water tank.	Existing DI water carbon purifier FL-1363B has been taken out of service due to failed inspection.	Grounds	DI water Building
18392	Obsolete Table Saw from Grid Area	Remove obsolete table saw from Grid Area.	By removing this table saw, usable space will be added to the grid area.	Components	Grid Manufacturing
18398	Conversion Portable Ventilation Duct Holder	Create bracket to hold ventilation duct close to the opening of the crossover piping flapper while rodding it out.	The bracket duct holder allow more space for an operator to rod crossover pipe safely.	ISA-01 Plant Ventilation System	Conversion Scrubber Line 1-5

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Name	Title	Description	Justification	ISA ID	Location
18406	2A Sintering Furnace's Saturator Bypass Solenoid Valve and Superpurge Rotameter Replacement	Replace 2A sintering furnace's saturator bypass solenoid valve and superpurge rotameter.	Solenoid valve replacement.	ISA-08 Pelleting	ADU Pelleting Line 2 Sintering Furnace
18407	IFBA Contaminated Waste Water Line Inspection Port Additions	Add IFBA contaminated waste water line inspection port.	Existing contaminated waste water piping needs to be inspected. _EWO 821904.	ISA-14 IFBA Processing	Outside of IFBA on West side of building, next to the Dehumidification Train
18414	Substitution; Pre-approved Substitution for flow Control valve in Conversion (LCV-105)	Substitute Storeroom Valve 63370 for the failed unit.	The actuator for the existing valve is obsolete.	Components	Line 1 Conversion 05 Column
18418	IFBA Coater #6 Door Seal O-ring Durometer substitution	Change the door o-ring hardness from 90D and 75D.	IFBA coater #6 has been unable to achieve an effective door seal.	ISA-14 IFBA Processing	IFBA Coater #6
18421	Subsequent Pre-Approved Control Valve for Conversion Lines 05 Column Level Control (LCV-x05-x)	Substitute Storeroom Valve 63370 for the failed unit(s).	The actuator for the existing valve is obsolete.	Components	05 Columns on the Conversion Lines
18430	Heat Trace Cable Substitution	Change part number for heat trace cable.	Original Part number is no longer available.	Grounds	Heat Tracing Plant wide