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CCF-Number	Title	Description	Justification	Location	ISA ID
14127	Change North/South Lagoon piping from Carbon Steel to Stainless Steel	There are 5 sections of carbon steel that need to be changed to stainless steel. Several parts of this line are already stainless steel.	These parts need to be stainless steel so that when solids build up in the pipe, the pieces can be put into an acid bath to be cleaned. When these pipes clog, they restrict the flow to the river, so they need to be able to be cleaned periodically.	URRS	Grounds
14128	Drain Pipe on Process Water Backflow Preventer to T-1148/1149	Installation of drain pipe off of the backflow preventer for process water to T-1148 and T-1149.	Prevent dripping of water from overhead backflow preventer and mitigate safety concerns.	In front of Outside URRS maintenance shop	ISA-15 URRS Wastewater Treatment System
14129	Line 3 SIS Implementation	Activate Safety System for ADU Line 3. 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: Estop circuit will be powered from 24 VDC supply instead of from a PLC output. The ITR has been revised to include the modification. Condensate probe layout for Vaporizer 3A has been modified to avoid hot oil piping in the trench. Wire numbers and DIP switch indications have been corrected for level switch loop sheets.	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 and 13215	Line 3 Vaporization to Precipitation	ISA-03 ADU Conversion
14130	Oven 1, glove port access	Cut hole in stainless steel panel ~4 ft. from floor level and install glove port access to Oven 1 shutter valve.	Maintenance - Air leaks into Oven 1 around the shutter valve cannot be accessed from outside of the glove box.	IFBA/FA2, Glove box	ISA-12 IFBA Fuel Rod Manufacturing
14131	T-1160A Redundant Vent Line Vacuum Break	Install a second vent line with a vacuum break on the T-1160A tank.	Physical modification requirement for the NCSIP II implementation.	URRS - Waterglass	ISA-15 URRS Wastewater Treatment System

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CCF-Number	Title	Description	Justification	Location	ISA ID
14132	T-1160B Redundant Vent Line Vacuum Break	Install a second vent line with a vacuum break on the T-1160B tank.	Physical modification requirement for the NCSIP II implementation.	URRS - Waterglass	ISA-15 URRS Wastewater Treatment System
14133	T-1160C Redundant Vent Line Vacuum Break	Install a second vent line with a vacuum break on the T-1160C tank.	Physical modification requirement for the NCSIP II implementation.	URRS - Waterglass	ISA-15 URRS Wastewater Treatment System
14135	T-1166 Redundant Vent Line Vacuum Break	Install a second vent line with a vacuum break on the T-1166 tank.	Physical modification requirement for the NCSIP II implementation.	URRS - Waterglass	ISA-15 URRS Wastewater Treatment System
14136	Remove Obsolete Filter Press FP-755B	Remove obsolete filter press FP-755B and all associated equipment. Equipment is located under the dissolver plaform.	The filter press has been out of service for some time. It has been replaced by centrifuge technology. It is not slated to go back in service and hinders safe egress under the dissolver platform.	SOLX/Dissolver Area	ISA-04 Safe Geometry Dissolver
14137	Return Backup Generator #5 to Service	Generator #5 was down for repair and we have had a temporary generator in Service to replace it (see CCF 14084). When Backup Generator #5 is repaired and tested this CCF will allow us to "switch back" to Backup Generator #5.	The temporary generator is no longer necessary now that the primary unit is available.	Backup Generator #5 Located in Substation 1 near Erbia Dock	Grounds
14138	replace P402A	Replace the old style pump at P402A with a new Iwaki mag-drive pump. It will include installing block valves at the inlet and outlet of the pump. ADUHYD-901 (pumps shut off on low column level) should be tested after new pump is installed	The old centrifugal pump experiences seal leaks.	P402A	ISA-03 ADU Conversion
14139	Reroute undergound pipe between South and North Lagoon to pipe rack	Currently there is an underground pipe that runs from the south lagoon to the north lagoon. The plan is to run this piping on the above ground pipe rack that was recently installed. We will cap the existing undergound line after it is removed from service.	This change would eliminate the use of a current underground pipe. By removing the undergound piping from service, we remove the possibility that a leak could go unnoticed and contribute to groundwater issues in the area. This also utilizes the newly installed pipe rack.	URRS Outside	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14140	Add mist collection to tool room machines	Add mist collection to machine tools and equipment. This will include minor wiring changes needed to power the mist collectors and in cases for free standing mist collectors, showing the footpriint of the mist collector on the area arrangement drawing.	Mist collection is needed to control coolant and oil mists.	Mechanical area in Tool Room	Grounds
14141	Removal of Starrett Optical Comparator & Installation of Galileo Vision System	The existing Starrett HF750 Optical Comparitor will be removed. The new Galileo vision system will be installed in its place.	See PRF-1001056; increase productivity & quality	QC Receiving Inspection	Clean Side Rod Area
14142	Pellet Line 1 Dust Collector Probes	Replace obsolesent Drexelbrook high and high, high level probes on pellet line 1 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.	Pellet 1 line dust collector	ISA-01 Plant Ventilation System
14143	HX-944 support	Installation of HX-944 Heat Exchanger support bracket.	A new support bracket will enable the removal of the top and bottom heads without removing the entire exchanger for cleaning.	incinerator room	ISA-13 Low Level Radioactive Waste Processing
14144	Add line filter to Line 1 seal welder	Add 7 micron swagelok line filter to line 1 seal welder after the regulator.	This will make it the same configuration as line 3 and 4.	ADU Rod Line 1	ISA-10 ADU Rods
14145	Add line filter to Line 2 seal welder	Add 7 micron swagelok line filter to line 2 seal welder after the regulator.	This will make it the same configuration as line 3 and 4.	ADU Rod Line 2	ISA-10 ADU Rods
14147	Power Master Deaerater Controls Relocation	We will be relocating the Power Master Deaerater Controls Panel. Since we need to replace the panel we will be relocating it to the East wall beside the pumps.	Currently the control panel is old and rusted due to being located under the Deareator tank (water dripping). This relocation will also allow us better access when performing maintenance on the pumps.	Deareator panel at the boiler house outside	Grounds
14148	V-112 Passive Overflow Piping	Install a passive overflow line for V-112.	Installing a passive overflow line will provide a single overflow route to allow material to be more easily contained, instead of the current design in which a tank overflow scenario will cause material to rain down from the tank vacuum break.	V-112	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14149	Maintenance Mezzanine Motorized Trolley	Upgrade a manual trolley that transport 1 ton Coffing electric hoist, with a motorized trolley with brake, 1 speed travel @ 18' fpm and one 4 button Magnetec Flex EX radio crane control with 2 remotes. It will be connected to current power of the electric hoist.	Current hoist has manual trolley that craftsmen have to push to the edge of mezzanine platform to lower basket down. Trolley does not have brakes, therefore load can cause the basket to sway into platform. Plus concerns of safety hazard for workers pushing load to the edge of platform.	Equip Room 3 Mezzanine	Grounds
14150	Removal of City Water Lines, Water Filter System and Drain Line in LECO Room of Chem Lab.	City water lines and filter system in the LECO room needs to be removed. Also, drain line for LECO cooling water needs to be removed.	City water is not needed to cool the LECO's, therefore city water and water filter system is not needed in the LECO room. Also, drain that was used to remove the cooling water is not needed and needs to be removed.	Chemical Laboratory LECO Room	ISA-18 Laboratories
14152	Chilled Water Tie-Ins for Laser X	Install 2 manual valves and necessary piping to provide tie-ins for Laxer X chilled water supply	New equipment installation from Windsor as part of WETCANS Project	Laser Welders	Components
14154	QC Rod Soft Handling "E" Power and Pneumatic Panels and Controls	Install new power and pneumatic panels and field devices to migrate the Soft Handling "E" section controls to the Outfeed PLC.	The motor starters and pneumatic controls for the Soft Handling "E" and "F" sections are currently co-located in one set of control panels. Under this CCF new "E" section control panels will be installed and connected to the Soft Handling Outfeed PLC. Similar work will be accomplished under another CCF for the "F" section controls. In addition to eliminating an obsolete Numalogic PLC, this work will provide electrical and pneumatic isolation so that either section can be taken offline without directly affecting the other.	QC Rod Soft Handling Outfeed Section "E"	ISA-10 ADU Rods

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CCF-Number	Title	Description	Justification	Location	ISA ID
14155	QC Rod Soft Handling "F" Power and Pneumatic Panels and Controls	Install new power and pneumatic panels and field devices to migrate the Soft Handling "F" section controls to the Outfeed PLC.	The motor starters and pneumatic controls for the Soft Handling "E" and "F" sections are currently co-located in one set of control panels. Under this CCF new "F" section control panels will be installed and connected to the Soft Handling Outfeed PLC. Similar work will be accomplished under another CCF for the "E" section controls. In addition to eliminating an obsolete Numalogic PLC, this work will provide electrical and pneumatic isolation so that either section can be taken offline without directly affecting the other.	QC Rod Soft Handling Outfeed Section "F"	ISA-10 ADU Rods
14156	Remote Control Replacement for F1, G2 & G3 Cranes	Replace the Telecrane Model F24-10D remotes used for cranes, F1, G2 & G3 with new Magnetek Flex-8EX remotes	The Telecrane Model F24-10D remotes used for cranes, F1, G2 & G3 need replaced. These units were implemented during the BWR program circa 2004/2005. Telecrane no longer operates in the US and there are no third party repair options to be found. All three cranes are currently using their respective backups leaving the plant vulnerable should these remotes fail. This CCF proposes replacing these Telecrane units with Magnetek Flex-8EX. These new units are similar in operation but with improved ergonomics, a more secure communication system and easier to setup. Manuals for both units are included for comparison.	Packing area and container laydown	ISA-17 Final Assembly
14157	Line 2 Calciner Discharge Chute Level Transmitter and Punch List Items	New Discharge Chute level switch for evaluation as a safety control. Remove piping section. Add hydrogen pressure regulator.	PRF, Punch List, etc.	Line 2 Calciner	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14158	CL4 Decanter Motor Pulley Change	During the installation of the new decanter frame for CL4, it was discovered that the existing 224-mm diameter pulley for the motor does not physically fit between the motor plate mounting blocks since the mounting blocks on the new frame are wider than on the old frame. A new 212-mm diameter pulley will be used instead. Other dimensions of the pulley will not change. The pulley is not shown on drawings and therefore no drawing changes are needed. A marked-up frame drawing is attached for reference only to indicate where the pulley fits.	This change is necessary since the existing pulley does not fit between the motor plate mounting blocks on the new frame.	Conversion Line 4	ISA-03 ADU Conversion
14160	Product Storeroom Cantilever Racks & Pallet Rack Reconfiguration	Install new cantilever racks to support Windsor move in product storeroom. The existing pallet racks and cantilever racks will be removed in the affected area. To support the new double sided cantilever racks, the existing fire sprinkler system for the pallet racks on the affected row will be removed. The existing plywood decking on the pallet racks will be replaced with wire shelving before the fire sprinkler system is removed for the affected row. Modification sequence: 1-Replace plywood shelving with wire decking 2-LOTO, drain, and demo fire sprinkler system for affected row 3-Reactivate fire sprinkler system for remaining pallet rack storage rows 4-Demo existing pallet racks and cantilever racks 5-Install new double sided cantilever racks 6-Sign CCF for startup	Reconfiguration of Product Storeroom required to support inventory for Windsor relocation.	Production Storeroom	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14161	New Part Number for Vaporizer Coupler	New part number for the telescoping double universal joint coupler for the vaporizers on lines 1-4. The new assembly, TUJ-SS40-1060-QR, is a vendor supplied part that incorporates all of the custom modifications that were performed on original TUJ-SS40-1059-QR. New parts will be the stocked spares to replace existing assemblies as needed. Both of the assemblies will be acceptable for use. Part number TUJ-SS40-1059-QR will be phased out.	Changes to vendor supplied part eliminates need for in-house modifications.	Lines 1-4 UF6 Vaporizers	ISA-03 ADU Conversion
14162	CL4 V-419 Platform Relocation	The V-419 platform and associated equipment will be relocated to align with the new decanter frame. The platform will be raised approximately 1 1/4 inches and will be shifted north by approximately 7/8 of an inch.	This change is to align the V-419 platform and equipment with the new decanter frame.	Conversion Line 4	ISA-03 ADU Conversion
14163	Modify the belt on Gamma Scanner #4 A Channel	This modification is requested for the belt used on Gamma Scanner #4 A Channel to be stainless with rubber backing on both sides of the belt, rather than only one side. Currently, the belt has rubber on the product side. B Channel will remain as is using a single rubber faced belt. The modification is requesting that either belt be acceptable for use on Channel A.	This modification is requested as there is a suspicion that A Channel is experiencing some slipping of the belt against the metal pulleys. Having rubber backing on both sides will provide a higher coefficient of friction in attempts to reduce any slipping.	Gamma Scanner #4	ISA-10 ADU Rods
14165	Modify Gamma Scanner #4 A-Channel Infeed to New Design of Belt and Belt Alignment Device.	Convert A-channel infeed conveyor of Gamma Scanner #4 belt system to the design of Channel A outfeed system. Channel A outfeed system encompasses a double sided belt and a belt alignment device.	The new belt alignment device and double sided belt show improved belt performance, as well as a reduction of rescan defect codes on the rods. These changes have improved performance and should be implemented on those portions that were not modified.	Gamma Scanner #4	ISA-10 ADU Rods

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CCF-Number	Title	Description	Justification	Location	ISA ID
14166	Addition of orifice to Helium stanchions	Air products would like to add Stanchion Restrictor Orifices to both of the trailer stanchions downstream of the vent valve on the vent line to atmosphere.	This change comes from the concern that drivers purge the lines at varying speeds (some too quickly, which can create other issues). By adding an orifice in the line, the valve opening rate will be negated and a more consistent flow rate for the purge will be achieved.	URRS Tank Farm	ISA-06 Chemicals Receipt, Handling and Storage
14168	swinging respirator tape arm	Install a stainless steel swing arm at the bottom of the stairs to which respirator tape may be attached to denote that upstairs is a respirator area.	An operator can go through the swing gate while it's roped off even if they are carrying something. Using existing tape, the operator either has to duck under it or set down what they're carrying to remove and then replace the tape while they walk through.	at the bottom of the stairs going to the calciner platform	ISA-03 ADU Conversion
14169	Utility Supply to New CE Grid & Skeleton Areas	Install supply piping for utilites to the CE Grid area (Laser X) and the CE Skeleton Areas. Includes instrument air, argon, and nitrogen. A new FME Barrier wall will be installed between the Toolroom/Machine shop and the new CE Grid Area. A utility raceway will be installed in the new CE Grid Area for electrical wireway and support for piping. To route piping from truss level to the new raceway, a post will be mounted from the concrete floor to the bottom of the truss beam for piping/conduit support.	Required as part of WETCANS Project	New CE Grid & Skeleton Areas	Components
14170	Add drain line to V-3150 Zirc Knock Out Tank	Add a stainless steel drain line to the zirc knock out tank so that when the OM is performed to clean the tank it can be drained into a cream can at floor level.	During the cleaning OM, the operator has to bail the water out of the tank with a bucket, the bucket thenhas to be wlaked down the stairs fromthe mezzanine to the floor level to be dumped into a cream can. Greebook 65712	ADU Rod Repair Area	ISA-10 ADU Rods

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CCF-Number	Title	Description	Justification	Location	ISA ID
14171	Replacing carbon steel posts in Tube Prep area with Stainless	There are a couple of painted carbon steel posts in the Tube Prep area that hold conduit and air lines overhead. We will replace these carbon steel posts with stainless posts.	Rods have been found in Final Assembly with paint streaks on them. This causes the rods to be removed from the assembly for cleaning. This project is part of a larger proect to cover or eliminate any painted surfaces where tubes might inadvertantly come in contact with the paint. (These posts do not appear on the area arrangemnt drawings. Photos of the posts are attached for reference)	Tube Prep Area near Rework Lathe Table and Pin Stamper	Clean Side Rod Area
14173	Install Standby Generator 1 Start Loop Testing Circuitry	Install Standby Generator 1 Start Loop Testing Circuitry. This will include a start relay indicator lamp and test switches at each automatic transfer switch (ATS) Demoted for C2 drawing. Start loop logic is "sinking" not sourcing.	These controls are being installed to facilitate ATS and Generator testing.	Standby Generator 1 in the Air Compressor room near the Grid area	Grounds
14174	Install Standby Generator 2 Start Loop Testing Circuitry	Install Standby Generator 2 Start Loop Testing Circuitry. This will include a start relay indicator lamp and test switches at each automatic transfer switch (ATS) CCF demoted C3 drawing created to show changes Loop test lamp wiring. CCF demoted to show 2ATS2 is out of service; This was an as found condition which we are documenting on the drawings.	These controls are being installed to facilitate ATS and Generator testing.	Standby Generator #2 in UF6 Bay	Grounds
14175	Install Standby Generator 3 Start Loop Testing Circuitry	Install Standby Generator 3 Start Loop Testing Circuitry. This will include a start relay indicator lamp and test switches at each automatic transfer switch (ATS)	These controls are being installed to facilitate ATS and Generator testing.	Standby Generator #3 in Equipment Room 3	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14176	Line 5 UF6 Connection Pigtail Hose Replacement	Line 5 currently uses a Teflon (PTFE) hose with stainless steel braiding for connecting the UF6 cylinder to the UF6 supply piping. Replace existing flexable hose assembly fabricated from 316 Stainless Steel.	During the processing of cylinders it was noticed that sometimes the PTFE liner was collapsed when the hose was removed after cool down of the cylinders. A metal hose will be less likely to collapse in this environment.	Lien 5 Autoclaves in UF6 Bay	ISA-03 ADU Conversion
14177	Install Standby Generator 4 Start Loop Testing Circuitry	Install Standby Generator 4 Start Loop Testing Circuitry. This will include a start relay indicator lamp and test switches at each automatic transfer switch (ATS)	These controls are being installed to facilitate ATS and Generator testing.	Standby Generator #4 in Equipment Room 3	Grounds
14178	Install Standby Generator 5 Start Loop Testing Circuitry	Install Standby Generator 5 Start Loop Testing Circuitry. This will include a start relay indicator lamp and test switches at each automatic transfer switch (ATS)	These controls are being installed to facilitate ATS and Generator testing.	Standby Generator #5 near Erbia Dock	Grounds
14179	Re-Routing of Power Feed for C200 Power Supplies in SOLX Control Panel	Re-Reroute the 24 VDC Power supply power for the SOLX main panel and tie-in the power supply fail limit switches for each power supply to available discrete inputs for monitoring purposes.	There have been recent intermitent failures of power at the SOLX control panel. The source could be the UPS power, 24 VDC power or a chassis power supply. This re-arrangement is to help determine the location of the power loss and provide additional diagnositics for determining power issues.	Inside URRS - SOLX	ISA-07 Solvent Extraction

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CCF-Number	Title	Description	Justification	Location	ISA ID
14180	Installation of Eye Wash Station Filtration	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. - This CCF is intended to cover initial review and approval as a minor modification per TA-500 and will be added to TA-500-8, Pre-Approved Modifications, for subsequent use a pre-approved modification. Subsequent use requires a Pre-Approved Modification CCF and compliance with TA-500 and TA-500-8. - Multiple filter installations will be grouped under one Pre-Approved CCF. - The diameter of the filter housing shall not exceed 7 inches. - This CCF has been requested by the Chemical Lab to install filtration upstream of eyewash stations. The Chem Lab has previously installed a canister filter under CCF 12052.	Piping systems that feed eyewash stations have rust and scale that may be harmful to users.	Mechanical, Office, and Lab Areas	Grounds
14181	Remove and Replace North Granite Table at Rod Inspection	CCF 14006 removed the Rahn D&V table from Non-Fuel Line 6 Area. It has been temporarily stored near QC Receiving. The existing Mojave table at Rod Inspection will be removed and replaced with the Rahn table.	Newer surface plate will replace one that has been in service for many years.	Rod Inspection table closest to main aisle	ISA-10 ADU Rods
14182	Solex Exhaust Fan-972A VFD, wiring change	Solex Exhaust Fan-972A VFD, wiring change. Currently the run indicator lamp is powered by the 24VDC logic power. This CCF will allow us to feed the lamp from the 24VDC Auxiliary Voltage Output.	When a bulb is installed in the lamp socket the current draw is too hich and trips the drive. The Aux. Volt. Output is rated at 250ma where the logic output is rated only at 100ma.	Fan 972-A on the roof over Solex	ISA-01 Plant Ventilation System

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CCF-Number	Title	Description	Justification	Location	ISA ID
14183	New Cantilever Racks for Thimble Tube Storage	Install new cantilever racks for Thimble Tube and Dash Pot Storage. Area east of the WABA room will have two single sided cantilever racks with shelves 2 thimble tube boxes wide. Area to the south of the WABA room across the aisle to have a single sided cantilever rack with shelves 1 thimble tube box wide. A new Big Joe power assisted walk behind straddle truck will be purchased for operator use positioning the thimble tube boxes. Forks to be cut down in lenght and stops added so that only 1 thimble tube box may be lifted at a time.	Provide necessary storage for thimble tube boxes and dash pot boxes as part of WETCANS Project	Non-Fuel Rod Area	Components
14184	Move Old Sleeve Slotters & WIN Nozzle Fixture	Relocate the old Sleeve Slotters to the south side of the new Sleeve Slotters. Move WIN Nozzle Fixture to the location of the old Sleeve Slotters. Demo overhead raceway above WIN Nozzle Fixture.	Create necessary space for new strap cleaning equipment and ventilation (to be installed on separate CCF)	Tool Room and Strap Cleaning	Components
14185	Relocate Alarm From Line 4 Decanter PLC to Experion	Relocate alarm currently located in Line 4 Decanter/Calciner Vent PLC to Experion. Alarm is indicated in Experion but uses the Line 4 Decanter PLC as the physical input module.	Line 4 Decanter/Calciner Vent PLC is being removed.	By Line 4 Decanter Platform	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14186	Line 5 R53 Press Modifications	Note: 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. 1.Add needle thrust bearing to ejection cam drive mechanism. Ref. attached Courtoy Dwg 35433 mark-up. 2.Install sheet metal covers over electrical enclosure unistrut supports. No drawings available. 3.Remove center support for enclosure base plate and replaced with 1/4" re-inforcement plate spanning between the front and back supports. No drawings available. Plate is field fit. 4.Replace Courtoy Dwg 35435, It. 1196 & 1197 thrust washers with needle thrust bearing. Added needle thrust bearings for Hold-down angle and height adjustment per attached Courtoy Dwg 35435 mark-up. 5.Add key to Courtoy Dwg 35435, It. 1176 gears 180 Deg. from existing key. 6.Add bolts to rear enclosure base plate supports for adjusting backlash. Remove approximately .10" from rear base plate. No drawings available. Components are field fit. 7.Add 359F02EQ27 indicators for hold-down cam angle and height. Ref. CCF 13055 for identical hold-down cam angle indicator addition. 8.Spring load Courtoy Dwg, 31922, It. 1306. Hold-down Cam Stop Bar. Ref. attached Courtoy 31922 for location of It. 1306.	1.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. 2.Covers prevent debris from collecting inside unistruts and improve aesthetics. 3.Removing center support provides better view and accessibility to bottom cams and worm gear. 4.Needle thrust bearings improve ease of adjustment of hold-down cam height and angle. 5.Improve robustness of existing design. Single key is often broken resulting in significant down time to repair. 6.Screws will act as jackscrews to move the R53 Press Worm Shaft in toward the Worm Gear to remove the backlash between the gears. Removal of material from base plate will allow additional room for adjustment. 7.Improve visibility of hold-down cam angle and height. 8.Prevent stop bar from swinging toward	ADU Pelleting \ Line 5 Press	ISA-08 Pelleting
14187	Modify Arrangement of Strap Storage Area	Install new shelving and modify arrangement to increase storage space in strap storage area. The shelving units that are plywood will be replaced with metal shelving units. The east partition wall of strap storage area between the RAMCO cleaning equipment is to be removed. The existing electrical outlets on this wall will be removed as well.	Increase the strap storage space available as part of the WETCANS Project	Strap Storage Area	Components

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CCF-Number	Title	Description	Justification	Location	ISA ID
14188	Modify new air wipe bracketry	Modification is requested on the existing bracketry of the Line 8 Air Wipe to make a long span of adjustment for the assembly to meet different lengths of contracts.	Modification is necessary for the new air wipe for better positioning on Line 8.	Line 8 Blow Off Station	ISA-10 ADU Rods
14189	Grid Laser 3 Network Switch Replacement	Replace Cisco Switch with an Industrial Rated Allen-Bradley Switch	This switch is better configured to handled Ethernet I/P traffic and will hopefully reduce lag times between the camera and the HI	Grid Lasers	Components
14190	Grid Strap Pre-Cleaning System	This CCF will install a new pre-cleaning system for cleaning grid straps. The system will employ multiple solvent immersion tanks to clean die lubricants from grid straps. It will include forced ventilation to capture solvents that evaporate from the tanks and product.	The existing aqueous cleaning systems do not adequately remove die lubricants from the straps without multiple passes.	Next to RAMCO	Components
14191	Pump House #1 (Fire Alarm) Speaker Instllation	With this CCF, we will install simplex horns in Pump House #1. This installation will provide area ocupants the ability to hear important announcements from emergency personnel during the event of an emergency/drill. The initial tap setting will be .50w. The tap setting will be finalized during testing and noted on the dwg.	Per Greenbook 64280, occupants cannot clearly hear the announcements.	pump house #1	Grounds
14194	Pilot Line Safety Post	Install a barricade post on the pilot line over an unused pipe in the ground. NOTE: No changes are being made to any drawings as no arrangement shows this level of detail.	The pipe that protrudes from the ground can be a tripping hazard. A barricade will prevent this from occuring.	Pellet Area Pilot Line	ISA-08 Pelleting
14195	Additional Hood Drainage Holes	Install additional 1" holes to the bottoms of multiple hoods in the pelleting and erbia manufacturing areas. Note: No drawings are attached as no hood schematic in the area shows that level of detail.	Continuing implementation of NCISP requires additional drainage holes to be installed on hoods for crit safety concerns.	Pellet Area Ventilation Hoods	ISA-19 Hoods and Containment
14199	Install Temporary Standby Generator for Generator 5	Install Temporary Standby Generator for Generator 5. This CCF will allow us to install a temporary unit until repairs are completed on the existing unit's radiator.	The coolant radiator is leaking and needs to be removed for repair. The existing generator will be unavailable for service while the radiator is being repaired.	Standby generator near Erbia Dock	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14200	CL1 Calciner Steam Blowdown 3-Way Valve Alternate	This CCF will allow an alternate valve to be used for the calciner steam blowdown 3-way valve on CL1. The only difference with the alternate valve is that the sleeve material will be a high-temperature rated, chemically inert fluoropolymer instead of PTFE. Tufline-600 is the Xomox trade name for the material, and Xenith is the Xomox trade name for the valve family. The Tufline-600 sleeve is rated for temperatures up to 600 degrees F, whereas the standard PTFE sleeve is rated for 400 degrees F. The normal temperature of the superheated steam is less than 310 degrees F. The manufacturer's brochure containing valve details is attached. The ITR is linked as PSEDoc-0001871.	Multiple PTFE-sleeved valves across the 5 Conversion lines have been replaced when the installed valves failed the leak tests. The leaking valves are most likely the result of the PTFE sleeves not being the correct material for steam service over extended time periods, so this new valve will be installed for evaluation.	CL1 Calciner	ISA-03 ADU Conversion
14202	Replace Floor in SOLX 705 Blue M Hood	Replace floor in SOLX 705 Blue M Hood. Remove or cut out existing floor and weld a new floor in place. New floor is to be made of 0.25 in stainless steel plate. The new floor shall be properly supported underneath to minimize future warping.	Existing floor has depressions that are greater than 2". These depressions make the hood noncompliant to future NCSIP II implementation standards.	SOLX Blue M	ISA-19 Hoods and Containment
14203	Replace Floor in SOLX 704 Blue M Hood	Replace floor in SOLX 704 Blue M Hood. Remove or cut out existing floor and weld a new floor in place. New floor is to be made of 0.25 in stainless steel plate. The new floor shall be properly supported underneath to minimize future warping.	Existing floor has depressions that are greater than 2". These depressions make the hood noncompliant to future NCSIP II implementation standards.	SOLX Blue M	ISA-19 Hoods and Containment
14205	Line 2 Boat Loader Clamp Guard	Add a guard over the boat loader clamp piston. This change will not involve any SSC's.	The boat loader clamp piston and cylinder extend 6" into the aisle between the boat loader and the furnaces on each pellet line. This change will result in a guard that will protect operators in case they are walking by and the piston is in motion. This is similar to CCF-10633 already approved and in use.	Pellet Line 2 Boat Loader	ISA-08 Pelleting

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CCF-Number	Title	Description	Justification	Location	ISA ID
14206	Disconnect Rental Air Compressor	Disconnect the diesel powered oil free rental air compressor from the plant air header. This air compressor was used as a backup while primary air compressor was rebuilt.	The rental unit is no longer needed.	Air Compressor Room #2	Grounds
14208	Crit Horn Installation Facing Sludge Dewatering	With this CCF, we will install a Crit Horn on Loop 15 to face the Sludge Dewatering Building.	Per Greenbook 65316, During outside operations of The Sludge Dewatering Process, Operator noticed that during the 14:00 testing of the criticality alarm, you can hear the announcement for the criticality alarm but you never actually hear the crit alarm.	Crit Alarm System	Grounds
14210	LECO Electrical Demolition	A new panel, RPP-1G, conduit & wire was installed under CCF 11312 to feed power for the new LECO RHEN-802 hydrogen analyzers in the Chem Lab. The existing wiring and conduit for the old LECO power feeds from panel RP1-4HD, needs to be removed.	Demolition to allow future relocation of benches in LECO room back to walls to create more working space.	Chem Lab LECO Room	ISA-18 Laboratories
14212	Replace Ball Lock Pin with T-Handle Pin	The ball lock pins listed on drawing 448F04EQ01 are to be replaced with a T-handle pin. The ball lock pin introduce possible FM.	Removal of a component that could introduce FM in the packing area.	Packing Pit	ISA-17 Final Assembly
14213	Line 3 Boat Loader Cover	Add a guard over the boat loader clamp piston. This change will not involve any SSC's.	The boat loader clamp piston and cylinder extend 6" into the aisle between the boat loader and the furnaces on each pellet line. This change will result in a guard that will protect operators in case they are walking by and the piston is in motion. See CCF-10633 for a similar installation on line 1.	Pellet Line 3 Boat Loader	ISA-08 Pelleting

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CCF-Number	Title	Description	Justification	Location	ISA ID
14214	Line 4 Boat Loader Clamp Guard	Add a guard over the boat loader clamp piston. This change will not involve any SSC's.	The boat loader clamp piston and cylinder extend 6" into the aisle between the boat loader and the furnaces on each pellet line. This change will result in a guard that will protect operators in case they are walking by and the piston is in motion. See CCF-10633 for example of a previous installation on line 1.	Pellet Line 4 Boat Loader	ISA-08 Pelleting
14215	Return Standby Generator #5 To Service	Generator 5 was down for repair and we have a temporary backup generator in service. This CCF will allow us to return Generator 5 to service and remove the temporary unit from service.	Generator 5 needed to be removed from service to repair a leaking radiator.	Standby Generator #5 near the Erbia loading dock	Grounds
14216	Remove Unused Calciner Seal Alarm	ADU Line 2 has an audiable alarm that indicates when flow exceeds a value for the calciner seal purges.	This is the only line that has this alarm. These controls will be removed.	Under calciner platform	ISA-03 ADU Conversion
14219	Relocate Calciner Seal Purge Panel for Line 2	Relocate the existing Calciner Seal Purge panel. A new panel will be fabricated and installed as pre-work. The old panel will be removed during a cycle outage.	Allow space to install new equipment.	Under Calciner platform	ISA-03 ADU Conversion
14220	Install Laser X at CFFF	Install Laser X Zirc Grid Welder at the CFFF. This includes the supplementary equipment; Trumpf power supply, MBraun gas purifier, soot sucker system, heat exchanger, turbine blower analyzer/power/plc cabinets, vent system and roof mounted blower. Administrative SSC's will be added for PM's on cleaning/maintenance of soot sucker system. Admin SSC's do not require ITR or FER.	Relocation from Windsor facility to Columbia	New CE Grid Area	Components
14221	Install Automatic Spot Welder at CFFF	Install the Automatic Spot Welder from the Windsor Facility at the CFFF. Includes welding chamber, power conditioner, and spot welder power supply. Connect plant air, argon, and bottled air to Spot Welder	Relocation of Windsor CE Grid manufacturing to the Columbia site	New CE Grid Area	Components
14222	Install CE Grid View Machines at the CFFF	Install view machines and computer stations for CE Grid manufacturing at the Columbia site	Windsor CE Grid manufacturing relocation to the Columbia site	New CE Grid Area	Components

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CCF-Number	Title	Description	Justification	Location	ISA ID
14223	Install Downdraft Table for Zirc Grid Blending Station	Install wet downdraft table for capture of zirc fines during zirc grid blending operations. This is a new purchased piece of equipment designed per NFPA 484. SSC PM to be added for cleanout of sump. Admin SSC's do not require ITR's.	CE Grid manufacturing relocation to Columbia site.	New CE Grid Area	Components
14224	Install auxillary equipment for CE Grid Manufacturing	Install workbenches, cabinets, shelving, tooling storage systems, and carts for CE Grid Manufacturing at the Columbia site	Windor CE Grid manufacturing relocation to Columbia	New CE Grid Area	Components
14225	New SOLX Control Room Alarms for NCSIP2	Add alarm indication in Solx Control Room for UN Tank Alarms. Update UN Tank Gamma Monitor Difference Alarm from 1 to 2. Add Recirculation flow Alarm.	New Criticality Safety Evaluation requires new alarms to be installed.	WW in SOLX Control Room and PLC in UF6 Bay	ISA-02 Uranyl Nitrite Bulk Storage Tanks
14227	Remove XV-S-231-2 isolation valves	XV-S-231-2 on the Line 2 Scrubber nitrogen line is a redundant automated valve that provides a nitrogen purge to this equipment. Isolation valves were installed on XV-S-231-2 so that it could be isolated during development of the Line 2 Calciner Fire/Burner Management Safety upgrades process. The isolation valves need to be removed now because process development is complete and if they are closed XV-S-231-2 can not perform its N2 purge function. The two isolation valves will be removed and spools installed where they are currently located. Since XV-S-231-2 will not be electrically or mechanically disconnected safety significant controls will not be affected but because this is affecting (indirectly an SSC final element), the final element will be tested to verify proper operation after the installation of the spool pieces.	The isolation valves need to be removed because process development is complete and there is a possibility of Operations shutting the valves accidentally which would cause XV-S-231-2 to not perform its Nitrogen purge function.	Line 2 Calciner/Scrubber	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14228	Install CE Skeleton Build Process at the CFFF	Install CE Skeleton Build Process at the CFFF. This includes CE Skeleton Welder, Lower End Fitting Welder, Pull Table, Rollover Tables, Granite Table, Inpection Table, overhead crane system, new utility raceway and piping, new barrier wall between shipping area, and miscellaneous workstations, cabinets, and work benches	Relocation of CE Skeleton manufacturing from the Windsor site to Columbia	New CE Skeleton Area	Components
14229	Install Corrosion Coupons in Glass Column V-1081	Install 3 Teflon blocks with corrosion coupons on the 5th, 6th & 7th baffle from the bottom of section 5 up. PTFE Teflon blocks installed about 120 degrees apart. Drill 3/8 inch hole through baffles and attach the Teflon block and the corrosion coupon to the baffle using a 5/16 inch , course hex head, 316L stainless steel bolt & nut. Use a 316L washer on the outside connection points.	The corrosion coupons will help determine future materials of construction that may be more chemically resistant to process flows.	SOLX	ISA-07 Solvent Extraction
14230	Audible and Visual Notification for Septic System at Brigade Building	With this CCF, we will install a controls system with audible and visual indication that the septic holding tank needs to be pumped out. This installation will help prevent the inadvertent dump/spill of sewage onto plant grounds.	Alert area personnell to possible spill that could lead to an environmental violation.	Emergency Response Building	Grounds
14231	UPS #3 Remote Panel Removal	With this CCF, we will remove UPS#3's remote panel from service.	Initially when installed, there was a control room in ERBIA, now ERBIA is rarely manned. This control panel is currently faulty and is causing problems on UPS#3. Now that this panel is deactivated, UPS#3 works as normal. The same alarms functionality is already being transmitted to the Conversion Control Room and is no longer needed. If there is a problem on UPS#3, the Conv. Ctrl. Room (always manned) will notify Maintenance to take action.	UPS#3 / ERBIA	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14232	Install CE Upper End Fitting Welding Station	The CE UEF Assembly Welding process is being transferred from WFCF to CFFF. This CCF includes installation of the assembly station, welding stations, and the inspecting/packing station near the Tool Room Welding Area. Utilties and ancillary systems include air, argon, 480V and 120V power, and WATTS terminals.	Relocation of the CE UEF Welding process from the Windsor site to Columbia.	Tool Room	Components
14233	NRC Conf Rm and Grid Area Mgr Office (Fire Alarm) Speaker Installation	With this CCF, we will install simplex a horn in the Grid Area Manager's office and NRC confrence room. This installation will provide area occupants the ability to hear important announcements from emergency personnel during the event of an emergency/drill. The initial tap setting will be .25w. The tap setting will be finalized during testing and noted on the dwg.	Per Greenbook 65738, occupants cannot clearly hear the announcements.	NRC confrence room and Grid Area Mgr office	Grounds
14234	CL5 Calciner Steam Condensate Drain Line	For the CL5 calciner, install a new section of steam condensate drain line for a new separator to be installed per a separate CCF at a later date. Flanged ball valves will be installed in the new section of line, so that it can be isolated from the existing drain line until the separator is installed. A blind flange will be installed on the ball valve where it will be connected to the separator drain piping at a later date.	The drain line will be used for a separator to be installed per a separate CCF at a later date due to lead time limitations.	CL5 Calciner	ISA-03 ADU Conversion
14235	CL4 Calciner Steam Condensate Drain Line	For the CL4 calciner, install a new section of steam condensate drain line for a new separator to be installed per a separate CCF at a later date. Flanged ball valves will be installed in the new section of line, so that it can be isolated from the existing drain line until the separator is installed. A blind flange will be installed on the ball valve where it will be connected to the separator drain piping at a later date.	The drain line will be used for a separator to be installed per a separate CCF at a later date due to lead time limitations.	CL4 Calciner	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14236	CL3 Calciner Steam Condensate Drain Line	For the CL3 calciner, install a new section of steam condensate drain line for a new separator to be installed per a separate CCF at a later date. Flanged ball valves will be installed in the new section of line, so that it can be isolated from the existing drain line until the separator is installed. A blind flange will be installed on the ball valve where it will be connected to the separator drain piping at a later date.	The drain line will be used for a separator to be installed per a separate CCF at a later date due to lead time limitations.	CL3 Calciner	ISA-03 ADU Conversion
14237	CL2 Calciner Steam Condensate Drain Line	For the CL2 calciner, install a new section of steam condensate drain line for a new separator to be installed per a separate CCF at a later date. Flanged ball valves will be installed in the new section of line, so that it can be isolated from the existing drain line until the separator is installed. A blind flange will be installed on the ball valve where it will be connected to the separator drain piping at a later date.	The drain line will be used for a separator to be installed per a separate CCF at a later date due to lead time limitations.	CL2 Calciner	ISA-03 ADU Conversion
14238	CL1 Calciner Steam Condensate Drain Line	For the CL1 calciner, install a new section of steam condensate drain line for a new separator to be installed per a separate CCF at a later date. Flanged ball valves will be installed in the new section of line, so that it can be isolated from the existing drain line until the separator is installed. A blind flange will be installed on the ball valve where it will be connected to the separator drain piping at a later date.	The drain line will be used for a separator to be installed per a separate CCF at a later date due to lead time limitations.	CL1 Calciner	ISA-03 ADU Conversion
14239	CL5 Calciner Steam Separator and Trap	Install a separator in the steam supply line to the CL5 calciner between the superheater and the 3-way valve. Also install a trap downstream of the separator in the steam condensate line. A future CCF will implement the separator and trap as a SSC at a later date.	This modification is to prevent significant amounts of water from reaching the calciner.	CL5 Calciner	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14240	CL4 Calciner Steam Separator and Trap	Install a separator in the steam supply line to the CL4 calciner between the superheater and the 3-way valve. Also install a trap downstream of the separator in the steam condensate line. The separator and trap will be implemented as a SSC at a later date. CCF was demoted and then re-promoted to include a design change to tie the steam trap condensate drain line directly into the V-410 condensate pot. The updated ITR is now linked as PSEDoc-0002074 rev. 1.	This modification is to prevent significant amounts of water from reaching the calciner.	CL4 Calciner	ISA-03 ADU Conversion
14241	CL3 Calciner Steam Separator and Trap	Install a separator in the steam supply line to the CL3 calciner between the superheater and the 3-way valve. Also install a trap downstream of the separator in the steam condensate line. The separator and trap will be implemented as a SSC at a later date. CCF was demoted and then re-promoted to include a design change to tie the steam trap condensate drain line directly into the V-310 condensate pot. The updated ITR is now linked as PSEDoc-0002075 rev. 1.	This modification is to prevent significant amounts of water from reaching the calciner.	CL3 Calciner	ISA-03 ADU Conversion
14242	CL2 Calciner Steam Separator and Trap	Install a separator in the steam supply line to the CL2 calciner between the superheater and the 3-way valve. Also install a trap downstream of the separator in the steam condensate line. The separator and trap will be implemented as a SSC at a later date. CCF was demoted and then re-promoted to include a design change to tie the steam trap condensate drain line directly into the V-210 condensate pot. The updated ITR is now linked as PSEDoc-0002076 rev. 1.	This modification is to prevent significant amounts of water from reaching the calciner.	CL2 Calciner	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14243	CL1 Calciner Steam Separator and Trap	Install a separator in the steam supply line to the CL1 calciner between the superheater and the 3-way valve. Also install a trap downstream of the separator in the steam condensate line. The separator and trap will be implemented as a SSC at a later date. CCF was demoted and then re-promoted to include a design change to tie the steam trap condensate drain line directly into the V-110 condensate pot. A vent line will be installed on the V-110 condensate pot to ensure that the pot is always at atmospheric pressure and for consistency with lines 1-3. The updated ITR is now linked as PSEDoc-0002077 rev. 1.	This modification is to prevent significant amounts of water from reaching the calciner.	CL1 Calciner	ISA-03 ADU Conversion
14245	Bravo Gate Temp Electrical Svc	With this CCF, we will run a temporary electrical svc. out to the new bravo gate.	A gate has been added to this location and are manned 24/7. The recently purchased generator is being ran 24/7. Per conversation with Carolina Lift and Hoist the generator will not last much longer. Construction of the logging road is not happening as quickly as expected.	Bravo Gate	Grounds
14246	Coater 1 IFBACTR-118 Electrical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 1	ISA-14 IFBA Processing
14247	Coater 2 IFBACTR-118 Electrical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 2	ISA-14 IFBA Processing
14248	Coater 3 IFBACTR-118 Electrical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 3	ISA-14 IFBA Processing
14249	Coater 4 IFBACTR-118 Electrical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 4	ISA-14 IFBA Processing

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CCF-Number	Title	Description	Justification	Location	ISA ID
14250	Coater 5 IFBACTR-118 Electrical	Installation of devices for the future safety significant control IFBACTR-118 Note: Even though this CCF does not required an ITR, one has been completed because this control will, in the future, be implemented as an SSC. This first ITR was completed to confirm now that the control will meet the requirements of the SSC when implemented as such in the future. Subsequent CCF's to install controls on the remaining 7 coaters will not have an ITR. Instead, the CCF under which the control for all 8 coaters will be implmented as an SSC will have an ITR.	Future CSE implementation	Coater 5	ISA-14 IFBA Processing
14251	Coater 6 IFBACTR-118 Electrical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 6	ISA-14 IFBA Processing
14252	Coater 7 IFBACTR-118 Electrical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 7	ISA-14 IFBA Processing
14253	Coater 8 IFBACTR-118 Electrical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 8	ISA-14 IFBA Processing
14254	Coater 1 IFBACTR-118 Mechanical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 1	ISA-14 IFBA Processing
14255	Coater 2 IFBACTR-118 Mechanical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 2	ISA-14 IFBA Processing
14256	Coater 3 IFBACTR-118 Mechanical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 3	ISA-14 IFBA Processing
14257	Coater 4 IFBACTR-118 Mechanical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 4	ISA-14 IFBA Processing
14258	Coater 5 IFBACTR-118 Mechanical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 5	ISA-14 IFBA Processing
14259	Coater 6 IFBACTR-118 Mechanical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 6	ISA-14 IFBA Processing
14260	Coater 7 IFBACTR-118 Mechanical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 7	ISA-14 IFBA Processing
14261	Coater 8 IFBACTR-118 Mechanical	Installation of devices for the future safety significant control IFBACTR-118	Future CSE implementation	Coater 8	ISA-14 IFBA Processing
14262	SSC IFBACTR-118 Implementation	Implmentation of SSC IFBACTR-118 on all 8 coaters.	CSE Implementation	all 8 coaters	ISA-14 IFBA Processing

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CCF-Number	Title	Description	Justification	Location	ISA ID
14266	Line 5 Boat Loader Cover Modification	Add Note to 325F10EQ02, Sht 24, Item 133 to allow multi-piece construction of cover. Note: Ref. CCF 13055 for similar modification.	Allow fabrication of pellet conveyor secondary top cover from multiple pieces of Lexan via glued/screwed construction to improve installation and ease of repair.	ADU Pelleting \ Line 5 Boat Loader	ISA-08 Pelleting
14271	Separate N2 Isolation From L2 and Q-tanks	This CCF would separate the feed lines for the L2 discharge screw and the Q-tank BPCS level transmitters.	Allow for proper LOTO without losing the Q-tank level transmitters.	L2 Calciner Platform	ISA-03 ADU Conversion
14273	Glass Column Baffle Support Plate	Change design of baffle support plates' thickness from 1/4" to 1/2".	By making the plate thicker will help prevent it from warping out of tolerance when welding the the center support rods to nut. Also, when plate is etched from chemicals, it can be refurbished to a smooth finish by Tool Shop while still meeting the thickness tolerance.	V1081, V1481, V1082, V1482	ISA-07 Solvent Extraction
14274	New Fork Lift Charging Station	With this CCF will make the electrical connection to a battery charger for a newly purchased fork lift in the Patriot building.	Area personnel purchased a new battery powered fork lift for the patriot building.	Patriot Building	Grounds
14275	Simplex ZAM Substitution in Non SSC applications	With this CCF, we will use ZAM model 4090-9101 in place of ZAM model 2190-9155. These ZAMs are used in SSC and Non-SSC applications on the Simplex system. This CCF will cover non-ssc application installs. A new CCF will be required for SSC applications. Spec sheets (old vs. new) attaced to this CCF and ITR	Per the Mfg, Model 4090-9101 is the replacement for Model 2190-9155 (now discontinued). Model 4090-9101 uses communication protocal MAPNET or IDNET while the 2190-9155 is MAPNET only. The programming point types and devices types are the same. The function of the device is the same.	Simplex Fire Alarm System	Grounds
14276	Install Current Monitor on Condenser Fan and Duct Heaters for Line 5	Install current monitoring to BPCS for Line 5 Condenser Fan and Duct Heaters, relocate wires to the Moisture Sampler PLC and add resistors in-line with FIT-S-502-9 and LIT-S-502-10.	Better monitor equipment, improve reliability amd ease of use.	Line 5 Dryer Panel	ISA-03 ADU Conversion
14278	CL4 Decanter Rotating Assembly Pulley Change	Change the existing rotating assembly pulley on the CL4 decanter to a pulley with smaller diameter. Also change the belt to one with a shorter length to compensate for the pulley change.	This change will increase the rpm of the bowl to allow better separation of ADU from the ammoniated solution.	CL4 Decanter	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14280	Over Speed Shut Down Switch on Diesel Engine on Fire Pump #1	The over speed switch on the diesel engine that drives #1 Fire Pump has failed and is obsolete. This CCF will allow replacement of the obsolete over speed switch with an OEM recommended Woodward electronic speed switch. This installation will be performed by an OEM's technician. No drawing changes are affected by this work. The technical manual for the Woodward switch is attached.	The over speed shut down switch on the diesel engine that drives #1 Fire Pump has failed and is obsolete.	#1 Fire Pump House	Grounds
14281	Remove Helium needle valve for line 9 and add lockable ball valve	Remove the current Helium needle valve leading to line 9 and replace it with a lockable ball valve.	The current valve is too high for most operators to reach while standing on the ground and is not lockable. The current valve is also leaking.	Line 9 Utilities	ISA-12 IFBA Fuel Rod Manufacturing
14282	BoatLoader #3 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 3 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 Obselescence 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.	BoatLoader #3	ISA-08 Pelleting
14283	Remove Argon needle valve for line 9 and add lockable ball valve	Remove the current Argon needle valve leading to line 9 and replace it with a lockable ball valve.	The current valve is too high for most operators to reach while standing on the ground and is not lockable.	Line 9 Utilities	ISA-12 IFBA Fuel Rod Manufacturing
14284	Skeleton Bulger Control Circuit Modification	Modify the control circuit of skeleton bulgers #1-#3 drive assist mechanism. Wiring will be changed to activate the "short stop" solenoid when the local control mode is selected.	Enhancement of existing controls.	Skeleton Bulger Area	ISA-17 Final Assembly

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CCF-Number	Title	Description	Justification	Location	ISA ID
14287	R53 Press Robust Hopper	Change hopper design from 361F03EQ12 configuration(attached) to 361F17EQ04 configuration(see For Construction drawings).	Improve robustness of hopper design. New design has increased wall thickness. The majority of the hopper diameter was reduced to allow construction from 8" NPS, Schedule 10 pipe. The hopper nozzle was reconfigured to better fit with the hopper valve & gasket. The hopper hydraulic jack pads were redesigned and relocated, and a new jack base ring was designed to allow better fit/use of the hopper jacks. In conjunction with the jack base ring, a spacer ring was designed to take-up the gap between the new hopper and the base ring.	ADU Pelleting \ Line 5 Press	ISA-08 Pelleting
14288	Remove Abandoned HF Detector System in ADU Control Room	Remove Abandoned HF Detector System in ADU Control Room. System has been abandoned in place.	Clean up area by removing unused equipment.	ADU Control Room / UF6 Bay	ISA-03 ADU Conversion
14290	Relocate air hose connection from Column F12 to Nozzle Inspection Table	Relocate current air hose connection from the Column F12 location to the Nozzle Inspection Table where it is utilized.	During a JSA creation, an improvement was recognized in the placement of the air hose connection. Currently, the Inspectors have to pull the air hose across the aisle, potentially creating a safety hazard. By moving the connection to the table, the air hose is located where it is needed and won't pose a danger during use.	P/A Nozzle Inspection Station	ISA-10 ADU Rods
14291	Move DI Water Flow to a Different Analog Input on the Scrap Cage Washing Machine	Move DI Water Flow to a Different Analog Input on the Scrap Cage Washing Machine.	Curently the DI Water flow is tied to Analog Input 1 (AI-1). We have a "noisy signal" on that input even though the field signal is steady. We have tried unsuccessfull to repair this issue but were unsuccessful. We will be relocating the DI Water flow to another analog input. AI-1 is the only channel exibiting this issue.	Scrap Cage Washing Machine in Conversion Area	ISA-11 Scrap Uranium Processing

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CCF-Number	Title	Description	Justification	Location	ISA ID
14292	PLN3 Oxidation Oven Hoist Replacement	1. Replace drum hoist motor on PLN3 Oxidation Oven. This is the second of two installations, the first of which was for PLN4 under CCF 14026. 2. Replace rear hood panels on PLN3 and PLN4 ovens with new panels containing windows to view hood interior.	Two new Oxidation Ovens and associated hoods and ductwork were installed and released to production in October as per original AR commitments. However, once in production, Pelleting Operations began having problems with the hoist motor design provided by the vendor, SPX-Thermal Product Solutions. This design was reviewed and approved by PSE, Pelleting Operations, and Maintenance. Certain features of the design were causing the cable on the hoist to unspool and, in two separate cases, break causing damage to the door hoist pulleys. It was also noted on several occasions that the cable was not spooling properly onto the hoist drum. It was determined that a major weakness to this design is the fact that approximately 33??? of cable remains on the drum after the door is fully closed and if for some reason a limit isn???t made or the door contacts an obstruction such as an oxidation pan, the hoist will continue to spool out and feed extra slack cable to the pulleys. If the cable then comes off a pulley	CFFF	ISA-08 Pelleting
14293	ADU Line 5 Calciner Safety Upgrades Phase 1	Install instrumentation and equipment related to the Line 5 Calciner and Scrubber upgrades. In this first phase the burner gas train and flame management controls will be replaced with modern equivalents. The first discharge screw interlock will be migrated from the GE PLC to the BPCS. Also, valving between the P-512 pumps and the scrubber will be eliminated.	This work will help meet the plants Safety Life Cycle objectives and improve compliance with NFPA standards.	ADU Line 5 Calciner, Scrubber, and V-512 tank	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14294	Replace Obsolete pH Transmitter 1016	Replace Obsolete pH Transmitter 1016 in the Scrap Cage.	Transmitter is obsolete and the current pH probe will not work with this instrument. We will be changing from a loop powered instrument to a 4 wire type.	Scrap Cage in conversion at the Ammonia Fume Scrubber	ISA-11 Scrap Uranium Processing
14295	Rod Line 8 Weld Chamber Vision System	The scope of this project is to install a high resolution camera vision system to monitor the Electrode Position during setup and once programming is done in the next phase it will be used to enable or disable a weld based on electrode position.	While the current inspection system in place provides a high level of confidence, there is a large amount of subjectivity in regards to the electrode placement which often leads to multiple adjustments on a given shift. The COPQ in reworks, scrap, material and labor charges make this a project to pursue. See linked PRF	Rod Line 8 Weld Chamber	ISA-10 ADU Rods
14297	Blue-M drain holes	Drill two 1" diameter drain holes in two of the faces of both of the Blue-M enclosures, to prevent accumulation. Also, each sifting enclosure will have 2 drain holes.	Implementation of CSE 19-A	scrap cage blue-M's	ISA-19 Hoods and Containment
14298	CL1 XV-109G Replacement	The valve and actuator used for the CL1 hydrogen vent valve XV-109G is obsolete. This CCF will allow replacement of the valve and actuator. The valve is exactly the same except the actuator mounting point is physically different. The new actuator that will be used is a Jamesbury VPVL100SR45BD. The literature for the new actuator is attached.	Valve and actuator are obsolete.	CL1 Calciner	ISA-03 ADU Conversion
14299	pH Transmitter Substitution	Model 54 Rosemount pH/ORP Transmitter is obsolete. This CCF will allow us to replace storeroom item 79679 with a model 1056. This CCF will also allow us to use storeroom number 79679 (model 1056) or the existing storeroom (Model 56)in place of the obsolete Model 54 units. The Model 1054 is a single channel unit while the Model 54 has many more configurable options (memory, P&ID, color screen). Both units can be configured to function as the obsolete model 54.	The existing model 54 is obsolete.	Storeroom Parts	Components

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CCF-Number	Title	Description	Justification	Location	ISA ID
14301	V-116x Q-Tanks DI Water & Nitric Acid Piping Modifications	Add drain valves to the DI water and nitric acid piping to Q-Tanks V-116A, V-116B, and V-116C.	The new drain valves will facilitate draining the piping prior to installing or removing spool pieces.	V-116x Q-Tanks	ISA-03 ADU Conversion
14302	Erbia Grinder Centrifuge Diaphragm Pump Change	Change the Erbia Diagphram Pump from Sandpiper P/N SB1-A-SN-4-SS(S/R # 990030) to Sandpiper P/N SB1-A-SGN-5-SS(S/R # 254037). This pump is shown as 383F09PI02, P-9267. Note: The particular P/N for this pump is not specified on any Erbia drawing.	The P/N SB1-A-SN-4-SS is obsolete. Instead of updating the pump to the latest Sandpiper P/N, this CCF will allow use of the Sandpiper P/N SB1-A-SGN-5-SS pump which is already used for the same application on the ADU centrifuge system(Ref. 321F06EQ08, It. 34). The pumps are identical except for the the internal gasket, seat, diaphragm and ball material specifications - see attached data sheets for material differences.	Erbia \ Grinder	ISA-20 ERBIA
14304	Add lockable ball valve to line 1 air supply	The current gate valve used to isolate the air supply to line 1 is difficult to reach. I will add a lockable ball valve that is easier to reach for locking out the equipment.	Ease of LOTO	Line 1 ADU Rods	ISA-10 ADU Rods
14306	Met Lab Man Door Window Installation	This CCF will either install a window in the existing door in the Met Lab next to the step off pad by the ventilation hood or replace the door with one with a window. The wall and current door is not a fire barrier. The window will allow people to view the other side of the door prior to opening. The attachment shows the current door and a similar door with the window.	Increases safety by allow users to see if someone is on the other side of the door.	Next to step off pad next to the ventilation hood	ISA-18 Laboratories
14308	Remove flip tray shelves from loading table	Flip trays are no longer used for fixture loading. The flip tray shelves protrude from the table and operators are bumping their knees on the shelves. Remove the flip tray shelves from the fixture loading table.	Safety - possible injury to operators	IFBA/FA1	ISA-14 IFBA Processing

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CCF-Number	Title	Description	Justification	Location	ISA ID
14309	Allow alternate Barcode reader Camera on Gamma Scanner3	This CCF will allow us to use "Pixelink" Bar code reader cameras on Gamma Scanner 3. 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.	Gamma Scanner3	ISA-10 ADU Rods
14311	PLN3 & 4 Oxidation Oven Door Actuator Guards	Expanded metal guards to be added over existing exposed ends of actuators to cover slides that move laterally with door operation.	Addresses a safety concern with human interference with actuator slides (pinch points).	CFFF	ISA-08 Pelleting
14313	T-1109 Lime Transfer Piping to T-1147	Install new piping from recycle line on T-1109 to the top of T-1147.	Prevent potential backflow of uranium-bearing materal from T-1147 to T-1109.	Outside URRS	ISA-15 URRS Wastewater Treatment System
14320	Re-Range FIT-S-502-1	Modify Range for DI Water Flow transmitter from 0-3 GPM to 0-5 GPM. Correct Breech lock indication in Vaporizer B startup sequence.	Modify range to prevent out of range error on SIS.	Line 5 Hydrolysis Column DI Water Transmitter	ISA-03 ADU Conversion
14322	Install new gas piping and manifolds in LECO Room	New gas piping and manifolds need to be installed and tied into existing gas sources in the LECO room of the Chemical Laboratory. The gases involved are plant argon, plant helium, plant air and bottle oxygen.	The installation of the piping and manifolds are part of the LECO modification project. The project is to push the tables and equipment back to the wall, so that more room will be available in the room.	Chemical Laboratory	ISA-18 Laboratories
14323	Replace Line 4 Condensate Level Probes	Replace Line 4 High and High High Condensate Level Probes for Both Vaporizers. ADUVAP-906 and ADUVAP-907 will be affected by this change.	Existing probes made by DrexelBrooks are obsolete. Install new vibrating fork level probes to replace existing probes.	UF6 Bay in Trench	ISA-03 ADU Conversion
14324	Add valve to instrument air line in Scrap Cage	Add a fail-close valve to the instrument air line supplying the scrap cage. The air supply to the actuator will come from the same line in which the valve is installed, so that upon loss of instrument air, the valve will fail closed to prevent back flow of SNM. Also, remove an abandoned section of instrument air line above the cream can storage area.	Implementation of CSE 11-D	scrap cage	ISA-11 Scrap Uranium Processing

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CCF-Number	Title	Description	Justification	Location	ISA ID
14325	Add Receptacles Circuits to Plating Room	Add Receptacles Circuits to Plating Room CCF Demoted 06/25/14: Necessary to modify drawing to replace the existing 5KVA transformer with a 10 KVA transformer.	Not enough power available CCF Demoted 06/25/14: Existing transformer is a 5KVA and not sufficient to supply the additional load on receptacle panel (RP-15B).	Plating Room on Mechanical side	Components
14328	Centrifuge Bearing Lubrication Change	Manufacturer(FAG) has changed the bearing P/N from: 6208.2RSR.C3.L12 to: 6208.2RSR.C3.L038. The L038 designation is a lubricant code indicating the use of an Exxon brand, "Polyrex" mineral oil based lubricant.	The L12 lube code is for an obsolete European designation for a lubricant with a slightly different temperature rating, but the same base component. Ref. attached e-mail correspondance.	Erbia and ADU Pelleting \ Centrifuges	ISA-20 ERBIA
14329	Modify inlet of Plating Room AC unit	Modify the inlet of the Plating Room AC unit to draw air from the building in addition to outside the building. A baseline of the plating room air balance will be measured and recorded prior to the modification. Post modification testing will be performed to ensure the proper air balance is maintained.	The current AC unit does not have sufficient cooling capacity to keep the Plating Room floor dry during hot and humid days.	Roof over Plating Room	ISA-01 Plant Ventilation System
14330	Prominent Pump P/N Change	Change the storeroom specification P/N of the Prominent pump used for the worm lube system on the R53 Press from BT4A1601SST100UD00000 to BT4B1601SST100UD00000. Per the manufacturer, the solenoid and electronics have been upgraded between the A and B Series Pumps. Section 2(page 8) of the attached BT4B manual provides more detail re: the differences between the BT4A and BT4B pumps, namely the addition of a pulse switch. The form, fit and function of the pump is not affected by this change i.e. no electrical or mechanical changes are required to install the new pump. A copy of the BT4A manual is also attached for reference.	The BT4A Series pumps are obsolete and have been replaced by the BT4B series.	ADU Pelleting \ R53 Presses	ISA-08 Pelleting

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CCF-Number	Title	Description	Justification	Location	ISA ID
14331	ADU Line 2 Calciner Punchlist Items	Revise programming to accomodate changes requested by operations. The Calciner nitrogen purge time will be extended to allow a lower flowrate. The Calciner high hydrogen flow trip point will be raised to reduce nusiance trips. Programming for Calciner Run-Out mode will be modified to eliminate the confusion caused by having operator controls on both the BPCS and SIS systems. The Calciner combustion airflow transmitter will be connected directly to the SIS PLC to streamline combustion chamber purge controls.	These changes will apply improvements recently made for the Line 5 Calciner to Line 2.	ADU Line 2 Calciner	ISA-03 ADU Conversion
14332	AC29 and Electrician Stepoff Pad CWW Drains	Connect electrician step-off pad sink to the pressure powered pump. Connect AC-29 condensate drain and roof vent to the CWW PVC header.	The CWW drain piping in this area has been replaced with new piping and the stepoff pad, AC drain and roof vent need connected to the new piping.	Maintenance Electrial Shop	Grounds
14333	Gamma Scanner 3 New Cognex Barcode Readers	This project will replace the existing barcode readers on Gamma Scanner 3 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. 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.	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 similiar parts are no longer available. The new readers are well supported and have demonstrated an operator Free read rate of 99.4% or better.	Mechanical Area Just Off Main Aisleway	ISA-10 ADU Rods
14334	Remove ETAPS computer between ADU lines 3 and 4	We do not need this computer in the area and want to remove it.	The ETAPs computer pedestal presents a challenge when we have to remove rods from line 4.	ADU Rod Line 3 and 4	ISA-10 ADU Rods

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CCF-Number	Title	Description	Justification	Location	ISA ID
14335	Upgrade Conductivity Analyzer on SOLX Concentrator	Upgrade Conductivity Analyzer CT-1085 on the V-1085 condensate recovery vessel in the SOLX Concentrator System. Replace the current Rosemount Analytical Analyzer Model 54 with a Model 56.	The current analyzer is obsolete and potentially entering noise into the electronic output readings. Operators cannot trust the conductivity readings even after a recalibration. The analyzer will be replaced with a model that is already common to other areas.	SOLX	ISA-07 Solvent Extraction
14339	Drain Tie-Ins to New CWW Piping	Connect the following four pipes to the new CWW drain pipe per the attached drawings. 1. Sink in Rebuild Shop 2. Sink in Chem Tool Room Shop 3. Sink in Instrument Shop 4. Chem Prototype Hood Drain, Chem Prototype Lab Sink, T-Room AC Condensate Drain and Men's Restroom Sink Drain (one pipe).	A new CWW above ground pipe was previously installed. This CCF will connect the above listed water sources to the new CWW piping.	Chemical Maintenance Area	Grounds
14341	Add plastic trim to small stainless channels between gamma scanner and D&V	We would like to try adding the attached plastic trim to one or both ends of a few of the small stainless steel channels between the Gamma Scanners and D&V - drawing #438F09TL05.	To see if it can eliminate the scratches in the oxide coated region of the rods.	Rod Inspection	ISA-10 ADU Rods
14342	Fountain and Sink Drains Tie In to CWW Piping	Tie drinking fountain and woman's washroom sink drains to new CWW piping per the attached drawings.	New CWW drain piping has been installed and the sinks and drinking fountain need to be connected	Below T Meeting Room	Grounds
14344	Line 5 Add-Back Feeder Replacement	Replace FMC 192930, 59" long, vibratory tubular trough with FMC 6500-343, 64" long, vibratory tubular trough. FMC drawings are attached for reference.	The 192930 feeder was field modified during initial installation to extend the tube length for entry in to the 325F01EQ08 Transition Piece(Xmas Tree). This negatively affected the performance of the feeder. Due to the poor performance of the feeder and associated damage, the feeder will be replaced with the 6500-343 feeder which is designed with the correct tube length.	ADU Pelleting \ Line 5 Add-Back Feeders	ISA-08 Pelleting

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CCF-Number	Title	Description	Justification	Location	ISA ID
14345	Line 2 Walking Beam Transfer Mechanism	Change mild steel to stainless steel for item 83 cam and item 18 mounting plate. Refer to rlated document for PSEDoc with drawings and further explanation.	To get rid of the potential for rod contact with paint	ADU rod line 2 between pluger ramp and walking beam	ISA-10 ADU Rods
14346	Line 8 - Change roller mount for carbon to stainless steel	The roller mount at the top end of the tube when it is retracted from the UT is made from carbon steel and painted blue. I want to change this mount to stainless steel	If the tube misses or bounces off the roller it could contact paint.	Line 8 UT section	ISA-10 ADU Rods
14347	Install Future Tie-In to Nitric Acid Header in SOLX	Install Future Tie-In to Nitric Acid Header in SOLX.	The current nitric acid header in SOLX has a leak. Portions of this line will need to be rerouted and rebuilt in order to complete the repair. This tie-in will grant access to nitric acid for a future process modification to be covered under a future CCF.	SOLX	ISA-07 Solvent Extraction
14348	Drainage holes in line 7 dry box	Drill 1" diameter drain holes (6 total) in the dry box system. 2 holes each will go in the trough under the oven #1 and oven #2 conveyor and 1 hole will go in the vestibule in front of oven #1 exit door and oven #2 exit door.	Drainage holes for future NCSIP II CSE implementations.	Dry box in IFBA	ISA-12 IFBA Fuel Rod Manufacturing
14349	Modify QC Lab Window to be Split Window	Fabricate and install a split door for the QC lab sample pass through window. The window was recently modified and enlarged to be able to pass samples through easier. Larger door extends too far and needs split into two halves.	To better improve access for passing samples into the QC lab.	Chem Lab - QC Lab Room	ISA-18 Laboratories

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CCF-Number	Title	Description	Justification	Location	ISA ID
14351	V302/V305A/V306A Modifications	V306A DI water supply to the flush rings will be relocated upstream of FCV305D to maintain flow while preventing backflow. A new DI supply isolation valve will be installed at waist level so that Operators can more easily access it. The P302A&B to V-306A transfer line will be removed. Old Spiking Station transfer piping will be removed. The drain on the V-306A tank, P-306B pump/associated piping will be removed and the P-306A pump drain will be relocated.	V306A DI water supply to the flush rings does not have enough force to overcome a U tube loop installed to prevent uranium migration. Operations has requested that a DI supply isolation valve be installed at waist level for easier access. P302A&B to V-306A line removal is part of the Line 3 SIS implementation to prevent transfers. Operations has requested that P306B and Old Spiking Station transfer piping be removed since it is no longer needed.	Line 3 Precipitator	ISA-03 ADU Conversion
14353	Connect Fire Pumper Truck to Fire Suppression Loop	Currently the diesel engine that drives #2 fire pump has failed beyond repair. The lead time on a new diesel fire pump is 6-8 weeks and then 2 weeks of installation and commissioning. Our plant will be operating during these 2 plus months with only 1 fire pump available if needed and no backup pump. The interim contingency plan is to remove the failed pump and install a spool piece in place of the pump. Remove the octopus valve header on the outside of the pump house and connect a hard suction hose in its place. This hose will be connected to the suction side of the Fire Pumper Truck. Then connect the discharge of the Fire Pumper Truck to # 9 Hydrant. Then if the need arises for additional fire water, the Pumper Truck will draft from the 250,000 gallon fire water tank and the discharge from the Pumper Truck will supply fire water to the loop through hydrant # 9.	Currently Fire Pump #2 is out of service, awaiting replacement. Fire Pump #1 is the only fire pump available if needed.	Grounds	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14354	1030 Conversion Platform Handrail	Replace 6' section of handrail with 6' pivot gate on the 1030 Conversion platform. see attachment	Currently workers lift filters, etc. over rails to lower to roof. This action is a potential safety hazard. Use of a gate will allow workers to lower filters, etc. without having to lift over rails.	1030 Conversion Platform	Grounds
14355	Removal of Faucet on the North Wall in IFBA Chemistry Lab	Removal of an unused faucet on the north side of the IFBA Chemistry Lab. The faucet will be removed from the counter. The water line will be plugged. Photo of the faucet and general locationof the faucet is attached to the CCF.	The faucet is no longer being used.	Counter located on the north wall in the IFBA Chemical Lab	ISA-18 Laboratories
14356	Modify Cap To Allow Conduit To Run Through	Currently the sensor cord is running out and around the hood, this modification would allow for the sensor cord to run straight through the cap.	The cord is being crimped by the sides of the hood sliding against bulk containers. This would fix that situation.	Bulk Blending	ISA-05 ADU Bulk Powder Blending
14357	Development Lab Upender Cart	Place into service a cart that was designed to allow the new Development Lab Upender to be moved about the lab more readily.	If a cart isn't utilized, movement of the Upender would be limited to the area within the reach of the overhead crane.	CFFF, Development Lab	ISA-18 Laboratories
14358	Add a remote to the feeder crane in the bulk room	The crane we use to install feeder valves has a pendant that is tied up out of the way when not in use. The pendant has been inadvertantly pulled out of the crane on several occasions. This CCF would add a wireless remote to prevent reoccurance.	The pendant has been pulled out of the crane inadvertantly on several occasions.	Bulk Blending	ISA-05 ADU Bulk Powder Blending
14359	Dual backflow preventer for FP1058	As part of the NCSIP II program a second BFP (back flow preventer) will be added to DI water line 074-1"-40 in front of the existing BFP. An existing check valve will be removed and a ball valve and orifice plate relocated as part of this effort.	Part of the NCSIP II program to address potential backflow to tanks T204 and T1365.	Scrap Recover / Precipitation System	ISA-11 Scrap Uranium Processing
14360	Dual Backflow Preventers for T1365 Ln223	As part of the NCSIP II program to protect DI Water tank T1365. A set of four BFP's will be added to Ln 223. The BFP's will be set up in series as an SSC with another set in parallel for backup. This unit will be located just inside the door that accesses T1365. This CCF is related to CCF14361 adding BFP's to Ln 219. This should protect T1365 from backflow	Part of the NCSIP II program to address potential backflow to tanks T204 and T1365	In the UF6 Bay adjacent to the door accessing T1365	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14362	Line 5 Calciner/Scrubber Safety Modifications	This CCF is for mechanical installation of Conversion Line 5 valves, instruments and other items. FIT-S-509-4 Rosemount DP Flow Transmitter, XV-S-509-3&4 fail close block valves and XV-509-5 fail open Bleed Valve will be installed. A new vent line will be installed from XV-509-5 and attached to the existing hydrogen vent line for XV-509G which exhausts from a roof penetration. FIT-S-509-3 Rosemount DP flow transmitter and a flow orifice will be installed and activated on the nitrogen purge line to the Line 5 Calciner. A fail open XV-509-A1 valve will be installed on the nitrogen line after FCV-509A. FT509DP will be replaced by FIT-S-509-2 Rosemount DP flow transmitter and a spring open manual valve (007-1) will be installed/activated on the nitrogen line suppling PIT-S-509-1. FT509B Steam Vortex flow transmitter will be renamed FIT-S-509-1 and will be moved to a position on the steam line going into the end of the Line 5 Calciner where the steam 3 way valve is currently located. This will require moving the steam 3 way valve (which is an SSC) and its isolation valve to a location upstream of FIT-S-509-1. FT-509E will be installed/activated on the primary nitrogen	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). 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.	Line 5 Calciner/Scrubber	ISA-03 ADU Conversion
14365	Direct Line from DI Water Building to T-1365	Install new piping from DI Water Building units to the top of T-1365.	To supply the plant with DI Water at a more consistent pressure when running off the DI Water building. T-1365 would supply the plant directly, while the DI Water building would maintain T-1365 level.	DI Water Building, T-1365	Grounds
14369	Replace Power Supply in HF Spiking #2 Panel	Existing power supply is obsolete and the replacement will not fit in the same location	Existing power supply is obsolete	HF spiking #2	ISA-03 ADU Conversion
14370	ADU Rod Line 2 Tray Loader Indexer Upgrade	Upgrade Pneumatic/Hydo-Check System to Servo Similar to ADU Rod Line 3 and 4.	Old system is obsolete, leaks and difficult to maintain.	Chemical Side - ADU Rod Lines	ISA-10 ADU Rods

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CCF-Number	Title	Description	Justification	Location	ISA ID
14371	ADU Rod Line 2 Girth Welder Rotation Motor Upgrade ADU Rod Line 2 Girth Welder Rotation Motor Upgrade	Upgrade DC Motor used for Rotation of Girth Welder Chuck to Servo	DC Motor Controls Are Obsolete	Chemical Side - ADU Rod Lines	ISA-10 ADU Rods
14372	Zirc Knock Out Tank	With this CCF, we will replace the current float switch in the ADU Rod area zirc knock out tank with a level probe. No SSC's affected by this modification.	The current float switch gets bound up and does not initiate the HH/LL alarms as required. Because the alarm trigger is not reliable, the tank has overflowed water to the floor. This tank is located on the second level on the Thermal Stability platform.	ADU Rod rework station zirc knock out tank	ISA-10 ADU Rods
14373	T204 Tank DI water system reconfiguration	DI water tank T204 is a non-favorable geometry tank feeding the ADU lines. This project will reconfigure the piping flow to provide redundant backflow preventers (using existing units) between the ADU lines and the T204 tank. This reconfiguration will also improve the flow from the tank and a more stable tempered water.	This project is part of the NCSIP II program to protect the DI water system from possible contamination.	ADU Line 2, current location for T204	ISA-03 ADU Conversion
14374	New Building at Chemical Cooling Tower	This CCF will cover the fabrication, construction and installation of a 9ft X 12 Ft steel building with jib crane to house new Gamma Activity Monitor. This building will be placed on a concrete pad and will be steel sided and insulated. A jib crane will be installed to service and support the hardware(lead sheilds) that are part of the Gamma monitors.	Required for NCSIP II implementation.	Chemical Area Coooling Tower	ISA-13 Low Level Radioactive Waste Processing
14375	Relocation of Poly Pac solenoids on Line 1 Conversion Moisture Sampler	Relocation of Poly Pac solenoids on Line 1 Conversion Moisture sampler	Currently the solenoids are inaccessible, due to additional piping being added.	Line 1 conversion Fitzmill Hood	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14376	Gamma Activity Monitor Install and Electrical Modifications to Support Chemical Cooling Tower Gamma Monitors	This CCF will cover the installation of 2 new in series Gamma activity monitors that will monitor the radioactivity levels in the chemical cooling tower sump. A new SSC will be implemented as part of this change which will provide an alarm in the outside URRS still control room for action to be taken above the 100ppm level.- An alarm light and alarm annunciators will be mounted in URRS Outside Operations control room, one light and a unique sounding alarm annunciator will be installed for each Gamma monitor A and B, a reset pushbutton will be used to reset the annunciator only. The light will stay lit till the alarm condition is cleared. Alarming will be a 1 of 2 configuration. Designation for SSC is COOL-100 This CCF will also cover the modifications necessary to the Honeywell UDC systems to support the new Gamma activity monitors that are being installed on the chemical cooling towers.	Required for NCSIP II implementation.	Tank Farm and URRS Still control Room	ISA-13 Low Level Radioactive Waste Processing
14377	Install New Gamma Activity Monitors On Chemical Cooling Tower Sump	This CCF will cover the mechanical piping and cell pot installation that will support installation of 2 new in series Gamma activity monitors to monitor the radioactivity levels in the chemical cooling tower sump. All SSC implementation will be done under CCF 14376.	Required for NCSIP II implementation.	Chemical Cooling Tower and URRS Control Room	ISA-13 Low Level Radioactive Waste Processing
14378	Break DI water line 45 & 219	Create a break in the DI water lines 45 & 219 to remove a flow path to tank T1365 as part of the NCSIP II program	Part of the NCSIP II program to meet NRC requirements	ADU Line 2 above T204	ISA-03 ADU Conversion
14380	Break in DI Water Line 228	Create a break in the line 228 to seperate it from line 223 and protect the DI building from backflow of SNM as part of the NCSIP II program.	Part of the NCSIP II program for meeting NRC requirements	ADU area	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14383	ADU Line 5 Calciner Safety Upgrades Phase II	Install instrumentation and equipment related to the Line 5 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.	ADU Line 5 Calciner and Scrubber	ISA-03 ADU Conversion
14384	Control Mods for H1 crane and G3 trolley	A rotary limit switch (flag) will be added to the bridge beam of crane H1 along with additional buss-bars and the control system reconfigured. Hoist/Trollies G3 and H1 will be modified to access the added buss-bar to complete the control changes required. Modifications to the crane controls will prevent H1 hoist/trolley from operating when G3 hoist/trolley is on H1 bridge beam during transfers of fuel assembly between bays H & G.	Addresses a safety issue preventing both G3 & H1 hoists/trolley from being operated while on H1 bridge. G3 hoist/trolley is used to move fuel assemblies from the forest in H bay to the inspection pit or staging racks in G bay adjacent to the packing area.	Cranes in bay G & H	ISA-17 Final Assembly
14385	Relocation of Polypac solenoids on Line5 Conversion moisture sampler	Relocation of Polypac solenoids on Line5 Conversion moisture sampler.	Currently the solenoids are inaccessible due to additional pipling being added.	Line 5 Fitzmill	ISA-03 ADU Conversion
14386	Q-Tanks Nitrogen Supply Piping Modification	Modify the Q-Tanks nitrogen supply piping for the level control system by installing a riser pipe in the main supply line. The riser pipe will be at an elevation higher than the passive overflows and ventilation vacuum breaks of all 6 Q-Tanks. The riser pipe will be implemented as a SSC at a later date. Therefore, an ITR is linked to this CCF.	This modification will prevent potential backflow of SNM into the nitrogen supply system via the Q-Tank level control system.	Q-Tanks	ISA-03 ADU Conversion
14387	Install polypak scale on 24"x30" SSt table	Install a Mettler-Toledo polypak scale for weighing scrap polypaks in the ADU rods scrap/rework area. The scale will be attached to the existing computer next to the plenum check hood, see attached arrangement drawing. It will be placed on a stationary 304 stainless steel table 24"x 30" on the top with a stainless steel lower shelf. McMaster part number 45795T43, see catalog page attached.	When creating scrap polypaks, the ADU operators must use pelletings computer and scale. This can cause them to have to wait for a long time if pelleting is in the process of creating scrap paks.	ADU rod repair/scrap area	ISA-10 ADU Rods

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CCF-Number	Title	Description	Justification	Location	ISA ID
14389	Decrease S-1190 Fan Speed	The fan rotational speed will be decreased in order to allow the fan to operate on a more stable area of its performance curve. The motor pulley and belts will be replaced as necessary to slow the fan. This modification will have no affect on the flow rate or performance of the scrubber ventilation system. The fan currently has too much capacity for static pressure. There are no changes to the drawings. Current and proposed fan performance curves are attached for reference.	The fan will be more reliable if it operates near a more stable area of its performance curve.	Roof of Waterglass Building	ISA-01 Plant Ventilation System
14391	Remove out of service electical box	The electrical box is for an out of service gamma monitor from the HF recovery system in MAP. Parts from the equipment have already been removed from the box, we would just like to have the box removed from the area so that we can better utilize the space. The power supply will also be removed from ERP 2AA Cir 24 which is shown on an attached drawing. Any other wires will be determed and removed back to the source.	Clear space by respirator cart across from the incinerator for fire extinguisher storage.	URRS	ISA-13 Low Level Radioactive Waste Processing
14392	Manual Pull 54 Relocation on Dock #9	With this CCF, we will relocate MP54 from is original location over to the new Door that exits dock 9.	Dock 9 has been remodeled. The original door used to exit the area is now closed off and is now a closet. The project to remodel this area over-looked this manual pull. To meet code, we must move this to the new means of egress.	IFBA and Dock 9	Grounds
14393	Install Y Strainer In S1008 Line	This CCF will install a Y strainer in the recirculation line going to the spray nozzles.	The spray nozzles get clogged over time with debris.	S1008 Conversion Scrap Cage	ISA-03 ADU Conversion
14394	G Section Conveyor Numalogics removal	The scope of this project is to integrate the G Section into the exisiting upgraded Allen Bradley Outfeed Control system. Remove obsolete and unused electrical wiring and components on G Section in Soft Handling. A new AB 15 inch HMI will be installed to replace the pushbutton station at section G4,new Ethernet IO will be installed for ease of connectivity and reduction in wiring currently required.	The current Numalogics PLC is obsolete and difficult to support since it requires an MS DOS computer for programming maintenance and cannot be accessed by the Westinghouse network for software configuration control.	Soft Handling G Section QC Rod Inspection	ISA-10 ADU Rods

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CCF-Number	Title	Description	Justification	Location	ISA ID
14395	Add manufacturer to Section 2 of MCP-202174	change section 2 of MCP202-174 from "2.0Pressure Gauge Substitution Criteria: CCF-11060 NOTE: This procedure is applicable to only Non-Safety Significant Equipment. 2.1The gauge Dial will be the same size 2.2The gauge will be the same Style (bottom mount, liquid filled, etc) 2.3The gauge Materials will be the same 2.4The gauge Range will be the same 2.5The Manufacturer must be; Ashcroft, US Gauge, Trerice, Bourdon Sedeme, Robert Shaw, Norgren or Ametek." to "2.0Pressure Gauge Substitution Criteria: CCF-11060, CCF-14395 NOTE: This procedure is applicable to only Non-Safety Significant Equipment. 2.1The gauge Dial will be the same size 2.2The gauge will be the same Style (bottom mount, liquid filled, etc) 2.3The gauge Materials will be the same 2.4The gauge Range will be the same 2.5The Manufacturer must be; Ashcroft, US Gauge,	Baumer purchased Bourdon and this causes a name change on at least some gauges.	Gauge substitution plantwide	Components

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CCF-Number	Title	Description	Justification	Location	ISA ID
14397	Add Backflow Prevention Mechanism to Line From Solvent Drums to SOLX and Remove Pump on Aluminum Nitrate Line to V-1075	Add Backflow Prevention Mechanism to line from Solvent Drums to SOLX. Remove Pump on Aluminum Nitrate Line to V-1075. V1083A will be disconnected from Kerosene. V-1092 and V-1492, will have overflows added.	NCSIP II requires backflow prevention to prevent the backflow of SNM into the chemical feed containers. Aluminum nitrate is not used as a feed source for V-1075. NCSIP II requires that the feed source be removed so that it will not be a candidate for backflow of SNM. V-1083A is no longer used so it will be removed from Kerosene service and therefore will not be a potential source for backflow. The additional vent on V-1092 and V-1492 will allow the tanks to overflow on the floor before backflowing to the chemical feed drums.	SOLX	ISA-07 Solvent Extraction
14398	Erbia Drexelbrook Calibration Modification	Modify the existing calibration procedure for the Erbia saturator drexelbrook probes.	The existing calibration procedure is not recommended by the manufacture and is causing spurious trips on the new latching safety circuit.	Erbia Furnaces	ISA-20 ERBIA
14399	Erbia Roll Hood Drain Slot	Create an approximately 12" x 1" slot at the rear of the Erbia roll hood.	The capability of addtional drainage is required for NCSIPII crit calculations.	Erbia Roll Hood	ISA-20 ERBIA

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CCF-Number	Title	Description	Justification	Location	ISA ID
14401	Reconfigure SOLX Nitric Acid Header	The nitric users in SOLX will be changed from being supplied directly from the header to being supplied from a Day Tank, V-1487A. V-1487A will be outfitted with a transfer pump and piping will be installed to allow 3-5 GPM to be supplied to the following vessels: V-1075, T-1476A, T-1476B, V-1093, V-1087A, and V-1087C. The pump will run on demand through BPCS programming and all transfer flows will be able to be measured as part of this upgrade.	NCSIP II requires backflow prevention to prevent the backflow of SNM into the Nitric Acid Supply. This project will provide for two independent means of protection the nitric acid header from contamination with SNM. The first step is to ensure that the bottom of the nitric acid supply piping is above the top of the scrubber vent header piping. The second means of protection is to install a separate vent from the top of V1487A that will be routed to grade. There will be two independent overflows from V-1487A that will prevent liquid from entering the nitric acid supply.	SOLX	ISA-07 Solvent Extraction
14402	Procedure Modification for Solenoid Substitution	Substitution Procedure MCP-202174 is to be modified to allow for non-Safety Significant Solenoid Substitution.	We use many solenoid valves in the plant, currently we cannot substitute solenoids. We often do not have the exact replacement due to part number changes, equipment upgrades, obsolecense, or just the storeroom being out. In most circumstances there is a suitable replacement in stock. This CCF will our electrical control engineers to evaluate (see attached proposed MCP-202174 addition) the process and determine if we have a suitable replacement solenoid valve is available.	Maintenance	Components

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CCF-Number	Title	Description	Justification	Location	ISA ID
14403	Disconnect the Vent Headers from V-700/701/702 and FP-703	Disconnect the Vent Headers from V-700/701/702 and FP-703	NCSIP II requires backflow prevention to prevent the backflow of SNM into the Vent Header. The Wet Fluoride process is not in use. It is more cost effective to disconnect the equipment from the vent rather than modify this obsolete system.	SOLX	ISA-11 Scrap Uranium Processing
14404	Install a Backflow Prevention Mechanism from the DI Water Supply to SOLX	Install a Backflow Prevention Mechanism from the DI Water Supply to SOLX This Backflow Preventer will become an SSC in the future during implementation/revision of an CSE. An ITR has been performed and attached in preparation for the CSE implementation.	NCSIP II requires backflow prevention to prevent the backflow of SNM into the DI Water Supply	SOLX	ISA-07 Solvent Extraction
14406	T-1365 Recirculation Line Valves	Remove obsolete LCV-1365C on recirculation line for T-1365, replace PRV-1365A, install new manual valve before PRV-1365A.	Better control of DI Water supply pressure to the plant.	Outside DI Water Building	Grounds
14407	Removal of Tile and installation of epoxy flooring in Chem Lab	Three layers of tile will be removed from the floor in the LECO room of the Chemical Laboratory. The first being asbestos floor tile with asbestos mastic. All layers must be handled as asbestos per SCDHEC. After removal of tile a epoxy flooring will be installed. The concrete flooring will be prepped with grinders and then a primer will be installed to penetrate and seal the substrate. An epoxy novalec base coat will then be added and followed by a urethane topcoat.	Current floor is uneven (current tables are on different level of tile)and 3 layers of tile above concrete cause multiple problems. The new flooring will make the new tables for the room even and stable for the equipment to be placed upon.	Chemical Laboratory	ISA-18 Laboratories
14409	Remove spool and relocate drain	This CCF would remove spool and relocate the drain to allow room for the pump disconect that is being installed.	Allow for room for pump disconnect.	V-302	ISA-03 ADU Conversion
14411	Nitric Acid Pump Change P-51B	This CCF is to change the pump case material from the current nitric acid pump (P-51B) 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.	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.	URRS Outside	ISA-06 Chemicals Receipt, Handling and Storage

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CCF-Number	Title	Description	Justification	Location	ISA ID
14412	Replace Operator Interface Terminal in EPA Building	Replace Operator Interface Terminal in EPA Building. This will be an upgrade taking advantage of the Ethernet capabilities of the PLC Processor which was upgraded in Feb.2014, CCF-14035.	Current unit is programed with Canvas Software and we are not able to easily maintain, as our licensed version of the Software is obsolete. We are replacing the E-Pro Canvas unit with an E-Pro Power which will be communicating via Ethernet instead of the slower serial communication.	EPA building in Waste Treatment Outside	Grounds
14413	Line 3 Powder Prep 3rd Level Hand Rail Modification	Remove section of 3rd level hand rail on north side of powder lift, adjacent to Roll Compactor drive. Re-locate Powder Lift Drexelbrook level probe transmitter from hand rail to side of powder lift. Note: Line 3 AR & ST drawings do not show this section of hand rail.	The hand rail section is a remnant from when a 3rd level floor opening existed. Since the floor opening has been covered, the hand rail section serves no purpose. Removing the hand rail will improve Maintenance accessability to the powder lift and roll compactor components. With the demolition of the hand rail section, the Drexelbrook level probe will have to be re-located.	ADU Pelleting / Line 3 Powder Prep 3rd Level	ISA-08 Pelleting
14414	Replace #2 Diesel Fire Pump	Install a new UL and FM approved diesel powered fire pump. This pump is rated at 1500 GPM @ 125 psi. The diesel engine is 183 HP operating @ 1780 rpm. All fire protection work will be performed by Milton J. Wood Fire Protection Contractor and shall meet all requirements of applicable NFPA Standards. A double wall 300 gallon diesel fuel tank is included in this project. Specification sheets are attached to the DOR.	Existing fire pump diesel engine failed beyond repair. Replacement of the entire skid including a new controller is the only option.	Fire Pump House #2	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14416	Oven 2, remove rear 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.	The shutter on the rear door does not trap the heat or protect a fan motor from excess heat and is not needed. This is a leak point that can/should be eliminated.	IFBA/FA2	ISA-12 IFBA Fuel Rod Manufacturing
14418	Modify fire water tank piping	This project involves the addition of two 8 inch OS & Y gate valves and an 8 inch branch line between #2 Fire Water tank and the new Fire Pump. This piping change will be completed prior to the installation of the new Fire Pump.	This 8 inch branch line will allow for the connection of the pumper truck to the fire water tank while the new fire pump is installed. This branch may also be used when the fire pump is out of service for maintenance.	#2 Fire Pump House	Grounds
14419	Add a in Line Filter to Line 6 Chamber Exhaust.	Add a filter to chamber exhaust on line 6 plugger.	Dust from the B4C pellets is clogging up the solenoid.	Non-Fuel	Components
14420	Bead Blast Enclosure	Install panel wall system enclosure room around components machine shop bead blaster cabinets. This is similar design to other modular office enclosures in the mechanical area. Enclosure will have lighting and receptacle outlets. HVAC system to be installed with AC condensate line discharge routing to storm drain at Column 14B.	Reduce FME concerns for CE Grid Area	Machine Shop Bead Blast Area	Components
14421	Blast-It-All Vibrator Upgrade	Currently the Blast-it-All unit in the Machine Shop uses BS-10 vibrator. This vibrator does not produce enough vibration to shake the blast media from the filter. This CCF is to change vibrator unit from BS-10 to BS-16.	The BS-10 vibrator unit in the Blast-it-All will not shake enough to remove blast media from the filter. This causes the operator to use a mallet and beat the sides of the collector to loosen the blast media for cleanout.	Machine Shop	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14422	Non-Fuel Line6 Chamber Vent Solenoid Substitution	Non-Fuel Line6 Chamber Vent Solenoid Substitution	We currently do not have an identical replacement for SC8262H130, we do have a 8262G130 which is the older model of this Valve. Process wise it is the same unit except the coil does not have the DIN connector. This CCF will allow us to use either Solenoid the "G" or the "H" with either the DIN plug connector or the flying lead style.	Line 6 Non-Fuel Plugging	Clean Side Rod Area
14423	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	Lines 1-4 in ADU Rods	ISA-10 ADU Rods
14425	Bottom End Line 8 New Cognex Barcode Readers	This project will replace the existing barcode readers on Bottom End Line 8 with new qualified barcode readers, hardware and components that have recently been installed in multiple locations throughout the plant. This project will install six (6) complete barcode reading stations on the main and AVIS sections of the line. New camera mounting and support,lighting, cameras, and electrical hardware will be installed to complete this job. The existing cell interface will have minimal configuration changes. The new barcode mechanicals will have easy accessible adjustment which will resolve the #2 safety concern in the area.	The Line 8 Barcode Readers are obsolete and require significant maintenance and engineering support. The manufacturer of the existing cameras have gone out of business and spare similiar parts are no longer available. The new readers are well supported and have demonstrated an operator Free read rate of 99.4% or better. Area safety will be improved by adding easily accesible adjustments to move the barcode cameras.	Mechanical Area at Maintenance	ISA-10 ADU Rods
14426	Final Assembly Stacker SS Wall Panel	Replace existing chain link fence with stainless steel wall panels on the south and west side of the stacker system in Final Assembly	FME and aesthetics	Final Assembly	ISA-17 Final Assembly
14427	Rod Weigh Section "A" Control Upgrades	Install new electrical and pneumatic controls to upgrade the Rod Weigh "A" 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.	Rod Weigh Section "A"	ISA-10 ADU Rods

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CCF-Number	Title	Description	Justification	Location	ISA ID
14429	Replace Two Safety Significant Valves On Spiking Station 1	Replace current ITT Richter valves with 1" Xomox Lined Plug Valve. The valves are XV-1280-10 and XV-1280-11.	Over time the Richter valves are leaking around the stem. The Xomox valve was put into operation on CL5 per CCF-08487 and has no evidence of stem leakage. These valves are safety significant and ADUHFS-114A/B will be checked upon completion.	Spiking Station 1	ISA-03 ADU Conversion
14432	Grid Laser 4 Local Network Change	Change local network switch to recommnded switch for use with Allen Bradley components. Also, convert program from FTView 5.0 to FTView 7.0 running under Windows 7 rather than Windows XP.	Camera views are occassionally "freezing" which can affect operators who are making decisions based on images that may not be the latest. It is believed that by upgrading to a later version of the software and operating system,as well as the correct network switch (for E/IP protocol)the "freezing" issue will be eliminated.	Mechanical Side - Grid Lasers	Components
14434	Change Two Safety Significant Valves On Spiking Station 2	Replace current ITT Richter valves with 1" Xomox Lined Plug Valve. The valves are XV-1281-10 and XV-1281-11.	Over time the Richter valves are leaking around the stem. The Xomox valve was put into operation on CL5 per CCF-08487 and has no evidence of stem leakage. These valves are safety significant and ADUHFS-114A/B will be checked upon completion.	HF Spiking Station 2	ISA-03 ADU Conversion
14436	Autoclave Steam Condensate Drain Line Relocation	This project will relocate an existing drain line from autoclave sink to contaminated waste drain located below a wash sink at opposite side of wall.	The current drain line runs across the floor, it and presents a tripping hazard.	MET Lab/HP Satellite Lab	ISA-18 Laboratories
14437	CE Skeleton Area Lighting Upgrade	CE Skeleton Area lighting upgrade to meet Product Assurance general area inspection requirements: Replace existing 450W high pressure sodium (HPS) high bay light fixtures with new 250W LED high bay fixtures. Install additional LED high bay fixtures to meet the lighting requirements of Product Assurance.	Must meet product assurance inspection lighting requirements for the CE skeleton products. This CCF will also meet maintenance requirements as maintenance begins upgrading the plant lighting across the Mechanical side.	new CE Skeleton Area	Components

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CCF-Number	Title	Description	Justification	Location	ISA ID
14438	Drain holes for IFBA Oxidation hood	Add two drain holes to the back of the oxidation hood to allow drainage in the event of hood flooding. No drawings will be updated reference drawing 305F02EQ09 for similar modification on other hoods.	Implementation of new NCSIPII actions.	IFBA blue M oxidation hood	ISA-19 Hoods and Containment
14439	Granite Inspection Table Relocation	The south Rod Inspection table will be replaced and two new inspection tables will be added next to Thimble Line #2. A new light truss will be added over the second (east) Thimble Line table.	The south Rod Inspection table is out of tolerance for flatness and can no longer be used.	CFFF	Clean Side Rod Area
14440	Move suction hose on Fire Pumper Truck	Currently the suction hose on the Fire Pumper Truck is connected to valve CV #36. This CCF will allow the suction hose to be moved to the new 8 inch branch line that was installed per CCF-14418. Once the suction hose is moved, an octopus manifold will be installed on valve CV #36.	This move will allow the Fire Pumper Truck to draft from the fire water tank while the new fire pump is installed.	Fire Pump House #2	Grounds
14442	Addition of Hinged Window to Front of HMI	Add Hinged window to protect HMI	Prevent inadvertent triggering of screen action	MetLab	ISA-18 Laboratories
14443	Line 2 SIS Runout Mode Status	A status indicator will be added to the profibus tags being sent to the BPCS for Line 2 SIS. This tag will be used by the BPCS at a later date to determine when the SIS is in Runout Mode. No safety significant logic or controls will be affected by this change.	This change will allow reduction of operator action required when using runout mode.	Line 2 SIS PLC	ISA-03 ADU Conversion
14444	Structural Upgrades to the Tumbler	The back cross member of the tumbler is damaged due to overwelding during a previous repair. This CCF will replace the cross member and add plates to reinforce the high stress areas.	This CCF will hopefully prevent future cracking in this cross member.	Tumbler-Bulk Blending	ISA-05 ADU Bulk Powder Blending
14445	Erbia Furnace Saturators 2nd SSC for NCSIP II	Provide drawing changes, proposed procedure modifications, and test documentation for the 2nd SSCs BAEDWX-907,& BAESNT-907. These SSCs will be implemented under CSE-8-C for the NCSIP II program.	This is required documentation. Test documentation for the erbia furnaces was provided under CCFs ,12461,12463,12464, and 12466	Erbia	ISA-20 ERBIA
14447	Replace 1005A and 1005B readout	Replace the tank level readouts for both LI-1005A and LI-1005B.	The operators are having difficulty reading the existing LCD readout due to glare and color contrast. The readout will be replaced with a red LED type readout.	Scrap Cage	ISA-11 Scrap Uranium Processing

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CCF-Number	Title	Description	Justification	Location	ISA ID
14448	Change thickness of Lexan V-3150 tank cover	Change the thickness of the Lexan cover on the V-3150 Zirc Knock Out tank to 1/2" thick from 1/4" thick. There are no equipment drawings fo rthis tank to be updated. (Only a PI drawing exists)	A new level probe is being added and the thicker Lexan will provide better support for it.	ADU Rod Repair Area Mezzanine	ISA-10 ADU Rods
14449	Install Spectacle Blind in V-112 Acid Wash Return Line	Install a spectacle blind in the V-112 acid wash return line.	This will prevent pluggage in the acid wash return line.	V-112	ISA-03 ADU Conversion
14450	ADU Sintering Furnace Sight Port Modification	Change the OEM Sight Port packing nut design(see attached pic)to a design utilizing a 4-bolt flange with graphite gaskets per the 361F02EQ27, For Construction drawing. This change will be first implemented on the 4A 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.	ADU Pelleting \ 4A Sintering Furnace	ISA-08 Pelleting
14455	Temporary Removal of Dry Box in IFBA Chem Lab	Dry box(environmental chamber) will temporarily be moved to a storage location within the IFBA Chem lab. After removal of the dry box, we will temporarily relocate a Hydrogen LECO RHEN-602 analyzer to IFBA for use. The removal of the dry box involves disconnecting a nitrogen line and a small water line. The installation of the LECO involves connecting an existing nitrogen line and argon line. This temporary relocation will happen between September 5th 2014 until October 27th 2014.	The temporary relocating of the instrument is part of a contingency plan for being able to analyze hydrogen samples during the renovation of the LECO room in the main Chem Lab. This renovation will begin on September 8th 2014 and should be finished by October 27th.	IFBA Chem Lab	ISA-18 Laboratories
14457	Replace Ipsen Vacuum Furnace Rough Pump	Replace the exisiting "Stokes" rough pump on the Ipsen furnace with a Leybold E250 rough pump.	Existing pump is obsolete	Ipsen Furnace in the Grid Area	Components

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CCF-Number	Title	Description	Justification	Location	ISA ID
14465	Incinerator Level Transmitter Substitution	Replace existing Absorber Column level transmitter LT-S-943A(Rosemount) with the current model. Existing unit 3051S2LD2AB1A1020HFFG1DAA3SJD1M5QS Replacement 3051SAL2CD2AA1A1020HFFG1DAA3SJD1M5QS	Existing transmitter is obsolete.	Absorber Column "A" at the Incinerator	ISA-13 Low Level Radioactive Waste Processing
14468	Gamma Scanner 4 New Pinch Rollers Channel B	This CCF will cover the installation of the newer type pinch rollers that were installed on Gammma Scanner 4 Channel A on Channel B. After completion both channels will have the same hardware which allows for easier alignment and better control of the rods.	Make both channels the same which will eliminate some rejects for length that occur due to different dynamics between the 2 channels created by pinch rollers that are not the same. Will also provide for easier alignment and setup.	Gamma Scanner 4 Off Aisleway	ISA-10 ADU Rods
14469	Replace VIPER Loop Heat Exchanger cooler outer shell	The outer shell of the VIPER loop heat exchanger cooler has deteriorated and is no longer capable of operating due to leaks. This modification will replace the outer shell (the malfunction part of the system) with a new shell that is constructed of stainless steel as opposed to carbon steel.	Changing material of construction to stainless will provide better barriers to corrosion and deterioration than typical carbon steel.	VIPER Loop Heat Exchanger (Cooler section)	ISA-18 Laboratories
14470	Install a Gorbel Bridge Crane System in the URRS Recertification Building	Install a Gorbel Bridge Crane System in the URRS Recertification Building	There is not a safe way to perform the annual load test of the crane in the cylinder recertification building. Carolina Lift and hoist must now manhadle a 2500 pound weight in order to complete the required verifications. The verifications must also be performed whenever maintenance is conducted on the crane. Operations is also limited in the order of operations of cylinder processing due to the current configuration of the existing crane.	Cylinder Recertification	ISA-09 UF6 Cylinder Wash

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CCF-Number	Title	Description	Justification	Location	ISA ID
14472	IFBA Cooling Tower Water Treatment	Currently the water treatment chemicals used in the IFBA 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. 1.Tower Pro 300 (solid paste, scale and corrosion inhibitor (molybdate); replacing GE Continuum AT 209) 2.DuroBrom (oxidizing biocide (stabilized bromine); replacing GE Spectrus OX 909) 3.Tower Pro BD (bio dispersant sticks, manually added to tower basins; replacing use of GE Spectrus NX 104, but not a similar chemistry) 4.Biotrol BT (oxidizing bromine tablets, manually add to tower basins; replacing use of GE Spectrus OX 105) The liquid chemicals will be metered using peristaltic pumps. Note, the MSDS and Product data sheets for each of the above listed chemicals are attached.	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.	IFBA Equipment Room	Grounds
14474	Valve Position Switch Substitution	Currently the Valve positon switch assembly 33E-LK39P1-R3 on Valve XV-765A is unavailable (obsolete). Storeroom part 298190 is listed as the replacement. The manufacturer part number is 33E-LK39Z1-R3. This part number is Worcester's current replacement. This new switch assembly is also the replacement switch assembly for valves XV735A and XV745A. These valves will also be included in this CCF. I have not been able to attach any vendor literature (cut sheets, etc) as they are unavailable.	Storeroom part number 298190 is the correct replacement for the obsolete switch. The new switch is the same form, fit, and function.	Solx dissolver solids discharge valve	ISA-04 Safe Geometry Dissolver

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CCF-Number	Title	Description	Justification	Location	ISA ID
14475	Conversion Vaporizer Lid Limitorque Actuator Substitution	Conversion Vaporizer Lid Limitorque Actuator Substitution.	The existing Limitorque actuator for opening and closing the vaporizer lids on lines 1-4 are obsolete. The original unit XD-5MSJ-U16-S (storeroom #150199) has been replaced with B-M30-WJ9-039604610 (storeroom #150213). Since these units can be rebuilt, this CCF will allow us to use either model actuator interchangeably; the actuators are the same form, fit, and function.	UF6 Bay Lines 1-4 Vaporizers	ISA-03 ADU Conversion
14476	Add fiberglass coating to outside of incinerator duct work in penthouse	The integrity of the ductwork for the incinerator ventilation has been compromised due to chloride stress corrosion cracking. After the initial investigation by mechanical integrity, a short term suggestion was made to wrap the current pipe with fiberglass material.	By wrapping the ductwork with this fiberglass material, we will gain the time to better research and plan for a long term repair for this system. This gained time allows for the best decision to be made on material of construction for this ductwork that has a stream with high levels of chloride flowing through it. By taking the time to make a sensible decision, we will hopefully reduce the amount of rework that could occur from this problem.	URRS - Penthouse	ISA-01 Plant Ventilation System
14477	Erbia Sintering Furnace 1 SCR upgrade	Replace the existing Zone 1 Robicon 60 amp SCR with a 90A Ametek SCR unit. Demoted 09/23/14 Instead of replacing the SCR with an Ametek we will be using a 90a Robicon.	We currently have a heating element failure on Zone 1 and cannot produce enough heat. By installing a higher output SCR we are hopeful to be able return the furnace to production until we can schedule a repair for the heating element. Demoted 09/23/14 Installing an Ametek unit would require major redesign and rewiring. The 90A Robicon will be a seamless swap and allow us enough ampacity to drive the heater.	Erbia Sintering Furnace 1	ISA-20 ERBIA

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CCF-Number	Title	Description	Justification	Location	ISA ID
14487	CL4 Decanter Frame Modifications	This CCF is to make the following modifications to the CL4 decanter frame. 1. Install plates under the 4 isolators between the upper and lower frames of the CL4 decanter. The feed end plates will be thicker than the motor (discharge) end plates. 2. Replace the name plate with a new plate that specifies the maximum speed to be 4400 rpm.	Currently the isolators being used for height adjustment are adjusted well beyond the optimum height range. The plates will allow the isolators to be set within the optimum height range. The current name plate does not specify the maximum speed.	Conversion Line 4 Decanter	ISA-03 ADU Conversion
14488	CL4 Decanter Frame Plate Mounting Stud Changes	The following changes will be made to the plate mounting studs on the CL4 decanter frame: 1. Reduce hardness of the studs from 50-54 Rc to 49-52 Rc. 2. Change the size of the slotted spring pin from 0.375 in. to 0.313 in. 3. Add a flat section around the outside of the holes in the studs to reduce stress concenstrations. 4. Add a drilled and tapped hole to the back side of the studs to facilitate removal of the studs if necessary. 5. Reduce the torque value on the hex nuts for the studs from 100 ft-lbs to 50 ft-lbs. CCF was demoted then re-promoted to correct hardness of new studs from 35-43 Rc to 49-52 Rc. CCF was demoted again then re-promoted to correct diameter of slotted sprin pin from 0.25 in. to 0.313 in.	These changes are being made to improve reliability of the plate mounting studs.	Conversion Line 4 Decanter	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14491	Replace existing rod weigh A scales	Replace existing Mettler-Toledo model SB16001 scales with Mettler-Toledo model XS16001L.	The model of scale being used on rod weigh 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.	Rod Weigh A	ISA-10 ADU Rods
14492	Replace Oxide Coater 1 Heat Exchanger	Replace the existing non-code stamped heat exchanger with a code stamped one - model SSCF-C.	Leaking heat exchanger was replaced with a non-code stamped one in order to get the machine running.	Power supply deck above Oxide Coater 1	ISA-10 ADU Rods
14498	Upgrade Electrical Panel EDP-EG3-10BB	Replace the buss bars and circuit breakers in EDP-EG3-10BB, Testing will be performed as outlined in the ITR.	This panel is the electrical distribution panel for Emegency Generator #3. The circuit breakers and buss bars are very old and need to be replaced. This effort will reduce the chance of equipment failure during a time of need. This electrical panel feeds (7) Automatic Transfer Switches (ATS). An ATS is a SSC per RA-108-4, CHEM 1-1 There will be no drawing changes as the new circuit breaker configuration will be the same as it is now.	Equipment Room #3 (above Maintenance)	Grounds
14499	Add a Self Contained Eye Wash Station	Add a self contained eye wash station on the fence across from the tool room offices near the entrance gate to the tool room along column line 12 between C & D.	There is a need to have an additional eye wash station near the lathe area.	Mechanical Area Tool Room	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14502	Modification of LECO Room in Chemical Laboratory	To allow removal of old flooring and installation on new flooring, LECO Equipment(4 hydrogen analyzers, 2 carbon analyzers and 2 nitrogen analyzers), will be removed from the LECO room and stored temporarily in the Mass Spec room of the Chem Lab. Some of the old tables and shelves from LECO room will be taken to URRS for disposal. After flooring is complete, new and some old tables will be moved back into the LECO room and equipment will be placed back upon tables.	The moving of the equipment is needed so that the flooring in the LECO room can be removed and resurfaced. And tables and equipment will be moved back to the walls.	Chem Lab	ISA-18 Laboratories
14503	Floor refurbishment in ADU rods repair area	A fire retardant plastic curtain will be hung all along the West side of the mezzanine out to the aisleway, along the aisleway to the lathe, along the end of the lathe table on the East side along the mezzanine until the North end of the scrap lathe, the curtain will then jog over to encompass the floor up to the lift table. Lexan will be placed in front of the pass through window on the mechanical side to block the air flow and a curtain placed on the Chemical side of the window. The curtain everywhere will be roughly the height of the mezzanine. See attached sketch. The floor in this area will be ground to remove the paint and ground to smooth the surface, then a stain and sealer will be applied. A grout will be applied to make a transition from the ground floor to the painted floor.	FME from current floor chipping up.	Chemical side ADU rod repair area	ISA-10 ADU Rods
14504	Add Air Pressure to Low Side of LT-1177	Add Air connection and pressurize low side of existing LT-1177 Still 2 flash tank level transmitter.	The intent is to eliminate process from entering low side of transmitter or "drawing" out low side fill fluid. Intent is to also prevent level transmitter from going "out of range" and losing calibration	Outside URRS - Ammonia Still #2	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14505	DEMOLITION OF THE OLD 3ATS6	REMOVE THE OLD 3ATS6	THE UNIT IS OBSOLETE AND WILL BE REPLACED UNDER CCF 14102. ONCE IT IS REPLACED, ALL OF THE ELECTRICAL LOADS WILL HAVE BEEN REMOVED AND INSTALLED IN THE NEW 3ATS6. UPON COMPLETION OF THE REPLACEMENT, THIS UNIT WILL NO LONGER BE IN SERVICE AND IS NO LONGER AN SSC.	EQUIPMENT ROOM 3, ABOVE MAINTENANCE	Grounds
14506	Replacement Scan Guns	The scan guns used in the skeleton area are obsolete. The guns are used to interface with the PanelMate controller to select the correct program for building skeletons.	Parts are not easy to get since this is older technology. Skeleton production will not be able to continue if the scan gun does not work properly.	Skeleton Area	ISA-17 Final Assembly
14507	Remove Out of Service SO2 Addition System	Remove the SO2 addition system from the river discharge system. The pump system will need to be removed along with the power wires and the communication wires.	This system is out of service and has been replaced by an alternate SO2 addition system. This obsolete system needs to be removed from the area.	SO2 Station by EPA Building	Grounds
14508	Addition of Sample Port to HX-944 Cooling Water Return Line	A 1/2" line with 1/2" ball valve will be added on the return line of the shell side for the heat exchanger in the incinerator room, HX-944.	The addition of this sample port will allow for the chemical cooling water return to be sampled. This sampling is required with the addition of the gamma monitors on the chemical cooling tower. By having a sample line on the incinerator heat exchanger, a sample can be pulled to see if the integrity of the heat exchanger is in question and leading to a high uranium level in the return water to the system.	URRS Incinerator Room	ISA-13 Low Level Radioactive Waste Processing
14511	Add valve in plant air supply to Grid Laser #3	Install a 1/2" gate valve in the plant air supply to Grid Laser #3 in close proximity to the Grid Laser #3 enclosure.	This new valve will allow isolation of Grid Laser #3 without affecting other equipment.	Grid Area	Components

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CCF-Number	Title	Description	Justification	Location	ISA ID
14512	Heavy Duty Shelving in the Chemical Area Rebuild Shop	Install heavy duty shelving as a replacement for "Rack A" shelving in the Chemical Area Rebuild Shop, as shown on drawing 500F03AR04 sheet 1. The new shelving will have sliding shelves with high weight capacities.	The Maintenance Rebuild Team refurbishes equipment which is stored on shelving in the Chemical Area Rebuild Shop. Many of the items such as pumps and mill shafts are heavy and pose a potential strain injury to all mechanics when trying to place or remove items onto and off of the existing fixed shelves. This current arrangement does not allow use of the new hoist system to assist in lifting heavy equipment. Utilizing a powered hoist to move items to and from shelving will minimize the likelihood of such an injury. In addition, the new shelving will provide more square footage to store equipment in a more organized arrangement.	Chemical Area Rebuild Shop	Grounds
14513	Valve on Chemical Cooling Water Piping	Replace existing 2" CS gate valve on chemical cooling water piping tap downstream of hot well pumps. Replacement valve to be a 2" SS globe valve for future use on gamma monitor supply water for activity monitoring of cooling water.	Existing valve is CS and has not been operated for extended peroid of time, functionality is questionable.	Chemical Cooling Tower	Grounds
14514	Process Water to T-1147 Pipe Reduction	Reduce pipe from 1.5" to 1" after the backflow preventers on the process water line to T-1147.	Reduce potential maximum flow going to T-1147, to justifty tank overflow size.	Outside URRS/T-1147	ISA-15 URRS Wastewater Treatment System
14516	Outdoor Lighting Replacement	With this CCF, we will be able to Substitute high pressure sodium, and metal halide light fixtures with LED fixutres. New LED fixtures will meet: * equivalent voltage specs * equivalent or greater foot candle criteria	* Sustainability (electricity cost reduction) * Sustainability (universal waste reduction) * Meet or exceed foot candle criteria * Mainteance (cost reduction)	CAA Expansion Area	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14517	Modify Gamma Scanner #4 B-Channel New Design of Belt and Belt Alignment Devices	Convert B-channel infeed and outfeed conveyors of Gamma Scanner #4 belt system to the design of Channel A system. Channel A system encompasses a double sided belt and a belt alignment device.	The new belt alignment device and double sided belt show improved belt performance, as well as a reduction of rescan defect codes on the rods. These changes have improved performance and should be implemented on those portions that were not modified.	Gamma Scanner #4	ISA-10 ADU Rods
14518	CL5 Calciner Steam Trap Condensate Drain Line Modification	Re-route the recently installed steam trap condensate drain line to tie in directly to the main condensate drain line, which is at atmospheric pressure. The tie-in point will be near the wall of the UF6 bay. A combination vacuum breaker and air vent will also be installed at the tie-in point to keep the line at atmospheric pressure and thus to ensure that the line drains properly. The manufacturer's info, along with the manufacturer's installation and maintenance instructions, are attached. Since this modifications affect a future SSC for the steam separator and trap, an ITR is linked.	The current tie-in point for the drain line allows backflow of steam and condensate through the new trap and into the calciner. This piping modification will prevent backflow and will allow the condensate to drain properly.	CL5	ISA-03 ADU Conversion
14520	Computer Room Server Receptacles	Install three 208 vac single phase receptacles for rack 55 and new rack 66.	Needed as part of Dater Center Remodeling project.	Computer Room	Grounds
14523	Relocate Platform Support for Electrical Panel Installation	Relocate one of the platform support legs on the Q.C. mezzanine to make room for a new electrical control panel to be installed under CCF-14427. The 3" angle support leg will be relocated under the second stair from the top of the mezzanine. The existing leg will be unbolted from the current location and field modified for re-use in the new location. The relocated leg will use bolted construction.	Relocated support will make room for new electrical enclosure and ensure the enclosure door will fully open for maintenance and operations access.	Rod Weigh Section "A"	Components

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CCF-Number	Title	Description	Justification	Location	ISA ID
14531	Nitrogen Shutoff Valve for Q-Tanks Filters and V-112 and V-212 Filters	Install a fail-closed valve to the common nitrogen supply line for the Q-Tanks filters, the V-112 filters, and the V-212 filters. The nitrogen supply to the actuator will be from the same line upstream of the new valve, so that upon loss of nitrogen, the valve will close. This valve will be implemented as an SSC at a future date, so an ITR is linked.	This is to prevent backflow of SNM to the nitrogen system.	N2 Line near the Q-Tanks Filters, V-112 Filters, and V-212 Filters	ISA-03 ADU Conversion
14532	Nitrogen Shutoff Valve for V-312 and V-412 Filters	Install a fail-closed valve to the common nitrogen supply line for the V-312 filters and the V-412 filters. The nitrogen supply to the actuator will be from the same line upstream of the new valve, so that upon loss of nitrogen, the valve will close. This valve will be implemented as an SSC at a future date, so an ITR is linked. The gate valve shown upstream of the new shutoff valve is currently in place but is now shown on the drawing as a CONF addition.	This is to prevent backflow of SNM to the nitrogen system.	Between CL3 and CL4	ISA-03 ADU Conversion
14533	Nitrogen Shutoff Valve for V-512 Filters	Install a fail-closed valve to the nitrogen supply line for the V-512 filters. The nitrogen supply to the actuator will be from the same line upstream of the new valve, so that upon loss of nitrogen, the valve will close. This valve will be implemented as an SSC at a future date, so an ITR is linked.	This is to prevent backflow of SNM to the nitrogen system.	V-512 Filters	ISA-03 ADU Conversion
14534	Add Filter/Regulator for Blending Station Tools	Add Filter/Regulator to plant air supply for Blending Station pneumatic tools.	Reduce plant air pressure to reduce wear on tools.	Blending Station in CE Grid Area	Components
14535	Line 2 and 5 Calciner Safety Upgrades Modifications	Flow Orifice FO209A will be changed to give an acceptable Nitrogen purge of the Calciner. Line 2 Calciner Test Ports modifications will be made so that Safety Significant Control Hydrogen valves test ports can be added to enable leak testing. The Line 2 Calciner damper stops which prevent full closure of the damper will be welded so that they can not be modified. Plastic Test-Normal signs will be installed on Line 5 Calciner Test Ports. Line 5 Scrubber piping supports will be installed.	A flow orifice is required on the Line 2 Calciner to provide an adequate nitrogen purge. Periodic leak testing of Calciner Hydrogen Safety valves is needed to verify correct function of these components. Stops which prevent full closure of the Calciner vent need modification to prevent removal/changes. Line 5 Scrubber piping supports are needed to prevent movement/damage of this equipment.	Line 2 Calciner	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14544	4C Sintering Furnace Check Valve Replacement	Ref. CV-4C3 check valve - Replace Stockham B-320BC check valve with a Circle Seal Controls, Inc., P/N 259B-6PP-0.15 check valve. Note that the pipe size will be reduced from 3/4" to 1/2" before the check valve for ease of installation.	The Stockham B-320BC check valve is obsolete. The Circle Seal Controls, Inc., P/N 259B-6PP-0.15 check valve is currently used on many of the other ADU Sintering furnaces.	ADU Pelleting / 4C Sintering Furnace	ISA-08 Pelleting
14545	Incinerator Differential Pressure Transmitter Substitution	Replace existing scrubber column differential pressure transmitter DPT-943A (Rosemount) with the current model. Existing unit 3051CD1A02A2AM5S5 Replacement unit 3051CD1A22A2AB4M5	Existing transmitter is obsolete. Verification was performed with Scott Page to ensure this was an adequate replacement.	Incinerator in URRS	ISA-13 Low Level Radioactive Waste Processing
14546	Actuated Valve on City Water to DI Water Building	Installation of actuator on 4-inch valve on the city water feed to the DI Water building, that will open and close along with the T-1365 fill valve.	Prevent overpressurization of the DI Water units	Just outside DI Water building	Grounds
14547	Still 1 Cooling Tower Diffuser Replacement	Replacement of Still 1 Cooling Tower (CT-1126) Diffuser. New diffuser has a 3/4" blowdown port diameter.	New diffuser is from same manufacturer, but current model has different blowdown port diameter. Blowdown is rarely, if ever, used and different diameter would have no effect on performance.	Outside URRS next to Still 1 building	Grounds
14549	Un Bulk storage dike recoating	The existing UN Bulk storage containment dike coating is failing and need to be resurfaced. Alpha-Omega Environmental, Inc. has taken sample and form first glance believe to be Asbestos free. Full report will be attached when received. If report is clear of Asbestos IFCO contractors will grind concrete to a stable surface and apply epoxy coating.	To maintain the integrity of tank containment	URRS UN Bulk stoarge pad	ISA-02 Uranyl Nitrite Bulk Storage Tanks
14551	Heat Exchanger and Piping Removal	HX-204F has been taken out of service. The heat exchanger and associated steam and condensate piping will be removed. The chilled Ammoniated water lines to the removed HX-204E will also be removed back to the header in the UF6 Bay.	The heat exchanger and lines are no longer in use. The lines are potential leak points. The pipes take up valuabe space and their removal will eliminate some congestion around line 2.	Conversion line 2 near DI water tank T-204	ISA-03 ADU Conversion
14559	Disconnect Fire Pumper Truck from fire suppression loop.	Disconnect Fire Pumper Truck from the fire suppression loop. Install a blind flange on the downstream side of CV #56.	A new fire pump with diesel driver has been installed in Fire Pump House #2, and is available and online.	Fire Pump House #2	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14561	3C 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 14450 for similar change to the 4A 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.	ADU Pelleting \ 3C Sintering Furnace	ISA-08 Pelleting
14562	Addition of Hydrogen Fence to Enclose Air Products Hydrogen Tank	Add a fence on the west side of the hydrogen tank to enclose the Air Products tank within. This fence addition will allow the fence for the hydrogen tank to be separate from that of the CAA fence.	By relocating the fence, it will allow for access to run the new pipe rack for the above ground line coming from the West 1 lagoon.	URRS Outside - Hydrogen Tank	Grounds
14568	Sprinkler Heads in Fire Pump House #2	In Fire Pump House #2, change out the existing 212 degree sprinkler heads with 286 degree bronze quick response bulb type automatic sprinkler heads. (Reliable model number RA1425) The technical bulletin for this sprinkler head is attached.	Sprinkler heads in a Fire Pump House should be 286 degree heads.	Fire Pump House #2	Grounds

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CCF-Number	Title	Description	Justification	Location	ISA ID
14572	Switch from Breathing Air Cylinders to Breathing Air 16-Pack Cradles	Adjust the breathing air manifold in URRS, that is currently the backup supply to the plant, from individual cylinders to 16 pack cradles. The manifold will be replaced with an updated manifold that has stainless steel flex hose connectors to a cradle, which is a housing for 16 cylinders that are connected by the vendor.	By replacing the current manifold with a new manifold, and switching to the cradle style connection, this will reduce the number of potential leak points on the system. This will also make for less handling of cylinders by the URRS operators because they currently have to replace the cylinders individually. The new cradle style will be moved by a forklift, so the only thing that the operators will need to do is connect the flex hose to the connection point.	URRS Outside Operations	Grounds
14573	Install Additional Drain Holes in the Safe Geometry Dissolver Motor Enclosures	Install additional drain holes in the Safe Geometry Dissolver motor enclosures. Three new 1.5 inch drain holes will be installed in enclosure.	As part of the NCSIP II implementation and CSE revision a new SSC will be created: SGD-142 Drain holes shall be incorporated into the motor enclosure and hood wall(s) such that solution cannot accumulate deeper than 6 inches.	Safe Geometry Dissolvers	ISA-04 Safe Geometry Dissolver
14575	Contractor Shop Awning Installation	Build a shed (12'deep X 39'6"wide X 10'2" to 9'8" fall on roof line) attached to Insulator Shop and Carolina Lift and Hoist building; closed in on the east end.	Awning is needed for weather and sun protection of work area for workers.	Tractor Shed	Grounds
14576	New pinch roll valving for transfer pinch rols on line 8	Tooling is replacing the obsolete pinch rolls that transfer the tube between the UT section and the AVIS secton of the line with the same pinch rolls used at the UT. The old pinch rolls were spring return, the new ones need air to return so the solenoid valve needs to be changed and the piping added. The solenoid valve Storeroom #319003 is also used on the UT pinch rolls.	Obsolete motor for old pinch rolls.	Tube Prep Line 8	ISA-10 ADU Rods

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CCF-Number	Title	Description	Justification	Location	ISA ID
14577	Replace Transformer Feeding RP-1G	Replace the existing 75kva,208/120vac,3phase transformer with a 75kva,240/120vac,3phase transformer.	The LECOs do not run reliably on the 208 voltage, the analyzers are not getting sufficient current to keep crucibles hot. They are requiring excessive maintenance support to keep them running.	Chem Lab	Grounds
14579	CE Skeleton Welder Pressure Monitoring Upgrade	- Install an additional pressure transmitter to measure the ambient atmospheric pressure. Connect transmitter to existing PLC analog input card. - PLC and HMI programming changes to use new pressure transmitter to automatically adjust weld chamber pressu	Currently the CE Skeleton Welder uses a hard coded limit for the chamber pressure setting that can only be changed from an Engineering screen on the existing HMI. It was observed that when the outside (ambient) pressure was higher than the pressure setpoint inside the chamber, the atmospehere conditioning could not be adequately achieved, whithout first manually adjusting the setpoints. By adding the new pressure transmitter, the system will be able to dynamically change the pressure settings without continually going to an Engineering screen.	CE Skeleton Area	ISA-17 Final Assembly
14580	Line 5 Powder Lift Modification	Add note to drawing to allow use of Item 04 Rub Rails as required.	To resolve interference problems between the Rails and the Pan when the Pan is pulled into position.	ADU Pelleting / Line 5 Powder Lift	ISA-08 Pelleting
14581	Removal of V-212 to HX-504C Piping	Remove the piping that connects the discharge of P-212 from line 2 to the DI water heat exchanger on line 5, HX-504C.	The piping was installed as an experiment to feed Ammoniated water to the precipitator on line 5. The piping has not been used in 10+ years. Keeping the piping in place may lead to misdirected flow from line 2 to line 5 or from line 5 to line 2.	Conversion line 2 to line 5	ISA-03 ADU Conversion

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CCF-Number	Title	Description	Justification	Location	ISA ID
14595	City Water Make Up to the Chemical Cooling Tower Cold Well	Route a new city water make up line to the cold well on the Chemical Cooling Tower system.	The existing line is severely degraded and has a single isolation valve on the main city water supply from Bluff Road. If this valve does not shut off we have no other way of isolating this line except to shut off all city water to the facility. This existing city water supply also has no back flow protection device.	Building and Grounds	Grounds
14601	Scrubber S-1008 Modifications	The bottom outlet piping from the S-1008 sump will be modified to remove the 12" seal leg in the line. The leg is redundant to the liquid seal that is achieved with the sump vessels and due to the small volume available in the bottom of S-1008 this extra leg contributes to scrubber solution coming out the overflow. Once the scrubber solution is in the overflow it must be processed back through liquid scrap. The line is currently 3" and this size is adequate and will be maintained. The second portion of the change is the addition of a 1" drain line off of the overflow piping. This will allow for any tramp liquid that gets into this horizontal section of the line to be able to be drained back to the sump instead of overflowing to the ground. The third potion of this project will be the addition of (2) 2-inch blind flanged nipples off of the bottom outlet piping for future installation of pH probes. The last portion will increase the size of the vent line from the S-1009 A and B vessels from a 1" line to a 2" line. The vent nozzle will be increased from a 1" connection to a 2" connection as well to match. The vacuum break that is currently a 3" x 1" will be changed to a 4" x 2" reducer maintaining the air gap with a fixed support.	To improve consistency of scrubber performance.	Conversion Scrap Cage Area	ISA-01 Plant Ventilation System

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CCF-Number	Title	Description	Justification	Location	ISA ID
14604	Line 5 Calciner N2 blow down flow orifice testing	Field testing of different size flow orifices is needed to determine the optimum orifice for Line 5 Calciner N2 blow down. The existing 3/16 inch flow orifice for the Line 5 Calciner nitrogen blow down will be changed to a 1/8 inch flow orifice and the 1/8 inch flow orifice N2 purge flow rate will be measured. The 3/16 inch flow orifice will then be reinstalled and the original N2 purge flow rate verified before sign off of the CCF for start up. Safety Significant Controls will not be affected (an ITR is not required), no drawing changes are needed and the testing will occur when the equipment is down/not processing uranium.	Field testing of different size flow orifices is needed to determine the optimum orifice for Line 5 Calciner N2 blow down.	Line 5 Calciner	ISA-03 ADU Conversion
14606	Install Corrosion Coupons in Glass Column V-1081	Install 3 PVC corrosion coupons on the 5th, 6th & 7th baffle from the bottom of section 5 up.	The corrosion coupons will help determine future materials of construction that may be more chemically resistant to process flows.	SOLX	ISA-07 Solvent Extraction