

CCF No.	Title	Description	Justification	ISA ID	Location
12153	Core Component Area - FME Barrier	Install debris netting (floor to 44 ½) to be attached to existing metal boundary fence on the inside of the Core Component Area. This will keep small parts / foreign material that are used in the core component assembly process from entering the Final Assembly area.  See 500F04AR18 Sh 3 and 4	The new boundary fence that was installed last year does not have a means of controlling small parts that might be dropped in the core component assembly area from entering the final assembly area.	ISA-17 Final Assembly	core component assembly area
12180	Change control valve MOC	We use Fisher 26000 teflon lined control valves with a Hastelloy C-276 plug in the SOLX area. Hastelloy C has been shown to corrode excessively in this service. This CCF will allow the replacement of Hastelloy C-276 wetted parts with any of the following materials: stainless duplex 2205, stainless duplex 2507, Zeron 100, Hastelloy C2000, Hastelloy G-30, Inconel 625.	Improved service life of control valve.	ISA-07 Solvent Extraction	SOLX
12358	Roll IFBA Vacuum Oven3 to the PCN Network	Roll the IFBA Vacuum Oven3 Basic Process Control System to the Process Control Network (PCN).	This is a Security requirement	ISA-12 IFBA Fuel Rod Manufacturing	IFBA Vacuum Furnace 3 in Erbia
12439	Remove Dryer Sampler From Conversion Line 5	Remove Dryer Sampler that was abandoned in place.	Sampler is no longer needed.	ISA-03 ADU Conversion	CL5 Dryer
12456	Furnace 2B Saturator 2nd SSC	Modify existing Drexelbrook level sensor and wire directly to a safety relay. Modify existing Warrick high, high level sensor and wire sensor contacts directly to a second safety relay. A high level on either sensor will close the two in series DI water shutoff valves. Valves shall be configured for fail closed on loss of power, air, or high level from either sensor. Independent visual and audible alarms shall indicate which level sensor has tripped. Safety Circuit will not clear until a safe level is obtained and operations manually reset the SSC trip. Interposing relays from each sensor will activate alarms in the BPCS.	Install for NCSIP2 Commitment	ISA-08 Pelleting	Pelleting ADU
12477	CCSU - Upgrade Line 4 BPCS - Phase 3	This is phase 3 of a multiphase project to relocate input and output devices from the existing TDC2000 and Numalogic Line PLC to the Honeywell C200 Controllers.	The existing TDC2000 and Numalogic are obsolete and must be replaced to maintain the ability to produce powder in the conversion area. The non-safety Numalogic Line PLC functions will be migrated to the Honeywell C200 so that all process control is being done from one system.  This is similar to ccf 11-026.	ISA-03 ADU Conversion	ADU Line 4
12560	CCSU - Upgrade Line 3 BPCS - Phase 3	This is phase 3 of a multiphase project to relocate input and output devices from the existing TDC2000 and GE Line PLC to the Honeywell C200 Controllers.  Revision 1: ITR PSEDoc-0002448 has been updated for replacement of P-306A disconnect.	The existing TDC2000 is obsolete and the GE PLC is 17 years old. They must be replaced to maintain the ability to produce powder in the conversion area. The non-safety GE Line PLC functions will be migrated to the Honeywell C200 so that all process control is being done from one system.  This is similar to CCF 12-477.	ISA-03 ADU Conversion	ADU Line 3
12617	Install New Hydraulic Pump System at CL5 Filter Press FP-531A	Install a new hydraulic pump system at the CL5 filter press FP-531A. Plant air will be supplied to the hydraulic pump. Specific components for the system to be installed include 304 SS piping, an air-driven hydraulic pump with pendant control, a mounting bracket for the pump, a hydraulic pressure gauge, high pressure hydraulic hose, and a flow control check valve. The hydraulic force gauge and hydraulic cylinder from the existing system will be re-used with the new components.	This CCF is to address CAPs commitment # 11-306-C015.03 in which the filter press plates separated due to pressure being lost on 2 occasions, resulting in spills. In addition to spill prevention, the current pump is hand operated directly at the filter presses, whereas the new pump has a pendant that will allow operation from a safe distance thus minimizing the potential for operator exposure in case of a spill.	ISA-03 ADU Conversion	CL5 Filter Press FP-531A
12739	Remove flip tray and table top	Remove flip tray mechanism and table top support on APVIS unload station. Connect the fixture unload supports on either side of the flip mechanism using welded stainless steel bars.	The flip tray mechanism was originally installed for use with laser cut 2 piece fixtures. These fixtures are no longer used in the IFBA facility. Removing this equipment will allow operations to better stage carts of material for processing and reduce the chances of operator injury due to lifting.	ISA-14 IFBA Processing	IFBA APVIS unload table

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13151	MOUNT BOILER CHEMICAL METERING PUMPS IN BOILER HOUSE #2	In Boiler House #2, the boiler feed water chemical metering pumps are resting on the top of the chemical tank. This project will allow a custom stainless steel shelf be fabricated and mounted to an existing building column. No thru holes will be drilled in the column. The metering pumps will then be mounted to this new shelf.	The Toshiba audit team was not pleased with the current location or mounting practice of the chemical metering pumps.	Grounds	Boiler House #2
13172	Demolition of AC06	AC06 in Equipment Room #1 will be removed per the attached installation instructions and approved for construction drawings.	AC06 was previously replaced by individual datacenter AC units and has since been out of service.	ISA-01 Plant Ventilation System	Equipment Room #1
13213	IFBA Shield cart - attach chain at open slot	Attach a chain at the open side of shield slots to prevent shields from falling from cart.	Safety - prevent shield from falling and potentially injuring an operator	ISA-14 IFBA Processing	IFBA / FA1
13291	Install Underground Portion of Air Line to Patriot Bldg	Install HDPE Asahi Air Pro pipe in trench from Hot House to Patriot Building. This pipe will be used for future compressed air supply to Patriot Building. This CCF will just install the HDPE underground portion and stub above ground with 304SS pipe. The line will be pressure checked before backfill, and ends capped until the air service is extended.	Trench already excavated to run conduit, and this will minimize cost of future plans to provide plant air supply to the Patriot Bldg.	Grounds	Patriot Building and Hot House
13308	Add Fault to LSH-1019 level switch	Add Fault detection to LSH-1019 level switch.	LSH-1019 is a Drexelbrook switch, the Fault detection is now wired in on this system. This CCF will allow us to parallel the Fault switch to the existing alarm strobe light.	ISA-11 Scrap Uranium Processing	1019 vent pot in Conversion Scrap area
13320	Install a Low Point Drain on V-1493A/B and V-1493C/D	Install a Low Point Drain on V-1493A/B and V-1493C/D	V-1493A/B and V-1493C/D hold the contents of AQ waste generated from SOLX II. This materail is pumped outside to Waste Treatment if it is within acceptable parameters. The majority of this material can be pumpe back to the front end of SOLX I if it exceeds the ppm U limits allowed for discharge. The remanent material left behind can have enough Uranium to contaminate the next batch. Operations would like the option of draining this remanent material out of the vessel to reduce reprocessing.	ISA-07 Solvent Extraction	SOLX
13505	CCSU - Upgrade Line 2 BPCS - Phase 3	This is phase 3 of a multiphase project to relocate input and output devices from the existing TDC2000 and GE Line PLC to the Honeywell C200 Controllers.	The existing TDC2000 is obsolete and must be replaced to maintain the ability to produce powder in the conversion area. The non-safety GE Line PLC functions will be migrated to the Honeywell C200 so that all process control is being done from one system.  This is similar to ccf 11-028.	ISA-03 ADU Conversion	ADU Line 2 BPCS
13509	Explosion Proof Switch Substitution	Substitute Crouse-Hinds Explosion Proof Switches for the obsolete Westinghouse switches.	Currently in the Plant we have Westinghouse brand explosion proof switches which are obsolete. This CCF will allow us to use the Crouse-Hinds brand as a substitution. We are already using these in the conversion area.	Grounds	Plantwide part substitution
13526	Install High Pressure NH3 Filter Housing On CL1	This CCF would cover the installation of a Parker High pressure filter housing on CL1 just like the filter that was installed on CL5 on CCF-12438.	This is part of the resolution to CAPS 13-162-C001.	ISA-03 ADU Conversion	HX-104D
13527	Install High Pressure NH3 Filter Housing On CL2	This CCF would cover the installation of a Parker High pressure filter housing on CL2 just like the filter that was installed on CL5 on CCF-12438.	This is part of the resolution to CAPS 13-162-C001.	ISA-03 ADU Conversion	HX-204D
13528	Install High Pressure NH3 Filter Housing On CL3	This CCF would cover the installation of a Parker High pressure filter housing on CL3 just like the filter that was installed on CL5 on CCF-12438.	This is part of the resolution to CAPS 13-162-C001.	ISA-03 ADU Conversion	HX-304D
13529	Install High Pressure NH3 Filter Housing On CL4	This CCF would cover the installation of a Parker High pressure filter housing on CL4 just like the filter that was installed on CL5 on CCF-12438.	This is part of the resolution to CAPS 13-162-C001.	ISA-03 ADU Conversion	HX-404D
13643	CL1 Removal of TI-106B and Components	This CCF will allow TI-106B and associated wiring and conduit to be removed. Previously, CCF # 13635 covered the physical removal of the temperaure element and thermowell.	TI-106B is not necessary as a process or safety device.	ISA-03 ADU Conversion	CL1 V-106A

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13648	Re-design of Hydrogen Sampling Tube for IFBA Cassette	Modify existing design of the existing hydrogen sampling tube to eliminate the use of pins. Fabricate the hydrogen sampling tube based on the re-design. Replace the existing hydrogen sampling tube with the re-design. Tooling Drawing #TD001679 will replace existing design in Drawing 812F01EQ06. (No Safety Significant Controls Are Affected by this Modification)	The design modification of the hydrogen sampling tube will eliminate the risk of FME, in the form of cotter pins, in the IFBA cassette. The sampling tube redesign will address CAPS issue 13-283-C010.03.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA
13666	Install Ultrasonic Level Transmitter in the Sanitary Sump	Install Ultrasonic Level Transmitter in the Sanitary Sump Demoted to add C2 drawings, terminal location changed.	Existing level probe is unreliable and obsolete	Grounds	Sanitary Sump in Waste Treatment
13667	Install Ultrasonic Level Transmitter in Contaminated Sump	Install Ultrasonic Level Transmitter in Contaminated Sump Demoted for new C2 drawing; electrical termination location changed.	Existing transmitter is unreliable and obsolete.	Grounds	Contaminated Waste Sump in Waste Treatment
14041	Modify pellet loading area to eliminate the need for any small screws/washers.	Lexan panels can be welded on where appropriate to replace the lexan. Other areas can have SSt channel welded on to allow Lexan panels to be removed or changed easily.	Small screws become loose and fallout because of the vibratory loader. Since these screws are above the pellets and the rails that the pellets travel on customers have concerns that these parts could end up in their rods.	ISA-10 ADU Rods	ADU Rod Loading Line 4
14054	Run instrument air line to Erbia maintenance shop	Use the current 1" valve connection in Erbia above the diaphragm pump to run a 1/2" instrument air line to the Erbia/IFBA maintenance shop.	The maintenance mechanics need a source of air to test air actuated valves and other pneumatic devices prior to installation into repaired equipment.	ISA-20 ERBIA	Erbia Furnace Area
14151	Replace P-753 With Alternate Style of Air Diaphragm Pump	Replace P-753 With Alternate Style of Air Diaphragm Pump.	Current P-753 is an obsolete model that is difficult to find parts for to maintain. This upgrade will make this pump more reliable and easier to service.	ISA-04 Safe Geometry Dissolver	URRS Dirty Dissolver
14159	Raise Incinerator Torit off the floor	There is potential for water to get in the incinerator torit based on the floor design. We would like to raise the torit box off the floor using 4 blocks.	In response to Redbook, by raising the incinerator torit box off the floor, it will minimize the impact of a spill in SOLX.	ISA-01 Plant Ventilation System	URRS
14167	Modify Drag Chain Conveying System	Replace the top of the drag chain conveyor. The new equipment will be fabricated from stainless steel to reduce foreign material concerns. The equipment will be redesigned to better center the cookie trays on the conveyor and prevent them from impacting the side rails.	The existing drag chain conveyor has been damaged from cookie trays sliding along the side rails. In areas, the side rails have worn completely through and the top flange has come loose. The rollers are also all badly worn and in risk of failure.	ISA-10 ADU Rods	Exit Drag Chain Conveyor for ADU Rod Lines
14196	Line 2 SIS Upgrades	Relocate Safety Significant Controls for ADU Line 2. This will activate high level at precipitator V-x05 ADUPCP-901 and UN Tank V-x06 ADUHFS-901 on the safety plc. It will add two additional IROFS like Line 5 to the hydrolysis column ADUHYD-106 and ADUHYD-912/ADUVAP-147.  Migrate Safety Significant Controls for the vaporizer currently in GE Line PLC to Siemens Safety PLC  Revision 1: The sight glass on V-205B will be modified to align the 34 inch mark to the top of the column instead of the 35 inch mark to allow proper calibration of the tank level transmitter. See linked ITR PSEDoc0000237.	ADD 3rd IROFS to fault tree for hydrolysis column. Implement Safety PLC to increase reliability of safety interlocks. Seperate process controls from safety controls. Upgrade two chemical safety interlock to SIL 2.  Similar to CCF 11-460, 12-598, 14-129 and 13-215	ISA-03 ADU Conversion	Line 2 Vaporization to Precipitation
14197	Install Line 2 SIS Mechanical Upgrades	Install safety Level transmitters on V-205, V-202 and V-206. Install safety flow transmitter on DI water to V-202 and recirculation flow to V-202. Install isolation valves in lines from V-206 to V-205, V-202 to V-205, Nitric Acid to V-205, DI water to V-205 and Ammonia to V-205. Install isolation valves to inputs to V-206. The isolation valves will be left in the open position and activated under a later CCF. Activation of new safety transmitters will be covered by a separate CCF.  Similar to changes made on CCF 13129 and 13597.	Install mechanical changes to allow implementation of a safety plc on line 2. Activation of new safety transmitters and control valves will be covered by a separate CCF.	ISA-03 ADU Conversion	V-202, V-205 and V-206

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14211	Install 2 Kerotest valves each in UF6 and Education Line to prepare for Line 2 SPLC activation.	Install XV-S-202-1, SV-S-202-1, SV-S-202-1B, XV-202-H and SV-202-H for the UF6 delivery line. Install XV-S-202-3 SV-S-202-3, SV-S-202-3B, XV-202-I and SV-202-I for the education line. Valves XV-S-202-1/XV-S-202-3 will be installed in the open position but not put into operation by this CCF. (The two valves have pins inserted which holds them in the open position. These pins cannot be removed until actuation by solenoids which will relieve the clamping force on the pins to allow them to be withdrawn. Additionally air lines to the solenoid valves will not be connected until a future CCF allows activation of the valves.) XV-202-H and XV-202-I will be placed in operation by this CCF. A new pressure gauge PI202B will be installed on the UF6 Education piping, TE202F and PT202A will be relocated on the UF6 supply piping because of spacing issues, and new pressure transmitters PIT201B-3/PIT-201C-3 will be installed at the vaporizers UF6 line exit.	Safety isolation valves are required by the SIS upgrade for Line 2.  Allow prework and pre-wiring to reduce the outage window when these valves are activated and put into service.  CCF is similar to CCF 10-762, 13-448 and 13-449	ISA-03 ADU Conversion	Line 2 in UF6 Bay by Vaporizers
14277	Install Current Monitor on Duct Heaters for Line 1	Install Current Monitor on Duct Heaters for Line 1 and relocate controls to Experion.  Connect PIT-101A-3 and PIT-101B-3 to Experion.  Isolate Fitzmill Running and Polypak Full signals from Experion to the moisture sampler PLC.  Install inline resistors for PIT-S-102-1, CIT-S-101-1, LIT-S-102-10, and FIT-S-102-9.	Provide better monitoring and improve ease of maintenance.	ISA-03 ADU Conversion	Line 1 Dryer Panel
14285	Move scrap rod storage channel rack	Move the scrap rod storage rack from its current position to the area beside the DC-801 torit.	This rack move will open the area and allow operations move flexibility in moving rods through the area.	ISA-16 Nclear Material Storage	IFBA scrap area near DC-801 torit
14310	Allow alternate Barcode reader Camera on Gamma Scanner4	This CCF will allow us to use "Pixelink" Bar code reader cameras on Gamma Scanner 4 This CCF will allow us to use the current Prosilica or the Pixelink. The software has been qualified for both cameras and they can be used interchangeably. We will also be modifying the mounting brackets for the cameras. See attached drawings.	The Prosilica camera is obsolete and is in limited supply.	ISA-10 ADU Rods ISA ID	Gamma Scanner 4
14312	VFS-2 Connection to PCN	The PLC and HMI PC associated with vacuum furnace #2 in the grid area will each be connected to the PCN (Process Control Network).	Data collection and source control	Components	Grid Area
14314	Remove Equipment From Tool Room	Remove no longer needed equipment from the mechanical area tool room: 1. B&S Surface Grinder (move to controlled area tool room) 2. HES Lathe (move to controlled area tool room) 3. B&S Surface Grinder (surplus)  Install in the Controlled Area tool room: 1. B&S Surface Grinder to replace the existing Harig Surface Grinder 2. HES Lathe to replace the existing HES lathe.  Note that the surface grinder has a coolant reservoir with it that is NFG. An EHS letter is attached on this subject for reference.  <u>The Harig grinder and HES lathe removed from the tool room will be scrapped.</u>	Remove no longer needed equipment from tool room to make room for rearrangement of other equipment	Grounds	Mechanical Side - Tool Room
14315	Relocate Equipment in Tool Room #3	Relocate Powermatic Model 1200 Drill Press Relocate Johansson Drill Press Relocate SuperTech G32-60NC OD Grinder Relocate Flammables Cabinets Relocate miscellaneous storage cabinets & shelves, collection containers.	Rearrange equipment to allow addition of new milling machines	Grounds	Mechanical Side - Machine Shop
14316	Relocate Tool Room Equipment #4	Relocate the Okamoto 12-24DX Surface Grinder from the Tool Room CNC area to the Surface Grinder area.	The Surface Grinder is being moved to make room for the new Vectrax CNC Milling Machines.	Grounds	Mechanical Side -Tool Room

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14317	Relocate Equipment in Tool Room #2	Relocate Parker Manual Surface Grinder from CNC area to Surface Grinding area. Relocate Parker CNC Surface Grinder from near wall to Surface Grinding area. Relocate Harding HVL H Lathe Install Monarch 10EE Lathe  (All work taking place inside the mechanical side tool room.)	New Equipment needs to be installed.	Grounds	Mechanical Side - Machine Shop
14318	Relocate and Add Equipment in Tool Room #5	Relocate Deburr Hood and Remove Torit Relocate Hydraulic Press Install two (2) new Vectrax Milling Machines Remove Jet Vertical Band Saw and Install Do-All Vertical Band Saw	Provide room necessary for newly installed equipment	Grounds	Mechanical Side - Machine Shop
14350	Fuel Assembly Loader Tubing Harness Support Modification	The fuel assembly loaders have a harness that is used to hold tubing for the air supply for operation of the pull rods. This harness is being changed in order to hold the tubing in place better. Because of the new harness, the support needed to keep the harness off the ball screw needs to be lengthened. The loader drawings will be modified to reflect the extension of the harness support.	The harness support extension is needed so that the harness will not come in contact with the ball screw when the carriage is advanced.	ISA-17 Final Assembly	Final Assembly
14352	Bar code location on line 7 cassettes	Add notes to drawing 812F01EQ04 to allow location of bar code tag anywhere on the front or top face of the support structure of the cassette. Also allow for up to 1/8 inch thick material to be tack welded to the cassette to prevent incidental contact that damages bar codes.	Bar codes as installed have been damaged due to contact with other cassettes during use. Moving the location of the bar code (either differently on the front face or along the top) will help minimize the damage. Bar codes will be necessary for future upgrades to material handling and tracking.	ISA-12 IFBA Fuel Rod Manufacturing	Cassettes for line 7
14364	HX-1182 Stainless Steel Bonnets	Replace top and bottom bonnets of HX-1182 with new stainless steel parts.	Existing heads are badly corroded.	ISA-06 Chemicals Receipt, Handling and Storage	Still 2
14366	T-4 Density Meter Replacement	Replace existing density meter on T-4 with new Micro Motion mass flow densitometer, and add remote readout.	Current density meter is not functional, and density must be monitored manually when T-4 is in use.	ISA-06 Chemicals Receipt, Handling and Storage	Tank Farm
14382	Relocation of Polypac solenoids on Line4 Conversion moisture sampler	Relocation of Polypac solenoids on Line4 Conversion moisture sampler.	Currently the solenoids are inaccessible due to additional pipling being added.	ISA-03 ADU Conversion	Line 4 Fitzmill
14405	Carolina Lift & Hoist Storage Area	Install 2 new StrongHold's all welded Extra Heavy Duty storage cabinets (36"x24"x72" & 48"x24"x72") on the old Map Line in UF6 Bay.	Contractor needs storage cabinets to store tools, parts, equipment, etc. This will allow them easy access to perform jobs efficiently.	Grounds	Uf6 Bay

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14408	2B Furnace Modifications	<p>ELECTRICAL.</p> <ol style="list-style-type: none"> <li>Replace/Install: Isolation Transformer for PLC, New style Thermocouple Transmitters, 40VDC Power Supply and Agastat Timer for super purge to match existing furnaces. Ref. CCF 13554 - Electrical, Part 4 for similar change.</li> <li>Replace obsolete fuses 14FU and 15FU (push-in and turn style) with breakers. Ref. CCF 13554 - Electrical, Part 5 for similar change.</li> <li>Field verify and correct any drawing inadequacies. Ref. CCF 13554 - Electrical, Part 6 for similar change..</li> <li>Install Lock Out device for Main Pusher, Entrance Pusher, and Exit Pusher motor. Ref. CCF 13554 - Electrical, Part 7 for similar change.</li> <li>Replace the boat inverting system with a new 361F02EQ22 design. Ref CCF 13333 (3C) for similar change.</li> </ol> <p>F02 P&amp;ID</p> <ol style="list-style-type: none"> <li>Change valves for Entrance &amp; Exit End flame curtains from 1/2" Kerotest-Marsh needle valve, P/N N1514 to N1534.</li> <li>Change gas cock valve for Entrance &amp; Exit End stack pilots to Swagelok ball valve, P/N SS-42GS4. Ref CCF 13554, F02 P&amp;ID, Part 6 for similar changes.</li> <li>Replace existing ADU Sintering furnace element leg cooling glands(361F02EQ13) with new, improved cooling glands(361F02EQ25). Braided Hose will be used to interconnect the new glands. Ref CCF 13554, F02 P&amp;ID, Part 7 for similar changes.</li> <li>Add pressure gage to natural gas inlet line. Add plug valve prior to pressure gage. Ref CCF 13043, F02 P&amp;ID, Part 2 for similar changes.</li> <li>Change natural gas solenoids to 8215G020. Ref CCF 13043, F02 P&amp;ID, Part 5 for similar changes.</li> <li>Add a Hayward Duplex strainer on the cooling water line just prior to the header</li> </ol>	<p>ELECTRICAL.</p> <ol style="list-style-type: none"> <li>Replace obsolete equipment.</li> <li>Fuses obsolete.</li> <li>Field verifying and making drawing corrections while working on a piece of equipment is good engineering practice. This also provides Craft personnel reliable documentation when troubleshooting.</li> <li>To allow individual lock out for the pushers for maintenance purposes.</li> <li>The 90 degree gearbox is obsolete. Improve reliability of dump system.</li> </ol> <p>F02 P&amp;ID</p> <ol style="list-style-type: none"> <li>N1534 valve has male threads on one end eliminating need for extra pipe nipple and thus, reduces number of pipe connections.</li> <li>Replace with modern valve.</li> <li>New cooling glands will be able to compensate for alignment issues associated with warped furnace floors, provide improved sealing and provide improved cooling. The braided hose interconnection will provide a flexible connection to alleviate alignment issues between the gland cooling coils.</li> <li>Provides ability to check natural gas pressure at an individual furnace. Plug valve is to provide gas pressure isolation to replace gage when needed</li> </ol>	ISA-08 Pelleting	ADU Pelleting \ 2B Sintering Furnace
14410	Nitric Acid Pump Change P-51A	<p>This CCF is to change the pump case material from the current nitric acid pump (P-51A) that supplies the plant. We currently have a pump case material of GFR-PFA, and we would like to change to ETFE per manufacturer's recommendation. The current model is KM1515W00AA42235. The new model is KM1515W00AA42215.</p>	<p>We have had several pump failures with the current pump style. The manufacturer has recommended that we change the material of the pump liner from PFA to ETFE to mitigate future issues.</p>	ISA-06 Chemicals Receipt, Handling and Storage	URRS Outside
14415	Boat Loader Conveyor Modifications	<ol style="list-style-type: none"> <li>Change width of It. 39 &amp; 42 Guide Wheel belt seat from .625" to .640".</li> <li>Change overall length of It. 10 from 3.19" to 3.13".</li> </ol>	<ol style="list-style-type: none"> <li>To allow the Guide Wheels to handle the belt width max. tolerance. The belt width is .62" +/- .02".</li> <li>The 3.13" dimension will better align the Item 15 Drive Wheel with the Item 65 Pinion Drive wheel. Note this will make the Item 10 detail match the Sht 02, Section D-D assembly view i.e. Item 10 was drawn correctly in Section D-D, but not in the part detail.</li> </ol>	ISA-08 Pelleting	ADU & Erbia Pelleting \ Vacuum Boat Loaders
14417	Modify tube cart for IFBA usage	<p>Add FME cover addition as seen on 454F01EQ06 to the 2 XL tube carts (drawing 454F01EQ05). Change stationary wheels to swivel wheels (same part number as on the existing drawing). Create new drawing numbers for these carts as they will no longer be in the tube prep area.</p>	<p>These carts will give IFBA a location to transport and store tubes for each of the rod line. The swivel wheels will allow operations to transport the cart through the plant to the window. THE FME cover is for foreign material prevention.</p>	ISA-12 IFBA Fuel Rod Manufacturing	Lines 5 and 7

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14424	Gamma Scanner 4 New Cognex Barcode Readers	<p>This project will replace the existing barcode readers on Gamma Scanner 4 with new qualified barcode readers, hardware and components that have recently been installed in multiple locations throughout the plant. This project will install two (2) complete barcode reading stations on each channel on the scanner.</p> <p>New mounting and support, lighting, cameras, and electrical hardware will be installed to complete this job. The existing cell interface will have minimal configuration changes.</p>	<p>The Gamma Scanner Barcode Readers are obsolete and require significant maintenance and engineering support. The manufacturer of the existing cameras have gone out of business and spare similar parts are no longer available.</p> <p>The new readers are well supported and have demonstrated an operator Free read rate of 99.4% or better.</p>	ISA-10 ADU Rods	Mechanical Area Off Aisleway in Rod Inpection
14428	Installation of remaining drain line for Zirc Knock Out tank	This CCF is to install the remaining drain line.	Piping nad valve were attached to tank during last OM before entire design was completed.	ISA-03 ADU Conversion	Mezzanine above ADU rod area
14430	Modify ADUHFS901 for Line 5	Install blocking valves in air line to P506C and remove line from scrubber to V506.	Blocking valves have position indication which makes SSC verification easier. The line from the scrubber to V506 is not in use and has been removed on other lines.	ISA-03 ADU Conversion	Line 5 at V506
14433	Traveller Upender - Lifting Eyes	<p>Drawing 448F15EQ01 Traveller Upender need on occassion to be moved.</p> <p>The base plate on each upender needs to be modified to add "D" Rings or Lifting hardware that can be attached to allow the upenders to be safely attached to a crane and conviently moved.</p>	<p>This CCF is to modify the drawing listed because it was left ommitted from CCF-08436.</p> <p>Currently when the upender base plates require movement, slings and straps are attached at any convenient location on the base plate. Hardware attached to the base plate was not designed for and does not allow for safe movment of the upenders.</p>	ISA-17 Final Assembly	Packing
14441	Furn 1A Individual N2 Pressure Switch Switchover	<p>With this CCF, we will transfer the low nitrogen pressure interlock wiring from the common switch to the new individual switch for this furnace.</p> <p>All sintering furnaces in ADU and Erbia have a low nitrogen pressure interlock (PELSINT-903) from a pressure switch on the main nitrogen header that is located on the thermal stability furnace mezzanine. A new header with individual pressure switches has been installed under CCF 09630. This will enable each furnace to have its own pressure switch for this interlock.</p> <p>PELSINT-903 will be affected.</p>	<p>PELSINT-903 is the interlock that trips all sintering furnaces on low nitrogen header pressure.</p> <p>The present arrangement causes all furnaces to be tripped whenever a single furnace requires a PELSINT-903 interlock proof test. This is a significant inconvenience to Operations and Maintenance and increases the risk of furnace element failure.</p>	ISA-08 Pelleting	Furnace 1A
14452	Updated Pellet Pan Cart	A 2-tier pan transport cart similar in spacing, but shorter and narrower to allow for better mobility and able to transport pans, boats, or sludge bowls.	Current pan carts cannot fit between certain furnaces, specifically on Line 2. This current cart has all the same spacing dimensions, but is shorter and narrower allowing for improved mobility.	ISA-08 Pelleting	Pellet Area
14453	Replace Contactor for DI Water Heater with Solid State Switch	Replace the Contactor for the DI Water Heater in Conversion with Solid State Switches.	Mechanical contactor will "wear out" due to high cycle times. An SCR will eliminate the mechanical wear.	ISA-03 ADU Conversion	DI water heater near line 2 Conversion line
14458	Line 5 R53 Press Hold-down Cam Piping change	Change the flexible hose running from the Hold-down Cam Reservoir to the Hold-down Cam from 1/4" to 3/8". Valve/fittings in line with the hose are also being changed.	To maximize the orifice size of the hose/fittings. Current hose/fitting orifice size restricts flow too much to allow the cams to respond adequately.	ISA-08 Pelleting	ADU Pelleting \ Line 5 R53 Press
14459	Grinder Line 6 Tray Elevator Sensor Change	Change tray load sensors from Turck P/N NI6U-EG08-AP6X proximity sensor to Banner M12PFF25Q8 fixed field sensor or equivalent.	The current sensor requires close positioning to the tray to enable tray detection; the close proximity to the tray often results in damage to the sensor by the tray. The proposed fixed field sensor can be positioned far enough away from the tray to enable tray detection without damage to the sensor by the tray.	ISA-08 Pelleting	ADU Pelleting / Grinder Line 6 Tray Elevator

CCF No.	Title	Description	Justification	ISA ID	Location
14460	Erbia Tray Elevator Sensor Change	Change tray load sensors from Turck P/N NI6U-EG08-AP6X proximity sensor to Banner M12PFF25Q8 fixed field sensor or equivalent.	The current sensor requires close positioning to the tray to enable tray detection; the close proximity to the tray often results in damage to the sensor by the tray. The proposed fixed field sensor can be positioned far enough away from the tray to enable tray detection without damage to the sensor by the tray.	ISA-08 Pelleting	Erbia Pelleting / Grinder Tray Elevator
14461	Erbia S1 Furnace Modification.	Install the (3) high temperature zone thermocouples thru the top of the furnace instead of the side of the furnace. Install a sight port in each of the (3) ports in the side of the furnace where the thermocouples were installed. Install moly targets on the pin walls directly across from the sight ports.  Change similar to CCF 08032.	The sight ports/targets will allow checking furnace temperature with a pyrometer. Currently the Erbia furnace has no methodology for verifying furnace temperature other than the thermocouples. Being able to verify the temperature with the pyrometer will provide an overcheck that the thermocouple temperature output is correct.  Note that the OEM(Lindberg) original specifications had the thermocouples entering thru the top of the furnace i.e. we will actually be returning the furnace to the OEM original configuration. The proposed changes have been reviewed and approved by Lindberg.	ISA-08 Pelleting	Erbia S1 Furnace
14462	ADU Sintering Furnace 2B Controls and Power Improvements	Replacement of the Drum Controller with AB Panelview and CompactLogix PLC. Relocation of 480V SCR and other 120V and higher components to a Safer Location. Relocation of PLC and drum related SSC's to Hardwired Connections. Additionally PLC Controls for Safety are being removed from the GE PLC and relocated to a new Siemens Safety PLC and/or Hardwired. As a result some furnace rebuild components (specifically switches, valves and transmitters) are being included in the scope of this CCF as noted:  1. Upgrade piping to FSS-003/NFPA 50A/ASME B.31.12-2008 specifications. Ref. CCF 13554, F01 P&ID, Part 1 for similar changes. 2. Change nitrogen and hydrogen piping routes. Ref. CCF 13554, F01 P&ID, Part 2 for similar changes. 3. Replace SV2B-4 with air actuated valve. Ref. CCF 13554, F01 P&ID, Part 3 for similar changes. 4. Relocate CV2B-1 to be downstream of XV2B-6 control valve instead of preceding the valve. Ref. CCF 13554, F01 P&ID, Part 4 for similar changes. 5. Replace Jarret # 605 Nitrogen and Hydrogen pressure gage shut-off valves with Swagelok SS-4P4T4 plug valve. Ref. CCF 13554, F01 P&ID, Part 6 for similar changes. 6. Remove valves/piping for old dew point measurement system. Ref. CCF 13043, F01 P&ID, Part 6. 7. Remove ball valves at gas inlet to furnace. Ref. CCF 13043, F01 P&ID, Part 9 for similar changes. 8. Replace radiomatic pyrometers with Nanmac A12A-3-48-C-DPX-10HF thermocouples. This will include adding (2) flow meters for each thermocouple. Ball valves will be installed upstream and downstream of each flow meter. The following SSC's will be impacted: PELSINT 902, PELSINT 904, PELSINT 905, PELSINT 908 &	To address Obsolescence and Safety Concerns and for the following rebuild upgrade issues:  1. To meet current piping specifications during XV2B-1, XV2B-2, XV2B-3, XV2B-6 & XV2B-7 air actuated control valve installation. 2. Required for new air actuated control valve installation; to reduce solenoid heat exposure and to improve valve access. 3. Standardization with SV/XV2B-1, SV/XV2B-2, SV/XV2B-3, SV/XV2B-6 & SV/XV2B-7 air actuated control valves. 4. To aid new pipe routing required for air actuated control valve installation. 5. Jarret # 605 needle valves are obsolete and are not a preferred application for a shut-off valve. 6. Old dew point measurement system not used. 7. Valves were originally for controlling flow to each end of the high heat zone. Controlling flow to this degree is no longer required. Removing valves will also decrease number of pipe joints where leaks can occur. 8. See Electrical Part 10 for pyrometer replacement justification. Flow meters are being added to enable flow control to each thermocouple. The ball valves are being added to allow isolation of the of the thermocouple flow meters to enable replacement. 9. Per the cylinder and solenoid manufacturer, air lubrication is not required for cylinder and solenoid operation. This also	ISA-08 Pelleting	Chemical Side - Line 2 Pellet Sintering



CCF No.	Title	Description	Justification	ISA ID	Location
14463	Furn 3B Individual N2 Pressure Switch Switchover	<p>With this CCF, we will transfer the low nitrogen pressure interlock wiring from the common switch to the new individual switch for this furnace.</p> <p>All sintering furnaces in ADU and Erbia have a low nitrogen pressure interlock (PELSINT-903) from a pressure switch on the main nitrogen header that is located on the thermal stability furnace mezzanine. A new header with individual pressure switches has been installed under CCF 09630. This will enable each furnace to have its own pressure switch for this interlock.</p> <p>PELSINT-903 will be affected</p>	<p>PELSINT-903 is the interlock that trips all sintering furnaces on low nitrogen header pressure.</p> <p>The present arrangement causes all furnaces to be tripped whenever a single furnace requires a PELSINT-903 interlock proof test. This is a significant inconvenience to Operations and Maintenance and increases the risk of furnace element failure.</p>	ISA-08 Pelleting	Furnace 3B
14464	Remove Abandoned 1/2" UN Line and Rebuild Instr Stand	<p>This CCF would remove an abandoned 1/2" UN line and re-build the existing instrument stand.</p>	<p>The existing stand is extremely large and only one corner is currently used. This CCF would replace the large stand with a smaller stand and get rid of an abandoned UN line. There is a flow transmitter box that will be relocated to the new stand.</p>	ISA-03 ADU Conversion	Conversion Line 5 - 506 Column
14466	Furn 2C Individual N2 Pressure Switch Switchover	<p>With this CCF, we will transfer the low nitrogen pressure interlock wiring from the common switch to the new individual switch for this furnace.</p> <p>All sintering furnaces in ADU and Erbia have a low nitrogen pressure interlock (PELSINT-903) from a pressure switch on the main nitrogen header that is located on the thermal stability furnace mezzanine. A new header with individual pressure switches has been installed under CCF 09630. This will enable each furnace to have its own pressure switch for this interlock.</p> <p>PELSINT-903 will be affected</p>	<p>PELSINT-903 is the interlock that trips all sintering furnaces on low nitrogen header pressure.</p> <p>The present arrangement causes all furnaces to be tripped whenever a single furnace requires a PELSINT-903 interlock proof test. This is a significant inconvenience to Operations and Maintenance and increases the risk of furnace element failure.</p>	ISA-08 Pelleting	Furnace 2C
14471	Add valve and cleanout port on incinerator water line	<p>Replace elbow where emergency makeup water joins incinerator scrubber filtration water system with a tee so that a valve and blind flange can be added.</p>	<p>Currently at this elbow, debris can build up and impact the flows that go to 942 and 943 columns. By adding this valve and blind flange, we will be able to use this as a clean out port to remove any solids build up that exists due to the line dead heading at this elbow.</p>	ISA-13 Low Level Radioactive Waste Processing	URRS Inside Incinerator
14478	Water Treatment for Equipment Room 3 Cooling Towers	<p>Currently the water treatment chemicals used in the Equipment Room #3 Cooling Towers are supplied and maintained by GE Water. This CCF will allow these chemicals and water treatment to be replaced with US Water Service products and delivery systems.</p> <p>1.Tower MP 575, scale and corrosion inhibitor (polymer); replacing GE Continuum AT 209)</p> <p>2.Biotrol 409(oxidizing biocide, stabilized bromine); replacing GE Spectrus OX 909)</p> <p>3.Tower Pro BD (bio dispersant sticks, manually added to tower basins; replacing use of GE Spectrus NX 104, but not a similar chemistry)</p> <p>4.Biotrol BT (oxidizing bromine tablets, manually added to tower basins; replacing use of GE Spectrus OX 105)</p> <p>The liquid chemicals will be metered using peristaltic pumps.</p> <p>Note, the MSDS and Product data sheets for each of the above listed chemicals are attached.</p>	<p>The CFFF has ceased using GE Power and Water for our water treatment and has entered into a water treatment contract with U.S. Water Services.</p>	Grounds	Equipment Room #3

CCF No.	Title	Description	Justification	ISA ID	Location
14479	Water Treatment for Equipment Room 1 Cooling Towers	<p>Currently the water treatment chemicals used in the Equipment Room #1 Cooling Towers are supplied and maintained by GE Water. This CCF will allow these chemicals and water treatment to be replaced with US Water Service products and delivery systems.</p> <p>1.Tower MP 575, scale and corrosion inhibitor (polymer); replacing GE Continuum AT 209)</p> <p>2.Biotrol 409(oxidizing biocide, stabilized bromine); replacing GE Spectrus OX 909)</p> <p>3.Tower Pro BD (bio dispersant sticks, manually added to tower basins; replacing use of GE Spectrus NX 104, but not a similar chemistry)</p> <p>4.Biotrol BT (oxidizing bromine tablets, manually added to tower basins; replacing use of GE Spectrus OX 105)</p> <p>5.BWT-100-A (caustic 30% NaOH) for pH increase; replacing GE Optisperse ADJ 560. The liquid chemicals will be metered using peristaltic pumps.</p> <p>Note, the MSDS and Product data sheets for each of the above listed chemicals are attached.</p>	The CFFF has ceased using GE Power and Water for our water treatment and has entered into a water treatment contract with U.S. Water Services.	Grounds	Equipment Room #1
14480	Chemical Cooling Tower Water Treatment	<p>Currently the water treatment chemicals used in the Chemical Cooling Towers are supplied and maintained by GE Water. This CCF will allow these chemicals and water treatment to be replaced with US Water Service products and delivery systems.</p> <p>1.Tower MP 575, scale and corrosion inhibitor (polymer); replacing GE Continuum AT 209)</p> <p>2.Biotrol 409(oxidizing biocide, stabilized bromine); replacing GE Spectrus OX 909)</p> <p>3.Tower Pro BD (bio dispersant sticks, manually added to tower basins; replacing use of GE Spectrus NX 104, but not a similar chemistry)</p> <p>4.Biotrol BT (oxidizing bromine tablets, manually added to tower basins; replacing use of GE Spectrus OX 105)</p> <p>5.BWT-100-A (caustic 30% NaOH) for pH increase; replacing GE Optisperse ADJ 560. The liquid chemicals will be metered using peristaltic pumps.</p> <p>Note, the MSDS and Product data sheets for each of the above listed chemicals are attached.</p>	The CFFF has ceased using GE Power and Water for our water treatment and has entered into a water treatment contract with U.S. Water Services.	Grounds	Grounds
14481	Water Treatment for all Closed Loop Chill Water Systems	<p>Currently the water treatment chemical used in the Chill Water closed loop systems is supplied and maintained by GE Water. This CCF will allow the chemical and water treatment to be replaced with a US Water Service product.</p> <p>447-LM, a nitrite-based corrosion inhibitor, will be slug fed to pot feeders and will replace GE Corrrshield NT 402.</p> <p>Note, the MSDS and Product data sheet for the 447-LM is attached.</p>	The CFFF has ceased using GE Power and Water for our water treatment and has entered into a water treatment contract with U.S. Water Services.	Grounds	Equipment Rooms
14482	Pellet Line 2 Dust Collector Probes	Replace obsolesent Drexelbrook high and high, high level probes on pellet line 2 dust collector.	The existing probes have proved to be difficult to calibrate and hold calibration. The manufacturer no longer supports certain critical parts associated with these probes.	ISA-08 Pelleting	Pelleting Line 2
14483	Modify intake to auxillary V-120 pump	This CCF would tie together the bottom of the vessel to allow the input to the auxillary pump to come from the bottom of the tank instead of the passive overflow.	<p>This CCF would help prevent spills on the V-x20 by allowing the auxillary pump to pick up soln sooner than the passive overflow.</p> <p>This change is the same as the change made to CL5 on CCF-12679.</p>	ISA-03 ADU Conversion	Line 1 V-120

CCF No.	Title	Description	Justification	ISA ID	Location
14484	Modify intake to auxillary V-220 pump	This CCF would tie together the bottom of the vessel to allow the input to the auxillary pump to come from the bottom of the tank instead of the passive overflow.	This CCF would help prevent spills on the V-x20 by allowing the auxillary pump to pick up soln sooner than the passive overflow.  This is the same change that was made under CCF-12679 on CL5.	ISA-03 ADU Conversion	Line 2 V-220
14485	Modify intake to auxillary V-320 pump	This CCF would tie together the bottom of the vessel to allow the input to the auxillary pump to come from the bottom of the tank instead of the passive overflow.	This CCF would help prevent spills on the V-x20 by allowing the auxillary pump to pick up soln sooner than the passive overflow.  This is the same change that was made under CCF-12679 on CL5.	ISA-03 ADU Conversion	Line 3 V-320
14486	Modify intake to auxillary V-420 pump	This CCF would tie together the bottom of the vessel to allow the input to the auxillary pump to come from the bottom of the tank instead of the passive overflow.	This CCF would help prevent spills on the V-x20 by allowing the auxillary pump to pick up soln sooner than the passive overflow.  This is the same change that was made under CCF-12679 on CL5.	ISA-03 ADU Conversion	Line 4 V-420
14489	Product Storage Area Lighting Upgrade	With this CCF, we will replace existing 450W high pressure sodium (HPS) high bay light fixtures with new 250W LED high bay fixtures in the Product Storage Area.	*Continuous Improvement *Sustainability *Meet maintenance requirements as maintenance begins upgrading the plant lighting across the Mechanical side.	Grounds	Product Storage Area and Dock 2
14494	Remove Powered Up-Ender from the Patriot Building	The Traveller powered up-ender is to be removed from the Patriot building.	The powered up-ender is no longer used for the Traveller 5-year recertification process.	Grounds	Patriot Building
14496	Change Material Type of Bracket To CS	Currently the bracket that holds the actuator onto the Siletta feeder valve is aluminum and breaks frequently. This CCF would change the part to CS to increase the strength of the bracket.	This change will increase the strength and reliability of the bracket. The new CS brackets will be put on as needed when the old aluminum brackets break.	ISA-05 ADU Bulk Powder Blending	Bulk Room
14497	Demo Line 5 GE PLC	Remove unused Line 5 GE PLC cabinet and associated conduits and wiring.	Line 5 GE PLC is no longer in service.	ISA-03 ADU Conversion	Line 5 PLC Cabinet by Fitzmill
14510	Combine Safety Significant ChAMPS Transactions and Upgrade Them From VB6 to .NET	This CCF would allow IS to combine all of Conversions's safety significant transactions into one application and upgrade them to .NET. The following transactions would be combined: Gather, Move, Re-Mill, Verification, & ADU Dumphood.  The safety significant interlocks will be need to be verified once the upgrade has been released(see attached ITR).  The new application will be named "Blending".	These transactions are the last Conversion transactions to be migrated to .NET. This CCF would allow this change.	ISA-05 ADU Bulk Powder Blending	Bulk Blending
14521	Tractor Shed Safety Shower	Install freeze-protected safety shower outside of Tractor Shed per attachement.	Green Book issue 66517 created by Incident Commander to have a highly visible eye wash and safety shower in the area because workers are handling batteries/acid for batteries, paint thinners, solvents etc.	Grounds	Tractor Shed
14524	Gate 1 Outdoor Lighting Improvement	With CCF, we will replace the single head metal halide light fixture with a dual head metal halide light fixture. The replacement will duplicate the existing fixtures adjacent to it.	Upgrade lighting.	Grounds	Gate 1

CCF No.	Title	Description	Justification	ISA ID	Location
14525	Pop-up Roller Update	There is an mix of Mark 1 and Mark 2 pop-up rollers currently in use for lines 5 and 7. As the Mark 1 units need replacements, the Mark 2 design should be utilized but the Mark 2 design package is incomplete. (There are 3 types of units, a Type 1 and a Type 2a and 2b; but the Type 2s have not yet been updated.) This project will complete the Mark 2 design package for the type 2a and b units, and update the drawing packages to indicate that these are direct replacements for the Mark 1s.	The current Mark 1 Pop-up Rollers have a deficiency which means that they should not be used as replacement units. Use of the Mark 1s, without additional precautionary work could result in damage to the product. The Mark 2s do not have this deficiency.	ISA-12 IFBA Fuel Rod Manufacturing	CFFF, IFBA ROD PRODUCTION, MATERIAL HANDLING
14527	Add Drain Port to V-1087C/D	Add Drain Port to V-1087C/D	This will be a key feature to prevent operations from being exposed to UN if the operators need to drain and isolate V-1087C/D.	ISA-07 Solvent Extraction	SOLX
14528	Grinder Line 6 Beeper Box Upgrade	With this CCF, we will install the new approved beeper box (ccf 14124) and pressure switch(ccf 13640) at the grinder line. The new beeper box will replace the existing beeper box at the inspection station and regwheel station. The new pressure switches will replace the existing switch for the bowl and regwheel station plc inputs.  No Dwg change related to this CCF.	*Standardization *Current swtiches are either problematic or obsolete depending on the line or date of installation *New switches have a larger diaphragm and are more repeatable.	ISA-08 Pelleting	Grinder Line 6
14529	Furn 5A Individual N2 Pressure Switch Switchover	With this CCF, we will transfer the low nitrogen pressure interlock wiring from the common switch to the new individual switch for this furnace.  All sintering furnaces in ADU and Erbia have a low nitrogen pressure interlock (PELSINT-903) from a pressure switch on the main nitrogen header that is located on the thermal stability furnace mezzanine. A new header with individual pressure switches has been installed under CCF 09630. This will enable each furnace to have its own pressure switch for this interlock.  <u>PELSINT-903 will be affected.</u>	PELSINT-903 is the interlock that trips all sintering furnaces on low nitrogen header pressure.  The present arrangement causes all furnaces to be tripped whenever a single furnace requires a PELSINT-903 interlock proof test. This is a significant inconvenience to Operations and Maintenance and increases the risk of furnace element failure.	ISA-08 Pelleting	Furnace 5A
14530	Furn 2A Individual N2 Pressure Switch Switchover	With this CCF, we will transfer the low nitrogen pressure interlock wiring from the common switch to the new individual switch for this furnace.  All sintering furnaces in ADU and Erbia have a low nitrogen pressure interlock (PELSINT-903) from a pressure switch on the main nitrogen header that is located on the thermal stability furnace mezzanine. A new header with individual pressure switches has been installed under CCF 09630. This will enable each furnace to have its own pressure switch for this interlock.  <u>PELSINT-903 will be affected.</u>	PELSINT-903 is the interlock that trips all sintering furnaces on low nitrogen header pressure.  The present arrangement causes all furnaces to be tripped whenever a single furnace requires a PELSINT-903 interlock proof test. This is a significant inconvenience to Operations and Maintenance and increases the risk of furnace element failure.	ISA-08 Pelleting	Furnace 2A
14536	Plating Room Manual Assist Wheel Upgrades	Replace wheels on bridge and runway trolleys to new design lower friction roller assemblies, Gorbelt part number 0501.16C. Wheels are a specified replacement by Gorbelt and rated for the same capacity as the existing wheels.	Reduce friction and drag for moving the manual assist system bridges. Reduces strain on the operator.	Grounds	Grids - Plating Room
14538	Elapsed Time Meter Substitution; Obsolete Part Mapcon StRm#69068	With this CCF, we will replace in the store room mfg. part number 2900-21 with 2900-28. The storeroom setup sheet will be changed on completion of this CCF. The replacement unit is a direct replacement and this CCF will allow this device to be used as a replacement for 2911-21; unless it is used in a safety significant control. If used in an SSC application, a separate CCF and ITR will have to be generated. The new device does the same thing as the old device. Per the supplier, the Mfg (Radeco) has made a change to their part number. There is no change to the form, fit, or function of this part.	Per the Supplier, part number 2900-21 is no longer available. Mfg. part number 2900-28 is the replacement part number.	Components	Store Room Parts

CCF No.	Title	Description	Justification	ISA ID	Location
14539	Fabricate and replace Alkaline Tank in Strap Plating Room	Fabricate and replace Alkaline Tank in Strap Plating Room. The original footprint, location, function and connection to the exhaust are the same. No change the area arrangement drawing is necessary, and a new fabrication drawing will document the new equipment.	Existing tank has met/exceeded its usable lifetime and has had to be sealed. A new tank with increased mechanical integrity needs to be installed.	Components	Alkaline Clean Tank in Strap Plating Room.
14540	Change power source to 3ATS6 generator start circuit	Change the source of power for an interposing relay in 3ATS6 from URP2-9BB to the transformer providing power to the Generator Start circuit.	During the recent replacement of 3ATS6 under CCF 14102 the source of power for an added interposing relay was taken from URP2-9BB. It should have come from the transformer providing power to the generator start circuit.	Grounds	Equipment Room #3.
14542	Add Pump Failure Alarm to Chemical Cooling Tower	Add Pump Failure Alarm to Chemical Cooling Tower	When a pump fails it can cause "flooding" in the Pellet Furnace, and Conversions areas; if not detected quickly.	Grounds	Chemical Cooling Tower near the Tank Farm
14543	Pellet Line 5 Dust Collector Probe Replacement	Replace obsolescent Drexelbrook high and high, high level probes on pellet line 5 dust collector.	The existing probes have proved to be difficult to calibrate and hold calibration. The manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	Pelleting Dust Collector Line 5
14548	Still 1 Cooling Tower Chemical Feeds	Change of chemical feed system on Still 1 Cooling Tower to US Water Equipment.	Vendor change for chemical addition.	ISA-06 Chemicals Receipt, Handling and Storage	Outside URRS next to Still 1 building
14552	Grinder Line 1 Beeper Box Upgrade	With this CCF, we will install the new approved beeper box (ccf 14124) and pressure switch(13640) at the grinder line. The new beeper box will replace the existing beeper box at the inspection station and regwheel station. The new pressure switches will replace the existing switch for the bowl and regwheel station plc inputs.	*Standardization *Current swtiches are either problematic or obsolete depending on the line or date of installation *New switches have a larger diaphragm and are more repeatable.	ISA-08 Pelleting	Grinder Line 1
14554	Grinder Line 2 Beeper Box Upgrade	With this CCF, we will install the new approved beeper box (ccf 14124) and pressure switch(ccf 13640) at the grinder line. The new beeper box will replace the existing beeper box at the inspection station and regwheel station. The new pressure switches will replace the existing switch for the bowl and regwheel station plc inputs.	*Standardization *Current swtiches are either problematic or obsolete depending on the line or date of installation *New switches have a larger diaphragm and are more repeatable.	ISA-08 Pelleting	Grinder Line 2
14555	Grinder Line 3 Beeper Box Upgrade	With this CCF, we will install the new approved beeper box (ccf 14124) and pressure switch(ccf 13640) at the grinder line. The new beeper box will replace the existing beeper box at the inspection station and regwheel station. The new pressure switches will replace the existing switch for the bowl and regwheel station plc inputs.	*Standardization *Current swtiches are either problematic or obsolete depending on the line or date of installation *New switches have a larger diaphragm and are more repeatable.	ISA-08 Pelleting	Grinder Line 3
14556	Grinder Line 4 Beeper Box Upgrade	With this CCF, we will install the new approved beeper box (ccf 14124) and pressure switch(ccf 13640) at the grinder line. The new beeper box will replace the existing beeper box at the inspection station and regwheel station. The new pressure switches will replace the existing switch for the bowl and regwheel station plc inputs.	*Standardization *Current swtiches are either problematic or obsolete depending on the line or date of installation *New switches have a larger diaphragm and are more repeatable.	ISA-08 Pelleting	Grinder Line 4
14557	Grinder Line 5 Beeper Box Upgrade	With this CCF, we will install the new approved beeper box (ccf 14124) and pressure switch(ccf 13640) at the grinder line. The new beeper box will replace the existing beeper box at the inspection station and regwheel station. The new pressure switches will replace the existing switch for the bowl and regwheel station plc inputs.	*Standardization *Current swtiches are either problematic or obsolete depending on the line or date of installation *New switches have a larger diaphragm and are more repeatable.	ISA-08 Pelleting	Grinder Line 5
14560	Optional Upgrade of Liquid Scrap Tank Piping to PVDF Lined Carbon Steel Piping	For the piping associated with the liqiud scrap tanks V-1014, V-1015, V-1017, and V-1018, except for the dedicated DI water piping, this CCF will allow the option of upgrading all 1-inch and 2-inch piping to PVDF (Kynar) lined carbon steel piping, instead of the existing 304/304L SS piping per piping specification FSS-003-46. For flanged transitions from 304/304L SS to PVDF lined piping, 1/8-inch thick 100% expanded PTFE (Gore-Tex) gaskets shall be used. No gaskets shall be used for flanges between PVDF lined piping sections.	There have been multiple weld failures and other signs of corrosion to the existing 304/304L SS piping, mainly due to the high fluoride content of the solution. Upgrading to PVDF (Kynar) lined carbon steel piping will increase reliability and minimize the likelihood of weld failures and the resulting spills.	ISA-03 ADU Conversion	Liquid Scrap Tanks

CCF No.	Title	Description	Justification	ISA ID	Location
14563	Safety Light On Tooling Saw	<p>Add a green type light to the tooling saw. Tooling has an existing grinder that already has a green light that comes on when the Grinder is powered on. Add the same type light to the tooling saw. The added light will light up when saw is blade is running.</p> <p>No drawings will be needed, as maintenance will supply low voltage power to the light from the internal on/off switch of the saw.</p> <p>See attached pictures for example light on grinder and the needed light on the saw.</p>	<p>The saw machines has blades that are hard to see or hear when powered up which could possibly lead to injuries. This is a safety concern for the area and has been on our top five for some time. This light will mitigate chances for injury in the future</p>	Grounds	Tooling Area
14564	Upgrade Conversion Safety System Operating Software	Upgrade Conversion Siemens Safety System operating system to the latest revision of S7 Software.	The upgrade will add support for a new processor.	ISA-03 ADU Conversion	Control Room and PLC Room
14565	Upgrade Conversion Line 5 Safety PLC Firmware	Upgrade Line 5 Conversion Siemens Safety PLC to the latest revision of Firmware. Modify E-Stop relay power source by removing from output module on PLC to fuse.	Recomended firmware upgrade by vendor. Estop power is being rewired to improve reliability.	ISA-03 ADU Conversion	PLC Room in Conversion
14566	Intall Tool & Gauge Storage Room	Install modular office enclosure on mezzanine above tool and gauge room. This will replace the existing fenced area with climate controlled enclosure. Enclosure to have HVAC, lighting, and receptacles. Condensate drain from HVAC unit to be routed to discharge line of existing tool and gauge room air handler which ties into the storm sewer system.	Provide climate controlled storage expansion for tool and gauge to accomodate additional items from Windsor relocation.	Grounds	Mezzanine above QC Gage Room
14567	Upgrade Conversion Line 1 Safety PLC Firmware	Upgrade Line 1 Conversion Siemens Safety PLC to the latest revision of Firmware. Modify E-Stop relay power source by removing from output module on PLC to fuse.	Recomended firmware upgrade by vendor. Power supply to e-stop relays should not be powered by output of PLC.	ISA-03 ADU Conversion	PLC Room in Conversion
14570	Replace obsolete pH Transmitter and Probe replacement	Replace obsolete pH Transmitter and Probe	Existing unit is obsolete	ISA-01 Plant Ventilation System	Conversion Scrap Cage 1009 pH control
14571	Packing Area Inspection Pit Light Assembly Lifting Rig	<p>This is a rig, composed of commercial components, used to pull the inspection light assembly out of the inspection pit for maintenance. The unit is designed with a ball socket interface that fits only this light assembly and cannot be used for any other purpose. Further the light assembly is tethered to the pit structure, preventing the light from being lifted overhead.</p> <p>The light assembly at the bottom of the inspection pit, was designed to be removed using a lifting rig instead of the old method which required a confined entry process.</p>	This lifting rig is necessary for maintenance of the inspection pit light assembly in the packing area.	ISA-17 Final Assembly	Packing Area
14583	Change Valve and Actuator Manufacturer for Dirty Dissolver Nitric Acid and DI Water Feeds	Change Valve and Actuator Manufacturer for Dirty Dissolver Nitric Acid and DI Water Feeds. The valves to be modified are XV-750A, XV-750B, XV-750C, and XV-750D. The componets are to be converted to the following: Valve, Jamesbury 1/2" 7150 31-3600XTZ2; Actuator, Jamesbury VPVL 100 SR4/5; Linkage Kit, Jamesbury LK 1868; Selanoid, ASCOWT8551A001MS.	The current configuration is not robust enough for nitric acid service. The proposed valve/actuator configuration is on several automated valves associated with nitric acid service for the clean dissolver and the dirty dissolver centrifuge.	ISA-04 Safe Geometry Dissolver	Dirty Dissolver
14586	Replace Line 1 Condensate Level Probes	<p>Replace Line 1 High and High High Condensate Level Probes for Both Vaporizers. ADUVAP-906 and ADUVAP-907 will be affected by this change.</p> <p>Change ADUPCP-901 interlock to latching.</p> <p>Modify ADUHYD-913 (Maintenance Mode) to remove 30 requirement for steam valves being disabled. 30 minute requirement for pressure less that 2 PSI will remain. Steam valves must be disabled prior to enabling maintenance mode.</p>	<p>Existing probes made by DrexelBrooks are obsolete. Install new vibrating fork level probes to replace existing probes.</p> <p>Improve functionality of controls.</p>	ISA-03 ADU Conversion	UF6 Bay in Trench
14587	Line 5 Remove Electric Dryer Panel and Relocate Dryer Heater Controls	Line 5 Remove Electric Dryer Panel and Relocate Dryer Heater Controls.	Electric Dryer will not be used in the future and the cabinet adds to congestion in the area.	ISA-03 ADU Conversion	Line 5 under calciner platform

CCF No.	Title	Description	Justification	ISA ID	Location
14588	Dock 2 Crane Remote Controller Installation	Install a 6 button Magnatek Crane Remote controller system for the 3B P&H 7.5 ton Shipping & Receiving dock crane.	Crane currently have an appendage controller that hangs from the crane to the operator on the floor. Remote system is more convenient and less of a hassle; therefore workers will be able to move material etc. more efficiently.	Grounds	3B Crane
14589	Flowing Water Damping Test in VIPER Loop	A new test is being developed in the Product Engineering VIPER Loop that will utilize the existing VIPER Loop with a new flow housing design to measure the amount of vibration damping an assembly will undergo during a flowing water test.	A new test is being developed in the Product Engineering VIPER Loop that will utilize the existing VIPER Loop with a new flow housing design (218F01EQ42). The test is meant to measure the amount of vibration damping an assembly will undergo during a flowing water test. The flow housing is made to accommodate a single fuel assembly but with enough gap at the sides to allow the assembly to be deflected and released to measure the vibration decay during flow conditions.  The major changes include the flow housing design and mounted instrumentation. The pressure vessel will remain as designed except for a penetration machined into a blind flange at one of the cross flow nozzle flanges, to allow an actuator to "push" the assembly during the test. Additional instrument cabling and terminal box is required to be installed from the VIPER enclosure upper level down to under the VIPER control room floor. This electrical work request is being controlled by Larry Bielobockie. Note: None of the VIPER Loop PLC controls/wiring are being modified for this test and current SSCs remained unchanged/untouched.	ISA-18 Laboratories	Product Engineering Development Lab - VIPER Loop
14590	P-1160A Suction Piping Rearrangement	Modify the suction piping into P-1160A so that it feeds the pump vertically. (see attached ISO)	To allow for clearance for new motor for P-1160A. Older and smaller motor is obsolete, and new one is longer.	ISA-15 URRS Wastewater Treatment System	Outside URRS (Waterglass)
14591	Incinerator Room Fire Door Fused Link Connection Cable	Currently the two roll up fire doors located in the Incinerator Room are connected to the release mechanisms with sash chains. This CCF will allow these sash chains to be replaced using 3/32 inch aircraft cables. This work will be performed by a licensed fire door contractor. (Advanced Door) This alteration will not require any drawing changes.	The existing sash chains sometimes hang up when the roll up fire door mechanisms are released, thereby preventing the roll up doors from closing. By replacing these sash chains with aircraft cable, we eliminate this failure.	ISA-13 Low Level Radioactive Waste Processing	Incinerator Room
14592	Miscellaneous updates to COLUMN Software.	Description of changes: 1) Fix Date Range entry issue for Inventory Material Balance Report (Software Development Request SDR-0000382, TACE# N/A) 2) Fix format of data in XML format for foreign receipts and default NMMSS format NRC 741 report in View 741 option (SDR-0000419, TACE# IST-596) 3) Revise assign sample function to allow assignment of samples received from a different facility than the facility the corresponding UF6 cylinder was received from. (SDR-0000364, TACE# IST-543)	Revisions are necessary to assure proper function and accurate output and to allow for changes in delivery of UF6 from United States Enrichment Company (USEC) and storage of Westinghouse owned UF6 previously possessed by USEC (now stored at other supplier facilities) due to USEC going out of business.	ISA-03 ADU Conversion	Column Software
14593	Remove Rupture Disk-Spiking Station 2	This CCF would remove the rupture disk from spiking station 2. A blind flange would be installed with a low torque PVDF-bonded EPDM gasket.	The rupture disk is no longer an SSC and the rupture disk was installed with dual teflon gaskets which have created a leak point. The new gasket is a low torque gasket specifically designed for fiberglass applications.	ISA-03 ADU Conversion	HF Spiking
14594	Addition of recirculation line to the sanitary sump process stream	By adding a control pinch valve and a recirculation line to the sanitary sump process stream, we will be able to control the flow to the package plant. Some programming changes will also be needed to ensure constant flow is achieved.	This improvement will eliminate the current surging that takes place at the inlet to the package plant and instead create a steady state flow by controlling the recirculation at the sump with a control valve.	Grounds	URRS Outsid

CCF No.	Title	Description	Justification	ISA ID	Location
14597	Drum Storage Fire Protection	With this CCF, we will install fire protection in the Drum Storage Area.	Per Fire Hazard Analysis audit finding we must install fire protection in the Drum Storage Area.	ISA-13 Low Level Radioactive Waste Processing	Drum Storage Area
14598	Compressed air supply to Grid Build Stations #4 & #6.	Install compressed air lines to Grid Build Stations #4 and #6.	These compressed air lines are required for the pneumatic grid build plates.	Components	Grid Area
14599	Replace Line 5 High Temperature Pump Contactors for P511A/B and P531A/B/C/D	Replace Line 5 High Temperature Pump Contactors for P511A/B and P531A/B/C/D.	Existing contactors have a snap in auxiliary contact package which can become disconnected from the contactor. The auxiliary contact package when disconnected prevents reset of the pump after a trip and requires maintenance to correct the issue.	ISA-03 ADU Conversion	Line 5 by Scrubber pumps
14600	Adding stainless steel sheeting to the wall in ADU	We will add 16 gage stainless steel approximately 4' high to the wall between the large pass through window and the lift table where rods go out to rod weigh using RTV and anchors as needed. If there is any stainless sheet remaining it may be used on the other side of the pass through window. This is in the rod repair area in ADU rods. See attached photo of area.	IFBA's rod cart is scraping the wall and creating paint and cinder block FM.	ISA-10 ADU Rods	Rod Repair Area
14603	Lower cathode body repair - Feed thru helicoils	Add NOTE: If helicoils are damaged and unrepairable; install #10-32 S.S. Gardsert by milling 0.272 dia. hole X 0.300 deep and machine Gardsert to install.	Cathode body lower section not usable without this repair.	ISA-14 IFBA Processing	IFBA/FA1
14605	ERBIA GRINDER SERVO MODIFICATION	With this CCF, we will replace ERBIA's Grinder Line servo drive EN-208 to an EP-206. There are no SSC's associate with the Tray Loader.	The EN-208 is obsolete. The Epsilon series is there suggested replacement. Replacing this drive now will provide a spare part.	ISA-20 ERBIA	Erbia Grinder Line
14607	Car Lift Concrete Pad and Shed	Pour concrete pad and build a shed (17'deep X 14'wide X 13'high) per attached drawing. Locate in front of Carolina Lift & Hoist Shop.	Car lift is needed to provide safer lifting of vehicles to perform maintenance. Also, it will help contractor with quicker turn around on maintenance of vehicles.	Grounds	Tractor Shed
14608	Replace UF6 Control Valve Actuator on ADU Line 4	Replace UF6 temperature control valve actuator on ADU Line 4.	Existing actuator is obsolete.	ISA-03 ADU Conversion	By Vx02
14609	Gauge Substitution on RAMCO Strap Cleaning System	The current gauges, pneumatic and process liquid, are not of the proper range for the actual operating pressures. This CCF will allow for the substitution of 0-30 PSI gauges for the 0-100 PSI gauges. The new gauges will comply with ASME B40.100. Materials of construction will be chosen based on manufacturer's recommendations.  Photos of typical locations are attached.	The current gauge ranges make it difficult for operators and engineers to accurately read and record operating conditions.	Components	RAMCO Strap Cleaning System
14610	Install Press. transmitters on Chem. Cooling Twr.	Install Pressure transmitters on the Cold Well pumps discharge lines and a Pressure transmitter on the common discharge line downstream of the block valve.  Demoted to correct Description and Justification. Originally it was listed Hot well, Cold well is correct.  Demoted to correct drawing (C2); Transmitter requires 24vdc supply.	When swapping the Cold well pumps the pressure(s) needs to be monitored in the VFD room. This CCF will also allow us to install pressure indicators in the VFD room	Grounds	Chemical Cooling tower
14611	Modify Lighting on New Cognex Barcode Reader System	Due to a small interference the new lighting on the Cognex Barcode Reader system hits the rod being lifting on the end of the light bar. This CCF will modify the bracket and provide for installation of a larger light on the opposite side from this light to allow for better lighting.	The light cannot be adjusted at the proper angle without interfering with the rod. The barcode readers read but not with any better results than the old barcode readers.	ISA-10 ADU Rods	Rod Inspection Area Gamma Scanners



CCF No.	Title	Description	Justification	ISA ID	Location
14612	ERBIA Sinter #1 Modification	<p>With this CCF, we will:</p> <ul style="list-style-type: none"> <li>* upgrade all SCRs for heating Zones 1-3.</li> <li>* Install LOTO point for High Heat contactor</li> <li>* Demo Newport Tech controls</li> <li>* upgrade Honeywell Overtemp controllers</li> </ul> <p>Impacted SSCID: BAESNT-901</p>	<p>*Robicon SCRs are obsolete and are being replaced with Ametek. This is also being done all ADU Sintering Furnaces.</p> <p>*Installing a LOTO point for the High Heat is a safety add-on as well as it saves production from extended downtime when troubleshooting.</p> <p>*Ametek SCRs don't have the power option therefore Newport modules aren't needed</p> <p>*Old Honeywell controllers are obsolete, going with the new style like ADU Sintering Furnaces.</p>	ISA-08 Pelleting	ERBIA sintering #1
14613	Oven 3, alt. Vent Valve	<p>The current vent valve on Oven 3 is no longer available. Create a Westinghouse drawing for the Vacuum Manifold Assembly including the Bill of Material. Show JAMESBURY ç 9FB 3600 STB SEAT CWP 2000 PSI WSP 475 PSI 114 w/Actuator JAMESBURY VPVL051DABD, as an acceptable spare part for item 13.</p>	Obsolete part	ISA-12 IFBA Fuel Rod Manufacturing	IFBA/fa2
14614	Update Components in the Safe Geometry Dissolver Feeders	Update the motor speed control board, touch pad circuit board, and the key pad in the Safe Geometry Dissolver Feeders.	Minor electrical improvements have been made to these items. Integration and electrical connections will not change and will be in sync with what is the current associated electrical drawings. Alternate part numbers have been created due to supplier integration to SAP.	ISA-04 Safe Geometry Dissolver	SOLX
14616	Replacement of Obsolete Pressure Transmitters on MetLab Autoclaves 6, 7 and 8	Existing pressure transmitters on the MetLab Autoclaves are difficult to calibrate and are of obsolete technology	Replace with HART enabled Pressure transmitters with Local Displays and greater accuracy. Also will permit quicker and more effective calibration. Currently this replacement will only be for Autoclaves 6, 7 and 8.	ISA-18 Laboratories	Clean Side - Metalurgical Lab
14617	IFBA (ERBIA) Passive Gamma Scanner Door Modifications	Modify the existing Passive Gamma Scanner mesh screen to accommodate doors	The mesh needs to be replaced with doors so that operators can access the rods when a jam occurs. This change will allow operators access to the machine while applying machine safety to prevent machine movement while the door(s) are open.	ISA-12 IFBA Fuel Rod Manufacturing	Chemical Side - IFBA Dry Room Area
15001	Coater 5 MKS Replacement	With this CCF, we will Replace MKS 'Type 146' Controller with an up-to-date version MKS 'Series 946'. Consider improved communication between controller and PC. Both currently use RS232.	MKS Type 146 controllers are obsolete. MKS controllers are still considered the best for the vacuum ranges applied.	ISA-14 IFBA Processing	Coater 5
15002	Remove items from in and around fixture repair room	Remove the fixture repair table and welder and discard. Update the drawing to reflect that fixture storage no longer occurs outside of the fixture repair room. Remove poly pack rack from the drawing in the fixture repair room.	The fixture repair table and welder were used for the old screened laser cut fixture. Current rail fixtures cannot we repaired on that table. Update the drawing to reflect current conditions.	ISA-14 IFBA Processing	Fixture repair room
15003	Replace a section of ventilation duct on the Uranium Room Work Hood in the Chem Lab	This CCF is generated to allow replacement of the existing stainless steel ventilation duct on the work hood in the Uranium Room in the Chem Lab with PVC Super Duct (Harrison Plastics). The existing blast gate will also be replaced using a PVC butterfly valve. See attachment for HARRISON SUPERDUCT PVC physical properties.	The stainless steel duct is leaking at the weld joints on all fittings. PVC is a superior material of construction in terms of chemical compatibility with the acids used in this work hood.	ISA-01 Plant Ventilation System	Chem Lab
15004	URRS Oxidation Ovens and Hoods Upgrades	FC-704 Oxidation Oven/RH-704 Hood/FC-705 Oxidation Oven/RH-705 Hood will be replaced and new ventilation duct work will be connected to the new ovens/hoods. The FC-706 Oxidation Oven is no longer needed and will be removed. The RH-706 hood and drum roller pad will be moved 2 feet north. The FC-716 Dryer will be modified to be used as two ventilated shelves. The FP-703 filter press will be removed and non ventilated shelving installed at the FP-703 current location. A new Oxidation/Sludge Pan Storage Rack will be installed on the west side of the elevator on the platform level.	URRS Oxidation Ovens and Hoods have reached the end of their service life and need to be replaced. The FC-706 Oxidation Oven needs to be removed because it is out of service. The FC-716 Dryer will be modified to be used as two ventilated shelves for Centrifuge Bowls, a new Oxidation/Sludge Pan Storage Rack will be installed on the west side of the elevator on the platform level and the FP-703 filter press will be replaced with non ventilated shelves to enhance Operations production activities/safety.	ISA-19 Hoods and Containment	URRS Oxidation Ovens/Hoods

CCF No.	Title	Description	Justification	ISA ID	Location
15005	Add Fixed Ladder to Bead Blast Enclosure Room	Add a prefabricated fixed steel ladder for roof access to the Bead Blast Enclosure Room. Add tie-off beam clamp to bottom of truss for fall protection once on roof.	Provide routine access to roof for air conditioner maintenance	Grounds	Bead Blast Enclosure Room
15006	IFBA area cabinet relocation	Move existing cabinets that are beside the IFBA scrubber to the area behind the rod dump hood at the back of line 5. Remove existing rod dump lift arm mechanism. Discard desk currently located behind DC-801 Torit. Update arrangement drawings for the IFBA area (removal of stainless steel sump in the scrap area and polypak rack that are no longer there). Remove doors located between the coater 6 and 7 area and the line 5 area.	General reorganization of the IFBA area. The lift arm is not used in the old dump hood. The cabinets will open the rod transport area in the shop floor. Drawings updated to current area conditions. Doors are no longer used.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA area by coater 6 and 7 as well as line 5.
15007	Add breaker to EDP-1A	Add circuit breaker EDP-1A for calibration of Sub-Station Breakers.	Need to be able to calibrate Sub-Station Breakers	Grounds	Panel EDP-1A in Substation1 near Erbia Dock
15008	New Electrode Cutoff in Tube Prep area	A newly developed electrode cutoff will be added to the Tube prep area near line 8	Tube Prep has the ability to grind their own electrodes, this adds the ability to cut them off as well before grinding.	ISA-10 ADU Rods	Tube Prep near line 8
15010	Oven 3, Change "Traced Gas Cooling" flow	Change cooling water flow for "Traced gas Cooling". Traced gas cooling water flow goes through the isolation valve (XV-9657C) in series with external cooling loop and Recirculation fan. Remove XV-9657C as part of Traced gas cooling water flow and make independent loop for XV-9657C.	The flow through XV-9657C restricts the flow in the loop and causes numerous alarms & shut-downs.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA/FA2
15011	Remove Zirc Tube Roll Crusher	The zirc tube crusher has been tagged out of service and is no longer in use. I would like to remove this equipment from the area.	There is no plan to put the zirc tube crusher back in to service. We are currently looking into options to sell or recycle our zirc tubes.	ISA-13 Low Level Radioactive Waste Processing	URRS Inside
15012	Replace obsolete Refrigerant Monitor in Equip. Rm1	Replace obsolete Refrigerant Monitor in Equip. Rm1 Demoted due to drawing change (C2) for additional set point to eliminate nuisance alarms.	Existing unit is obsolete	Grounds	Equipment Room 1 Refrigeration Detector for Chillers
15013	Change material of construction for roller covers	Change the material of construction of the front and rear cover for the rollers on rod line 5 from virgin UHMW to stainless steel.	Current covers are degrading and pose a foreign material risk from chipping material.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA rod line 5 loading table
15014	Replace Controller on Ammonia Chiller #2	Replace existing Leaving Water Controller on Ammonia Chiller #2	Existing controller does not perform well. Unable to control temperature.	Grounds	Ammonia Chiller outside behind the DI Water Building
15015	15015 Safeguards	Address issue pertaining to physical protection	Required per 10 CFR 2.390	Grounds	Outside
15016	ERBIA Women's Change Room Supplement Heat	Install three 5 KW ceiling heaters in the ERBIA Women's Change Room. One in the common eating area, locker and changing area.	AC-9412 uses outside air and does not have pre-heaters. When it's below freezing, the duct heaters can't keep up with desired temperature of 72 degrees. Ceiling heaters will be use to supplement duct heaters to make area comfortable.	ISA-20 ERBIA	ERBIA Women's Change Room
15017	Replace V-1018 Convolution Couplings with Hard Piping	Replace the Teflon-lined convolution couplings to and from P-1018 for liquid scrap tank V-1018 with 304 or 304L SS hard piping per piping specification FSS-003-46.	There have been repeated failures of convolution couplings on the liquid scrap tanks.	ISA-11 Scrap Uranium Processing	V-1018
15018	Add Electrical Feed In Substation 9 For Breaker Calibration.	Add Electrical Feed In Substation 9 For Breaker Calibration.	During Plant Shut Downs (Power Outage), we need emergency power available for Sub-Station Breaker Calibrations. We will be feeding from Emergency Distribution Panel (EDP) H1-4. This is fed via Standby Generator 2	Grounds	Power Panel in Sub-Station 9; 2nd floor near Health Physics
15019	Replace Safety Shower 1-29 (UN-1) with and ENCON Electric Heated Unit	Replace Safety Shower 1-29 (UN-1) with an ENCON Electric Heated Unit	The current design is vulnerable to freezing in the winter.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Pad

CCF No.	Title	Description	Justification	ISA ID	Location
15020	AH1 V-2 Duct Section Modification	Reduce current 8" flex duct to 4" that provides comfort air in the Product Technical Manager office. Add/Install 4" flex duct and register to the office adjacent to the Product Technical Manager Office.	Product Technical Manager office was built around one of the 8" register and provides too much air flow inside office. Office beside it was built later and does not have any comfort air flow inside; therefore there have been complaints of being too hot or cold.	Grounds	'1st Floor Expansion Area
15021	AC01-07 Main Chill Water Supply/Return Valve Installation	Install 6" gate valve per FSS-003-01 on the main chill water supply and return from Chiller 2 in Equipment 1.	There is no way of isolating chill water lines from the Chiller to AC01-07 valves. Piping are deteriorated and requires the chillers to be shutdown to replace. If we install the isolation valves, we will be able to replace piping and local AH unit valves without affecting other areas.	Grounds	Equipment Room 1
15022	Install HEPA Filter on Pulsar Blast Unit	Install HEPA filter on Pulsar Peening Unit to capture glass bead material.	The current filtration on the peening unit is allowing a small amount of glass beads to become air born. Adding the HEPA filter will capture these escaping beads.	Components	Mechanical area Machine Shop
15023	Installation of Relief Valves on DI Water Vessels	The 6 vessels in the DI Water building do not currently have any relief valves installed. This introduces the hazard of vessel rupture as a result of over-pressurization so relief valves need to be installed on all 6 vessels.	Per ASME VIII, safety relief valves shall be installed either directly to pressure vessels or to connected piping provided there are not any valves capable of isolating the relief valve from the system. In order to maintain compliancy with this code, the relief valves need to be installed.	Grounds	DI Water Building
15024	Ramco Conductivity Alarms	Install two conductivity instruments to monitor and alarm on High Conductivity.	The existing process needs immediate feedback when high conductivity is present. The cleaning process for grid components requires clean rinse solutions. The conductivity monitors continually monitor the conductivity and will alarm when rinse water exceeds process parameters.	Components	Ramco Cleaning Stations
15025	Install O2 monitor in line 5 (dry room)	Install a Beacon 200 O2 monitor in the dry room. Installation will include tie in to the PLC, a visual indicator light outside of the dry room, and audible alarm inside the room (included with the Beacon 200 unit). The main unit will be mounted to the DRY ROOM PLC enclosure outside of the dry room next to the passive gamma scanner. Mount an 6x6x4 enclosure next to the HMI panel in the Dry Room as well as a stacked lamp / siren. Wire between the Beacon 200 alarm relay and the siren/lamp using existing conduit. Install 2 oxygen sensors in the dry room.	Greenbook 65903 was written to address the issue of line 5 being an enclosed room with various gases (nitrogen, helium and argon) supplies. If there were a large enough leak, enough oxygen may be displaced to cause an asphyxiating environment.	ISA-12 IFBA Fuel Rod Manufacturing	Rod line 5 dry room
15026	Installation of Eye Wash Station Filtration - QC Lab	This CCF will allow the installation of filtration upstream of eyewash stations in the mechanical, office, and lab areas. Installation of eyewash station filtration in the chemical area, other than lab areas, is not included in the scope of this CCF. - The filtration will serve to remove particulate due to scale in piping that may be harmful to users of eyewash stations. - The filters will be of a canister/cartridge type with replaceable cartridge filters. - The filter installations shall comply with ANSI Z358.1.	Piping systems that feed eyewash stations have rust and scale that may be harmful to users.	Grounds	Chem Lab - QC Lab
15027	Installation of Eye Wash Station Filtration-Waste Treatment Lab	This CCF will allow the installation of filtration upstream of eyewash stations in the mechanical, office, and lab areas. Installation of eyewash station filtration in the chemical area, other than lab areas, is not included in the scope of this CCF. - The filtration will serve to remove particulate due to scale in piping that may be harmful to users of eyewash stations. - The filters will be of a canister/cartridge type with replaceable cartridge filters. - The filter installations shall comply with ANSI Z358.1.	Piping systems that feed eyewash stations have rust and scale that may be harmful to users.	Grounds	Chem Lab - Waste Treatment Room

CCF No.	Title	Description	Justification	ISA ID	Location
15028	Installation of Eye Wash Station Filtration - Lines Room	<p>This CCF will allow the installation of filtration upstream of eyewash stations in the mechanical, office, and lab areas. Installation of eyewash station filtration in the chemical area, other than lab areas, is not included in the scope of this CCF.</p> <ul style="list-style-type: none"> <li>- The filtration will serve to remove particulate due to scale in piping that may be harmful to users of eyewash stations.</li> <li>- The filters will be of a canister/cartridge type with replaceable cartridge filters.</li> <li>- The filter installations shall comply with ANSI Z358.1.</li> </ul>	Piping systems that feed eyewash stations have rust and scale that may be harmful to users.	Grounds	Chem Lab - Lines Room
15029	Installation of Eye Wash Station Filtration - Uranium Room	<p>This CCF will allow the installation of filtration upstream of eyewash stations in the mechanical, office, and lab areas. Installation of eyewash station filtration in the chemical area, other than lab areas, is not included in the scope of this CCF.</p> <ul style="list-style-type: none"> <li>- The filtration will serve to remove particulate due to scale in piping that may be harmful to users of eyewash stations.</li> <li>- The filters will be of a canister/cartridge type with replaceable cartridge filters.</li> <li>- The filter installations shall comply with ANSI Z358.1.</li> </ul>	Piping systems that feed eyewash stations have rust and scale that may be harmful to users.	Grounds	Chem Lab - Uranium Room
15030	Installation of Eye Wash Station Filtration - Turret Prep Room	<p>This CCF will allow the installation of filtration upstream of eyewash stations in the mechanical, office, and lab areas. Installation of eyewash station filtration in the chemical area, other than lab areas, is not included in the scope of this CCF.</p> <ul style="list-style-type: none"> <li>- The filtration will serve to remove particulate due to scale in piping that may be harmful to users of eyewash stations.</li> <li>- The filters will be of a canister/cartridge type with replaceable cartridge filters.</li> <li>- The filter installations shall comply with ANSI Z358.1.</li> </ul>	Piping systems that feed eyewash stations have rust and scale that may be harmful to users.	Grounds	Chem Lab - Turret Prep Room
15031	Installation of Eye Wash Station Filtration - IFBA Chem Lab	<p>This CCF will allow the installation of filtration upstream of eyewash stations in the mechanical, office, and lab areas. Installation of eyewash station filtration in the chemical area, other than lab areas, is not included in the scope of this CCF.</p> <ul style="list-style-type: none"> <li>- The filtration will serve to remove particulate due to scale in piping that may be harmful to users of eyewash stations.</li> <li>- The filters will be of a canister/cartridge type with replaceable cartridge filters.</li> <li>- The filter installations shall comply with ANSI Z358.1.</li> </ul>	Piping systems that feed eyewash stations have rust and scale that may be harmful to users.	Grounds	Chem Lab - IFBA Chem Lab
15032	Installation of Eye Wash Station Filtration - Impurities Room	<p>This CCF will allow the installation of filtration upstream of eyewash stations in the mechanical, office, and lab areas. Installation of eyewash station filtration in the chemical area, other than lab areas, is not included in the scope of this CCF.</p> <ul style="list-style-type: none"> <li>- The filtration will serve to remove particulate due to scale in piping that may be harmful to users of eyewash stations.</li> <li>- The filters will be of a canister/cartridge type with replaceable cartridge filters.</li> <li>- The filter installations shall comply with ANSI Z358.1.</li> </ul>	Piping systems that feed eyewash stations have rust and scale that may be harmful to users.	Grounds	Chem Lab - Impurities Room

CCF No.	Title	Description	Justification	ISA ID	Location
15033	Installation of Eye Wash Station Filtration - Erbia Lab	This CCF will allow the installation of filtration upstream of eyewash stations in the mechanical, office, and lab areas. Installation of eyewash station filtration in the chemical area, other than lab areas, is not included in the scope of this CCF. - The filtration will serve to remove particulate due to scale in piping that may be harmful to users of eyewash stations. - The filters will be of a canister/cartridge type with replaceable cartridge filters. - The filter installations shall comply with ANSI Z358.1.	Piping systems that feed eyewash stations have rust and scale that may be harmful to users.	Grounds	Chem Lab - Erbia Lab
15034	Add Limit Switches on Fall Protection at UF6 Cylinder Storage Pool	Add Limit Switches on Fall Protection at UF6 Cylinder Storage Pool.	Existing pneumatic switches are unreliable.	ISA-03 ADU Conversion	Fall Protection at UF6 Storage Pool
15035	Replace Obsolete G1 Crane Radio in Packing Area	Replace the obsolete model currently used on the G1 crane with the latest version.	The crane radio for the G1 crane in packing is obsolete. A replacement is available similar to one already existing in the packing area. The G1 crane radio will be replaced with the current model. There are no changes needed to the electrical drawing. The new crane radio will use the existing connections.	ISA-17 Final Assembly	Packing Bay
15036	Add Drain To Cooling Water Line	There is currently not a drain line in the cooling water piping at the V205 column. This CCF would add one.	There is not a drain line.	ISA-03 ADU Conversion	Line 2 precipitator
15037	IFBA Oven 1, Remove rear door shutter	Remove shutter from rear door. Shutters on both the front and rear doors block a ten inch hole in the heat shield to retain heat in the heat cage during soak 1 and soak 2. The shutters are moved away from the ten inch hole during the cooling cycle by an external actuator and the position is confirmed by a proximity switch. A fan then circulates the gases in the oven through the heat cage then around the cold wall oven (outside the heat cage) and back through the heat cage. (Same as CCF14416 for Oven 2)	The shutter on the rear door does not trap heat in the heat cage or protect a fan motor. The shaft penetration to open/close the shutter is a leak source.	ISA-14 IFBA Processing	IFBA/FA2
15038	Install support for Line 5 Calciner N2 purge piping and replace three spring open valves	A support will be installed under piping connected to the flow orifice for the Line 5 Calciner N2 purge and three spring open valves will be replaced to allow Maintenance activities on nitrogen purge lines.	The piping to the flow orifice for the Line 5 Calciner N2 purge moves down when the orifice flange bolts are disconnected. Support for this piping is needed to prevent equipment damage and possible injury to workers if the orifice bolts are disconnected to change out the orifice.  Two current spring open valves on the Line 5 Scrubber nitrogen line and one spring open valve on the Line 5 Calciner nitrogen line will be replaced with different spring open valves that will enable lock out in the closed position for maintenance activities.	ISA-03 ADU Conversion	Line 5 Calciner/Scrubber
15039	ADU Sintering Furnace Exit Pusher Cover	Redesign ADU Sintering Furnace Exit Pusher Cover to have removable top panels.  Notes: No drawing previously existed on the Exit Cover in Matrix. This style cover will be installed on the ADU furnaces as needed.	To access the Exit Pusher components requiring weekly lubrication, the removal of the entire Pusher Cover is necessary. The existing Cover is large, cumbersome and difficult to remove/replace. The new Cover will allow access to the Pusher components thru the removable top panels. Therefore, the need to handle/position the entire Cover will be abated.	ISA-08 Pelleting	ADU Pelleting \ Sintering Furnaces
15041	Relocate "Buckets" in MCC-1150	Relocate Filtrate Transfer Pump P-1166B from location 1J to location 3B. This will allow us to move Filter F-1165A in 1M up on the Buss in location 1J.	Location 1M has a bad Buss (burned spot). Repair is difficult. We will be relocating the "bucket" which will allow us to move the existing bucket 1M up to a good section of Buss	ISA-15 URRS Wastewater Treatment System	MCC-1150 inside Waterglass Control Room

CCF No.	Title	Description	Justification	ISA ID	Location
15042	Temporary installation/removal of plastic sheet on ADU rod lines.	After all rods have been removed from the lines. Install fire retardant plastic sheeting over ADU rod lines 1-4, or any subset thereof, to complete work overhead. Remove plastic once all overhead work is complete.	Required by CSE-99-G	ISA-10 ADU Rods	ADU Rod Area
15044	Replacement of obsolete pressure relief valve (PSV 750 C) on CCC-750	The current pressure relief valve on the hot water supply for CCC-750 dissolver failed. This model (1996C-1-DA-LS) is now obsolete. The model number for the new pressure relief valve that was specified by a vendor is 19226LCO-1-CC-DL-31-05-05-LA. Both include a Viton 50 o-ring. Both have a set point of 23 PSI for relief. Both are 1" inlet and 1.5" outlet. The old model had a capacity of 30 gpm, while the new model is rated at 29 gpm. Slight pipe modifications may be necessary to accommodate the new pressure relief valve.	We need a new pressure relief valve put in to resume operation since the old valve is obsolete.	ISA-04 Safe Geometry Dissolver	URRS SOLX
15045	Update part number for movement cylinder	Update part number for the movement cylinder item 46 to P1AL-24A1J-EAA2.	Number listed on the drawing currently does not match what operates in the field. The number on the drawing does not go back to the original manufacturer part number. The update will reflect both what is on the line and still manufactured.	ISA-12 IFBA Fuel Rod Manufacturing	Rod line 5
15046	CL5 Air Line to Filter Presses	Extend an existing plant air line to the CL5 filter presses FP-531A and B. At FP-531A install a regulator/filter/lubricator for the plant air supply. The manufacturer's instruction sheet for the regulator/filter/lubricator is attached.	These modifications are needed in preparation for installing a new hydraulic pump system for FP-531A per a separate CCF.	ISA-03 ADU Conversion	CL5
15047	Granulator Rotor Drive Shaft/Flange Spline Design Change	Change Granulator rotor drive shaft/flange spline design as shown on the For Construction drawings.	Ease of manufacturing.	ISA-08 Pelleting	ADU Pelleting \ Granulator
15048	Line 3 Granulator Polypak Weigh Station Sensor Replacement.	Replace 361F03EQ15, Item 32 Sensors with Item 40 & 41 Sensors/Cables. This is similar to change made to the Line 1 Granulator Polypak Weigh Station sensors per CCF 09875.	Current sensor is obsolete.	ISA-08 Pelleting	ADU Pelleting \ Line 3 Granulation
15049	Installation of Permanent Shelving Units in the Chem Lab	The intent of this project is to replace existing cabinets and shelving in the Chem Lab Hallway, as well as the need for temporary shelving during SNM inventory. The new, permanent, fixed shelf units measure: 32" wide, 18" deep and 72" tall. The space between each of the 5 shelves is 15".	The new shelves will be installed to replace the temporary shelves that are used during the plant's SNM inventory. The temporary shelves make the hallway narrower and have moveable shelves that have the potential to cause SSC violations.	ISA-18 Laboratories	Chem Lab Main Hallway
15051	Auto Spot Welder Controls Upgrades	The scope of this Capital project is to upgrade the Automatic Spot Welder with a new Allen-Bradley PLC Control System, stepper drive controller, motor encoders, HMI, and industrial safety controls.	As part of the WETCANS Program, the existing Resistance (Spot) Welder from the Westinghouse Windsor Plant was relocated to CFFF and put into commercial operation in late July, 2014. The Resistance Welder is a critical piece of equipment for making Vasteras Grids. Since being commissioned, the Resistance Welder has had three (3) failures. The existing Resistance Welder controls are obsolete, difficult to get replacement parts, and support is very limited.	Components	CE Grid Area
15052	Optional use of lower doghouse shields	Optional use of the two lower doghouse (upper cathode support) shields. See drawing 802F13EQ10 items 71 and 72. (Drawing 802F13EQ10 is specific to coater 8 but is used to reference other coaters doghouse shield. This CCF is for all Coaters to discontinue use of the two lower shields.)	These two shields cause more grief than benefit. The shields fall and get caught between the drum & upper cathodes. Little to no coating of doghouse with shield not in use.	ISA-14 IFBA Processing	IFBA/FA1
15053	Fixture Storage Rm, rearrange and add cabinets	Reposition three of the "B" cabinets, purchase and install two new "A" cabinets to match south wall.	Additional fixture storage is needed for rail fixtures.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA, FA1

CCF No.	Title	Description	Justification	ISA ID	Location
15054	Install humidity test chamber in IFBA chem lab	Install humidity chamber on the counter top in the IFBA chemical lab. Installation will include placing the chamber, attaching DI water to the control unit, and attaching a nitrogen line to the control unit. The control unit is powered using a standard 110V electrical outlet. The connections to the lab headers already exist in the lab.	The humidity chamber will be used to study the absorption rate of moisture into the boron coating on IFBA pellets.	ISA-14 IFBA Processing	IFBA chemical lab
15055	Line 2 Granulator Polypak Weigh Station Sensor Replacement.	Replace 361F03EQ15, Item 32 Sensors with Item 40 & 41 Sensors/Cables. This is similar to change made to the Line 1 & 3 Granulator Polypak Weigh Station sensors per CCF 09875 & 15048, respectively.	Current sensor is obsolete.	ISA-08 Pelleting	ADU Pelleting \ Line 2 Granulation
15056	Line 4 Granulator Polypak Weigh Station Sensor Replacement.	Replace 361F03EQ15, Item 32 Sensors with Item 40 & 41 Sensors/Cables. This is similar to change made to the Line 1, 3, 2 & 5 Granulator Polypak Weigh Station sensors per CCF 09875, 15048, 15055, & 15057, respectively.	Current sensor is obsolete.	ISA-08 Pelleting	ADU Pelleting \ Line 4 Granulation
15057	Line 5 Granulator Polypak Weigh Station Sensor Replacement.	Replace 361F03EQ15, Item 32 Sensors with Item 40 & 41 Sensors/Cables. This is similar to change made to the Line 1, 3 & 2 Granulator Polypak Weigh Station sensors per CCF 09875, 15048 & 15055, respectively.	Current sensor is obsolete.	ISA-08 Pelleting	ADU Pelleting \ Line 5 Granulation.
15058	Replace Met Lab Hood #1	Replace the Met Lab Hood #1 with a like kind replacement of similar construction. The new hood will be connected to the existing ventilation, water, and drain services the current hood is connected to.	The current hood has deteriorated and is beyond repair.	ISA-18 Laboratories	Met Lab
15059	Replace Met Lab Hood #2	Replace the Met Lab Hood #2 with a like kind replacement of similar construction. The new hood will be connected to the existing ventilation, water, and drain services the current hood is connected to.	The current hood has deteriorated and is beyond repair.	ISA-18 Laboratories	Met Lab
15060	Replace Pellet Sample Lab Hood	Replace the Pellet Sample Lab Hood located in the Met Lab with a like kind replacement of similar construction. The new hood will be connected to the existing ventilation, water, and drain services the current hood is connected to.	The current hood has deteriorated and is beyond repair.	ISA-18 Laboratories	Met Lab
15061	ADURL#4 TRANSFER MOTION FIX	A slider system will be added to the additional (AP1000) arm of the transfer system that will allow the pickup and set down position of the arm to be adjusted independently.	The motion of the transfer of rods from the vibratory table to the walking beam has an issue where the new addition (AP1000) transfer arm's motion does not match the original equipment's motion. This can cause the rods to become somewhat entangled and therefore possibly damaged. This fix will substantially lessen, if not eliminate the possibility of damaging the rods.	ISA-10 ADU Rods	CFFF, Chemical, ADU Rod Line 4
15062	Stack Sample Station on S-1190	Install a permanent air sampling station in the exhaust stack of Scrubber S-1190. A standalone vacuum pump will be housed in an enclosure on the Scrubber platform. A 20 amp branch circuit will be added as the power source. A 24 inch isokinetic probe will be mounted in the exhaust duct and positioned 180 degrees from top dead center.	This station is required to conduct an engineering evaluation.	ISA-01 Plant Ventilation System	Scrubber S-1190 / Outside URRS
15064	ADU Grinder Line 1 Pellet Conveyor Bracket Redesign	Modify the 361F08EQ37, Item 06 Fiber Bracket Base as per the For Construction drawing. Allow the use of a cotter pin in lieu of the 361F08EQ37, It. 08 pin as per Note E on the For Construction drawing.	The base modifications will allow the fiber optic sensor to be lowered and ensure sensing of a pellet. The cotter pin will allow easy removal of the Bracket Ass'y.	ISA-08 Pelleting	ADU Pelleting \ Line 1 Grinder Pellet Conveyor
15065	Install Ventilation Vacuum Breaks Into Conversion Line 1's Vaporizers	This CCF would install a vacuum break inside the vaporizer vent tent's ventilation hose to prevent the hose from becoming vapor-locked and subsequently dropping contaminated condensate onto the top of the UF6 Cylinder.	Prevent the spread of contamination on the UF6 cylinder and also provides ventilation in the top of the vent tent.	ISA-03 ADU Conversion	Conversion Line 1 Vaporizers

CCF No.	Title	Description	Justification	ISA ID	Location
15066	Relocate V-1487 Nitric Acid Vent Line	Relocate V-1487 nitric acid vent line. The vent will be relocated to the other side of the incinerator door. It will have no completely horizontal pipe runs that would allow trapping of moisture.	The current vent is located directly over the transfer pump P-1487. Maintenance is uncomfortable working directly underneath a passive overflow to the 67% nitric acid tank. The vent is to be relocated to an area that is not in a location routinely occupied by maintenance or operations.	ISA-07 Solvent Extraction	SOLX
15067	Install breaker in PP-12E	Install 225A, 480V breaker in PP-12E in preparation for feeding power to Grid Laser Welder A and associated equipment.	The new laser welder and associated equipment will require power that is not readily available in the existing grid area. Installing a new breaker in PP-12E will meet the new equipment power requirements.	Grounds	Grid Area
15068	Storeroom Part Substitution; BlueM vibrator	The part number for Storeroom item #185022 has been changed from the manufacturer. The original number was BE-220-2 the new number is KEE-1-2.	The Manufacturer changed their part number to reflect the motor not being manufactured in house. This is not a change, the motor was previously sourced externally. The device is the same, only the part number has changed.	ISA-19 Hoods and Containment	Blue M oven Sifter in the Scrap Cage in ADU
15069	ADU Thru Wall Gravity Conveyor Replacement	The ADU through wall gravity conveyors are located in the Rod Manufacturing Area outside the wall where rod trays transfer through the wall. The conveyors contain painted mild steel frames and one of the sections is too short. The short section tends to allow longer rods to drop and come in contact with the painted frames presenting an opportunity for rod damage and paint chips to transfer to fuel rods. The new conveyors will eliminate the contact with the conveyors and the stainless steel frames will eliminate the possibility of chips on the rods.  During implementation, carbon steel sections and stainless steel sections of the window conveyors are acceptable for production.	The area the conveyors are located in is a FME area. The new conveyors will reduce the likelihood of rod surface damage and contamination by paint chips.	ISA-10 ADU Rods	ADU Rods Transfer Window
15070	New Cognex Barcode Readers On IFBA Line 5	This project will replace the existing barcode readers on IFBA Line 5 with new qualified barcode readers, hardware and components that have recently been installed in multiple locations throughout the plant. This project will install four (4) complete barcode reading stations on each station on the line.  New mounting and support, lighting, cameras, and electrical hardware will be installed to complete this job. The existing cell interface will have no configuration changes.	The IFBA Line 5 Barcode Readers are obsolete and require significant maintenance and engineering support. The manufacturer of the existing cameras have gone out of business and spare similar parts are no longer available.  The new readers are well supported and have demonstrated an operator Free read rate of 99.4% or better.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA Dry Room
15071	ADU Drag Chain Conveyor Cover Replacement	Replace the painted carbon steel side covers on the ADU Drag Chain Conveyor with non-painted Stainless Steel covers panels. Existing painted carbon steel are acceptable until replaced by stainless steel. Panels will be replaced a section at a time until complete.  There are no drawings showing the side cover panels.	Conveyor is located in an FME area where there is low tolerance for foreign material exposure such as painted surfaces. Replacing the covers reduces the likelihood of FME contamination.	ISA-10 ADU Rods	ADU Rod Lines
15072	Installation of Relief Valves on B-Train DI Water Tanks	The 6 tanks in the DI Water Building do not currently have any relief valves installed. This introduces the hazard of tank rupture as a result of over-pressurization so relief valves need to be installed. CCF 15023 has been initiated to install the relief valves on the A-train tanks. This CCF will be utilized to install the relief valves on the B-train tanks.	Per ASME VIII, safety relief valves shall be installed either directly to pressure vessels or to connected piping provided there are not any valves capable of isolating the relief valve from the system. In order to maintain compliancy with this code, the relief valves need to be installed on the B-train tanks.	Grounds	DI Water Building
15073	Remove PC-205 and stand	Remove PC-205 from the area behind the dry room. The printer will remain in the area, but will not appear on the drawing.	PC-205 is longer used. All transactions are done at the overcheck computer on the end of line 5.	ISA-12 IFBA Fuel Rod Manufacturing	West wall of area behind line 5



CCF No.	Title	Description	Justification	ISA ID	Location
15074	Line 1 Powder Prep 3rd Level Hoist Modification Preparation.	<p>Ref. applicable parts of CCF 11093, 11251 &amp; 13184 for similar Line 2 Powder Prep 3rd Level Hoist Modifications.</p> <p>1. As per the 321F01DE01 and 321F01AR07 drawings: re-route the Line 1 dust collector ductwork to the roll hood, powder lift, add-back hood and ribbon blender hood; re-route air sampler lines; re-route electrical conduit; demo 2" out of service vacuum line; move existing lighting and remove out of service lighting. Note: Re-routing of ductwork has no effect on ventilation system - see attached Pellet Line 1 ? Ductwork Pressure Drop.pdf file from Cubex.</p> <p>2. Re-route 2" PVC vacuum line near the boat loader.</p> <p>3. Remove unused section of hand-rail from 3rd level platform. The level probe transmitter, currently attached to the hand rail, will be re-located to the north side of the Powder Lift as done on Line 2. The Roll Compactor drive control will be relocated to the hand rail post east of the current location.</p> <p>Note that due to Matrix issues, a CCR could not be created. Therefore, the original CCF was demoted and the content/ red line drawings that were to be in the CCR are provided as follows:</p> <p>Changes to original Description:</p> <p>Ref. red line drawings attached to this CCF.</p> <p>A. Cut section of north, 3rd level fence to be level with the top of the hand rail. B. Some lighting demo / moves will not be done. C. PS 2 duct support design will be modified and relocated to the east west duct.</p>	<p>1. This is preparatory work for modifying the ADU Pelleting, Line 2 Powder Prep 3rd Level Hoist to resolve safety issues with replacing the powder lift drive and other third level components. These changes are required for clearance of the new(future) hoist boom swing.</p> <p>2. Changes required for clearance for new load area.</p> <p>3. The unused hand rail section appears to be a remnant from when access to the third level was configured differently. Currently, this section of hand rail serves no purpose. Removing the hand rail and relocating the level probe transmitter and Roll Compactor drive control will provide better Maintenance access to the back side of the Roll Compactor.</p> <p>Justification for changes to the original Description:</p> <p>A. Section of fence removed to provide clearance for the jib crane boom swing. Note that this change was originally shown on the 321F01AR07, Sht 03, Rev. C2 drawing, but was not going to be implemented due to projected time constraints. However, the mechanical work schedule improved enough to allow time to implement the fence modification.</p> <p>B. Time constraints related to the electrical work prevent completion of all proposed lighting demo /moves. C. Duct support changes provide ease of installation.</p>	ISA-08 Pelleting	ADU Pelleting \ Line 1 3rd Level Hoist
15075	R53 Press Dolly Modification	Modify the Dolly for transporting a R53 Press to and from the offline rebuild area per the For Construction drawings. Note P.E. stamped drawings / calculations are attached to this CCF for reference.	Reduce Dolly footprint for ease of use.	Miscellaneous	Maintenance Rebuild Shop
15076	LCV-1180 Replacement	Replace old Grinnell LCV-1180 with new 1" Fisher EZ control valve.	Old valve is obsolete.	Grounds	URRS/Still 2
15077	Replace PDT-1082 with Rosemount 3051C Coplanar Pressure Transmitter	Replace PDT-1082 with Rosemount 3051C Coplanar Pressure Transmitter. The new model number will be 3051C D1A22A2AB4M5.	The current transmitter is of similar technology, but is not common to other instrumentation in SOLX. It is leaking UN and is obsolete. This service is near identical to PDT-1081 which is functioning well with the Rosemount 3051C Coplanar Pressure Transmitter. The wiring diagram for the new transmitter has no modifications.	ISA-07 Solvent Extraction	SOLX
15078	PE Lab Mezzanine / Landing Modification	Provide a safer access to and from the VISTA Loop mezzanine by removing the cross flow manifold and adding a grating to the platform.	Safety improvement	ISA-18 Laboratories	VISTA Loop Mezzanine
15079	Re-locate Steam Pressure Transmitter On C101A	Re-locate the steam pressure transmitter below the inlet piping to the vaporizer.	The pressure transmitter is currently located above the inlet piping. When the steam cools and collapses the pressure transmitter reads slightly negative causing a false out of range condition and prevents the interlock from being reset. This CCF will re-locate this transmitter to prevent this issue.	ISA-03 ADU Conversion	C101A Vaporizer
15080	Re-locate Steam Pressure Transmitter On C101B	Re-locate the steam pressure transmitter below the inlet piping to the vaporizer.	The pressure transmitter is currently located above the inlet piping. When the steam cools and collapses the pressure transmitter reads slightly negative causing a false out of range condition and prevents the interlock from being reset. This CCF will re-locate this transmitter to prevent this issue.	ISA-03 ADU Conversion	C101B Vaporizer

CCF No.	Title	Description	Justification	ISA ID	Location
15081	Replace Blind Flange "T" With Spool	This CCF would remove the "T" which has a blind flange and replace it with a spool piece.	Remove potential leak point from UN line.	ISA-03 ADU Conversion	V506 Column
15083	Conversion Line 3 Decanter Platform Structural Improvements	Add braces to the Line 3 Decanter Platform as shown on the attached drawing.	Extra support is needed to reduce vibration.	ISA-03 ADU Conversion	Decanter Platform Line 3
15084	Line 1 Pellet Grinder Exit Conveyor Modifications	Make small changes to the pellet grinder exit conveyor wet section to improve maintenance and function. The changes do not change pellet flow, airborne, or uranium buildup in the equipment. Changes are made to the following parts on drawing 361F08EQ37 for the wet section conveyor: Item 01 Support Plate, redesign plate for gib mounting of item 28 and to match new mounting block, item 02 Item 02 Mounting Block, redesign to allow for better access to mounting screws. Item 28 Transition Support Block, add slots for gib mounting Item 38 Belt Cover, modify to clear gib mounting screws Item 41 Gib, new part	Improve maintenance and function	ISA-08 Pelleting	Pellet grinding area
15085	Lifting Device for the UF6 Bay	This CCF is to bring a new lifting device into the URRS bay to assist operations in removing heavy materials. Cart to be modified by Greg's to remove current lip and add 8" high rails on 3 of the 4 sides.	Device is needed for lifting heavy items at dock 4 into hoppers. Safety concern for operators. Modification is necessary to allow the metal to flow off of the dump cart. Rails added for safety.	ISA-13 Low Level Radioactive Waste Processing	URRS
15086	Solenoid Substitution Procedure Change	MCP-202174 section 22.0 Solenoid Valve Substitution Procedure Change/Clarification.	Substitution Procedure section 22.0 was originally written to allow substitution of electrically operated solenoid used to do work via compressed air (Plant air, Instrument air). The majority of the applications will be the manipulation of Air Operated valves. This CCF will clarify that "Air" cylinders and Air operated clamps/chucks are also included; unless they are Safety Significant in which case the substitution is prohibited.  See attached proposed change. <u>Original CCF was 14402</u>	Components	Storeroom Parts
15087	Modification of fork pocket welds on rod storage channels	The welds on the fork pockets was changed to try to minimize the heat that is introduced to the channel and eliminate the bump that is produced in the channel at the welds.  (Demoted to add welding notes to drawing)	The bump could scratch the rods as they are being slid into and out of channels.	ISA-17 Final Assembly	Rod Storage
15089	Main Switchgear Annex Electrical Services	Install electrical services for Main Switch Gear Annex for building power and 48 VDC service.	The existing 48-VDC power to critical switch gear monitoring equipment is unreliable and outdated. The new 48 VDC equipment will be fed with Normal, Emergency and UPS power.	Grounds	Main Switchgear
15090	CE Bundle Pusher Stainless Steel Pads	Modify the CE bundle pusher pre-load table to add stainless steel pads to cover painted surfaces.	Painted surfaces are a potential source of foreign material. This will prevent introduction of FM into a fuel assembly.	ISA-17 Final Assembly	Final Assembly CE Bundle Pusher
15091	Main Switch Gear Annex Fire Alarm	Install fire alarm speaker and smoke detector in Main Switch Gear Annex and install a speaker in the Main Switch Gear building	Smoke detectors and speakers are required to protect equipment and personnel.	Grounds	Main Switch Gear Annex and Main Switch Gear building
15092	Fixture Unload Table, Remove fixture flipper & blocks	Remove fixture flipping device and support blocks from back side of flipper. Cut & remove top shelf from above flipping device.	Screened fixtures are no longer in use and rail fixtures do not need to be flipped.	ISA-14 IFBA Processing	IFBA/FA1

CCF No.	Title	Description	Justification	ISA ID	Location
15093	Replace Dryer Bearing Grease on Conversion Line 4	The Line 4 Hot Oil Dryer in Conversion recently experienced 3 bearing failures in one month. Analysis of the bearings revealed a quality issue with the grease being used. The vendor is unable to guarantee further issues will not occur in the future so this CCF is being developed to change the type of lubrication to the same grease that is used on the decanter bearings in Conversion.	The lubrication for the hot oil dryer bearings, Alithicon, was found to be of poor quality. The thickener separated from the base oils and soaps, causing the bearings to overheat and fail. The vendor does not batch control their product and is unable to guarantee that this issue will not occur in the future. The proposed solution is to change the type of grease to the Mobilgrease XHP 222. This grease is already used to lubricate the decanter bearings in Conversion and is rated for the high temperatures that the dryer bearings operate at.	ISA-03 ADU Conversion	Conversion Line 4
15095	Conversion Line 3 Decanter Frame Replacement	A new decanter frame with increased mass, corrosion resistance and improved design will be installed on CL3 to replace the existing frame. The frame base plate will also be replaced if necessary. In addition to the drawings linked in DAP, also see the approved frame drawing 365F01EQ38	The old frame is carbon steel and had a lot of corrosion. The new frame is made of stainless and is much more robust. The new frame will reduce vibration and allow the decanter to be operated at higher speeds.	ISA-03 ADU Conversion	Conversion Line 3 Decanter
15096	Remove Rupture Disc and Dump Mechanism on T-1045	Remove Rupture Disc and Dump Mechanism on T-1045. Place a blind flange over the port in its place.	As a result of the NCSIP2 project the rupture discs are no longer required on the UN Bulk Storage Tanks. As of October 2014 they are no longer credited in the Criticality Safety basis or as defense in depth in the ISA. They provide a severe industrial safety hazard for no necessary gain in Criticality Safety. While performing the PM in the past they have been identified as being close to failure.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage Pad
15097	Change the Controller in 3ATS6	Automatic Transfer Switch (3ATS6) was obsolete and recently replaced with a new unit that was purchased a year ago. It has the ATC-800 controller, but this controller did not have all of the features on it that was and is currently desired to be the Plant Standard. The ATC-900 recently was introduced and it does have the features we want to have on all of the Automatic Transfer Switches.  Testing will be performed per the ITR.	The controller in Automatic Transfer Switch (ATS) 3ATS6 has the Eaton ATC-800 controller. We want to develop a standard ATS for the plant, but the ATC-800 does not have all of the features we would like to have. The ATC-900 does have the desired features that we need for this plant.	Grounds	Equipment Room #3, above Maintenance
15098	Supplemental Light For MetLab/DevLab Entrance	With this CCF we will install a LED wall-pack light on the exterior wall over the entrance door to the MetLab / Development Lab.  no ssc's will be affected	* continuous improvement * this area is considered dark and needs additional lighting	ISA-18 Laboratories	exterior wall over the entrance door to the MetLab / Development Lab.
15099	Coater 4 MKS Replacement	With this CCF, we will Replace MKS 'Type 146' Controller with an up-to-date version MKS 'Series 946'. Consider improved communication between controller and PC. Both currently use RS232.	MKS Type 146 controllers are obsolete. MKS controllers are still considered the best for the vacuum ranges applied.	ISA-14 IFBA Processing	Coater 4
15100	Remove Rupture Disc and Dump Mechanism on T-1039	Remove Rupture Disc and Dump Mechanism on T-1039. Place a blind flange over the port in its place.	As a result of the NCSIP2 project the rupture discs are no longer required on the UN Bulk Storage Tanks. As of October 2014 they are no longer credited in the Criticality Safety basis or as defense in depth in the ISA. They provide a severe industrial safety hazard for no necessary gain in Criticality Safety. While performing the PM in the past they have been identified as being close to failure.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage

CCF No.	Title	Description	Justification	ISA ID	Location
15102	Remove Rupture Disc and Dump Mechanism on T-1041	Remove Rupture Disc and Dump Mechanism on T-1041. Place a blind flange over the port in its place.	As a result of the NCSIP2 project the rupture discs are no longer required on the UN Bulk Storage Tanks. As of October 2014 they are no longer credited in the Criticality Safety basis or as defense in depth in the ISA. They provide a severe industrial safety hazard for no necessary gain in Criticality Safety. While performing the PM in the past they have been identified as being close to failure.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Tanks
15103	Remove Rupture Disc and Dump Mechanism on T-1042	Remove Rupture Disc and Dump Mechanism on T-1042. Place a blind flange over the port in its place.	As a result of the NCSIP2 project the rupture discs are no longer required on the UN Bulk Storage Tanks. As of October 2014 they are no longer credited in the Criticality Safety basis or as defense in depth in the ISA. They provide a severe industrial safety hazard for no necessary gain in Criticality Safety. While performing the PM in the past they have been identified as being close to failure.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage
15104	Remove Rupture Disc and Dump Mechanism on T-1043	Remove Rupture Disc and Dump Mechanism on T-1043. Place a blind flange over the port in its place.	As a result of the NCSIP2 project the rupture discs are no longer required on the UN Bulk Storage Tanks. As of October 2014 they are no longer credited in the Criticality Safety basis or as defense in depth in the ISA. They provide a severe industrial safety hazard for no necessary gain in Criticality Safety. While performing the PM in the past they have been identified as being close to failure.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage
15105	Hazardous waste area lighting	Install LED lights in the Hazardous waste area	In the late afternoon the hazardous waste area is difficult to see. Lights will improve the safety of the operation.	Grounds	Hazardous waste storage area
15107	ADU Line 5 Nitrogen Purge System Modifications	Per conversion request change Nitrogen purge orifice to reduce flowrate, and adjust purge time accordingly.	Reduced flowrate will address concern of powder carry-over to the scrubber. The flowrate and related purge time of Line 5 will be changed to be similar to those of Line 2.	ISA-03 ADU Conversion	Line 5 Calciner
15108	ADU Line 2 Nitrogen Purge System Modification	Adjust the Line 2 Calciner nitrogen purge time to match that of the Line 5 Calciner. A new tool has been designed for testing of interlock ADUCAL-406.	Adjust nitrogen purge time to improve alignment of conversion line operational parameters.	ISA-03 ADU Conversion	ADU Line 2 Calciner System
15109	Modify Maintenance Mode on Line 4 SPLC	Change operation of Line 4 Maintenance mode from having to have steam valves disabled for 30 minutes to having to have steam off for 30 minutes and steam valves disabled. Rewire Estop circuit to feed directly from power feed instead of from a PLC output.	Avoid 30 minute delay just to disable steam valves when steam has been off for 30 minutes. Improve reliability of Estop circuit.	ISA-03 ADU Conversion	SPLC on Line 4
15110	Modify Maintenance Mode on Line 3 SPLC and pressure transmitter ranges.	Change operation of Line 3 Maintenance mode from having to have steam valves disabled for 30 minutes to having to have steam off for 30 minutes and steam valves disabled. Change range of PIT-S-301A-1 and PIT-S-301B-1 to -1 to 20.	Avoid 30 minute delay just to disable steam valves when steam has been off for 30 minutes. Prevent transmitter signal from going out of range when pressure goes below zero.	ISA-03 ADU Conversion	SPLC on Line 3
15111	Add Maintenance Mode (ADUHYD-913) for Line 5 SPLC	Add maintenance mode which allows operations to open blocking valves to properly vent UF6 lines for maintenance.	This will assure that UF6 lines can be properly vented by operations prior to any maintenance. All other lines with SPLC have maintenance mode.	ISA-03 ADU Conversion	SPLC on Line 5
15112	Add Feeder 732 LOTO device	Add Lock Out Tag out disconnect for Solx safe dissolver 732.	Increased Safety with local LOTO	ISA-04 Safe Geometry Dissolver	Feeder 732 in Solex

CCF No.	Title	Description	Justification	ISA ID	Location
15113	Replace Contaminated Sump Level Transmitter	Replace Contaminated Sump Level Transmitter	We recently upgraded the level transmitters in the Waste Treatment Sumps to Ultrasonic Level (UT) type. This was done in response to the existing RF Admittance type probes becoming obsolete. It has since been determined that the contaminated sump has an issue with "foaming" at times. This "foaming" condition causes the UT type transmitter to become unreliable. This CCF will allow us to replace the existing UT transmitter with a newer version of RF Admittance type transmitter.	Grounds	Contaminated Waste Sump in Waste Treatment Outside
15115	Hot Water Flush for V-1170A/B Transfer Line	Pipe hot water from existing hot water supply piping for V-1170A/B to the transfer line from V-1170A/B to T-1160B.	Hot water flush of transfer line needed to prevent plugging of line from waterglass solutions.	ISA-15 URRS Wastewater Treatment System	Waterglass Building
15117	P-1160B Suction Piping Rearrangement	Modify the suction piping into P-1160B so that it feeds the pump vertically. (See attached ISO)	To allow for clearance for new motor for P-1160B. Older motor is obsolete, and the new one is longer.	ISA-15 URRS Wastewater Treatment System	Outside URRS (Waterglass)
15118	G Section Hydroliner Cylinder Replacement	The scope of this project is to replace the Hydroliner air over oil elevator lift cylinders on the G Section conveyor for Gamma Scanners 3 and 4 inlet side.	Cylinders are obsolete	ISA-10 ADU Rods	G Section conveyor
15119	Replace Dryer Bearing Grease on Line 1	The Line 4 Hot Oil Dryer in Conversion recently experienced 3 bearing failures in one month. Analysis of the bearings revealed a quality issue with the Alithicon M-888 grease being used. The vendor is unable to guarantee further issues will not occur in the future so CCF 15093 was developed to change the type of lubrication to the same grease (Mobilgrease XHP 222) that is used on the decanter bearings in Conversion. This CCF will implement the same change for LINE 1; to provide consistency across all lines. This lubricant has been tested on Line 4 (see CCF 15093) since February 2015, and no failures have occurred.	The current lubrication for the hot oil dryer bearings, Alithicon M-888, was found to be of poor quality. The thickener separated from the base oils and soaps, causing the bearings to overheat and fail. The vendor does not use batch control on their product and is unable to guarantee that this issue will not occur in the future. The proposed solution is to change the type of grease to the Mobilgrease XHP 222. This grease is already used to lubricate the decanter bearings in Conversion and is rated for the high temperatures (less than 180 deg. F) that the dryer bearings operate at.	ISA-03 ADU Conversion	Conversion Line 1
15120	Thimble line plugger clamp valve change	Change the plugger clamp valve from an air piloted solenoid valve to a simple solenoid valve	The simple solenoid valve provides more reliable functioning at low air pressure.	Components	Mechanical side, non fuel, thimble tube line, tube plugging
15121	Main Switchgear Annex Excavation	Remove a section of existing concrete walkway and soil for installing a new 12' X 18' pad for Main Switchgear Annex. The soil and concrete will be tested for free release or disposal of LLRW per RA-120-4. Additional CCF's will be created for the pad and building installation.	The existing batteries which supply 48-VDC power to critical switch gear monitoring equipment are outdated and require replacement. The replacement system requires more physical space than the existing system. This physical space is not available during required maintenance activities. The medium Voltage switchgear requires a portable hoist to remove and rack out breakers. Removing the switchgear during the plant shutdown requires all of the existing space.	Grounds	Main Switchgear building
15123	Tray to Tray Table, change tray rail material	Change material for tray rails on Tray to Tray table from UHMVPE to molybdenum disulfide filled nylon (MDFN)	UHMVPE can de-grade and become foreign material on the pellets.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA/FA2
15124	Process Water Manual Valves to T-1163	Replace two globe valves on the process water line to T-1163, with ball valves.	Make it easier for operators to close the valve, and to know it is closed, preventing inadvertent flow of water.	ISA-15 URRS Wastewater Treatment System	Outside URRS (Waterglass)
15125	Replace carbon steel railing with stainless at rod weigh	Replace the carbon steel railing on the catwalk and stairs with stainless steel.	Issues with paint on rods.	ISA-10 ADU Rods	Rod Weigh Catwalk

CCF No.	Title	Description	Justification	ISA ID	Location
15126	Install new Box Oven	<p>1. Install a new Box Oven in the Leco Room of the Chem. Lab. with a 240vac electrical service.</p> <p>2. Move two existing Nitrogen Analyzers from a UPS 240vac electrical panel to a normal power 240vac electrical panel.</p>	<p>1. The new box oven is being purchased for a safety reason. Currently area personnel have to carry hot crucibles from one room to the next. The purchase of this box oven will shorten the travel distance. This CCF is to provide power to the new box oven.</p> <p>2. We want to shed some load off of the UPS panel since it is near the limit of its capacity. Not doing so could cause the whole electrical panel to overload and trip out, there by shutting down all of the connected equipment.</p>	ISA-18 Laboratories	Chem. Lab
15129	Ammonia Still Expansion Rack 4 Power Re-feed	Re-Feed Ammonia Still Expansion Rack#4 120VAC from normal power to 120VAC URP power.	MCC-50 Buss will be off line for a buss rebuild and repair. MCC-50 feeds normal power receptacle panels feeding the Ammonia Still Expansion rack # 4. Moving this system to URP will allow critical plant processes to stay online during the repair	Grounds	Sub 6
15130	DI Regeneration Power Relocation	Relocate DI Regeneration system 120VAC normal power to 120VAC URP power.	MCC-50 Buss will be off line for a buss rebuild and repair. MCC-50 feeds normal power receptacle panels feeding the DI Regeneration. Moving this system to URP will allow critical plant processes to stay online during the repair	Grounds	Sub 6 building
15131	Relocate Air Products Instrumentation 120VAC power	Relocate Air Products Instrumentation from 120VAC normal power to 120VAC URP power.	MCC-50 will be down for a buss rebuild and repair. MCC-50 feeds normal power receptacle panels feeding the Tank Farm Air Product Instrumentation. Relocating this circuit to an URP will allow critical plant process to remain online during the repair.	Grounds	Sub 6 Building
15132	Relocate P-1365A from MCC-50 to MCC-SUB6	Relocate the power and controls for P-1365A DI Water Pump from MCC-50 to MCC-SUB6.	MCC-50 will be down for buss bar replacement. Currently both DI water pumps are fed from MCC-50. Moving one pump over to MCC-Sub 6 will allow critical plant processes to continue during the repair.	Grounds	Sub Station 6 building
15133	Relocate City Water Backup Pump from MCC-50 to MCC-SUB6	Relocate power and controls to the City Water Backup Pump from MCC-50 to MCC-SUB6.	MCC-50 will be down for buss bar replacement. Currently both City Water Pumps are fed from MCC-50. Moving one pump over to MCC-Sub-6 will allow critical plant processes to continue during the repair.	Grounds	Sub 6 Building
15134	UCVS Skid Installation Power Feed	The scope of this project is to install two 120VAC feed circuits in the UF6 Weigh Station Office.	This project is in preparation for the upcoming delivery of the UCVS Skid which will be placed in front of the UF6 Weigh Station Office for field trails.	ISA-03 ADU Conversion	UF6 Pad Weigh Station Office
15135	Add LOTO device for Solx Safe Dissolver feeder	Add Lock out Tag out device for solx 742 feeder.	Enhance safety by providing a local lockout device	ISA-04 Safe Geometry Dissolver	Solx Dirty Dissolver Feeder 742
15136	Add LOTO device for Solx Feeder 752	Add LOTO device for Solx Feeder 752	Enhance safety by adding a local lock out device	ISA-04 Safe Geometry Dissolver	Feeder 752 at Solx Dirty Dissolver
15137	Remove out of service steel plate from T-1115	Steel plate for the air diaphragm pump on T-1115 is no longer in service and creates a safety hazard (Greenbook 68133). The plate will be removed up to the beam on the side of the tank.	By removing this plate, a safety concern will be addressed.	Grounds	URRS Outside
15138	Rod Weigh Section "B" Controls Upgrades	Install new electrical and pneumatic controls to upgrade the Rod Weigh "B" section. The new controls will be connected to the Soft Handling Infeed PLC.	Elimination of an obsolete Numalogic PLC and integration with the rest of the Soft Handling System.	ISA-10 ADU Rods	Rod Weigh Section "B"
15139	River Discharge Valve Installation	Install a ball valve in the river discharge line. (Note: For this CCF the valve will left with valve fully open and linkage removed). Linkage will be re-installed under a differency CCF.	There is no positive proof that water is NOT being discharged when the discharge pump as not running	Grounds	URRS -Outside (EPA River Discharge)

CCF No.	Title	Description	Justification	ISA ID	Location
15140	Chem. Lab Scrubber Caustic shutoff Valve replacement.	This CCF will allow us to replace the 1/2 Worchester Valve (XV-974A) with a Jamesbury 7150 series (actuator VPVL051SR4/5BD).	The current automated Block Valve XV974A is leaking, and needs to be replaced. The replacement valve is compliant with FSS-003 piping spec. for 25% NaOH.	ISA-01 Plant Ventilation System	On roof at Chem. Lab Scrubber.
15141	DI Water Controls Upgrade	Replace the obsoleted Panelmate HMI with a GE Quickpanel, also upgrade the PLC Processor to a more current model which will allow us to "talk" Ethernet.	Existing HMI is degraded and it is obsolete and un-repairable if it fails catastrophically.	Grounds	DI Water building outside across from the North American Boilerd
15142	Connect a Diesel Driven Air Compressor	Connect a diesel driven oil free air compressor and desiccant air dryer to the plant compressed air header. Following the Outage, the rental compressor / dryer will be disconnected.	This air compressor and dryer will supply compressed air to the facility on the day of the power outage.	Grounds	Grounds
15143	Changes to Conversion Line 5 Scrubber Drawings to Reflect New Scrubber Design	The Conversion Line 5 Scrubber, S-511, is scheduled to be replaced on 6/29/2015. In order to facilitate potential installation on any Conversion lines, modifications were made to the scrubber design. These modifications include the fabrication of a second educator pump feed line that mirrors the first feed line and attachment of four (4) lifting lugs on the top corners of the scrubber. The drawings need to be updated to accommodate these changes. As well, in order to remove the current scrubber and install the replacement, a condensate return line will need to be cut and removed from the area. This CCF will install a flange on the line to make future line removal easier.	The replacement scrubber that was delivered has the above described modifications already installed so the drawings need to be changed. These changes were made so that the spare scrubber would be compatible with all five Conversion lines. Adding a flange to the condensate line will enable easier removal of the line if required for future projects.	ISA-03 ADU Conversion	CLN5 Scrubber, S-511
15144	Line 8 - Addition of new Solenoid Valve, SV3-06 to Activate Air Blow Off at Avis Station	A new solenoid valve will be added to control the air blow off at the AVIS station at line 8.	The air is constantly blowing and adding to the noise in that enclosed area. This will allow the air to blow only when the tube is in the AVIS station thus reducing the noise.	ISA-10 ADU Rods	Line 8 Tube Prep Area
15145	1C Sintering Furnace Cooling Gland Installation	Replace existing ADU Sintering furnace element leg cooling glands(361F02EQ13) with new, improved cooling glands(361F02EQ25). Braided Hose will be used to interconnect the new glands. This change is similar to CCF 13646.	New cooling glands will be able to compensate for alignment issues associated with warped furnace floors, provide improved sealing and provide improved cooling. The braided hose interconnection will provide a flexible connection to alleviate alignment issues between between the gland cooling coils.	ISA-08 Pelleting	ADU Pelleting \ 1C Sintering Furnace
15146	4A Furnace N2 & H2 Pressure Switch Valve Addition	Add Swagelok SS-43GS4-LL lockable ball valve(see attached specifications) to N2 & H2 switch supply lines.	To be able to isolate the N2 and H2 pressure switches for replacement, and to be able to check the switch calibration without cooling the furnace down completely. The valves are lockable to ensure they are in the correct position when calibration is not being performed.	ISA-08 Pelleting	ADU Pelleting \ 4A Sintering Furnace
15147	Line 3 Roll Compactor Motor Replacement	Replace the Reliance T16H4017M-TH DC motor with Reliance T18R1118 DC motor. Field-fit modification of the base plate to which the motor mounts will be necessary because no OEM or Westinghouse drawings on the motor mounting frame/base plate are available. Minor fit-up of the new motor per MCP-108139, Section 18, may also be required. No electrical changes are required to install the new motor.	The T16H4017M-TH DC motor is obsolete. The T18R1118 DC motor is the Reliance recommended replacement. The base plate will need to be lowered to accommodate the 1/2" base to shaft centerline height differential between the obsolete and new motor. The base plate mounting holes will need to be re-located to match the new motor foot print.	ISA-08 Pelleting	ADU Pelleting \ Line 3 Roll Compactor.
15148	Main Switchgear Annex	Install a Pre-Engineer building for housing the power supplies and UPS for the Main Switchgear breaker controls.	The existing batteries which supply 48-VDC power to critical switch gear monitoring equipment are outdated and require replacement. The replacement system requires more physical space than the existing system. This physical space is not available during required maintenance activities. The medium Voltage switchgear requires a portable hoist to remove and rack out breakers. Removing the switchgear during the plant shutdown requires all of the existing space. The batteries will be replace with a larger UPS and rectifier system.	Grounds	Main Switchgear Annex

CCF No.	Title	Description	Justification	ISA ID	Location
15149	Development Lab Crane Remote	Replace the obsolete model currently used on the PE Lab crane with the latest version.	The crane radio for the PE Lab Crane in Development Lab is obsolete. A replacement is available similar to one already existing in the packing area. The PE Lab Crane radio will be replaced with the current model. There are no changes needed to the electrical drawing. The new crane radio will use the existing connections. This is similar to the change made in CCF-15035.	ISA-18 Laboratories	Mechanical development lab
15150	Relocate Resistance Weld stations	The resistance weld stations at the back of the grid area need to be relocated to optimize flow. The current equipment is connected to 480V and 110 V electrical, as well as air and (in one case) cooling water. The moves will require reconnection to these utilities, but no utility usage is being added.	This workstation is to be moved to facilitate material flow.	Components	C4/D4/C5/D5 on arrangement drawing 500F04AR10 Sheet 3
15152	Upgrade of EPA River Discharge Controls (Initial Install of Control Panel and Power Panels)	Replacement of obsolete controls for EPA River Discharge. Perform separation of 24VDC controls for 120VAC and higher voltages. Install additional monitoring controls on T-1116 and enhance monitoring for existing signals. Cutover of controls will occur on later CCFs	Controls are obsolete and information from system is limited.	Grounds	Outside-URRS (EPA Building and Grounds)
15154	Line 9 Ring Sensor Change	Replace Line 9's UT's through beam tube position sensor with a prox type ring sensor.	Current sensor will intermittently give false readings.	ISA-10 ADU Rods	CFFF, Mechanical Side Line 9, UT Station
15155	UCVS Skid placement and final installation	This project is to do the final placement of the UCVS skid, control wiring and power connections and power up testing to turn over to production.	This project is the final installation of the UCVS for field testing.	ISA-03 ADU Conversion	UF6 pad Weigh Station Area
15157	Removal of Old Floor Tile in the Main Hallway of the Chem Lab	Remove multiple layers of old flooring and all associated construction materials, leaving the base concrete floor exposed. Note: the bottom layer of flooring has been tested to contain asbestos.	To remove the risk of asbestos exposure.	ISA-18 Laboratories	Chem Lab Main Hallway
15158	Replace bottom 6' of painted access ladder with SS, above Drag Chain at ADU Rods Line 2.	This change will remove the bottom 6' of the existing painted access ladder (below the protection cage) with a 304SS fixed ladder.	The ladder is right above the drag chain at the Line 2 ADU Rods area. PA has identified the ladder as a potential paint (FME) issue. This can be completed during the Line 2 Cycle late July.	ISA-10 ADU Rods	On wall above Drag Chain at ADU Rods Line 2.
15159	CL1 Decanter Feed End Bearing Housing Ring	<p>Currently, a thin sheet plate is installed on the top inside of both decanter external bearing housings and acts as a path to lubricate the radial bearings. It is not clear how effective this method is.</p> <p>A ring will be installed inside the CL1 feed end bearing housing, face-to-face with the bearing and directly below the grease fitting. This ring will have the pattern of the radial bearing which will allow for grease to more effectively lubricate the bearing at the fixed lubrication frequency dictated in the Human Interface Panel (HMI).</p> <p>This change was previously implemented per CCF 13070 for CL4 with good results.</p>	This change will allow for more effective lubrication of the decanter feed end bearing.	ISA-03 ADU Conversion	CL1 Decanter
15160	CL2 Decanter Feed End Bearing Housing Ring	<p>Currently, a thin sheet plate is installed on the top inside of both decanter external bearing housings and acts as a path to lubricate the radial bearings. It is not clear how effective this method is.</p> <p>A ring will be installed inside the CL2 feed end bearing housing, face-to-face with the bearing and directly below the grease fitting. This ring will have the pattern of the radial bearing which will allow for grease to more effectively lubricate the bearing at the fixed lubrication frequency dictated in the Human Interface Panel (HMI).</p> <p>This change was previously implemented per CCF 13070 for CL4 with good results.</p>	This change will allow for more effective lubrication of the decanter feed end bearing.	ISA-03 ADU Conversion	CL2 Decanter



CCF No.	Title	Description	Justification	ISA ID	Location
15161	CL3 Decanter Feed End Bearing Housing Ring	<p>Currently, a thin sheet plate is installed on the top inside of both decanter external bearing housings and acts as a path to lubricate the radial bearings. It is not clear how effective this method is.</p> <p>A ring will be installed inside the CL3 feed end bearing housing, face-to-face with the bearing and directly below the grease fitting. This ring will have the pattern of the radial bearing which will allow for grease to more effectively lubricate the bearing at the fixed lubrication frequency dictated in the Human Interface Panel (HMI).</p> <p>This change was previously implemented per CCF 13070 for CL4 with good results.</p>	This change will allow for more effective lubrication of the decanter feed end bearing.	ISA-03 ADU Conversion	CL3 Decanter
15162	CL5 Decanter Feed End Bearing Housing Ring	<p>Currently, a thin sheet plate is installed on the top inside of both decanter external bearing housings and acts as a path to lubricate the radial bearings. It is not clear how effective this method is.</p> <p>A ring will be installed inside the CL5 feed end bearing housing, face-to-face with the bearing and directly below the grease fitting. This ring will have the pattern of the radial bearing which will allow for grease to more effectively lubricate the bearing at the fixed lubrication frequency dictated in the Human Interface Panel (HMI).</p> <p>This change was previously implemented per CCF 13070 for CL4 with good results.</p>	This change will allow for more effective lubrication of the decanter feed end bearing.	ISA-03 ADU Conversion	CL5 Decanter
15163	Replace FIT-750A and FCV-750A	Replace FIT-750A and FCV-750A with a more reliable design.	<p>FIT-750A is an integral orifice flow meter. The acid and water supply line flow transmitters are being upgraded to an alternate style of flow meter that utilizes the Coriolis effect. The flow control valve is also being upgraded to a more reliable design. The alternate style flow meter and control valve will be less prone to leak and will be consistent with other instrumentation in the area.</p>	ISA-04 Safe Geometry Dissolver	SOLX Dirty Dissolver

CCF No.	Title	Description	Justification	ISA ID	Location
15164	Modification to Laser X for VVER-1000 Capability	<p>As part of the South Ukraine (SU) component expansion, multiple part manipulation systems on Laser X will be modified so that they are compatible with the VVER-1000 grid weld tooling.</p> <p>A second clamp position sensor will be installed on the front gripper cylinder (A1). This sensor will be engaged when the gripper is actuated with the gripper spacer (tooling drawing 418F17TL01) is installed. The spacer will be used to adjust the clamping position when using hex tooling. The Siemens PLC and HMI software will be updated to incorporate this sensor and M70 functionality. Selection of the original or new clamp sensor usage will be controlled via the part CNC program.</p> <p>Replacement grippers (29050-SA-009 and 29050-064) will be installed to allow the new grid tooling (tooling drawing 418F17X01) to be grabbed by the laser.</p> <p>A replacement stop gate (29050-023) will be installed to support the roll-in of the hex tooling. The C-axis turn table plates (29050-029 and 29050-030) will be replaced to provide clearance for the new stop gate. The Siemens PLC software will be updated to interlock the position of the stop gate (M67/M68) with motion of the C-axis. First, the C-axis will only be allowed to move if the stop gate is down. Second, the stop gate can only be raised when the C-axis is at zero.</p> <p>Use of the new gripper spacer tooling (tooling drawing 418F17TL01) will be implemented via a revision of MOP-717002 that will occur separately as part of NPPD product implementation. Until then, operation of the laser will continue as it currently does without the spacer.</p>	<p>As part of the South Ukraine (SU) component expansion, multiple part manipulation systems on Laser X will be modified so that they are compatible with the VVER-1000 grid weld tooling.</p>	Components	CE Grid Area
15165	Replace FIT-750B and FCV-750B	Replace FIT-750B and FCV-750B	<p>FIT-750B is an integral orifice flow meter. The acid and water supply line flow transmitters are being upgraded to an alternate style of flow meter that utilizes the Coriolis effect. The flow control valve is also being upgraded to a more reliable design. The alternate style flow meter and control valve will be less prone to leak and will be consistent with other instrumentation in the area.</p>	ISA-04 Safe Geometry Dissolver	SOLX Dirty Dissolver
15166	Replace FIT-750C and FCV-750C	Replace FIT-750C and FCV-750C	<p>FIT-750C is an integral orifice flow meter. The acid and water supply line flow transmitters are being upgraded to an alternate style of flow meter that utilizes the Coriolis effect. The flow control valve is also being upgraded to a more reliable design. The alternate style flow meter and control valve will be less prone to leak and will be consistent with other instrumentation in the area.</p>	ISA-04 Safe Geometry Dissolver	SOLX Dirty Dissolvers
15167	Replace FIT-750D and FCV-750D	Replace FIT-750D and FCV-750D	<p>FIT-750D is an integral orifice flow meter. The acid and water supply line flow transmitters are being upgraded to an alternate style of flow meter that utilizes the Coriolis effect. The flow control valve is also being upgraded to a more reliable design. The alternate style flow meter and control valve will be less prone to leak and will be consistent with other instrumentation in the area.</p>	ISA-04 Safe Geometry Dissolver	SOLX Dirty Dissolver

CCF No.	Title	Description	Justification	ISA ID	Location
15168	Remove T-1039 Agitator	Remove agitator from tank - blind off nozzle/plate where agitator entered tank. Replace recirculation dip leg with 18" drip tip.	Agitators are not necessary to produce a homogenous UN solution. Additionally, agitators are mechanical systems that require inspection and repair (require confined space entry) and are not sealed, so that FME could enter the tank.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage
15170	Remove T-1041 Agitator	Remove agitator from tank - blind off nozzle/plate where agitator entered tank. Replace recirculation dip leg with 18" drip tip.	Agitators are not necessary to produce a homogenous UN solution. Additionally, agitators are mechanical systems that require inspection and repair (require confined space entry) and are not sealed, so that FME could enter the tank.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage
15171	Remove T-1042 Agitator	Remove agitator from tank - blind off nozzle/plate where agitator entered tank. Replace recirculation dip leg with 18" drip tip.	Agitators are not necessary to produce a homogenous UN solution. Additionally, agitators are mechanical systems that require inspection and repair (require confined space entry) and are not sealed, so that FME could enter the tank.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage
15172	Remove T-1043 Agitator	Remove agitator from tank - blind off nozzle/plate where agitator entered tank. Replace recirculation dip leg with 18" drip tip.	Agitators are not necessary to produce a homogenous UN solution. Additionally, agitators are mechanical systems that require inspection and repair (require confined space entry) and are not sealed, so that FME could enter the tank.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage
15173	Change Storeroom Part number 69068 for Elapsed Time Meter	Change Storeroom Part number 69068 for Elapsed Time Meter from vendor number 2900-21 to 2900-28	Existing model 2900-21 is obsolete and replaced by 2900-28	Grounds	This meter is used on remote HP Air sampler units. These units are placed around the grounds of the plant.
15174	Remove T-1045 Agitator	Remove agitator from tank - blind off nozzle/plate where agitator entered tank. Replace recirculation dip leg with 18" drip tip.	Agitators are not necessary to produce a homogenous UN solution. Additionally, agitators are mechanical systems that require inspection and repair (require confined space entry) and are not sealed, so that FME could enter the tank.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage
15175	Upgrade Emergency Power feed and distribution at Fire Pump #1 building.	Currently EPP-10BB ckt 6 is a 60 amp breaker. This CCF will allow us to up-rate the breaker to a 90amp breaker. The current wire size is acceptable for a 90 amp circuit. This CCF will also allow us to add a disconnect to the feed for future use; which would allow us to safely tap into this feed without "killing" the emergency power. While we are "down" we will also be changing from a 20A to a 30A feed to the Jockey Pump. This is in anticipation of installing a larger pump later.	Our Emergency power availability at Fire Pump house #1 is limited. This will allow us some flexibility for future upgrades.	Grounds	Emergency power at Fire Pump House #1 Building.
15176	Keyance LS-7601 Controller Substitution; Obsolete Part LS-7501	With this CCF, we will substitute the LS-7501 with the LS-7601. The footprint is the same and the outputs are the same. The Manufacturer added more features that are not used by us.	The LS-7501 is no longer available.	Components	This part is used on Laser MIC applications for Grinder Line 6 and ERBIA Grinder Line
15177	Remove power to old Switchgear Heaters	Remove power to old Switchgear Heaters. Fed from Fire Pump 1 Diesel Building ERP-FP1-B dwg. 510F08EL04 sht 3	Originally the old Switchgear (which is now a backup) was in a non insulated building so the breakers had heaters in each compartment. Now the old Switchgear is in a climate controlled building and the heaters are no longer necessary. This CCF will allow us to electrically disconnect the heaters.	Grounds	Switchgear building outside near SCE&G Transformer
15178	Angle valves on the dry standpipe	Install two angle valves on the roof top connection of #3 manual dry pipe.	These valves will simplify charging this standpipe with water when needed.	Grounds	Roof area above Equipment Room #3

CCF No.	Title	Description	Justification	ISA ID	Location
15179	Oxygen Analyzer for Invivo Room	<p>With this CCF, we will in the INVIVO room a Beacon 200 Oxygen monitor with sensors. This install will replace the current analyzer in the INVIVO room as the new Std.</p> <p>This installation is like the install currently underway in the IFBA Dry Room (CCF 15025) with the exception of PLC integration.</p> <p>No change dwg needed.</p>	<p>* The current analyzer in the INVIVO Room is obsolete</p> <p>* Greenbook 65903 was written to address the issue of line 5 being an enclosed room with various gases (nitrogen, helium and argon) supplies. If there were a large enough leak, enough oxygen may be displaced to cause an asphyxiating environment. This problem exists in the INVIVO Room as well.</p>	Grounds	INVIVO Room
15180	Hose adapter to expedite connection of Pumper Truck to #2 Fire Water Tank	Install a hose adapter with plug downstream of CV#56 on #2 Fire Water Tank Piping.	This hose adapter will expedite the connection of a Pumper Truck to #2 Fire Water Tank.	Grounds	#2 Fire Pump House.
15181	Replace Obsolete Temperature Monitor/Fan Controller on Substation 7 Transformer.	Replace Obsolete Temperature Monitor/Fan Controller on Substation 7 Transformer. This controller is used to monitor and control the cooling fans in the transformer section. This CCF will allow us to substitute the existing controllers on the Westinghouse transformers with the Cimco Model A-21-40P.	Existing Cimco controller is obsolete and has failed. This CCF will allow us to replace the existing Cimco unit with a current model unit. Note the thermocouple will have to be changed, as type K units are no longer used in this type application due to its sensitivity to the EM "noise".	Grounds	Substation Transformer at Substation 7. Also potential replacement of other failed units as needed in the future (Part Substitution)
15184	Hot Oil Expansion Tank Level Switch Modifications	Under this CCF the N2 expansion tank level switch will be modified. The switch electronics will be changed from direct-switching to relay contact output to improve compatibility with the electronic safety relay. At the same time the pump shut-off circuit will be altered to make it fail-safe in the event of power failure.	Improve reliability of the reset circuit and make the pump shut-off circuit failsafe so pumps will not restart if power is removed from the safety circuit.	ISA-03 ADU Conversion	Hot Oil Room
15185	Replace inlet and outlet butterfly valves on Filter Houses 948 A / B	On ventilation system 948 A / B, replace the existing 10" lever operated butterfly valves with 10" gear operated butterfly valves. These valves, located on the inlets and outlets of each Filter House, are used to isolate each Filter House when off-line.	The existing lever operated butterfly valves require excessive force to close. These gear operators will assure a better seal with less operator effort.	ISA-01 Plant Ventilation System	Penthouse
15187	Line 4 R53 Press Modifications	<p><b>ELECTRICAL</b></p> <ol style="list-style-type: none"> <li>Relocate terminal strip previously located on press below clutch.</li> <li>Add worm brake junction box.</li> <li>Add LED lighting in pellet press hood like previous rebuild on line 5.</li> <li>Change the die fill and bottom punch LVDT from RDP Electrosense, Inc. P/N RDP D2-2000 to Measurement Specialties P/N 2000 DC-EC. Ref. CCF 14186, Part 21 for similar change.</li> <li>Add appropriately rated quick disconnects (press motor, central lube pump, worm lube meter pump, DC Control Multi-Connector).</li> <li>Add selector switches to main control panel to control bull gear lights and enclosure lights separately.</li> <li>Modify the DC control junction box on side of press to accommodate the LED controls.</li> </ol> <p><b>MECHANICAL</b></p> <p>Notes: Many of the changes are for Courtoy OEM components for which no Westinghouse drawing exists. Where available, Courtoy drawing mark-ups are referenced and attached to the CCF.</p> <p>For Items 1 ? 23, ref. CCF 14186 for similar changes.</p> <ol style="list-style-type: none"> <li>Add needle thrust bearing to ejection cam drive mechanism. Ref. attached Courtoy Dwg 35433 mark-up.</li> <li>Remove center support for enclosure base plate and replaced with 1/4" re-enforcement plate spanning between the front and back supports. No drawings available. Plate is field fit.</li> <li>Replace Courtoy Dwg 35435. It 1106 &amp; 1107 thrust washers with needle thrust</li> </ol>	<p><b>ELECTRICAL</b></p> <ol style="list-style-type: none"> <li>Continuous Improvement ? terminal strip unnecessary with ?plug and play? wiring.</li> <li>Continuous Improvement ? junction box necessary for ?plug and play? wiring.</li> <li>Continuous Improvement. Upper enclosure: improve efficiency and eliminate waste(incandescent bulbs often failed). Lower enclosure: lighting added for better viewing of press lower end components.</li> <li>Obsolescence.</li> <li>Continuous Improvement - make the press modular for faster future rebuilds and to accommodate rear plate hinges</li> <li>Separating upper and lower end enclosure lights allows lower end lighting to remain off except for press maintenance.</li> <li>Make the press wiring modular for faster press change-outs.</li> </ol> <p><b>MECHANICAL</b></p> <ol style="list-style-type: none"> <li>Current design has no thrust bearing making adjustment of the cam difficult due to metal on metal contact between the adjustment wheel and the press base. The needle thrust bearing resolves the metal on metal contact and allows easy adjustment of the cam.</li> <li>Removing center support provides better view and accessibility to bottom cam and worm gear</li> </ol>	ISA-08 Pelleting	ADU Pelleting \ Line 4 Press

CCF No.	Title	Description	Justification	ISA ID	Location
15188	Addition of 3 holes to cylinder stand on Line 8 for anchoring to the ground.	3 holes will be added to the cylinder stand to allow for bolts to be mechanically anchored into the ground. This will allow for the cylinder stand to remain stationary.	Since the cylinder stand holds the tare weight for the tube scale, it is important that the cylinder stand is not able to move if it accidentally gets bumped. By adding the 3 holes for anchoring to the ground, it will keep the cylinder stand stationary.	ISA-10 ADU Rods	Tube Prep Line 8
15189	Addition of 3 holes to cylinder stand on Line 9 for anchoring to the ground.	3 holes will be added to the cylinder stand to allow for bolts to be mechanically anchored into the ground. This will allow for the cylinder stand to remain stationary.	Since the cylinder stand holds the tare weight for the tube scale, it is important that the cylinder stand is not able to move if it accidentally gets bumped. By adding the 3 holes for anchoring to the ground, it will keep the cylinder stand stationary.	ISA-10 ADU Rods	Tube Prep Line 9
15190	Replace Line 3 Safety Programmable Logic Controller CPU module with a new model.	Replace existing CPU with a new model.	The existing CPU is obsolete and the CPU in this line is being upgraded to provide spares for other lines and the incinerator.	ISA-03 ADU Conversion	PLC room behind conversion control room.
15192	Pellet Line 3 Dust Collector Fork Level Installation	Replace obsolescent Drexelbrook high and high, high level probes on pellet line 3 dust collector.	The existing probes have proved to be difficult to calibrate and hold calibration. The manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	Pellet Line 3 Dust Collector
15193	Pellet Line 4 Dust Collector Fork Level Installation	Replace obsolescent Drexelbrook high and high, high level probes on pellet line 4 dust collector.	The existing probes have proved to be difficult to calibrate and hold calibration. The manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	Pelleting Line 4 Dust Collector
15194	Pellet Line Dust Collector-2200 Fork Level Installation	Replace obsolescent Drexelbrook high and high, high, level probes on dust collector - 2200.	The existing probes have proved to be difficult to calibrate and hold calibration. The manufacturer no longer supports certain critical parts associated with these probes.	ISA-08 Pelleting	Pellet Line Dust Collector FL-2200
15195	Relocate Flammable Liquid Storage Cabinet and Zirc Fines Drum	The flammable liquid storage cabinet and Zirc fines drum in final assembly needs to be relocated because the current location could cause a accident.	The current location (near BWR magazine loading) creates a possible hazard when moving magazines. There is a tight turning area for the loaded magazine. Due to this, operators often have to manipulate the magazine in order to avoid hitting the drum and/or cabinet. The cabinet and drum need to be moved to an area with less traffic.	ISA-17 Final Assembly	Near the BWR channel storage area and the skeleton inspection table.
15196	Replacement of T-1178 Level Transmitter	Replace existing transmitter (with open leg to Tank filled with Halocarbon) with dual seal (one remote seal one local seal) transmitter.	During overfilling/flashing, the low leg fills with product altering the actual differential pressure causing inadequate readings for level	Grounds	Outside URRS - Stills Area
15197	Still 1 Piping Replacement	Piping from P-1102A/B and from P-1142 on Still 1 is being replaced as a part of the P1102 pump base replacement.	Piping modification will allow for more room for maintenance activity.	Grounds	Still 1 Building
15198	Remove computer cabinet from line 7 area.	Remove and discard old computer cabinet from the line 7 area.	The cabinet is no longer used or necessary in the present location. All programs have been moved to the main line 7 control area.	ISA-12 IFBA Fuel Rod Manufacturing	Near the step off pad in IFBA
15199	Storeroom Parts Substitution for Emerson Valve Positioner	Storeroom Parts Substitution for Emerson Valve Positioner	Current Storeroom item for Stork #020000 is obsolete and will be replaced by Model Fisher DCV6200	Miscellaneous	Storeroom parts

CCF No.	Title	Description	Justification	ISA ID	Location
15200	Modify Range for Steam Pressure and DI Water Flow Transmitters on Line 1	Modify Range for Steam Safety Pressure Transmitter and DI Water Safety Flow Transmitter on Line 1 Safety Instrumented System.	Steam Pressure transmitter for the vaporizer is being re-ranged to avoid a low pressure trip. The transmitter goes slightly negative during initial heating of the cylinder.  The DI Water transmitter is being re-ranged to avoid a out of range high trip when DI water flow exceeds its range. Currently the BPCS has a cascaded set-point which can cause the trip. By increasing the range, the trip will no longer occur. These changes have been implemented previously on the other lines.	ISA-03 ADU Conversion	At vaporizers and V102.
15202	Grid Strap Plating Tanks Rotameters.	Install rotameters on the pre-etch, alkaline, chem-etch, strike, and plating tanks to measure the flow of air into each tank	To measure the air flow into each tank.	Components	Nickel plating room
15203	5B Sintering Furnace Cooling Gland Installation	Replace existing ADU Sintering furnace element leg cooling glands(361F02EQ13) with new, improved cooling glands(361F02EQ25). Braided Hose will be used to interconnect the new glands. This change is similar to CCF 15145.	New cooling glands will be able to compensate for alignment issues associated with warped furnace floors, provide improved sealing and provide improved cooling. The braided hose interconnection will provide a flexible connection to alleviate alignment issues between the gland cooling coils.	ISA-08 Pelleting	ADU Pellet Area \ 5B Sintering Furnace
15204	Install HEPA filter on the Blast It All 2 unit.	Install HEPA filter on the Blast It All 2 unit to more effectively capture glass bead material. Components to be added are from Larry Hess and Associates (the parent company of Blast It All, the manufacturer of the equipment).	The current filtration on the unit is allowing a small amount of glass beads to become airborne. Adding the HEPA filter will capture this escaping material. A similar function has been performed on the Pulsar Blaster unit (CCF 15022) and is working well. Components to be added are from Larry Hess and Associates (the parent company of Blast It All, the manufacturer of the equipment). The manufacturer drawing number is B2129 and shows this configuration as optional.	Grounds	Mechanical Area Machine Shop
15205	Change breaker settings for Substation Breaker 312.	The current settings cause the breaker to trip on high inrush.	The existing settings were chosen conservatively. New settings have been determined to compensate for inrush current on startup.	Grounds	Substation 3.
15206	Replace existing rod weigh B scales	Replace existing Mettler-Toledo model SB16001 scales with Mettler-Toledo model XS16001L scales. Reference CCF 14491 for same replacement on rod weigh A scales.	The model of scale being used on rod weigh B is obsolete, and there is a desire to communicate over Ethernet/IP instead of serially when rod weigh is upgraded from numalogic to Allen-Bradley PLCs.	ISA-10 ADU Rods	Rod Weigh B
15207	Install half dome mirror.	Install half dome mirror along the wall outside of IFBA near the tray to tray transfer hood. Mount the mirror to the wall between column G-104 and the closed double doors to the development lab. Reference drawing 500F02AR10 (the drawing will not change).	The mirror will provide better visibility for personnel coming into the IFBA area and for rod transport operators during rod movement. Currently, visibility is restricted due to the area layout and cart storage for material entering into IFBA.	ISA-12 IFBA Fuel Rod Manufacturing	Outside IFBA tray to tray transfer window along the wall between the closed double doors and column G-104.
15208	Replace degraded section of duct on S2A / S2B Ventilation System	On S2A / S2B ventilation system, remove the degraded section of square galvanized duct and replace with 27" diameter SS duct. A viewport will be incorporated to facilitate the cleanout of accumulation.	The existing section of duct suffers from a loss of structural integrity.	ISA-01 Plant Ventilation System	Chemical Conversion Area
15209	Replacement Level Transmitter for Mechanical and Chemical Cooling towers	Specify Replacement Level Transmitter for Mechanical and Chemical Cooling towers; This will allow us to use the new model Endress and Hauser Liquidcap M mode FMI51. These transmitters are used in the Hotwell and Coldwell sumps	Existing Endress and Hauser units are obsolete.	Grounds	These units can be used on either the Chemical or Mechanical Cooling towers (Hotwell and Coldwell Sumps)
15210	Substitution for Manual 3" Powell Hot Oil Valve	The part number for Powell Valve 3003WE has changed to P3003IC8GXXXM.	This is a part number change only by the manufacturer. There is no change to the fit, form or function.	ISA-03 ADU Conversion	Hot Oil System 3 & 4

CCF No.	Title	Description	Justification	ISA ID	Location
15211	Tube Prep lathe table	Replace existing Tube Prep lathe table with stainless steel table. New table will eliminate cylinders and shafts not used on old table.	Tubes are frequently handled around the lathe table and the painted surface presents an opportunity for tubes to contact paint.	ISA-10 ADU Rods	Tube Prep Area
15212	High Bay Light Replacement over Development Lab Mezzanine aka "Engineering Lab"	With this CCF, we will replace the high bay lights over the Development Lab Mezzanine with plant standard high bay LED fixtures previously installed over the CE Loading and Product Store Room areas. No drawings exist for this area of the facility. A new drawing will be created on completion of the install.	* Sustainability (electricity usage/greenhouse gas reduction) * Test area for barcode readers that are non production related	ISA-18 Laboratories	Development Lab Mezzanine
15216	Install Secondary Drain Pan on AH-7305	A Secondary Drain Pan on AH-7305 will be fabricated and installed to prevent overflow damage to the mezzanine roof above the QC Receiving Inspection office. There will be a overflow drain line piped into the existing roof drain.	Existing AH-7305 internal drain pan functions well for the unit; however when the humidity rises, the entire external unit suffers from condensate and has dripped through flooring into the office below.	ISA-01 Plant Ventilation System	AH-7305 on Mezzanine above QC Receiving Inspection Office
15218	T-1143 Recirculation Pressure Regulator Replacement	Replace existing Watts pressure regulator on the recirculation of the T-1143 Hot Water tank with a Fisher MR95 pressure regulator. See attached spec sheet.	Existing regulator is leaking, and is not rated for hot water service.	ISA-06 Chemicals Receipt, Handling and Storage	Outside URRS/T-1143
15219	Removal of Isolation Device from J Flow Spring Return Valves	Remove the isolation device from spring return valves manufactured by J Flow Controls that affect SSC's. SSC's affected are ADUCAL-902, ADUCAL-903, ADUSCR-904, ADUSCRA-102, WT-130, and WT-131. A total of 9 valves are affected - 1 valve each on the lines 2 and 5 calciners, 2 valves each on the lines 2 and 5 scrubbers, the DI water scrap cage gamma monitor valve, and the DI water and nitric acid effluent monitor valves.	This is to eliminate the failure mechanism of the valves in which the isolation device can be positioned in such a way as to prevent the intended safe state of the valve from being achieved.	Miscellaneous	Conversion Lines 2 and 5 Calciner and Scrubber, Conversion Scrap Cage Gamma Monitor, and Q-Tanks Effluent Gamma Monitors
15220	Gamma Monitor 1005 DI Water Feed Modifications	Reroute DI water feed to 1005 gamma monitor to come from DI water feed to FP1058 filter press after the existing back flow preventers. The existing backflow preventers are SSC numbers ADUSCRP-147 and will not be modified or impacted. The new feed will tie into the discharge piping down stream from these backflow preventers.	Feed piping modifications will provide additional layers of protection for a back flow scenario into the DI water system.	ISA-03 ADU Conversion	Conversion Scrap Cage
15224	City Water Backup to Sintering Furnaces, UPS power feed	Change the City Water Backup to Sintering Furnaces control power to feed from UPS power.	On power loss the City water backup valve opens. This is an undesired consequence.	ISA-08 Pelleting	City water Backup valve and control in the North West corner of Conversion Scrap Cage
15225	1B Hydrogen Valve Replacement	Replace 1B Hydrogen supply 1" gate valve with a 1" ball valve.	Old gate valve replaced with new valve that improves shut-off and meets FSS-003-44 requirements.	ISA-08 Pelleting	ADU Pelleting \ 1B Furnace
15226	Add Limit Switch Substitution to MCP-202174	Add Limit Switch Substitution criteria to MCP-202174	In many Limit switch application in the plant the Limit switches are generic in nature. We have a storeroom with many limit switches in stock are suitable replacements, when a specific or obsolete switch is not available. This CCF will allow us to add Limit switches to MCP-202174. See attached .pdf for proposed addition to the MCP.	ISA-19 Hoods and Containment	Substitutions and Like kind parts
15227	Replacement of City Water Pressure Regulators in DI Water Building	Replace existing pressure reducing control valves with 3" Watts 2300 model pressure regulator.	Existing valves do not regulate pressure when there is no flow through the building, so DI Water tanks can be over-pressurized.	Grounds	DI Water Building (Outside URRS)
15228	Use GPI Model #G2S07N09GMA, ¾ in. Stainless Steel Flowmeter interchangeably where Brooks Instrument Model #1024CMD1F91AA is used.	Existing flow meters in the cooling water circulation system (VIPER pumping system) failed. These instruments are 15 years old and the vendor has provided a new style as a suitable replacement. The associated P&I drawing is in the related documents of the CCF. The instruments in question are #FI5803A and #FI5803B. Also attached is the new flow indicator information.	This request is being made in order to use either flow meter in the system.	ISA-18 Laboratories	VIPER loop water circulation system for cooling the pumps
15229	Replace pH transmitter 1009A	Replace pH transmitter 1009A	Transmitter was recently changed to a more current model (see CCF 14570). After installation there have been control issues with the system. To eliminate the new pH probe as a source of issue, we are returning the system to the original pH probe.	ISA-01 Plant Ventilation System	Conversion Scrap Cage pH 1009A

CCF No.	Title	Description	Justification	ISA ID	Location
15230	FME Covers for Wash Tanks	Modify the existing FME covers to make them more robust and eliminate sharp edges.	The FME covers are used to make sure debris does not get into the wash tanks when not in use. The existing covers need to be repaired. A new design is being implemented in order to reinforce the edges of the covers. A 3/4 inch wide strip is being added to the edges of the covers to keep them from breaking and to prevent sharp edges.	ISA-17 Final Assembly	Final Assembly Wash Tanks
15231	Still 2 Cooling Tower Chemical Feeds	Change of chemical feed system on Still 2 Cooling Tower to US Water Equipment.	Vendor change for chemical addition	ISA-06 Chemicals Receipt, Handling and Storage	URRS Outside
15232	Manual Valve Addition in Nitric Acid Supply Line to Scrap Cage Gamma Monitor	Add a manual valve in the nitric acid supply line to the scrap cage gamma monitor, upstream of the existing spring return valve.	This is to minimize the chance of SNM backflow into the nitric acid supply system.	ISA-11 Scrap Uranium Processing	Conversion Scrap Cage Gamma Monitor
15233	Remove Rupture Disk From Spiking Station 1	This CCF is identical to 14593 where the rupture disk was removed from Spike 2. The rupture disk will be removed and a low torque blind flange will be added.	The rupture disk is no longer required per CSE.	ISA-03 ADU Conversion	Spiking Station 1
15234	GM-1 Operator Interface Terminal Replacement	With this CCF, we will replace the operator interface terminal at GM-1 with a suitable replacement. As a temporary solution we will have PC with a terminal placed on a cart safely located for operator use.	Current touch screen PC/OIT malfunctioned and no longer works.	Components	GM-1
15235	Jockey Pump for Fire Water Loop	The existing jockey pump is undersized and incapable of maintaining the required fire water loop pressure. To correct this problem we will procure and install a jockey pump that is capable of maintaining fire water loop pressure between 140 - 152 psi.	Per NFPA 20 and the discharge pressures of our fire pumps, we should be operating the fire water loop as listed below:  1. System will be maintained between 140 psi and 152 psi by the jockey pump 2. If the system pressure drops to 135 (jockey pump can't keep up with the pressure drop) Fire Pump # 2 will start. It will run until it is manually shut off. 3. If Pump #2 cannot keep up with the pressure and it drops further to 125 psi, Fire Pump #1 will start. It will run until it is manually shut off.	Grounds	Fire Pump House #1
15236	Change wiring for dry room oxygen detector	Replace existing cable between O2 sensor and Beacon 200. Remove the existing Belden Cable between O2 meter 1 and 2, and the Beacon 200. Route new 18 gauge twisted cable and make connections to Beacon 200 and Sensor 1, Black wire to Signal, Red Wire to +, Connect shield to Ground terminal inside the Beacon 200, cut the shield at the sensor. Route new 18 gauge twisted cable and make connections to Beacon 200 and Sensor 2, Black wire to Signal, Red Wire to +, Connect shield to Ground terminal inside the Beacon 200, cut the shield at the sensor.  Install new CVS (constant voltage supply) in between CB9 and O2 meter receptacle, (the Breakers are already in place).	Current set up is giving erroneous alarms (O2 level indicates a drop of oxygen from 20.9% down to 13% and immediately back to 20.9%).	ISA-14 IFBA Processing	Inside and outside IFBA dry room
15237	Add basket duplex strainer to the chemical process water line on Conversion Line 1	Add basket duplex strainer to the chemical process water line on Conversion Line 1.	This CCF would add a strainer to make this line exactly like the rest of the lines.	ISA-03 ADU Conversion	Conversion Line 1



CCF No.	Title	Description	Justification	ISA ID	Location
15238	Calcliner Steam Blow-down 3-way Valve Test Rig	<p>New pressure decay test rigs will be added to the steam blow-down legs on ADU Conversion lines 1 thru 5.</p> <p>PM81824 will be changed to replace the valve removal and bench bubble test with a pressure decay test which can be completed with the valve in place. This effort will be completed separately and is not part of this CCF.</p> <p>This CCF covers Conversion Line 5 mechanical modifications only.</p>	<p>Adding a permanent pressure decay test rig to the blow-down line will eliminate having to remove the 3-way valve for bench testing which is time consuming and error-likely (installation of the valve in the proper orientation is critical).</p> <p>The 3-way valve is a passive engineered control tied to ADUCAL-919 that is meant to prevent valve alignment that would allow excessive air ingress or hydrogen escaping the Calcliner (ref. SSC Sketch 815417-4).</p>	ISA-03 ADU Conversion	ADU Conversion Line 5
15239	<p>Install flanges on unused section of Chilled Water Piping in UF6 bay.</p> <p>The section of pipe has been cut off and abandoned without a pipe cap.</p> <p>Isolate and cap chilled water tracing on Ammonia Hydroxide lines.</p>	<p>Install two flanges to allow for isolation of pipe by shut off valves. Remove some of piping to allow easy installation of flanges.</p> <p>Isolate and cap chilled water tracing on Ammonia Hydroxide lines in Conversion.</p>	<p>It is not good practice to leave section of pipe attached to a system without a pipe cap or a blind flange. If the valve would fail or be accidentally opened, chilled water would be pumped into the UF6 bay.</p> <p>Tracing is no longer needed due to ammonia chiller and heat exchangers on each line.</p>	ISA-03 ADU Conversion	<p>UF6 Bay by Line 5 over UF6 cylinder storage.</p> <p>ADU Conversion on ammonia hydroxide header that runs along isle by precipitators.</p>
15240	Re-pipe pH1009A on Ammonia Scrubber and add another pH probe / Transmitter	Re-pipe pH1009A on Ammonia Scrubber (S-1008) and add another pH Probe and Transmitter	<p>The piping will be changed to provide a better sampling position for the probes. The flowmeter will be relocated downstream of the probe, which will help keep the probe tip submerged and minimize bubbles in the the process stream (at the probe).</p> <p>This CCF will allow us to add another parallel sample stream with another pH probe and transmitter. The existing unit is obsolete and a replacement needs to be found. We will be running the new transmitter / probe in parallel with the existing pH probe (monitor only) to confirm its ability to perform in our environment. During this monitoring / testing we will be using a model 3900VP general purpose probe. If the 3900VP probe is deemed unsatisfactory we will replace with it with a more robust 389 (triple junction) probe and continue our testing. Once we have concluded our testing another CCF will be written to substitute the existing (obsolete probe) with the newer model.</p>	ISA-01 Plant Ventilation System	Below the Ammonia Fume Scrubber (S-1008) on the platform in the Scrap Cage in Conversion.
15241	Line 4 Calcliner/Scrubber Burner Management System Upgrades mechanical modifications	The Line 4 Calcliner Burner Upgrades will modify the calciner end plate with an internal shield that will allow Nitrogen purges, replace Natural Gas valves, remove vent valve XV409C, replace PSH409N/ PSL409N/PSL409D, remove cock valve/PSH-409A, install but not activate FIT-S-409-6, separate the XV-409G H2 vent/Natural Gas vent valve XV-409C piping, modify the Calcliner damper so that it can not close 100% and install a DI water U tube supplying the Scrubber.	Line 4 Calcliner/Burner Mechanical Upgrades are needed to meet fire protection requirements.	ISA-03 ADU Conversion	Line 4 Calcliner and Scrubber
15242	Modify Vaporizer's on Conversion Line 1	This CCF will allow Greg's to remove the brackets that hold down eye bolts on the vaporizer lids and field fit them to align properly. Also, Greg's will be adding an additional Jamesbury block valve to the steam supply lines to each vaporizer.	Field fitting the brackets will fix the mis-alignment issue that could possibly allow one of the eye bolts to slip out of place while tightening them down. Adding a second block valve to the steam supply lines will allow for double block to the vaporizers. Currently, there is only one valve holding back steam pressure while operators are working on a cylinder in the chest.	ISA-03 ADU Conversion	Conversion Line 1 Vaporizer's

CCF No.	Title	Description	Justification	ISA ID	Location
15244	Install Ventilation Vacuum Breaks Into Conversion Lines 2, 3, and 4's Vaporizers. This mod is identical to the modification made on Line 1 under CCF 15065.	This CCF would install a vacuum break inside the vaporizer vent tent's ventilation hose to prevent the hose from becoming vapor-locked and subsequently dropping contaminated condensate onto the top of the UF6 cylinder.	Prevent the spread of contamination on the UF6 cylinder and also provides ventilation in the top of the vent tent.	ISA-03 ADU Conversion	Conversion Lines 2, 3, and 4 Vaporizers
15245	Electrical Installation of 2 New Oxidation Ovens for URRS Scrap Recycling	<p>Replace two (2) Oxidation Ovens, Hoods, and Ductwork on URRS SOL-X platform. Remove and dispose of 3rd oven located on ground level below platform. The existing Criticality Safety Evaluations (CSE-19-A) will be used as the basis to implement the new system. Minor changes to the existing CSE will be required due to changes in oven configuration. No new HAZOP, LOPA, FFA or SRS will be required.</p> <p>This project will provide the following:</p> <ul style="list-style-type: none"> <li>-- Two oxidation ovens and hoods to replace existing in URRS.</li> <li>-- The ovens will be higher rated capacity (45kW) to handle higher moisture content URRS waste in the processing times required.</li> <li>-- Vertical oven doors to latest design.</li> <li>-- Ball screw lift tables to facilitate oven load/unload.</li> <li>-- Polypak vibrator/sifters.</li> <li>-- Empty oxidation pan storage rack and ventilated shelf for centrifuge pans.</li> </ul> <p>The hood for the ground floor oven will remain in place. The ducting for the ground floor hood will remain as well. This will continue to service waste removal via 55 gal drums. Existing drum roller pad will remain in current location.</p>	The existing oxidation ovens are over 30 years old and present a safety concern for the operators. The oven doors are swing-open type requiring manual operation that is difficult to complete safely through the hood. The new ovens have vertical doors that are operated remotely and do not require direct operator contact. This will improve safety and ergonomics with new oven doors and reduced heat exposure. System complexity will be reduced by new equipment (less maintenance, same OEM as other ovens, common spares).Continues a program of oven replacements by addressing the next oldest three in the plant.These are the last ovens in the plant with swing-type doors.	ISA-19 Hoods and Containment	Mezzanine Above SOLX Control Room
15246	Monitor for Gamma Scanner 4 Exit Table Pen Scanner	<p>Currently there is no monitor installed to verify and check reads of the barcode reader pen scanner on Gamma Scanner 4. The operator has to turn 180 degrees everytime a rod is scanned and look across the aisle at a monitor they can't read.</p> <p>This project will install a monitor in front of the pen reading station so the operator can read and verify the barcode reading.</p>	This is a top 5 safety and ergonomics issue and needs to be resolved.	ISA-10 ADU Rods	Off main mechanical area aisle way at Gamma Scanner 4.
15248	Hardwire Scrap Cage Gamma Monitor	Hardwire alarm and trip functions currently in the Scrap Cage Gamma Monitor PLC. The PLC will be removed during this effort.	PLC can fail and has to be monitored for health. A hardwired circuit is more reliable.	ISA-11 Scrap Uranium Processing	Location on top of control room.
15249	Erbia S1 Furnace Safety Rail	Design and install safety rail around top of furnace.	Currently, there is no safety rail or tie-off to be able to access the top of the ES1 Furnace. Consequently, scaffolding has to be erected to access the top of the furnace. Erecting the scaffolding is an expensive and time-consuming process. The new hand rails will allow safe access to the top end of the furnace without the need for scaffolding.	ISA-20 ERBIA	Erbia \ Sintering #1 Furnace
15250	Replace PDT-1081 with Rosemount 3051C Coplanar Pressure Transmitter.	Replace PDT-1081 with Rosemount 3051C Coplanar Pressure Transmitter. The new model number will be 3051C D1A22A2AB4M5.	PDT-1081 currently is a Rosemount 3051C Coplanar Pressure Transmitter. The new model number changes the differential pressure range from -1000 to 1000 inches H2O to 25 to 25 inches H2O. This will allow the transmitter to operate with a range capability that is close to the desired calibrated range.	ISA-07 Solvent Extraction	SOLX
15251	Line 9 - Addition of new Solenoid Valve, SV-Q15 to Activate Air Blow Off at Avis Station	A new solenoid valve will be added to control the air blow off at the AVIS station at Line 9	The air is constantly blowing and adding to the noise in the area. This solenoid will allow the air to blow only when the tube is in the AVIS station thus reducing the noise.	ISA-10 ADU Rods	Line 9 Tube Prep

CCF No.	Title	Description	Justification	ISA ID	Location
15252	BoatLoader #1 Electrical Upgrade	The scope of this project is to remove obsolete parts such as the Numalogic PLC and Parker Compumotor Drive and install a new Allen Bradley PLC control system to meet current plant standards.	Controls for the current BoatLoader 1 are obsolete. Some parts such as the Stepper motor Drive are also no longer available. Increased up time, ease of support (both internal and external), elimination of Obsolescence issues such as the Numalogics and Parker drive, reduced wiring due to Ethernet based system. The Allen Bradley controls platform will allow for future migration of the Pellet Press controls.	ISA-08 Pelleting	BoatLoader #1
15253	IFBA roughing pump replacement, VP-7096A	Replace the DK-200 with a SP-250 for Coater 5 rough pump "A"	Obsolete equipment - The DK-200 will no longer be sold. The SP-250 does not use oil for the vacuum seal.	ISA-14 IFBA Processing	IFBA/FA1
15254	Installation of Light in Rod Loading Box on Line 4	Install a Banner WLS28-2XW285SQ light on the rod loading box on line 4.	Since the box was enclosed with stainless steel instead of lexan, there is limited lighting for operators to work with. This light being installed will provide additional light.	ISA-10 ADU Rods	ADU Rod Line 4
15257	Hose reel for Sleeve Expansion Machine in CE Skeleton Area	Mount hose reel to I-beam utility raceway and connect to plant air for Sleeve Expansion Machine in CE Skeleton Area.	Provide better access to plant air supply.	ISA-17 Final Assembly	CE Skeleton Area on east side of granite table
15259	Ball Valve on Air Supply to P-1165A	Add a ball valve on the 1/4" air supply tubing to P-1165A air diaphragm pump in Waterglass.	Air supply to the pump is currently controlled using a gate valve that is in operators' "red zone" reach. This added valve would be in a safer position for operation.	ISA-15 URRS Wastewater Treatment System	URRS Outside - Waterglass Building
15262	Rod Weigh Control Additions	Add devices and modify PLC programming to accommodate operations requests. Add stacklights at the platform HMI to alert operators of a line stoppage due to bar code or scale read issues. Add a stacklight at QC Rod Soft Handling section B to alert operators when the four "red roller" conveyors are occupied for a length of time. Add an E-Stop pushbutton at both east and west sides of Soft Handling section A.	Requested by operations to minimize downtime, enhance operator controls and provide confirmation of proper rod alignment.	ISA-10 ADU Rods	Rod Weigh and Soft Handling downstream of Rod Weigh.
15267	Install electric hoists on two jib arms located in the autoclave room in the Met Lab.	There are two job arms in the autoclave room that are used to remove the heads of the autoclaves for sample loading/removal. These hoists are currently equipped with manual chain driven pulley systems. This project will govern the removal of the existing hoists and installation of two new electric hoists.	The current chain pulley system is cumbersome and presents a safety risk to those using the system.	ISA-18 Laboratories	Autoclave Room, MET Lab
15268	Remove three unused electrical switch boxes located on the side of the autoclave control unit.	Remove three unused electrical switch boxes located on the side of the autoclave control unit.	These boxes are partially wired but not in use. These boxes protrude into the work area and present a head bump safety issue.	ISA-18 Laboratories	Autoclave Room, MET Lab
15270	Replace Orange Pipe at Rod Weigh with Stainless Steel Pipe	Remove current orange pipe at rod weigh and replace it with a stainless steel pipe.	Remove potential for paint.	ISA-10 ADU Rods	Rod Weigh
15271	Line 3 Calciner/Scrubber Burner Management System Upgrades mechanical modifications	The Line 3 Calciner Burner Upgrades will modify the calciner end plate with an internal shield that will allow Nitrogen purges, replace Natural Gas valves, remove vent valve XV309C, replace PSH-309N/PSL-309N/PSL309D, remove cock valve/PSH-309A, install but not activate FIT-S-309-6, separate the XV-309G vent and Natural Gas vent valve XV-309C piping, modify the Calciner damper so it does not close 100 % and install a DI water U tube supplying the Scrubber.	Line 3 Calciner/Burner Mechanical Upgrades are a fire safety improvement.	ISA-03 ADU Conversion	Line 3 Calciner/Scrubber
15272	Line 1 Calciner/Scrubber Burner Management System Upgrades mechanical modifications	The Line 1 Calciner Burner Upgrades will modify the calciner end plate with an internal shield that will allow Nitrogen purges, replace Natural Gas valves, remove vent valve XV109C, replace PSH-109-1/PSL-109N, remove cock valve/PSH-109A, install but not activate FIT-S-109-6, replace PSL-109-3, separate the XV-109G vent and Natural Gas vent valve XV-109C piping, modify the Calciner damper so it does not close 100 % and install a DI water U tube supplying the Scrubber.	Line 1 Calciner/Burner Mechanical Upgrades are a fire safety improvement.	ISA-03 ADU Conversion	Line 1 Calciner/Scrubber

CCF No.	Title	Description	Justification	ISA ID	Location
15273	Calcliner Steam Blow-down 3-way Valve Test Rig (Line 4)	<p>New pressure decay test rigs will be added to the steam blow-down legs on ADU Conversion lines 1 thru 5.</p> <p>PM81824 will be changed to replace the valve removal and bench bubble test with a pressure decay test which can be completed with the valve in place. This effort will be completed separately and is not part of this CCF.</p> <p>This CCF covers Conversion Line 4 mechanical modifications only.</p>	<p>Adding a permanent pressure decay test rig to the blow-down line will eliminate having to remove the 3-way valve for bench testing which is time consuming and error-likely (installation of the valve in the proper orientation is critical).</p> <p>The 3-way valve is a passive engineered control tied to ADUCAL-919 that is meant to prevent valve alignment that would allow excessive air ingress or hydrogen escaping the Calcliner (ref. SSC Sketch 815417-4).</p>	ISA-03 ADU Conversion	ADU Conversion Line 4
15274	Calcliner Steam Blow-down 3-way Valve Test Rig (Line 3)	<p>New pressure decay test rigs will be added to the steam blow-down legs on ADU Conversion lines 1 thru 5.</p> <p>PM81824 will be changed to replace the valve removal and bench bubble test with a pressure decay test which can be completed with the valve in place. This effort will be completed separately and is not part of this CCF.</p> <p>This CCF covers Conversion Line 3 mechanical modifications only.</p>	<p>Adding a permanent pressure decay test rig to the blow-down line will eliminate having to remove the 3-way valve for bench testing which is time consuming and error-likely (installation of the valve in the proper orientation is critical).</p> <p>The 3-way valve is a passive engineered control tied to ADUCAL-919 that is meant to prevent valve alignment that would allow excessive air ingress or hydrogen escaping the Calcliner (ref. SSC Sketch 815417-4).</p>	ISA-03 ADU Conversion	ADU Conversion Line 3
15275	Calcliner Steam Blow-down 3-way Valve Test Rig (Line 2)	<p>New pressure decay test rigs will be added to the steam blow-down legs on ADU Conversion lines 1 thru 5.</p> <p>PM81824 will be changed to replace the valve removal and bench bubble test with a pressure decay test which can be completed with the valve in place. This effort will be completed separately and is not part of this CCF.</p> <p>This CCF covers Conversion Line 2 mechanical modifications only.</p>	<p>Adding a permanent pressure decay test rig to the blow-down line will eliminate having to remove the 3-way valve for bench testing which is time consuming and error-likely (installation of the valve in the proper orientation is critical).</p> <p>The 3-way valve is a passive engineered control tied to ADUCAL-919 that is meant to prevent valve alignment that would allow excessive air ingress or hydrogen escaping the Calcliner (ref. SSC Sketch 815417-4).</p>	ISA-03 ADU Conversion	ADU Conversion Line 2
15276	Calcliner Steam Blow-down 3-way Valve Test Rig (Line1)	<p>New pressure decay test rigs will be added to the steam blow-down legs on ADU Conversion lines 1 thru 5.</p> <p>PM81824 will be changed to replace the valve removal and bench bubble test with a pressure decay test which can be completed with the valve in place. This effort will be completed separately and is not part of this CCF.</p> <p>This CCF covers Conversion Line 1 mechanical modifications only.</p>	<p>Adding a permanent pressure decay test rig to the blow-down line will eliminate having to remove the 3-way valve for bench testing which is time consuming and error-likely (installation of the valve in the proper orientation is critical).</p> <p>The 3-way valve is a passive engineered control tied to ADUCAL-919 that is meant to prevent valve alignment that would allow excessive air ingress or hydrogen escaping the Calcliner (ref. SSC Sketch 815417-4).</p>	ISA-03 ADU Conversion	ADU Conversion Line 1
15278	Out Of Service V-700, V-701, P-700, P-701, Dike for V-700/V-701, Breathing Air Hose Reel Station 7 Demolition	V-700, V-701, P-700, P-701, Dike for V-700/V-701, Breathing Air Hose Reel Station 7 will be demolished to allow future replacement of URRS Ovens and Hoods equipment.	URRS Ovens and Hoods need to be replaced because they have reached the end of their service life. V-700, V-701, P-700, P-701, Dike for V-700/V-701, Breathing Air Hose Reel Station 7 need to be demolished to allow enough room to install replacement URRS Ovens and Hoods.	ISA-11 Scrap Uranium Processing	V-700, V-701, P-700, P-701, Dike for V-700/V-701
15279	ADU Line 4 Calcliner Safety Upgrades Phase 1	Install instrumentation and equipment related to the Line 4 Calcliner upgrades. In this first phase the burner gas train and flame management controls will be replaced with modern equivalents.	This work will help meet the plants Safety Life Cycle objectives and improve compliance with NFPA standards.	ISA-03 ADU Conversion	ADU Line 5 Calcliner

CCF No.	Title	Description	Justification	ISA ID	Location
15281	Removal of Ganesh VMC 2216 machining center	Disconnection and removal of the Ganesh VMC 2216 machining center from the tool room.  the machine is connected to DI water, Shop air, and power. During a review of the available drawings, the machine was only shown on the arrangement drawing. There were not utilities connections found. This CCF will only include the AR drawing update.	This machine has become a safety problem. It has crashed for unknown reasons and cannot be trusted to function reliably.	Grounds	Mechanical Side Tool Room
15282	Hot Water Flush Line to Waterglass Spiking Line	Add a water line from the existing water wash line for P-1160B, to the line from P-1163 to the top of T-1160B and C.	Waterglass spiking line gets constricted often with hardened sodium silicate, making it difficult to effectively spike plant waste.	ISA-15 URRS Wastewater Treatment System	URRS Outside/Waterglass
15283	Drip Pan under the ventilation duct from the Chem Lab Uranium Room Work Hood	Fabricate and install SS drip pans underneath a section of 10" duct that ventilates the work hood in the Chem Lab Uranium Room. This section of duct is located over a heavy traffic aisle and if a leak developed in this section of duct there exist the possibility of someone exposed to dripping acid. These pans will be inspected periodically for accumulation and cleaned out accordingly.	This section of ventilation duct has a history of leaks and drips. The existing ventilation duct will be replaced under another CCF, using an alternative material of construction, however these drip pans will remain in place to add another layer of protection.	ISA-01 Plant Ventilation System	Chemical Area / East end of the UF6 Bay
15287	Add Data and Phone Lines for Chemical Side Maintenance Mezzanine Area.	Add Data (4) and Phone Line (1) for Chemical Side Maintenance Mezzanine Area for new Mechanics huddle area. No electrical drawings will be affected. IT has been contacted and pull from location has been determined.	Add Data and Phone Lines for Chemical Side Maintenance Mezzanine Area for new Mechanics huddle area. This will be an area for input of work orders and meetings.	Grounds	Chemical side, above Technicians Shop.
15288	Scrap Cage Filter Press Cake Dissolver Nitric Acid and DI Water Orifice Plates	The nitric acid and DI water flows to the scrap cage filter press cake dissolver are currently restricted by orifice plates with 0.250-inch bore diameters. This CCF will allow the option of installing orifice plates with 0.125-inch, 0.188-inch, or 0.250-inch bore diameters. After a testing period to select the best option, the selected bore diameter will be recorded on the as-built drawing.	This is to address recent events, such as CAPAL issue # 100070844, in which the dissolver overflowed due to the addition of too much nitric acid. Restricting the input flows will allow the flow rates to be maintained within the operational ranges of the flowmeters, thus allowing the flowmeters to read more accurately and reducing the likelihood of an overflow and spill.	ISA-11 Scrap Uranium Processing	Scrap Cage Filter Press Cake Dissolver
15290	Outside URRS Maintenance Shop Awning Installation	Install a carport type shed in front of roll-up door at Outside URRS Maintenance Shop. Shed will be 10'x23'w with one extra 3' sheet of siding on each side. Shed will have 11' legs with inverted leg rails to allow walk through sides, with 12'2" at eave of gable end.	A carport type shed in front of roll-up door at Outside URRS Maintenance Shop will provide weather and sun protection as well as covered storage for equipment.	Grounds	Outside URRS Maintenance Shop
15291	New Office for the Project Storage Building	Install a four walled modular insulated office. Office construction will be 3" thick vinyl covered ½" gypsum walls and poly styrene core with 22ga corrugated roof deck. Inside will have a 2"x4" drop ceiling, lighting, door with window, 2 windows, breaker panel and 110v outlets. Heating and cooling will be provided by a thru the wall heating and air conditioning unit. An additional part of this expenditure is the service drop from the main building panel to the office panel.	The existing Plant Systems Engineering project storage building has no area climate control (heating or air conditioning)for personnel comfort. This project will install a heated and cooled portable office to house a desk, files, and necessary computer for the Project Storage Building Management.	Grounds	PSE Project Storage Building
15292	Re-Power Line 4 Conductivity Meter (CIT-S-401-1) used in SSC ADUVAP-904.	Move Power source from Line 4 Numa Logic PLC cabinet to a breaker in a power panel.	Numa Logic PLC cabinet will be removed and power is required for conductivity meter.	ISA-03 ADU Conversion	Conductivity Meter is located in UF6 Bay
15294	Add Profibus Communication to Common Services Main BPCS Rack	Install Profibus cards in Common Services Main BPCS Rack to allow communications to area PLCs.	Provide communications to PLCs which do not use Ethernet. Allow elimination of WW station in conversion control room.	ISA-03 ADU Conversion	Conversion Control Room
15297	Replace PLC with hardwired logic for SSC Vent-ADUBB-101 and Vent-ADUBB-114 for Bulk Blending Area DC-923 Torit.	Replace general purpose PLC logic with hardwired logic for SSC Vent-ADUBB-101 and Vent-ADUBB-114 .  Revision: Corrected wiring on drawing 348F03EL2-5 for the safety significant alarm horn circuits. The ITR has been revised to cover review of the modification.	General purpose PLC is not as reliable as hardwired logic.	ISA-01 Plant Ventilation System	PLC located near Bulk Blending

CCF No.	Title	Description	Justification	ISA ID	Location
15298	Replace PLC with hardwired logic for SSC Vent-ADUBB-101 and Vent-ADUBB-114 for Bulk Blending Area Vacuum System.	<p>Replace general purpose PLC logic with hardwired logic for SSC Vent-ADUBB-101 and Vent-ADUBB-114.</p> <p>Revision 1: Modified drawings 348F03EL26-1 and 348F03EL26-3 to add non-safety significant shutoff of the motor if high or high high level is reached.</p> <p>Revision 2: Added additional relay to interlock vacuum motor. Existing relay did not have available contacts. No safety significant controls are affected by this revision.</p>	General purpose PLC is not as reliable as hardwired logic.	ISA-01 Plant Ventilation System	PLC located near Bulk Blending
15300	Install new Scrap Cage Experion Rack	Add new Experion Rack to Scrap Cage area. No inputs or outputs will be added under this CCF. This CCF is for installation of hardware only.	Existing rack in Scrap Cage is almost full.	ISA-16 Nuclear Material Storage	In Scrap cage
15302	Add additional I/O cards to Common Services Roof Rack	Add additional I/O cards to Common Services Roof Rack to allow future I/O to be installed.	Allow process to be monitored by one interface Experion.	ISA-03 ADU Conversion	On Roof.
15303	Maintenance Flammable Liquid Storage Cabinet	Place a 45 gal capacity flammable liquid storage cabinet inside the Maintenance Tool Crib (Column 10 CC)	Maintenance need safe storage place for flammable liquids.	Grounds	Maintenance Tool Crib
15305	FC-716 Sludge Dryer Shelf	A shelf will be added to FC-716 Sludge Dryer to allow staging of two centrifuge bowls inside the enclosure.	This change will facilitate movement of processed scrap material though the SOL-X area.	ISA-19 Hoods and Containment	URRS Solvent Extraction Area
15306	Modify Swing Gates at Rod Weigh to eliminate safety concern	Weld the support for the swing gate to the stainless steel handrails at rod weigh A and B.	Greenbook 68659 was written with the concern of hurting your hand because of the bracket that is holding the swing gate is protruding above the hand rail. By welding the support plate to the hand rail, there will be no need for the bracket, therefore removing the safety hazard.	ISA-10 ADU Rods	Rod Weigh A and B
15307	Addition of Valve and Filter to Plant Air Line on ADU Rod Line 4	Addition of a valve and air filter to the plant air supply for ADU Rod line 4.	By adding the filter, it will catch any debris before the solenoid valve which has had a history of needing to be replaced due to debris buildup. The addition of the valve will allow for a shutoff spot ahead of the filter.	ISA-10 ADU Rods	ADU Rod Line 4
15308	Demo Obsolete Steam Lines at the 704/ 705 Blue M Ovens	Demo obsolete steam lines at the 704/ 705 Blue M Ovens. This line is a dead leg. The physical connections to the 704/ 705 Ovens have been terminated. The lines are capped in place.	One of the valves on the dead leg of piping is leaking condensate on the electrical components of the 705 Blue M Oven.	ISA-19 Hoods and Containment	SOLX
15309	Update Model Number on UN Bulk Tank High High Level Switches	Update Model Number on LSHH-1039, LSHH-1040, LSHH-1041, LSHH-1042, LSHH-1043, LSHH-1045.	Rosemount Analytical has changed the part number associated with the High High Level Switch used on the UN Bulk Storage Tanks. The actual switch has not changed mechanical or electrical properties.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage
15310	URRS Oxidation Pan Cooling Racks	Cooling racks will be added to new URRS Oxidation Ovens to facilitate movement of pans through the drying process.	New racks will allow smooth transfer of pans from lift table to either side, reducing the risk of spilling contents onto the hood floors and allowing for additional staging space for cooling.	ISA-19 Hoods and Containment	URRS Solvent Extraction Area
15312	EPA River Discharge T-1114 and T-1115 Controls Cutover	Relocation and upgrade of Tank T-1114 and T-1115 Controls to new system	Obsolescence and improved performance from newer controls	Grounds	Outside URRS - EPA Building and Infeeds
15313	EPA River Discharge T-1116 Controls Cutover	Relocation and upgrade of Tank T-1116 Controls to new system plus addition of Suspended Solids and related Process Monitoring Equipment	Obsolescence and improved performance from newer controls	Grounds	Outside URRS - EPA River Discharge
15314	Add I/O to Common Services BPCS	Add monitoring of P951 and P952 to Experion - Common Services BPCS.	Operations needs to know status of these pumps.	ISA-01 Plant Ventilation System	MCC behind Control Room
15317	Pellet Lines 1 and 2 Torit Dust Collection System SSC Alarm Panel power feed conduit relocation.	This project will reroute the 120VAC power feed wires and conduit for the Pellet Lines 1 and 2 Dust Collector SSC Alarm Panels located by Torit #1 and #2 to a higher location to allow for future clearance of equipment.	This conduit rerouting is required in order to be able to install the new Vacuum BoatLoader #1 PLC control cabinet.	ISA-08 Pelleting	Pellet Press 1

CCF No.	Title	Description	Justification	ISA ID	Location
15318	Update Model Number on Flow Transmitter for the V-707 Scrubber	Update Model Number on Flow Transmitter, FT-707.	The current flow transmitter has failed. Rosemount has introduced a D series versus a C series of the product line. The specifications are identical between the two flow meters and will be a like kind change in the field. The flow meter is to be replaced with Rosemount Model Number 8800D F020SA1N1D1E5	ISA-01 Plant Ventilation System	SOLX
15319	Tool Room Equipment Rearrangement	Connect Jet band saw Relocate the DoAll band saw near the OD grinder Disconnect the bead blaster from the existing dust collector servicing the grinders Relocate the deburr hood dust collector, connect to a new deburr hood and the bead blaster to the dust collector	Better use of floor space and preparation for removal of offices	Grounds	Mechanical side tool room
15320	Totalizer water meter for make up water to Equipment Room 3 Cooling Towers	This CCF will allow the installation of a totalizing flow meter on the process water make up line which supplies the Equipment Room #3 Cooling Towers.	This meter will allow data collection of process water required to operate Equipment Room #3 Cooling Towers.	Grounds	Roof, above equipment Room #3.
15321	Relocate ADU Pellet Stacking Hood	Relocate Hood to allow access to area for installation of new ADU Sintering Furnace Platform. New Hood location is underneath existing Mezzanine (beneath Thermal Stability Furnace). This will require re-piping of ventilation ductwork and HP vacuum sample piping, installation of new power connection and network connection. Existing scale will also require re-calibration	Existing area needs to be cleared for at least 3 weeks while new Sintering Furnace Platform is installed.	ISA-19 Hoods and Containment	Pelleting (Across Aisleway from Pellet Team Room)
15322	T-4 Recycle Line Valve Replacement	Replace existing globe valve on the recycle line of T-4 with a new ball valve.	Existing valve will not turn.	ISA-15 URRS Wastewater Treatment System	URRS/Tank Farm
15323	Change Covers at Rod Weigh from Nylon to Stainless Steel	Change material for the covers at Rod Weigh entrance from nylon to stainless steel.	The rods get hung up on the nylon material, so by going with stainless steel, the thought is they will be able to roll smoothly down the ramp.	ISA-10 ADU Rods	Rod Weigh
15324	Mechanical Seal for the City Water Booster Pump	The mechanical seal in the City Water #2 Booster Pump requires replacement. This CCF will allow the replacement of the obsolete Chesterton 123 mechanical cartridge seal with a Chesterton 155 mechanical cartridge seal. The seal faces on the obsolete unit are carbon running against ceramic. The seal faces on the new 155 are carbon against tungsten carbide. This 155 seal is a storeroom item and readily available.	The Chesterton 123 seal is obsolete and the 155 is the factory recommended replacement. Attached is a letter from our factory representative stating the 123 seal has been replaced by the 155. Also, a brochure on the Chesterton 155 is attached.	Grounds	Building and Grounds / City Water Booster Pump
15326	2B Hydrogen Valve Replacement	Replace 2B Hydrogen supply 1" globe valve with a 1" ball valve.  This is similar to change per CCF 15225 on the 1B furnace.	Old globe valve replaced with new valve that improves shut-off and meets FSS-003-44 requirements.	ISA-08 Pelleting	ADU Pelleting \ 2B Furnace
15327	Conversion Line 4 Condenser Drain Piping Changes	The line 4 conversion dryer off-gas condenser drain is currently routed to the V-412 tank. This CCF will re-route the drain to the V-420 tank.	Re-routing the drain to the 20 tank will allow the 12 tank to be taller when it is replaced later in the year.	ISA-03 ADU Conversion	Line 4 Conversion
15328	Modulating Valve on Deareator Tank DE-1188	The Fisher 171L modulating make up water valve on DE-1188 deareator tank for #2 North American Boiler is obsolete. This CCF will allow a Warren 326L be installed in place of the Fisher valve. Both valves are bronze construction and the Cv of both valves is 10.1.  Attached is a capacity chart for each valve.	The current Fisher valve is obsolete and not available.	Grounds	Boiler House 2
15329	1C Sintering Furnace Natural Gas Pressure Gage Change	Change the 1C furnace natural gas supply pressure gage to a gage with 0-250" H2O range.	The drawing currently calls for a natural gas supply gage range of 0-100" H2O. On the 1C furnace, the natural gas pressure is set greater than 100" H2O. The new gage has enough range to indicate the line pressure.	ISA-08 Pelleting	ADU Pelleting / 1C Sintering Furnace
15330	4A Sintering Furnace Natural Gas Pressure Gage Change	Change the 4A furnace natural gas supply pressure gage to a gage with 0-250" H2O range.	The drawing currently calls for a natural gas supply gage range of 0-100" H2O. On the 4A furnace, the natural gas pressure is set greater than 100" H2O. The new gage has enough range to indicate the line pressure.	ISA-08 Pelleting	ADU Pelleting / 4A Sintering Furnace

CCF No.	Title	Description	Justification	ISA ID	Location
15331	Modulating Valve on Deareator Tank DE-1157	The Fisher 171L modulating make up water valve on DE-1157 deareator tank for #1 North American Boiler is obsolete. This CCF will allow a Warren 326L be installed in place of the Fisher valve. Both valves are bronze construction and the Cv of both valves is 10.1. Attached is a capacity chart for each valve.	The current Fisher valve is obsolete and not available.	Grounds	Boiler House #2
15333	Modulating Valve on Deareator Tank DE-1139	The Fisher 171L modulating make up water valve on DE-1139 deareator tank for Power Master Boiler is obsolete. This CCF will allow a Warren 326L be installed in place of the Fisher valve. Both valves are bronze construction and the Cv of both valves is 10.1. Attached is a capacity chart for each valve.	The current Fisher valve is obsolete and not available.	Grounds	Boiler House #1
15335	Removal of Process Water Filters on Still 2	Removal of two cartridge filters on the process water feed to the Still 2 distillation column and flash tank.	The filters are a nuisance and freeze during the winter, and serve little purpose in filtering the water for this application.	Grounds	URRS/Still 2
15336	ADU Line 3 Calciner Safety Upgrades Phase 1	Install instrumentation and equipment related to the Line 3 Calciner upgrades. In this first phase the burner gas train and flame management controls will be replaced with modern equivalents.	This work will help meet the plants Safety Life Cycle objectives and improve compliance with NFPA standards.	ISA-03 ADU Conversion	ADU Line 3 Calciner
15337	ADU Line 1 Calciner Safety Upgrades Phase 1	Install instrumentation and equipment related to the Line 1 Calciner upgrades. In this first phase the burner gas train and flame management controls will be replaced with modern equivalents.	This work will help meet the plants Safety Life Cycle objectives and improve compliance with NFPA standards.	ISA-03 ADU Conversion	ADU Line 1 Calciner
15338	ERBIA Contractor Change Room Modification	Enclose shower and toilet area from break area. Install wall and door in the openings per drawing.	Restroom area is open to the break area causing complaints by workers on break. Resolve Green Book issue 64972	ISA-20 ERBIA	Contractor Men's Change Room
15341	Feed Bowl Pan Dumper Height Adjustment	Add shims for the Item 01 Speed Reducer and Item 05 Bearings as shown per the For Construction drawing's details, notes and BOM.  Add notes to the drawing to allow alternate shim construction materials.  Add increased tolerance to the Bearing Spacer width.	To enable height adjustment of the Pan Dumper(Item 06) to prevent the pan from contacting pellets after dumping into the bowl. Contact with the pellets can cause chipping of the pellets.  To allow use off 1" tubing for shims.  To allow Bearing Spacer shims of varying width.	ISA-08 Pelleting	ADU Pelleting \ Grinder Feed Bowls
15342	Replace obsolete actuated valve on Non-Fuel Leak Checker at the Backfill Chamber.	Replace obsolete rough pump isolation valve on Non-Fuel Leak Checker at the Backfill Chamber. Existing Jamesbury valve assembly (Valve #1AZ-36) will be replaced with a Jamesbury Valve Actuator Assembly (Valve #1AZ-3600 TTD). The new valve is the same as the old valve except for the mounting holes for the actuator. This has required a different Actuator to be installed as well. The new valve was in storeroom, however no cut sheet is available for the replacement valve (which may also be obsolete).	Replace obsolete unit.	Clean Side Rod Area	Non-Fuel Helium Leak Checker
15343	Line 5 Calciner Discharge Chute Level Transmitter Installation	A Level Transmitter needs to be installed on the Line 5 Calciner Discharge Chute in addition to the existing Bin O Matic level indicator.	The existing Bin O Matic level indicator does not provide the required level of safety to prevent a fire or explosion in the Calciner.	ISA-03 ADU Conversion	Line 5 Calciner Chute
15346	Replace discharge line on V-7157, and pipe repair.	Remove existing stainless steel line that connects V-7157 to V-7092 in the IFBA scrap area and replace with lined pipe (PVDF). Replace existing actuated Marpac valve with Jamesbury actuated valve. On the recirculation line going into V-7092 replace the welded manual valve with a flanged valve.	Current line is leaking. Material that runs through this line can potentially be 10% sulfuric acid and is corrosive to stainless steel. Lined pipe will resist corrosion better and withstand both the acid and the caustic required to treat the material from the acid stripping process. The Marpac actuator is leaking and the valve itself is obsolete. The Actuated Jamesbury valves are the standard used in previous IFBA scrap area upgrades. Valve on the recirculation line is leaking and obsolete.	ISA-14 IFBA Processing	Neutralization tank V-7157 in the IFBA scrap area



CCF No.	Title	Description	Justification	ISA ID	Location
15348	Komatsu Clamp Check Valve	The original Komatsu clamp check valve is now defective. There is no Komatsu clamp valve replacement due to the age of the Komatsu lift truck. There is no specifications that can be found on this valve.  A possible replacement valve has been identified - Parker check valve.	This check valve is needed in case there is a sudden loss of pressure the clamp holding a UF6 cylinder will not unclamp.	ISA-03 ADU Conversion	UF6 Pad
15349	Scrubber 4025 Pressure Switch Installation	Install a low/high pressure switch to detect the loss of ventilation on the plating room tanks. Interlock the tank heater controllers to disconnect power from the heaters on loss of, or low ventilation. Install one control panel for heater interlocks with a local alarm indication for high and low pressure.	When ventilation is lost or low the heaters continue to heat causing excess moisture in the plating room. Shutting the heaters off will prevent this condition. In addition the pressure switch will aid in determining other scrubber conditions such as clogged packing, or closed dampers.	Components	Plating Room and Mezzanine
15350	Mechanical clam shell to temporarily resolve a city water leak above the Strap Market	This CCF will allow the installation of a mechanical clam shell enclosure around a section of leaking city water pipe over the Strap Market.	This section of city water piping is severely degraded and this repair clamp will allow the area to operate until the pipe can be replaced during a planned Outage.	Grounds	Ceiling above the Strap Market
15352	Refurbishing Bldg Crane Remote Controller Installation	Install a 4 button Magnatek Flex EX4 Crane Remote controller system for Refurbishing Building crane.	Crane currently have an appendage controller that hangs from the crane to the operator on the floor. Remote system is more convenient and less of a hassle; therefore workers will be able to move material etc. more efficiently.	Grounds	Refurbishing Bldg
15355	Replace incinerator manual by-pass make-up water valve with Spring-Return valve	Replace incinerator manual by-pass make-up water valve with Spring-Return valve	To eliminate valve being left open and overflowing scrubber.	ISA-13 Low Level Radioactive Waste Processing	Incinerator room next to V-945. Ground level.
15356	Incinerator level control water flush	Connect water line to nozzle that level transmitter is mounted on. This will allow a continuous water flush to eliminate sediment on Level Transmitter.	Incinerator Absorber T-943B level transmitter will become blocked with material and will give false readings. The water flush will clear material without the need of removing the transmitter.	ISA-13 Low Level Radioactive Waste Processing	Incinerator Absorber
15357	15357 Safeguards	Address issues pertaining to Physical Security	Required Per 10 CFR2.390	Grounds	Inside
15358	Flammable Cabinet in MAP Furnace Area	This CCF will allow a flammable cabinet to be installed in the MAP Furnace Area. The cabinet measures 59" wide, 34" deep and 65" in height.	This cabinet will be used to store paint, floor epoxy, floor patching material, etc.	Grounds	MAP Furnace Area
15359	Remove cartridge filter	Remove cartridge filter and piping and replace with straight Kynar lined pipe.	Current piping has a high potential for leaks due to multiple fittings. The filter is not necessary (and currently has a leak) as the pump is capable of handling small particles and the discharge feeds the filter press.	ISA-14 IFBA Processing	IFBA acid stripping pump discharge
15362	Patriot Building Compressed Air Piping	Add compressed air piping inside the patriot building.	Currently small mobile air compressors are used to supply compressed air in the patriot building. The hoses and electrical cords are a safety hazard.	Grounds	Patriot Building
15363	ADU Rod Line 1 Girth Welder Rotation Motor Upgrade	Upgrade ADU Line 1 DC Motor used for Rotation of Girth Welder Chuck to Servo	DC motor controls are obsolete	ISA-10 ADU Rods	Chemical Side - ADUU Rod Lines
15364	Add Fiberglass Coating to Outside of Incinerator Filter Houses FL-948A/B in Penthouse	The integrity of the filter houses FL-948A/B for the incinerator ventilation has been compromised due to chloride stress corrosion cracking. It has been recommended by Mechanical Integrity that a fiberglass wrap be placed on the discharge side plenums of both filter houses as a temporary measure to maintain confinement and integrity.	Wrapping the plenums with a FRP (Derakane 470) will allow time to develop a long term replacement plan for the ventilation ductwork and filter houses. Derakane 470 will provide protection against chloride attacks and prevent additional corrosion cracking from developing. This same wrap was previously successfully applied to the ventilation ductwork and feed side plenums in the fall of 2014. See CCF 14476 for more information regarding the initial application.	ISA-01 Plant Ventilation System	URRS-Penthouse
15365	Install French Drain and Grading at Main Switchgear	Install a small capture basin and 12" X 12" drain to route water to the south side of main switchgear. Cut cement walkway and patch for 12" trench. Perform grading on the north side of the main switch gear to route water off of the main switchgear sidewalk. No soils will be removed from the site for this work, soils will be redistributed at the work location.	During heavy extended rainfall periods the existing grading and sidewalks allow water to gather beside the main switchgear and annex. Installation of the drain and grading will route water away from and around the building.	Grounds	Main Switchgear Building and Annex

CCF No.	Title	Description	Justification	ISA ID	Location
15366	Patriot Building AC Ladder Installation	Install safety yellow painted steel ladder with flared walk-thru top and hand rail to the roof. Also, install loaded gate that closes automatically. Designed to meet OSHA 1910.27 and ANSI A14.3 standards for fixed ladders. see attachments for details	Ladder is needed to safely gain access to the air handler for maintenance.	Grounds	Patriot Building
15367	G Section Inlet Elevator Cylinder Protective Boot	This Project is to install protective boots on the Kollmorgen electric cylinders on the Inlet Elevator cylinders on Gamma Scanners 3 and 4.	The new cylinders are experiencing accumulation of zirc fines on the shaft which is causing cylinders to time out and potentially wear out prematurely.	ISA-10 ADU Rods	Gamma Scanners 3 and 4 Inlet Elevators at G1 and G7 Soft Handling.
15368	Conversion Line 4 Condenser Drain Seal Tank Piping Modification	Install a blind flange on the seal tank overflow pipe.	Water splashes out the overflow pipe when the dryer dust collector is back pulsed with compressed air. The seal tank has a sight glass that can be checked to verify water is not backing up into the tank.	ISA-03 ADU Conversion	Chemical Conversion Line 4 beside the decanter.
15369	Activation of Line 2 Discharge Chute Level Transmitter Control.	The new discharge chute level transmitter was previously installed and has been under evaluation. With this CCF the switch will become active as a Safety Significant Control to prevent low powder level in the discharge chute that might cause a loss of the powder seal used to prevent air ingress.	Improvement to the reliability of the existing discharge chute control.	ISA-03 ADU Conversion	ADU Line 2 Calciner discharge chute.
15371	Relocation of Latch on Hot Oil Room Door	Relocate the existing latch on the hot oil room door from the top of the door to the bottom. SSC ADUHOS-405 is affected by this modification.	Currently the latch is positioned vertically and catches in a hole in the frame above the door. The catch often works itself loose. Relocating the latch to the bottom of the door and inverting it from its current position so the catch will now engage in a hole below the door will ensure the catch does not work itself loose.	ISA-03 ADU Conversion	Hot Oil Room
15373	Permanent installation of EPA River Discharge Program Loader	Install AB Program loader in an enclosed cabinet (which is replacing the existing "out of service" Old PLC Panel and relay panel located above), mounting monitor and keyboard to cabinet and provide power and network connectivity.	Need ability to locally monitor and make changes to EPA PLC, as needed.	Grounds	Outside URRS - EPA River Discharge Control Building
15374	Line 2 Roll Compactor Motor Replacement.	Replace the Reliance T16H4017M-TH DC motor with Reliance T18R1118 DC motor. Field-fit modification of the base plate to which the motor mounts will be necessary because no OEM or Westinghouse drawings on the motor mounting frame/base plate are available. Minor fit-up of the new motor per MCP-108139, Section 18, may also be required. No electrical changes are required to install the new motor.	The T16H4017M-TH DC motor is obsolete. The T18R1118 DC motor is the Reliance recommended replacement. The base plate will need to be lowered to accommodate the 1/2" base to shaft centerline height differential between the obsolete and new motor. The base plate mounting holes will need to be re-located to match the new motor foot print.	ISA-08 Pelleting	ADU Pelleting \ Line 2 Roll Compactor
15378	Stainless steel covers for walking beam lifts	Pre-fabbed slip on stainless steel cover to cover painted lift areas of walking beams on scanners 3 and 4.	Elimination of painted surfaces capable of transferring to rods.	ISA-10 ADU Rods	In feed walking beams at scanners 3 and 4 lifts G2 through G6.
15379	Modifications to Tumbler Blender Frame to Address Stress Issues	Stress fractures were found in the top front left corner of the tumbler along a previous repair line. The previous repair had excessive welding, leading to a further weakening of the structure and contributing to the new failure. A temporary weld repair was performed to allow continued operation. This CCF is being used to modify the area of concern by removing it and replacing it with new members designed to further strengthen the area.	This corner is a high stress area and has experienced multiple failures. These modifications will strengthen the area and reduce the likelihood of further failures.	ISA-05 ADU Bulk Powder Blending	Tumbler-Bulk Blending
15380	Main Switchgear Fire Alarm	Install a manual pull station and smoke detector in the Main Switchgear.	This is a normally unoccupied location but critical to the plant. The smoke detector will provide a early warning in the event of a fire. A manual pull station will provide workers quick access to emergency personnel in the event of an accident or emergency.	Grounds	Main Switchgear
15381	Revise Receptacle Connections and Lighting at Pellet Stacking Hood	After relocation of the pellet stacking hood it was observed that the lighting was less than in the original location. Additionally, it was observed that there are multiple drop cords with outlet strips connected. This work will add an overhead light and combine incoming power to provide existing outlets with a single feed.	Insufficient Lighting and Receptacle Clean-Up	ISA-08 Pelleting	Pelleting (Near Pelleting Team Room)

CCF No.	Title	Description	Justification	ISA ID	Location
15382	Coater 5, simplify argon gas flow	CCF13616 was installed on Coater 5 to give argon gas flow control on a per cathode basis. Using six Rota meters and six flow tubes control has been difficult to establish & maintain.  Simplify the same concept using two Rota-meters feeding two flow tubes each (one pair for upper cathodes, one pair for lower cathodes)	Existing set-up per CCF13616 is difficult to control	ISA-14 IFBA Processing	IFBA/FA1
15383	Re-wire the Airblast Compressor Start Control for Ammonium Sensor AIT-1116	Re-wire the Airblast Compressor Start Control. Currently, the run command comes from the EPA PLC. This will be changed so that the run command comes from AIT-1116 (Hach SC-100).	The SC-100 Controller has programmable functions and features that will be easier to adjust than the PLC. This change will stabilize the ammonium reading and give more accurate over time results.	Grounds	Outside URRS, River Discharge System, Round Tank T-1116
15384	Line 4 Calciner/Scrubber Fire Safety Upgrades Phase 2 mechanical modifications	<p>FT409DP will be replaced by FIT-S-409-2 Rosemount DP flow transmitter and a manual isolation valve that can be locked will be installed on the nitrogen line supplying PIT-S-409-1.</p> <p>FT-409E will be installed/activated on the primary nitrogen line going to the front end and FT409F will be installed/activated on the primary nitrogen line back end Line 4 Calciner Seals.</p> <p>XV-S-431-3 will be installed/activated on the inlet and XV-S-431-4 will be installed/activated on the outlet of HX-411. XV-S-431-5 and XV-S-431-6 will be installed on the air line supply to the Acid Wash Pump P-445 Wilden pump.</p> <p>PCV-409-D1 and magnetic flow meter FT431B will be installed/activated on the scrubber line supplying the top venturi spray nozzle at a location that will allow</p>	<p>We lack Defense in Depth in our Active Engineered Control system for Hydrogen and Nat. Gas deflagration mitigation. In some cases, Process and Safety instrumentation share the same hardware, where existing process instrumentation is being used for safety applications. Failure of this instrumentation could lead to a deflagration event. In other cases, we rely solely on Administrative Controls to mitigate Nat. Gas deflagration risks (e.g., ADUCAL-409: Air purge of Combustion Chamber).</p> <p>Modifications are being made to increase reliability of the existing safety interlocks and allow separation of the Basic Process Control System and Safety Integrated System.</p>	ISA-03 ADU Conversion	Line 4 Calciner/Scrubber
15385	Grid strap wash part substitution for solenoid due to obsolescence, Storeroom part#333024	Grid strap wash (Hermie) part substitution for solenoid due to obsolescence, Storeroom part#333024 was VXZ2350H-06N-5DZ1.	SMC part number VXZ2350H-06N-5DZ1 is obsolete and has been replaced by VXZ252JZ2AL. This CCF will allow us to use either model interchangeably.	Components	Grid Strap wash in Grid Area
15386	Grid strap wash part substitution for solenoid due to obsolescence, Storeroom part#333017	Grid strap wash (Hermie) part substitution for solenoid due to obsolescence, Storeroom part#333017 was VXZ2360H-10N-5DZ1.	SMC part number VXZ2360H-10N-5DZ1 is obsolete and has been replaced by VXZ262LZ2AG. This CCF will allow us to use either model interchangeably.	Components	Grid strap Wash in the grid area
15388	QC Rod Soft Handling Sensor Addition for Walking Beams A1 and A4.	Addition of new sensors at walking beams A1 and A4 to confirm proper alignment of rods at the 25th rod (complete batch) positions. The two existing sensors will be moved one position to the side to facilitate installation of the new sensors. Modify PLC programming to require confirmation of product at both sensing positions before subsequent movement can occur.	Requested by operations to minimize downtime by providing confirmation of proper rod alignment.	ISA-10 ADU Rods	Soft Handling walking beams between Rod Weigh and Helium Leak Check.

CCF No.	Title	Description	Justification	ISA ID	Location
15389	Replacing West and Sanitary Lagoons Gate with Rolling Gate to Facilitate West Lagoon Piping Modifications	Currently, the gate leading to the West and Sanitary Lagoons swings inward towards URRS. Due to piping modifications being made for transfers to the West Lagoons, a pipe rack support will be installed that obstructs the gate's ability to open. As a result, a new slide gate will be installed to still allow vehicle access to the lagoons as required.	New pipe supports are being installed near the current gate's path, inhibiting its ability to open all the way. This obstruction necessitates the installation of a new style of gate to still allow access to the West and Sanitary Lagoons.	Grounds	CAA Fence on West Side
15391	Scrap Cage Water Piping Modifications	<p>This CCF will modify the Conversion scrap cage water piping in the following ways to remove the backflow preventers RP-1058A and RP-1058B which are credited as SSC's ADUSCRP-147 and ADUSCRA-118. In addition to removing the backflow preventers, the following additional changes will be completed as part of this CCF to ensure no loss of backflow prevention. First, the supply to the S-1030 scrubber via scrubber sump tank V-1030G will be changed from DI water to process water. Second, the line break that was completed per CCF 14380 will be reversed. Third, a new permanent line break will be completed in another section of the DI water piping above the front end of line 5. Fourth, a section of DI water piping extending from the UF6 bay to the front end of line 5 will be removed. These changes will allow the DI water supply to the scrap cage to be protected by existing backflow preventers RP-1365A, RP-1365B, RP-1365C, and RP-1365D which are credited as SSC's ADUBFP-103 and ADUBFP-104.</p> <p>Backflow preventers RP-1365A, RP-1365B, RP-1365C, and RP-1365D in the DI water line and RP-03-07A and RP-03-07B in the process water line will need to be tested after construction is complete.</p> <p>Note that CCF was demoted to correct drawing 510F33PI09 sheet 1.</p>	Removal of backflow preventers RP-1058A and RP-1058B will eliminate an industrial safety hazard. Water spraying from these backflow preventers is a recurring issue, leading to possible slip and fall hazards as well as spray hazards for personnel in the area.	ISA-11 Scrap Uranium Processing	Conversion Scrap Cage
15392	Outside URRS T-1116 Area Electrical Heat Tracing	Modification and improvements to heat tracing circuitry near and around piping associated with River Discharge	Without proper heat tracing, pipes will freeze. Current configuration uses drop cords for connection of heat tracing. This work will address having adequate heat tracing and insuring that electrical connections meet plant standards.	Grounds	Outside URRS - Near T-1116
15393	Waterglass F-1168 end plate pinch point	The splash pan under F-1168 waterglass filter has a strip of metal that is a pinch point when removing the end plate. The splash pan end will be removed.	To eliminate the potential of smashing someone's finger.	ISA-15 URRS Wastewater Treatment System	End plate of F-1168 filter
15395	Addition of Filters to Pellet Area Thermal Stability Vacuum Pump P-2350	This CCF is intended to align current system configurations, specifically the thermal stability vacuum pumps with drawing 361F21PI01 Sheet 1 (Thermal Stability System A). The filter will be changed from a Parker-Balston to Agilent DS-602 exhaust oil filter. Additionally, an oil return kit (offered by the pump manufacturer Agilent Technologies) will be installed into the process.	The pump listed in drawings 361F21PI01 Sheet 1 (Welch Vacuum Pump) is not the one currently installed (Agilent DS-602). The filters currently installed are designed to handle pumping speeds up to 9 CFMs and the current pumps (DS-602) are rated to 17.6 CFM. The current filters have spilled oil into the surrounding areas.	ISA-08 Pelleting	Chemical - Pellet Area - Mezzanine - Thermal Stability Oven Systems A
15396	Remove double doors by APVIS.	Remove double doors by APVIS.	Doors are no longer used. They are left open and provide clutter in the aisle when transporting rods. The other end of the same wall has already had the doors removed.	ISA-14 IFBA Processing	Between Line 5 and APVIS
15397	Flammable Liquid Storage Cabinet in Maintenance Room on the Roof	This CCF will allow a flammable liquid storage cabinet to be installed in the Maintenance Room, located on the roof. The cabinet measures 22" high, 8" deep and 17" wide.	This cabinet will be used to store flammable liquids such as aerosol cans.	Grounds	Roof
15398	'2B Entrance Pusher Modification	Locate 2B Entrance Pusher Bar mounting holes as per the dimension "A" table on the For Construction drawing i.e. shift the mounting holes location over 1".	To better center the pusher bar on the boat. Currently, the pusher bar contacts and jams against the 2nd boat in the entrance pusher queue preventing operators from staging more than one boat on the entrance conveyor.	ISA-08 Pelleting	ADU Pelleting \ 2B Sintering Furnace
15399	Flammable Liquid Storage Cabinet in the ERBIA Drive Room on the roof	This CCF will allow a flammable liquid storage cabinet to be installed in the ERBIA Drive Room, located on the roof. The cabinet measures 22" high, 8" deep and 17" wide.	This cabinet will be used to store miscellaneous flammable liquids.	Grounds	Roof

CCF No.	Title	Description	Justification	ISA ID	Location
15400	Flammable Liquid Storage Cabinet in Equipment Room #3.	This CCF will allow a flammable liquid storage cabinet to be installed in Equipment Room #3. The cabinet measures 65" high, 18" deep and 43" wide.	This cabinet will be used to store miscellaneous flammable liquids. Since FER#13218 was conducted other controls are now included in the design that eliminate the need for spring open valves.	Grounds	Equipment Room #3
15401	Line 5 Calciner/Scrubber spring open valves replacement with lockable manual valves	<p>FER #13218 conducted in 2013 for the Calciner Safety Upgrades project included Action Item #9 to address potential risks of Nitrogen purge valves to the Scrubber being accidentally turned off and defeating SSC ADUSCR-904. The recommendation was to replace normally open valves that would potentially affect this SSC with spring-open, lockable valves. In addition, a spring-open lockable valve was installed on the nitrogen purge line entering the discharge end of the Line 2 Calciner. This valve is downstream of devices controlling SSC ADUCAL-902&amp;903.</p> <p>The spring-open valves are hard to operate/lock closed when interlock checks or scrubber rake outs are being conducted and a spring open valve recently failed resulting in a Redbook entry. The Calciner/Scrubber spring open valves will be replaced with lockable manual valves to avoid future Redbook entries/NRC reportable events and address issues Conversion Operations has with them.</p>	<p>Closure of a manual valve on the Calciner nitrogen purge line will not affect SSCs ADUCAL-902/903 because the upstream pressure transducer PIT-S-x09-1 and flow transducer FIT-S-x09-2 for SSC ADUCAL-902 and ADUCAL-903 will shut off hydrogen to the Calciner if Nitrogen pressure or flow is below setpoint.</p> <p>Conversion Operations will add an administrative procedure step to COP-811101 to add a lock to the replacement manual valve located between the Scrubber Off-gas Condenser and the Scrubber to prevent inadvertent closure of this valve. The Lock-out/Tag-out procedure CF-81-651 will also be changed accordingly.</p> <p>Conversion Operations will add an administrative procedure step to COP-811101 to add a lock to the replacement manual valve located between the Nitrogen supply and the Scrubber Off-gas Condenser to prevent inadvertent closure of this valve. The Lock-out/Tag-out procedure CF-81-651 will also be changed accordingly.</p>	ISA-03 ADU Conversion	Line 5 Calciner/Scrubber
15404	Modify Range of BPCS Level Transmitter LT-506A	Modify Range of BPCS Level Transmitter LT-506A from 0-220 inH2O to a Range of 0-243 inH2O.	This will align BPCS and Safety transmitter so they report similar values at full level in column. Currently there is a difference in % due to range differences and technology differences (mounting). Currently the BPCS transmitter will read 95% when the safety transmitter reads 85% this is causing confusion.	ISA-03 ADU Conversion	Line 5 V506
15405	Modify Range of BPCS Level Transmitter LT-106A	Modify Range of BPCS Level Transmitter LT-106A from 0-220 inH2O to a Range of 0-243 inH2O.	This will align BPCS and Safety transmitter so they report similar values at full level in column. Currently there is a difference in % due to range differences and technology differences (mounting). Currently the BPCS transmitter will read 95% when the safety transmitter reads 85% this is causing confusion.	ISA-03 ADU Conversion	Line 1 V106
15406	Modify Range of BPCS Level Transmitter LT-206A	Modify Range of BPCS Level Transmitter LT-206A from 0-220 inH2O to a Range of 0-243 inH2O.	This will align BPCS and Safety transmitter so they report similar values at full level in column. Currently there is a difference in % due to range differences and technology differences (mounting). Currently the BPCS transmitter will read 95% when the safety transmitter reads 85% this is causing confusion.	ISA-03 ADU Conversion	Line 2 V206
15407	Modify Range of BPCS Level Transmitter LT-306A	Modify Range of BPCS Level Transmitter LT-306A from 0-220 inH2O to a Range of 0-243 inH2O.	This will align BPCS and Safety transmitter so they report similar values at full level in column. Currently there is a difference in % due to range differences and technology differences (mounting). Currently the BPCS transmitter will read 95% when the safety transmitter reads 85% this is causing confusion.	ISA-03 ADU Conversion	Line 3 V306

CCF No.	Title	Description	Justification	ISA ID	Location
15408	Modify Range of BPCS Level Transmitter LT-406A	Modify Range of BPCS Level Transmitter LT-406A from 0-220 inH2O to a Range of 0-243 inH2O.	This will align BPCS and Safety transmitter so they report similar values at full level in column. Currently there is a difference in % due to range differences and technology differences (mounting). Currently the BPCS transmitter will read 95% when the safety transmitter reads 85% this is causing confusion.	ISA-03 ADU Conversion	Line 4 V406
15410	Step off pad installation in Met lab Pellet Room	Make proper modifications to the Metallurgical lab pellet lab to allow for a bench and coat hanger and other equipment necessary for a step off pad. Modifications include removing a temporary wall, relocating tables and other equipment, relocating electrical and network connections as necessary and installing a bench, and storage for shoes and lab coats.	These modifications are being performed so that the process of changing shoes or putting on shoe covers can be a safer process.	ISA-18 Laboratories	Pellet lab
15411	Removal of Old Floor Tile in the Mass Spectrometer Area of the Chem Lab	Remove multiple layers of old floor tile in the Mass Spectrometer Area of the Chem Lab, leaving the base concrete floor exposed. Note: the bottom layer of flooring has been confirmed to contain asbestos. This work will be performed by a licensed asbestos abatement contractor. Approval is requested to make the following changes in IFBA. The purpose of these changes is to eliminate potential for fuel rods to have paint rubbed onto them if they contact painted surfaces near to where they are handled by changing those surfaces to stainless steel.	To reduce the risk of asbestos exposure.	ISA-18 Laboratories	Chem Lab
15412	Eliminate painted surfaces near rod handling equipment.	1) Replace a painted mild steel guard rail with an unpainted stainless steel guard rail of identical dimensions. This guard rail is not shown on drawing 500F08AR01, which covers the area it resides. It is located near to the Vacuum System P-9600 which is shown on drawing. 2) Cover a painted mild steel bollard with a HDPE bollard cover. This bollard is not shown on drawing 500F08AR02, which covers the area of the facility the bollard resides. It is located near to the water fountain. 3) Wrap the front and sides of Passive Gamma Scanner Panel #1 (equipment number STA 9615) with stainless steel. This panel is not shown on drawing 500F08AR02, which covers the area of the facility the panel resides. The steel shall be secured to the panel by adhesive	Paint has been rubbed onto rods causing quality issues.	ISA-12 IFBA Fuel Rod Manufacturing	Near the IFBA Gamma Scanner where rods are loaded and unloaded.
15413	Replacement of existing PVC piping and valving associated with sampling for T-1115 and T-1116	PVC pipe and valve replacement due to deteriorating conditions	sagging pipes and other deterioration	Grounds	Outside URRS - EPA Building Area
15415	Pellet Line #6 VH-2316 and ERBIA Manufacturing VH-9265 Centrifuge Hood Modification	Modify centrifuge hood by installing a cover made out of the same material (SS). The cover is to be installed in the front opening of centrifuge hood/wall as specified on 376F06EQ06 and 383F10EQ09 drawings. This modification is necessary to protect the centrifuges from external interferences such as carts in the area.	Front side of both centrifuges is outside of hood (opening) causing it to interfere with carts on the area, and as a result certain parts of the centrifuges are getting damaged.	ISA-19 Hoods and Containment	Centrifuge PLN6 and ERBIA Manufacturing Scrap Recovery
15416	Revise ADU Calciner Trunnion Roller Drawing 360F09EQ08 (sheets 1,2)	Revise ADU Calciner Trunnion Roller Drawing 360F09EQ08 (sheets 1,2). This will reflect current manufacturing. Sheets 3 and 4 can be deleted.	Revise ADU Calciner Trunnion Roller Drawing 360F09EQ08 (sheets 1,2). This will reflect current plan to delete the repair versions, since life span of the rollers is more than 10 years. Sheets 3 and 4 can be deleted, since that was for prior calciner design - no longer exists.	ISA-03 ADU Conversion	Conversion / ADU Calciner
15417	Resurface Conversion Line 5 And Map Breezeway floors	Resurface Conversion Line 5 And Map breezeway floors, install temporary plastic sheeting to keep airborne down. sheeting will be removed after grinding is complete.	To repair uneven and chipping in floors.	ISA-03 ADU Conversion	line 5 aisle way and map breezeway

CCF No.	Title	Description	Justification	ISA ID	Location
15418	Replace Lexan Cover with a Stainless Steel Flange on the T-1045 Manway	Replace Lexan Cover with a stainless steel flange on the 6" flanged nozzle port on the manway on top of T-1045	<p>The lexan cover and the 6" nozzle do not form an adequate chemical seal. The port should have a stainless steel flange on it instead so that a gortex gasket can be used and it can be adequately torqued in place.</p> <p>The lexan cover was intended to be used as a sight glass, however due to the nature of the contents in the vessel, the lexan does not stay transparent enough to be effective. None of the other UN tanks have a sight glass like this one.</p>	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage
15421	Demo Laser Tooling Carousel	Demo existing Laser Tooling Carousel in the Grid Area. The western carousel will be removed and disposed of. The eastern carousel will remain in operation.	Failure beyond economical repair.	Components	Laser grid area in southwest corner
15423	ADU Line 4 Calciner Safety Upgrades Phase II	Install instrumentation and equipment related to the Line 4 Calciner and Scrubber upgrades. In this second phase devices will be added to the hydrogen, nitrogen, and steam control systems for the calciner and scrubber.	The addition of these controls will provide defense-in-depth in the active engineered control systems for hydrogen deflagration mitigation. This will also help meet the plant Safety Life Cycle objectives and improve compliance with NFPA standards.	ISA-03 ADU Conversion	ADU Line 4 Calciner and Scrubber
15424	Final Assembly Loader #1 Strongback sensor and program change	This project is for Strongback #1 and will replace the normally closed (NC) proximity switch for the Bottom End Fixture to a normally open (NO)_ and associated program changes.	This is in response to Issue Number 100320087.	ISA-17 Final Assembly	Final Assembly
15426	Fire Tank #1 Auto maintain Fill Loop	Currently, fire loop water is used as the supply for the auto maintain fill system on Fire Tank #1. This CCF will allow the fire loop water to be disconnected and a city water line will be used as the new source for the auto maintain fill system.	It is not good practice to use the fire water loop to maintain water level in the Fire Water Tank. Note, this is not the primary means of filling the Fire Water Tank. This auto fill loop is only used to maintain the level in the Fire Water Tank between 27.14 feet and 29.45 feet.	Grounds	Fire Pump House #1
15429	Connect dust collection on a bench grinder in the controlled side tool room	<p>It is desired to connect dust collection to the Powermatic bench grinder in the controlled side tool room. Upon inspection of the equipment, the equipment has a built in dust collection system that is not functioning. The intent is to repair or replace this dust collection to make it functional.</p> <p>Since any system that moves a volume of air in the controlled side of the plant is a potential airborne concern and this equipment is in the controlled side tool room, this CCF is being written to allow a review of the case prior to connection of the system.</p> <p>Uranium bearing material is by definition not permitted in the controlled side tool room so airborne contamination should not be a problem.</p>	The grinder does generate dust that is a concern for tool makers in the area. A functional dust collection system for the grinder is needed.	Grounds	Controlled Side Tool Room
15431	Badge reader door lock for CFFF Metallurgical Lab door.	A contract lock company is being contracted to install an electric badge scanning door lock for restricted entry into the operating Met Lab.	Unauthorized personnel and the public in general tend to wander in to the lab while hazardous operations are taking place (mixing of acids, cutting of metal, operating of high pressure vessels, etc.). These personnel often are not wearing the proper PPE and could possibly pose a hazard to lab personnel performing sensitive operations.	ISA-18 Laboratories	The lock will be installed on the Met Lab's front door.

CCF No.	Title	Description	Justification	ISA ID	Location
15433	Erbia Dewax #2 Cooling Water Strainer Replacement	Replace the Dewax #2 cooling water strainer. The 1-1/2", Hayward Model No. 51, carbon steel strainer will be replaced with a 1", Eaton Model No. 53BTX, stainless steel strainer(same strainer used on the ADU furnaces). Information on the new strainer is attached. The cooling water pipe reduction from 1-1/2" to 1" will occur before the strainer instead of after the strainer.	The Hayward Model No. 51 strainer needs to be replaced due to corrosion. However, the Model No. 51 strainer is obsolete. The Eaton(formally Hayward) Model No. 53BTX is the OEM recommended replacement. A 1-1/2", Model No. 53BTX strainer will not fit into the same envelope as the old strainer. Therefore, the strainer size is being reduced from 1-1/2" to 1" to fit in the old strainer envelope. The 1" strainer is capable of handling the range of flow(0-10 GPM) required for the furnace. This will also standardize the strainer with the ADU cooling water strainers. The strainer body is being changed from carbon steel to stainless steel to prolong life. The cooling water pipe reduction relocation is required to facilitate installation of the 1" strainer.	ISA-20 ERBIA	Erbia Area \ Dewax #2 Furnace
15434	Add Blue M Oven # 1 Heating Element Cover	Add a cover for the heating element on Blue M Oven # 1. Also add an expanded metal guard around the cover for personnel protection from the heated surface. The details on the packing to be used for the gasket for the flanged cover are shown in the manufacturer's documentation which is attached.	The purpose of the cover is to minimize fuming to the area.	ISA-19 Hoods and Containment	Blue M Oven # 1
15435	Add Blue M Oven # 2 Heating Element Cover	Add a cover for the heating element on Blue M Oven # 2. Also add an expanded metal guard around the cover for personnel protection from the heated surface. The details on the packing to be used for the gasket for the flanged cover are shown in the manufacturer's documentation which is attached.	The purpose of the cover is to minimize fuming to the area.	ISA-19 Hoods and Containment	Blue M Oven # 2
15436	ADU Maxon Valve Access Panel Modification	Change the furnace Maxon valve access panels from carbon steel to 1/4" Lexan. Add a cut-out in the Maxon Valve access panel. Ref. CCF 14408, MISCELLANEOUS, Part 5 for similar change implemented on the 2B furnace.  Note that the panel location/size varies on every line. Therefore, all panels will be field measured to match the OEM panels. There are no Westinghouse drawings for the furnace panels. For reference, a sketch of a typical panel is attached.  The panel replacement will occur on all furnaces during the October outage.	To provide easy viewing of the Maxon valve indicator state. The cut-out in the Maxon valve access panel will provide easier access to the Maxon valve handle.	ISA-08 Pelleting	ADU Pelleting / 1A - C, 2A, 2C, 3A - C, 4A - C, 5A & 5B Sintering Furnaces.
15438	Pressure Regulator for Jockey Pump	A pressure regulator will be installed on the suction piping on P-8206.	This pressure regulator is required to reduce the City Water pressure on the suction piping for Jockey Pump P-8206.	Grounds	Fire Pump House #1
15441	UT2 Control Box Cover	Stainless cover to cover painted surfaces on control box. The current unit has failed and a replacement has been ordered but is still weeks away.	To eliminate painted surfaces near fuel rods.	ISA-10 ADU Rods	UT2 Rod inspection
15442	HF Tank High Level Switch Replacement	The current switch was replaced in December 2013 (see CCF 13661). The switch was replaced, due to an ergonomic issue (safety), with a longer probe. We still have the previous style (shorter length) in stock.	Due to our pressing need to use the HF tank this CCF is being written to allow us to use the previous style switch until the longer probe becomes available.	ISA-06 Chemicals Receipt, Handling and Storage	HF Tank Outside by the DI Water Building
15443	Modify lower cathode shields	Modify lower cathode shields to make them interchangeable between all coaters.	Process Improvement	ISA-12 IFBA Fuel Rod Manufacturing	IFBA /FA1
15445	Temporary installation/removal of plastic sheet on ADU rod lines.	After all rods have been removed from the lines, install fire retardant plastic sheeting over ADU rod lines 1-4, or any subset thereof, to complete work overhead. Remove plastic once all overhead work is complete.	Required by CSE-99-G	ISA-10 ADU Rods	ADU Rod Area
15446	CE Skeleton Welding Vacuum LED lighting	Drawing 453F04EL01, sheet 201 Wire the vacuum chamber internal LED lighting to series/parallel arrangement per electrical drawing	Changing the LED lighting fixture wiring from series to series/parallel	ISA-17 Final Assembly	CE Skeleton expansion area



CCF No.	Title	Description	Justification	ISA ID	Location
15447	Addition of drag chain conveyor disconnect in series to current disconnect	This CCF serves to add a second disconnect for the drag chain conveyor on the new stainless steel panel.	Greenbook 68580 was written on the location of the electrical panel disconnect being difficult to reach ergonomically. By adding a second disconnect in series, this will allow a lockout point in the ergonomic green zone.	ISA-10 ADU Rods	Drag Chain Conveyor
15448	ADU Pelleting Central Vacuum Canister Cloth Vacuum Bag Replacement	Replace the 361F14HV01, Item 25 cloth vacuum bag with a metal, wire mesh basket per the For Construction Drawing.	The Item 25, Royal Appliance, Style J, P/N 2041140000 Cloth Vacuum bag is obsolete. The mesh basket will provide support for the Item 24 paper bag and allow sufficient flow thru the bag while preventing the bag from tearing from the powder weight.	ISA-08 Pelleting	ADU Pelleting / Line 1 - 5 Central Vacuum Systems
15455	Line 1 Pellet Grinder Exit Conveyor Belt Design Try-out(DTO)	The 361F08EQ38, Item 46 belt, used to convey pellets from the Grinder exit wet conveyor to the pellet tray, is a Habasit R-5, 5 mm OD, belt made from thermoplastic polyurethane (TPU) - the belt specifications are attached. A Dura-belt 88A, 5 mm OD, belt made from the same material(TPU) re-enforced with an interior polyester cord will be tried out on Line 1 - the belt specifications are attached.	The polyester re-enforcement should reduce belt stretching and extend belt life.	ISA-08 Pelleting	ADU Pelleting \ Line 1 Grinder
15456	Mezzanine Structure for Tooling Offices	Install structural framing for mezzanine to support installation of offices for Tooling personnel above sleeve slotter area. This scope will include installation of columns and beams for structure and lighting for lower level. Decking and office enclosure will be a separate CCF.	Part of SU Grid Line Expansion Project. Tooling personnel offices being relocated to free up manufacturing floor space.	Clean Side Rod Area	In tooling/component area on mechanical side
15460	Bracing for HF Spiking Station #1	Install braces to support piping system in HF Spiking Station #1. Install strip of sheet metal to secure plate as necessary.	To add stability to the piping and pump systems for HF Spiking Station 1.	ISA-03 ADU Conversion	Spiking Station #1
15462	Reroute/relocate/replace electrical raceway(s) as needed serving Sleeve Slotlers, Dog-bone Press, Nozzle Assembly Fixture, and a Crane Disconnect Switch, etc.	As part of the South Ukraine Grid Expansion Project, we will be installing a new steel mezzanine structure with an elevated modular office in the tooling/non-fuel/grid area above the equipment located between columns 13-14 and A-B.  There are some existing utility raceways serving the equipment in this area that will interfere with the new steel structure. This CCF will be used to document rerouting/relocating/replacing of the raceway(s).  No SSCs are affected.  The circuit(s) feeding the equipment will not change.	To make room for new steel mezzanine structure.	Grounds	Tool Room/Non-Fuel between columns 13-14 and A-B.
15463	Addition of Filter to Pellet Area Thermal Stability Vacuum Pump P-2360	This CCF is intended to align current system configurations, specifically the thermal stability vacuum pump P-2360 with drawing 361F21PI02 Sheet 1 (Thermal Stability System B). The filter for the pump is being changed from a Parker-Balston filter to the Agilent DS-602 exhaust oil filter. Additionally, an oil return kit (offered by the pump manufacturer Agilent Technologies) is being added.	The pump listed on drawing 361F21PI02 Sheet 1 (Welch Vacuum Pump) is not the one currently installed (Agilent DS-602). The filter currently installed is designed to handle pumping speeds up to 9 CFMs but the current pump (DS-602) is rated to 17.6 CFM. The current filter have spilled oil into the surrounding areas.	ISA-08 Pelleting	Chemical-Pellet Area-Mezzanine-Thermal Stability Oven System B
15465	Replacement of Ceiling Tiles above Line 8 for Noise Reduction	Install "Clean Room Class 10M-100M Panels" in area above Line 8. CCF to allow for current tiles and new tiles to both be present in the area. Cut sheet attached.	Ceiling tile replacement is to reduce the noise in the area.	ISA-10 ADU Rods	Tube Prep Line 8
15469	G3-H1 Crane Transfer Fix	Add switches and change the logic so that when one trolley-hoist visits another bridge, the home trolley-hoist will become fully disabled.	This fix will prevent a recurrence of and accident when two trolley-hoist were unknowingly operational on the same bridge.	ISA-17 Final Assembly	CFFF, Mechanical Area, Final Inspection/Packing, G3 & H1 Bridge Cranes
15470	Final Assembly Loader #2 Strongback Sensor and program change	This project is for Strongback #2 and will replace the normally closed (NC) proximity switch for the Bottom end fixture to a normally open (NO) and associated program changes.	This is an extent of condition response to Issue Number 100320087.	ISA-17 Final Assembly	Final Assembly
15471	Final Assembly Loader #4 Strongback Sensor and program change	This project is for Strongback #4 and will replace the normally closed (NC) proximity switch for the Bottom end fixture to a normally open (NO) and associated program changes.	This is an extent of condition response to Issue Number 100320087.	ISA-17 Final Assembly	Final Assembly

CCF No.	Title	Description	Justification	ISA ID	Location
15472	Final Assembly Loader #6 Strongback Sensor and program change	This project is for Strongback #6 and will replace the normally closed (NC) proximity switch for the Bottom end fixture to a normally open (NO) and associated program changes.	This is an extent of condition response to Issue Number 100320087.	ISA-17 Final Assembly	Final Assembly
15474	Remove Lexan Cover from Pass-Through Window by Line 4	Remove the lexan cover that is at the window by Line 4 in ADU rods. This lexan cover is on the chemical side of the wall and always remains in the open position.	Lexan cover is not used and it was mentioned as a potential FME concern with dust and grime getting trapped between the wall and the cover.	ISA-10 ADU Rods	ADU Rod Line 4
15477	Scrap Area hood flow sensor relocation	Relocate flow sensors below the dampers for rod dump hood, scrap lathe, and rod to tube transfer. Correcting field to match drawing.	So that proper flow can be detected and drawings accurate.	ISA-10 ADU Rods	ADU Scrap hood, ADU Scrap lathe, and Rod to tube transfer
15496	Replace area lighting at Hydrogen tank with Hazardous Location LED lighting fixtures	Replace area lighting at Hydrogen tank (2 light fixtures on 1 pole). The replacement fixtures will be Hazardous Location LED lighting fixtures class1 Div2)	Other electrical fixtures and conduit in the area have been changed to hazardous location rating.	Grounds	Lighting pole near the hydrogen tank, at the tank farm.
15497	Upgrade to Final Assembly Rinse Tanks	<p>Both mechanical components and electrical controls for the Final Assembly Rinse Tanks have degraded. This CCF will cover electrical controls changes and mechanical changes to make the system safe, more reliable, and more robust. An overview of the changes include:</p> <p>Mechanical</p> <ul style="list-style-type: none"> <li>- Add two (2) main steam supply automatic shutoff valves downstream of regulator.</li> <li>- Remove bypass around steam pressure regulator.</li> <li>- Add two (2) steam pressure switches downstream of regulator.</li> <li>- Add one (1) steam pressure relief valve downstream of shutoff valves that will be a Safety Significant Control , FA-605</li> <li>- Correct orientation of level switch and temperature sensor on Rinse Tank 1 by relocating the level switch above temperature sensor.</li> <li>- Add one (1) low-low level switch to each tank.</li> <li>- Relocate temperature and level sensor nozzles on Rinse Tank 1.</li> <li>- Add one thermowell in the cleanout hatch near the bottom for each Rinse Tank.</li> <li>- Remove solenoid valves for DI water makeup</li> </ul> <p>Electrical</p> <ul style="list-style-type: none"> <li>- Provide wiring and connections for two (2) main steam supply shutoff valves.</li> <li>- Add a SIL2 Safety Significant Control, FA-607, to safeguard against high tank temperature or low-low level exposing the temperature probe by closing both main steam supply shutoff valves.</li> <li>- Replace the existing RTD with a dual element RTD. One element will be used for safety and one element will be used for process.</li> <li>- Add a SIL1 Safety Significant Control, FA-606, to safeguard against high pressure by</li> </ul>	The existing instrumentation and controls and some mechanical components have degraded.	ISA-17 Final Assembly	Final Assembly Rinse Tanks
15498	Demo Panel and electrical equipment For Wash and Rinse Tanks	Remove the electrical for existing Wash Tank including control panel, level switches, temperature elements, and power feed to control panel.	The wash tank controls are degraded and require replacement.	ISA-17 Final Assembly	Final Assembly Wash Tanks
15499	Upgrade Rinse Tank Pump Control Panel	Install a new rinse pump tank control panel with runs status lights and estop	The Disconnect is broken on the existing panel and pumps require status lights and estop controls	ISA-17 Final Assembly	Wash Tanks

CCF No.	Title	Description	Justification	ISA ID	Location
15500	Central Vacuum Silencer Replacement	Replace the 361F14HV01, Item 13, Silencer(s) with a Universal AET, Model URB 2-1/2, P/N 55-125-AA-TT Silencer(specifications attached) as needed.	The drawing currently does not specify the Silencer model and part number. Line 2 - 5 has an obsolete Universal Model UR 2-1/2" Silencer installed. Line 1 has a Donaldson Model BXU025107F0 Silencer installed. The Universal AET, Model URB 2-1/2, P/N 55-125-AA-TT Silencer is the OEM replacement for the UR 2-1/2" Silencer. Per the manufacturer, The URB family was meant as the modern replacement for the UR family of products. The acoustic performance curves are virtually identical. The obsolete UR models differed from the URB only with their paint. The URBs are painted with primer which is rated to 325 F. The URs were painted with a high temp. coating because they were sometimes used on engine exhausts in addition to blower outlets. This silencer has a 10" I.D. per the attached OEM drawing. The Universal URB 2-1/2" Silencer is also an equivalent replacement for the Donaldson Silencer.	ISA-01 Plant Ventilation System	ADU Pelleting \ Line 1 - 5 Central Vacuum System.
15501	Polycarbonate Sheets on the Inside of the Windows in the 2nd Floor Office Area	This CCF will allow ¼ polycarbonate sheeting to be installed on the inside of some of the 2nd floor office area windows. This sheeting is temporary and will be removed once the outside soffit has been repaired / replaced.	Some of the hangers / supports for the outside soffit of the 2nd floor office area have failed. This soffit, which is wire reinforced cement plaster has separated in places and could possibly fall and contact the outside of the office windows. This polycarbonate sheeting will prevent any broken glass from entering the office area if an outside window is broken by the degraded soffit.	Grounds	2nd Floor Office Area
15504	Install new Cross bracing on DC-DC-923	Install new 2.5" X 2.5" X 3/16" cross bracing on DC 923 support legs.	The existing bracing will interfere with testing and installation of new fork level switches.	ISA-05 ADU Bulk Powder Blending	Dust collector located outside of bulk blending entrance door.
15505	Relocation of spring sensor bracket on rod line 4	Mount new sensor and bracket to the plugger frame	Move the sensor to a better location to eliminate the possibility of plugging a rod with no spring	ISA-10 ADU Rods	ADU rod line 4
15508	Relocation of spring sensor bracket on rod line 3	Mount new sensor and bracket to the plugger frame	Move the sensor to a better location to eliminate the possibility of plugging a rod with no spring	ISA-10 ADU Rods	ADU rod line 3
15509	Relocation of spring sensor bracket on rod line 2	Mount new sensor and bracket to the plugger frame	Move the sensor to a better location to eliminate the possibility of plugging a rod with no spring	ISA-10 ADU Rods	ADU rod line 2
15510	Relocation of spring sensor bracket on rod line 1	Mount new sensor and bracket to the plugger frame	Move the sensor to a better location to eliminate the possibility of plugging a rod with no spring	ISA-10 ADU Rods	ADU ROD LINE 1
15513	Line 1 Pellet Grinder Exit Conveyor Belt Material Change	Change Line 1 Pellet Grinder Exit Conveyor belt(361F08EQ38, Item 46) back to un-reinforced material, and change the belt length to 220".	The DTO of the reinforced belts per CCF 15455 was only partially successful. The reinforced belt did not stretch, but the belt lengths have to match exactly to prevent tracking issues. Conveyor design changes have to be implemented to resolve the matching belt length issues. Until those designs are implemented, the original, un-reinforced belt material will be used. The belt length has been shortened to extend belt life due to the stretching of the un-reinforced belt.	ISA-08 Pelleting	ADU Pelleting \ Grinder Line 1

CCF No.	Title	Description	Justification	ISA ID	Location
15514	5B ADU Sintering Furnace Sight Port Modification	Change the OEM Sight Port packing nut design to a design utilizing a 4-bolt flange with graphite gaskets per 361F02EQ27.  Ref. CCF 14561 for similar change to the 3C Furnace.	The sight ports are currently held in place and sealed via a 3"-14 packing gland nut compressing 3/8" packing. This nut is very difficult to tighten/loosen after being in service making replacement/tightening of the packing practically impossible. The new sight port design will use a four bolt flange and graphite gaskets to alleviate the need for packing and subsequent tightening/loosening of a packing gland nut. The four bolt flange design will also prevent the sight port pipe from rotating when the sight glass is removed for cleaning/replacement.	ISA-08 Pelleting	ADU Pelleting \ 5B Sintering Furnace
15516	Connect a rental oil free air compressor to the plant air header	Connect a diesel powered oil free rental air compressor to the plant air header. This air compressor will be on line and supplying the factory with compressed air until city water is restored to the factory.	This rental air compressor will be the source of compressed air until city water is restored to the factory.	Grounds	Air Compressor Room
15519	Eliminate reducer on city water line to SOLX-1 safety shower/eyewash.	Eliminate reducer on city water line to SOLX-1 safety shower/eyewash.	Current connections are leaking. We plan to simplify the connection during repair.	ISA-07 Solvent Extraction	SOLX
15522	Stainless Steel Covers at Rod Weigh	There are several places at rod weigh that we plan to cover with stainless steel covers.	These stainless steel covers will act as barriers to prevent paint from getting on rods. This CCF serves as documentation since product flows through Rod Weigh.	ISA-10 ADU Rods	Rod Weigh
15523	Stainless Steel Covers at Line 9 UT	We plan to cover some painted areas by Line 9 UT with Stainless Steel covers	These stainless steel covers will act as barriers to prevent paint from getting on rods. This CCF serves as documentation since product flows through Line 9.	ISA-10 ADU Rods	Line 9
15524	Scrap Cage Filter Press Dissolver Nitric Acid and DI Water Orifice Plates Modification	The nitric acid and DI water flows to the scrap cage filter press cake dissolver are currently restricted by orifice plates with 0.125-inch bore diameters. This CCF will allow the option of installing orifice plates with 0.094-inch, 0.063-inch, or 0.031-inch bore diameters. After a testing period to select the best option, the selected bore diameter will be recorded on the as-built drawing. A similar modification was made with CCF 15288, but the orifice plate with the smallest bore diameter on that CCF was still too large. The manufacturer's documentation is attached.	This is to address recent events, such as CAPAL issue # 100070844, in which the dissolver overflowed due to the addition of too much nitric acid. Restricting the input flows will allow the flow rates to be maintained within the operational ranges of the flowmeters, thus allowing the flowmeters to read more accurately and reducing the likelihood of an overflow and spill.	ISA-11 Scrap Uranium Processing	Scrap Cage Filter Press Cake Dissolver
15525	Connect 48 VDC to Main Switchgear Sections 101,102,103 & 104	Disconnect the old 48 VDC system and connect the new 48 VDC system. Disconnect and remove old wet cell batteries using on site contractor Carolina Lift and Hoist for battery disposal.	The old battery system supplies critical equipment and is past expected life and requires replacement. the new system will require less maintenance and provide reliable power to the Main Switchgear equipment.	Grounds	Main Switchgear
15527	Connect 48 VDC to Main Switchgear Sections 201-206	Disconnect the old 48 VDC system and connect the new 48 VDC system. Disconnect and remove old wet cell batteries using on site contractor Carolina Lift and Hoist for battery disposal.	The old battery system supplies critical equipment and is past expected life and requires replacement. the new system will require less maintenance and provide reliable power to the Main Switchgear equipment.	Grounds	Main Switchgear
15528	Disconnect Rental Air Compressor	Disconnect the diesel powered oil free rental air compressor from the plant air header.	City water has been returned to the factory and the diesel powered air compressor is no longer needed.	Grounds	Air Compressor Room #2
15532	Relocation of Weigh Station Conveyor controls	Relocate the Weigh Station Conveyor controls from the disconnect panel to the pedestal in front of the lift table.	Relocation of the controls to allow the operators easier access to this controls. It will enable these controls to be ergonomically safer to use.	ISA-10 ADU Rods	Drag Chain Conveyor

CCF No.	Title	Description	Justification	ISA ID	Location
15534	Calciner/Scrubber Spring-open Valve Replacements	<p>FER #13218 conducted in 2013 for the Calciner Safety Upgrades project included Action Item #9 to address potential risks of Nitrogen purge valves to the Scrubber being accidentally turned off and defeating SSC ADUSCR-904. The recommendation was to replace normally open valves that would potentially affect this SSC with spring-open, lockable valves. In addition, a spring-open lockable valve was installed on the nitrogen purge line entering the discharge end of the Calciner. This valve is downstream of devices controlling SSC ADUCAL-902&amp;903.</p> <p>The spring-open valves are hard to operate/lock closed when interlock checks or scrubber rake outs are being conducted and a spring open valve recently failed resulting in a Redbook entry. The Calciner/Scrubber spring open valves will be replaced with lockable manual valves to avoid future Redbook entries/NRC reportable events and address issues Conversion Operations has with them.</p> <p>Note: The actions described herein have already been completed on Line 5 under CCF 15401.</p>	<p>Since FER#13218 was conducted other controls are now included in the design that eliminate the need for spring open valves.</p> <p>Closure of a manual valve on the Calciner nitrogen purge line will not affect SSCs ADUCAL-902/903 because the upstream pressure transducer PIT-S-x09-1 and flow transducer FIT-S-x09-2 for SSC ADUCAL-902 and ADUCAL-903 will shut off hydrogen to the Calciner if Nitrogen pressure or flow is below setpoint.</p> <p>Conversion Operations will add an administrative procedure step to COP-811101 to add a lock to the replacement manual valve located between the Scrubber Off-gas Condenser and the Scrubber to prevent inadvertent closure of this valve. The Lock-out/Tag-out procedure CF-81-623 will also be changed accordingly.</p> <p>Conversion Operations will add an administrative procedure step to COP-811101 to add a lock to the replacement manual valve located between the Nitrogen supply and the Scrubber Off-gas Condenser to prevent inadvertent closure of this valve. The Lock-out/Tag-out procedure CF-81-623 will also be changed accordingly.</p>	ISA-03 ADU Conversion	ADU Conversion Line 2
15536	Leak testing of spring loaded valve 059-2 on the nitrogen supply line to line 1 bag filters	<p>This project will provide a port on the nitrogen supply (line 059-1/2"-25) at the spring loaded valve. Nitrogen from a compressed gas cylinder will be input through this port and captured in a portion of the line established by two manual valves and the spring loaded valve. The ability to maintain pressure in this portion of the line constitutes a leak check of the spring loaded valve. The pressure will be monitored using a dial pressure gauge.</p> <p>To match the existing piping, the port will be fabricated using stainless steel piping components even though the pipe spec for nitrogen, FSS-003, specifies A106 CS. The decision to use stainless steel for this project was discussed with Bill Walker, the Plant Systems Sketch Document Owner, on 10-27-15.</p> <p><u>No SSC's are affected since the valves are not being relocated or removed.</u></p>	<p>This modification will provide a method for periodically leak testing the safety significant valve.</p>	ISA-03 ADU Conversion	In overhead piping between ADU lines 1 and 2.
15538	Install fall protection safety gate on T-1174 ladder	<p>T-1174 has no fall protection on top of ladder. Green book #69743 safety gate model number LSG-18-SS-SW</p>	Ladder has no fall protection on top of ladder.	ISA-06 Chemicals Receipt, Handling and Storage	URRS outside HF tank top of ladder
15539	Erbia Sintering and Dewax Furnace Pusher Bearing Lubrication Change	<p>The manufacturer(FAG) has changed the bearing P/N from: 6204.2ZR.C3.L12 to: 6204.2ZR.C3.L38. The L38 designation is a lubricant code indicating the use of Mobil Polyrex EM No. 2, polyurea based, grease. The Mobil Polyrex EM PDS and SDS are attached for reference.</p>	The L12 lube code is for an obsolete designation for a Chevron SRI No. 2, polyurea based, grease.	ISA-20 ERBIA	Erbia Manufacturing \ Dewax and Sintering Furnaces

CCF No.	Title	Description	Justification	ISA ID	Location
15543	Line 1 Pelleting Powder Prep 3rd Level(14'-2" Elevation Platform) Hoist Modification.	<p>1. Raise the 3rd level(14-2 elevation platform) jib crane mast 30 inches, lengthen the jib crane boom 6 inches and notch the jib crane boom per the 321F01EQ11 drawing. Ref. attached Pellet Line 1 - Boom Notch Calcs.pdf and Pellet Line 1 ? Hoist and Platform Calcs.pdf files for load calculations.</p> <p>2. Install a Harrington electric hoist to replace the current manual hoist. Ref. Note 1 on 321F01EQ11 and the attached HARRINGTON HOIST SPECIFICATIONS.pdf file for the hoist specifications.</p> <p>3. Demo and remove out of service light fixtures and hangar rods; move existing lights and install new light.</p> <p>4. Relocate Roll Compactor VFD and re-route Drexelbrook transmitter conduit.</p> <p>5. Re-locate duct hangars.</p> <p>Part 1 &amp; 2 of this CCF is similar to CCF 11093, Part 1 &amp; 2; Part 3 of this CCF is similar to CCF 13184, Part 1.</p>	<p>1. Safety. Currently there is no method to remove the powder lift drive on the third level. Consequently, chain falls have to be rigged in the ceiling to lift and lower the drive. With difficult access and tie-offs, rigging the chain fall is dangerous and could result in injury/death. The chain fall only provides vertical lifting capability i.e. horizontal movement of the component has to be done by hand. Also, there is no capability to raise/lower the drive(and other 3rd level components) to the 1st floor i.e. at some point, these parts have to be lowered by hand to the 2nd floor and walked down stairs to the 1st floor. The new hoist system will allow the drive and other third level components to be lifted, moved and lowered to the 1st floor safely with the jib crane i.e. no chain falls and manual lifting will be required.</p> <p>2. Currently, the 3rd level jib crane uses a manual, chain hoist for lifting components. Due to the height of the crane, the hoist hand chain is extremely long. Raising the jib crane will require the hoist hand chain length to be even longer. The long chain often gets caught on other components when lifting, and thus, distracts the chain operator from the load being lifted. The chain operator tires easily having to work with so much chain length and has to often pause the lift. Shifting the load manually(i.e. making the hoist roll horizontally along the jib crane horizontal beam) at such height is difficult. These issues often result in a tedious load.</p>	ISA-08 Pelleting	ADU Pelleting \ Line 1 Powder Prep 14'-2" Elevation Platform
15544	4C Sintering Furnace Cooling Gland Installation	<p>'1. Replace existing ADU Sintering furnace element leg cooling glands(361F02EQ13) with new, improved cooling glands(361F02EQ25). Braided Hose will be used to interconnect the new glands. This change is similar to CCF 15203.</p> <p>2. Use Saffil blanket to partially insulate the element terminals. The Saffil blanket PDS and MSDS are attached.</p>	<p>1. New cooling glands will be able to compensate for alignment issues associated with warped furnace floors, provide improved sealing and provide improved cooling. The braided hose interconnection will provide a flexible connection to alleviate alignment issues between the gland cooling coils.</p> <p>2. The Saffil blanket will be used to help block flow of furnace gas thru the alumina bubbles surrounding the element terminals.</p>	ISA-08 Pelleting	ADU Pelleting \ Line 1 Powder Prep 14'-2" Elevation Platform
15545	Reroute/relocate plant airline(s) as needed serving Sleeve Sloters, Dog-bone Press, Nozzle Assembly Fixture, etc.	<p>As part of the South Ukraine Grid Expansion Project, we will be installing a new steel mezzanine structure with an elevated modular office in the tooling/non-fuel/grid area above the equipment located between columns 13-14 and A-B.</p> <p>There are some existing air lines serving the equipment in this area that will interfere with the new steel structure. This CCF will be used to document rerouting/relocating of the air line(s).</p> <p>No SSCs are affected.</p> <p>The air feeding the equipment will not change.</p>	To make room for new steel mezzanine structure.	Components	Tool Room/Non-Fuel between columns 13-14 and A-B.
15547	Connect Jockey Pump to #1 Fire Water Tank	Connect the suction side of Jockey Pump P-8206 to #1 Fire Water Tank.	This will allow the Jockey Pump to draft out of the Fire Water Tank.	Grounds	#1 Fire Pump House
15549	WABA Rm Portable Dehumidifier	Place a portable 70-pint dehumidifier with built-in condensate pump inside the WABA Rm. Connect dehumidifier drain line to the WABA Rm AC unit condensate drain line.	Use portable dehumidifier for supplemental dehumidification to lower the humidity in the room per Quality department request.	ISA-17 Final Assembly	WABA Room

CCF No.	Title	Description	Justification	ISA ID	Location
15551	Line 1 R53 Top Cam Bridge Segment Replacement	A section of the Line 1 top cam(known as the bridge segment), where top tool holders are installed/removed, broke off during operation. A new segment will be field measured and fabricated to fit the broken out section of the cam. The new segment will be mounted using two 6 mm screws in the two remaining threaded holes in the top cam. The new segment will be fabricated from carbon steel.  Note: This is an OEM part. Therefore, no DOR drawings exist to modify for construction.	The new segment will allow continued operation without major disassembly of the press to replace the entire top cam. The new screw mounted segment will be functionally the same as the original sliding type segment in terms of restoring the top side of the cam path and allowing installation/removal of the top tool holders.	ISA-08 Pelleting	ADU Pelleting \ Line 1 Press
15552	Automatic Skeleton Fixture	Move E-Stop push button fixture-1	No Clearance in front of Bulger-1 servo electrical panel when bulge fixture is pushed out of position. Green book issue 69196	ISA-17 Final Assembly	Skeleton Area
15553	T-1143 Insulation Ring	Installation of insulation support ring on T-1143, hot water tank. The ring will serve as support for new insulation being installed on the tank. The ring will be attached to the tank by a series of tack welds at the bottom of the tank.	Ring needed to support new personnel protection insulation.	ISA-06 Chemicals Receipt, Handling and Storage	Outside URRS
15558	Still 2 Cooling Tower Fan Gearbox Ratio Change	Change gearbox on the Still 2 Cooling Tower fan from a 4.5 to 1 ratio to a 4.25 to 1 ratio.	Existing gearbox is no longer operational, and replacement has a slightly different ratio.	Grounds	Outside URRS
15560	Change trip point of ADUCAL-918 for Line 4	The trip point for ADUCAL-918 was implemented at 4.3 lb/hr. The intended trip point is 5.0 lb/hr. The trip point will be modified to the desired value.	A trip point of 5.0 has been evaluated in the Safety Requirement Specification.	ISA-03 ADU Conversion	Calciner
15563	BluM Oven # 1 Element Support Stand	The BluM Oven # 1 elements are currently supported by a brace that is spot welded to the oven, above the element. When these spot welds break, they cannot be fixed due to the small access area. This is a support stand that the elements can attach to that can provide greater support for the elements.	One element has already broken off and needs to be repaired. When it broke, it caused a ground fault, interrupting power to the conversion area. This is necessary to provide sufficient support to the elements.	ISA-19 Hoods and Containment	BluM Oven # 1 in Conversion Area
15564	Removal of unused Air Sampling Vacuum Line	Removal of unused Vacuum Air Sample piping extending down at front of furnace 3B	It needs to be removed to provide adequate space for new control panels on Furnace 3B	ISA-08 Pelleting	Chemical Side - Pelleting Area
15567	AC 11 Drain Pan	Fabricate drain pan 32"x66"x 1" (+-.2)high with a 1/2" drain hole in the 32" side of pan. Place pan under AC11 drain pan where it is leaking from corroded area. Attach 1/2" drain to the unit drain line.	AC 11 drain pan is corroded in couple of areas where condensation is seeping through and dripping on to the deck and roof of Bulk Blending Area.	ISA-05 ADU Bulk Powder Blending	AC11 above Bulk Blending Rm
15570	Install Plating Room Rectifier Interlock	Install a interlock to shutdown the rectifiers if the scrubber is off for more than one hour. Install an alarm horn and light to activate when the scrubber pressure switch activates Hi or Low. Install a second alarm when the scrubber is down in excess of one hour and shuts down the rectifiers. Install a pushbutton to reset the alarm circuit and restart the rectifiers once the scrubber has restarted and alarm has cleared.	Ventilation is required when the rectifiers are running see attached calculations.	Components	Plating Room
15572	Replace incinerator sight glass with blank	Sight glass on the north side of the lower chamber of the incinerator was discovered to be broken, allowing air intrusion into the chamber. Engineering has been unable to find it on a drawing, or to find a part number or description for the glass. The glass will be replaced with a piece of steel plate until a suitable replacement for the glass can be acquired.	Sight glass on the north side of the lower chamber of the incinerator was discovered to be broken, allowing air intrusion into the chamber. Engineering has been unable to find it on a drawing, or to find a part number or description for the glass. The glass will be replaced with a piece of steel plate until a suitable replacement for the glass can be acquired.	ISA-13 Low Level Radioactive Waste Processing	Incinerator room, north side of lower incinerator chamber.
15574	Add 4' Extension to Zirc Grid / Laser Welder #6 Vacuum Pump Exhaust Filter Housing (FL-4220B)	The Zirc Grid / Laser Welder #6 Vacuum Pump Exhaust Filter Housing (FL-4220B), has a cover which was manufactured with a 3" dia. threaded hole centrally located. This CCF will allow a 3" dia., 4' section of pipe to attached to the top of the filter housing.	The Zirc Grid / Laser Welder #6 Vacuum Pump Exhaust Filter Housing (FL-4220B), was intended to contain exhaust fumes of the welding chamber. Due to the proximity of workers directly in the area, the odors of this unit have been an issue. This cover was recently replaced, and it was noticed that the cover was manufactured with a 3" dia. threaded hole centrally located.  This CCF will allow a 3" dia., 4' section of PVC pipe to be attached to the top of the filter housing; in order to divert the exhaust further from the operators in the area.	Components	Zirc Grid / Laser Welder #6 Vacuum Pump Exhaust Filter Housing (FL-4220B)

CCF No.	Title	Description	Justification	ISA ID	Location
15575	Line 5 water fountain removal	Remove water fountain on the contaminated side behind line 5 (dry room).	Water fountain is not used and is potentially in the way for cart movement in the area.	ISA-12 IFBA Fuel Rod Manufacturing	Line 5 behind the dry room.
15577	Nickel Plating room Temp. Pump Shields	Design and install temporary pump shields over SERFILCO pump/filter units, secure units to floor grate and secure hoses.	Safety hazards include personnel being sprayed with low pH acid solutions.	Components	Nickel Plating Room
15582	Replace XV-768A Automatic Valve, Actuator, and Solenoid	Replace XV-768A Automatic Valve, Actuator, and Solenoid. This is an automatic valve on the steam supply to the hot water system for the dissolver channels. The replacements will adhere to the recommended plant equipment specifications. The new valve will be Jamesbury model number 7150-31-2236XTZ1. The new actuator will be Jamesbury model number VPVL 100SR6B. The new solenoid will be Asco model WT8551A001MS.	The current valve has an air leak at the actuator and needs to be replaced with current plant standard equipment.	ISA-04 Safe Geometry Dissolver	Dissolver Platform
15583	Demolish Grid Area East Tooling Carousel	The East tooling carousel (Eq. # GRID/CARO2) located in the Grid Area is no longer operational. This CCF will cover removal and disposal of all mechanical and electrical components, including demo of electrical circuit feeding the carousel.	Failure beyond economic repair.	Components	Grid Area, SW Corner
15584	Lower Line 4 Decanter Hydraulic Over-Pressure Control Values	Lower Line 4 Decanter Hydraulic Over-Pressure Control Values	Normal operating pressure is much lower than the current overpressure limits. Lowering these values will reduce the likelihood of issues which could be caused by high pressure of the hydraulic fluid. This CCF will change the trip set-points of PSH-407G, PSHH-407G, and PAH-407G.	ISA-03 ADU Conversion	Conversion Line 4 Decanter Hydraulic drive
15585	Central Vacuum Custom Cloth Bag DTO & Vacuum Gage alternative.	1. DTO custom made 100% cotton canvas and non-woven felt bags. DTO will be performed with and without the Item 69 wire mesh basket. 2. Reduce O.D. and I.D. of Item 74 gasket. 3. Add option to use alternate to Item 12 vacuum gauge.	1. To replace obsolete Royal Vacuum cloth bags. The wire mesh basket installed per CCF 15448 does support the paper bag as intended, but the cloth bag is still needed for secondary containment. Testing without the basket will determine if the extra support provided by the basket is required with the new custom made bags. 2. To make gasket fit better with the Item 24 paper bag flange. 3. To allow use of better quality vacuum gauge(new Item 76).	ISA-08 Pelleting	ADU Pelleting \ Central Vacuum System
15586	Lower Line 2 Decanter Hydraulic Over-Pressure Control Values	Lower Line 2 Decanter Hydraulic Over-Pressure Control Values	Normal operating pressure is much lower than the current overpressure limits. Lowering these values will reduce the likelihood of issues which could be caused by high pressure of the hydraulic fluid.	ISA-03 ADU Conversion	Conversion Line 2 Decanter Hydraulic System
15589	Lower Line 1 Decanter Hydraulic Over-Pressure Control Values	Lower Line 1 Decanter Hydraulic Over-Pressure Control Values	Normal operating pressure is much lower than the current overpressure limits. Lowering these values will reduce the likelihood of issues which could be caused by high pressure of the hydraulic fluid. This CCF will change the trip set-points of PSH-107G, PSHH-107G, and PAH-107G.	ISA-03 ADU Conversion	Conversion Line 1 Decanter Hydraulic System
15590	Lower Line 5 Decanter Hydraulic Over-Pressure Control Values	Lower Line 5 Decanter Hydraulic Over-Pressure Control Values	Normal operating pressure is much lower than the current overpressure limits. Lowering these values will reduce the likelihood of issues which could be caused by high pressure of the hydraulic fluid. This CCF will change the trip set-points of PSH-507G, PSHH-507G, and PAH-507G.	ISA-03 ADU Conversion	Conversion line5 Decanter hydraulic system



CCF No.	Title	Description	Justification	ISA ID	Location
15591	Lower Line 3 Decanter Hydraulic Over-Pressure Control Values	Lower Line 3 Decanter Hydraulic Over-Pressure Control Values	Normal operating pressure is much lower than the current overpressure limits. Lowering these values will reduce the likelihood of issues which could be caused by high pressure of the hydraulic fluid. This CCF will change the trip set-points of PSH-307G, PSHH-307G, and PAH-307G.	ISA-03 ADU Conversion	Conversion Line 3 Decanter hydraulic system
15594	Relocate door in Maintenance Engineering Office Area	Relocate the personnel door in the Maintenance Engineering Office Area.	Relocating this personnel door will allow a standard size office cubicle to be built in the existing footprint.	Grounds	Maintenance Engineering Office Area
15595	Affix I-beam to bulk room floor	Move the anchor plates on the I-beam so that they are 14" in from the ends of the I-beam, rather than on the end of the I-beam. Then use 1/2" concrete anchors to anchor the I-beam back to the ground in the same place that it was previously.	An I-beam is attached to the bulk room floor to help provide protection to the polypak cart lift. This I-beam was struck, and the anchors attaching it to the floor broke. Since this has happened multiple times, the concrete under the anchor plate is fairly damaged. Maintenance would like to move the anchor plate on the I-beam so that the plates are no longer on the end of the I-beam, but 14" in on each side. Other than moving the anchor plate, no other changes will be made to the I-beam. This will allow for the I-beam to be affixed (using concrete anchors) to concrete that has not been previously damaged.	ISA-05 ADU Bulk Powder Blending	Bulk Blending Room
15596	Overflow Parking Lot LED lighting replacement	Replace existing parking lot lighting with LED light fixtures	LED Light fixtures are in alignment with global sustainability efforts	Grounds	Overflow Parking Lot
15597	Main Parking Lot LED lighting replacement	Replace existing parking lot lighting with LED light fixtures	LED Light fixtures are in alignment with global sustainability efforts	Grounds	Main Parking
15609	Leak testing of the spring loaded valve 059-2 and the spring to close BFP device on the supply line to line 5 bag filters	This project will provide ports on the nitrogen supply (line 059-1/2"-25) at the spring loaded ball valve and at the BFP device. Nitrogen from a compressed gas cylinder will be input through these ports and captured in portions of the line established by two manual valves and the valve to be tested. The ability to maintain pressure in these portions of the line constitutes a leak check of the spring loaded valve or the BFP device. The pressure will be monitored using a dial pressure gauge. To match the existing piping, the ports will be fabricated using stainless steel piping components even though the pipe spec for nitrogen, FSS-003, specifies A106 CS. The decision to use stainless steel for this project was discussed with Bill Walker, the Plant Systems Sketch Document Owner, on 10-27-15. The BFP device is not affected. The spring loaded valve will be removed and reinstalled. Its function will be tested after installation is complete.	This modification will provide a method for periodically leak testing the safety significant valves.	ISA-03 ADU Conversion	In overhead piping near line 5
15610	Blue M Oven #1 Heater SCR Replacement in Conversion Scrap Recovery	Replace the failed Blue M Oven #1 RobiconSCR with a Watlow SCR unit.	The existing Robicon unit has failed and is no longer available.	ISA-11 Scrap Uranium Processing	Blue M Oven #1 in Conversion Scrap Cage
15622	Chem Lab Floor Refurbishment	Install Stontec TRF decorative flake floor system with approximately 3/16" thick epoxy motor base.	Three layers of old tile have caused tripping hazards due to deterioration and it buckling up. Tile has been removed and Manager would like to have a durable decorative floor system instead of tile.	ISA-18 Laboratories	Mass Spec Rm and Corridor

CCF No.	Title	Description	Justification	ISA ID	Location
15625	Modify conduit to DC-923 and DC-924.	The scope of this work is to rework the conduit from DC-923 and DC-924 to the BPCS to provide a T that isolates the two systems. Existing wiring will be used. Wires will be removed from the relays and worked back to a point that allows installation of a T in the conduit. Wires will then be reinstalled and landed on the original terminals. The 4 wires are shown on 360F11eI03 sheet (PWS3-24+(2ea). 1TI4, 1TI5). These wires provide a alarm function through the alarm PLC and are not safety significant. Alarm PLC drawing is attached to CCF in related documents, no changes other than the conduit modification are planned.	Provide a T that isolates the two systems. It is bad practice to run wires through a control panel to another piece of equipment.	ISA-05 ADU Bulk Powder Blending	Duct Collector DC-923 and DC-924 control panels by Bulk Blending Door.
15628	4A ADU Sintering Furnace Entrance/Exit Door Switch Cam change.	Change the entrance/exit door switch cam design. See the attached pic for the current cam design. See the 361F2EQ24-15628 For Construction drawing for the new cam design. SSC # PELSINT-909 will be verified after installation and set-up of the new cams. Note: PSEDoc-0002800 / ITR is linked in Related Documents.	The current cam design does not allow adjustment to immediately activate the door open limit switch when the door is opened. This delays the ignition of the door flame curtain. The new design(which is used on all the other furnaces) will allow the proper adjustment.	ISA-08 Pelleting	ADU Pelleting \ 4A Sintering Furnace
15629	Add Fuses to BlueM #1 Heater Circuit	Add Fuses to BlueM #1 Heater Circuit	Existing thermal protection (circuit breaker) is not fast enough to protect the SCR unit driving the Heater.	ISA-19 Hoods and Containment	BlueM Oven #1 in ADU Scrap Cage
15631	Relocation of existing Conduit at UF6 Pad Area	Relocate an existing conduit currently mounted on the existing UF6 pad fencing and used for monitoring/controlling the levels of the mechanical cooling tower. The plan is to encase it in the new concrete pad for the UF6 expansion. The conduit that will be used is going to be coated rigid conduit.	The UF6 pad is being expanded and will be extended on the end where the Oil House is currently located. The current fence located at the end of the pad is to be removed and relocated.	ISA-03 ADU Conversion	Outside Building, but inside CAA (near UF6 Pad)
15638	Level sight glass on the Plating Room Scrubber	Currently the level sight glass on the Plating Room Scrubber consist of a section of clear tubing connected to 1" PVC pipe using hose clamps. This CCF will allow the clear tubing to be replaced with a section of clear PVC pipe connected on each end using glue type unions.	The existing hose clamp / tubing sight glass is a poor design and prone to leak. Using clear rigid glue type PVC pipe and unions is a more robust design with less chance for leaks. Also, using unions on each end of this sight glass will facilitate cleaning.	Components	Plating Room Scrubber
15657	Replace the Drexelbrook Level Probe on the Erbia Dust Collector	Replace the Drexelbrook Hi Hi Level Probe on the Erbia Dust Collector (LSHH-9401A). The replacement probe will be storeroom# 065015 Drexelbrook# 700-0202-002-1008-0B-0A-4.5. It is similar in form, fit, and function. The most significant difference between the probes is that the replacement probe has a Teflon coat shield vs a PEEK (Polyether ether ketone) on the original probe.	The replacement probe from Ametek (Drexelbrook) will not arrive in time for the startup of the area. We currently have a similar probe in the storeroom which is used on the Fitzmills. The insertion length on both probes is the same.	ISA-01 Plant Ventilation System	'2nd floor Erbia