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January 12, 2011

SUBJECT: WESTINGHOUSE 10 CFR 70.72 FACILITY CHANGE REPORT

Westinghouse Electric Company LLC (Westinghouse) hereby submits the report of Columbia Fuel Fabrication Facility (CFFF) changes that did not require NRC pre-approval in accordance with 10 CFR 70.72. This report addresses those changes completed within calendar year 2010. Westinghouse had no facility process changes that required Nuclear Regulatory Commission (NRC) pre-approval during calendar year 2010.

Westinghouse uses an integrated safety review approach for all modifications of, or additions to, existing structures, systems and components at the Columbia Fuel Fabrication Facility (CFFF). This process is described in, and conducted in accordance with the requirements of CFFF Regulatory Procedure RA-104, *"Regulatory Review of Configuration Change Authorizations."* This integrated review is conducted by the various regulatory disciplines, to include Radiation Safety, Environmental Protection, Nuclear Criticality Safety, Safeguards, Fire Safety, Chemical/Industrial Safety and other applicable Health and Safety experts when necessary. The Manager of the Environmental Health & Safety (EH&S) Department further assures regulatory requirements are satisfied and provides final EH&S approval of the Configuration Change. A key aspect of this review is a determination if the change is not prohibited by: 10 CFR 70, a SNM-1107 license condition, or a governing order. The reviewers decide whether NRC pre-approval and SNM-1107 license amendment changes are required prior to implementation.

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

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

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

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If you have any questions, please contact me at (803) 647-2045.

Sincerely,

Gerard F. Couture, Manager
Licensing and Regulatory Programs
Westinghouse Columbia Fuel Fabrication Facility

Docket 70-1151 License SNM-1107

Attachment: Configuration Control Form Change Report 161 pages.

cc: U. S. Nuclear Regulatory Commission, Region II
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Attn: Christopher Ryder, Project Manager

CCF	Title	Description	Justification	Location	ISA ID
06516	Magnehelic Gage on VH-2303	Install a magnehelic gage (0-1") across the HEPA filters on Laminar Flow Module VH-2303.	Gage is required to perform preventive maintenance.	Pellet Grinder line 6	ISA-08 Pelleting
06523	5A Furnace Cooling Water Manifold Material Change	Replace carbon steel cooling water manifold with stainless steel manifold.	Reduce propensity of corrosion @ valve inlets on manifold.	5A Sintering Furnace	ISA-08 Pelleting
06569	Cream Can & Cream Can Spacer	Implement a new cream can design with an integrated spacing mechanism for crit spacing between cream cans.	The new cream can and cream can spacer creates a passive engineered control for spacing between cream cans. The new design will help operations minimize crit spacing violations between cream cans.	Conversion	ISA-03 ADU Conversion
06577	Grinder Pellet Surge Conveyor	On pellet grinder lines 1-4 the surge conveyor often trips out on startup. To prevent this the other equipment on the same breaker as the surge conveyor will be moved to a different breaker.	Reliability.	pellet grinder lines	ISA-08 Pelleting
06658	CE Fuel Inspection in BWR	Inspect CE fuel assemblies in the BWR final assembly area. This is a temporary set up to deal with marginal skeletons suppied by Windsor. There will be no other fuel assemblies in the area during this effort. The inspection effort will be completed before the next BWR campaign starts in late January or February 2007. An old style FA Tree will be used for supporting and storing the assemblies.	Using exising standard production areas for this inspection effort will interupt production. This is a unique situation requiring a short inspection cycle. The area is currently unused and will not be needed for production till late January or early February 2007. The FA Tree being used to store and support the CE Assemblies have been used for years at this site. The area was formally the forest used for storing over 200 assemblies in the area.	BWR assembly and inspection area	ISA-17 Final Assembly

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CCF	Title	Description	Justification	Location	ISA ID
06660	Calciner Pressure Tap Purge Flowmeter	Under CCF 05-107 piping valving a pressure regulator flow orifice differential pressure transmitter rotameter and alarm card were installed to demonstrate that the Nitrogen purge flow to the pressure tap for the Calciner pressure transmitter can be successfull measured and that low and high trip points can be used for interlocking purposes. Now this purge line will be connected to the Calciner pressure tap for transmitter PT-x09D and the current purge line removed. Administrative safety significant control ADUCAL-909 will not be deleted pending a new criticality safety evaluation for the area. Active engineered safety significant control ADUCAL-902 will be modified per the attached revision of sketch 815417-4.	NRC commitment to replace administrative SSCs with active engineered SSC's.	ADU Conversion Calciner	ISA-03 ADU Conversion
06677	Blinding off V-305B	Blind off V-305B the off-line precipitator and remove associated piping and valves.	V-305B is no longer in use. The associated valves are leaking through and the associated piping is also leaking. This was done on Line 4 per CCF #06-240.	V-305B	ISA-03 ADU Conversion
07011	Crane CrossOver G3 Modifications	Modify the controls of the Coffin hoist on G3 bridge crane will be mofidied to permit the hoist to cross over to H1 bridge and access the forest.	CE Fuel can not be inspected in the new traveler container. Permitting both G3 and H1 cranes to access the cross-over and work in either bay H or G would address staging issues that occure during CE production.	Crane G3 in the fuel inspection and packing area	ISA-17 Final Assembly

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CCF	Title	Description	Justification	Location	ISA ID
07125	Calciner Pressure Tap Purge Flowmeter (Line 2)	Under CCF 05-107 piping valving a pressure regulator flow orifice differential pressure transmitter rotameter and alarm card were installed to demonstrate that the Nitrogen purge flow to the pressure tap for the Calciner pressure transmitter can be successfully measured and that low and high trip points can be used for interlocking purposes. Now this purge line will be connected to the Calciner pressure tap for transmitter PT-209D and the current purge line removed. Administrative safety significant control ADUCAL-909 will not be deleted pending a new criticality safety evaluation for the area. Active engineered safety significant control ADUCAL-902 will be modified per the attached revision of sketch 815417-4. This CCF is similar to 06-660.	NRC commitment to replace administrative SSCs with active engineered SSC's.	ADU Conversion Line 2 Calciner	ISA-03 ADU Conversion
07126	Calciner Pressure Tap Purge Flowmeter (Line 3)	Under CCF 05-107 piping valving a pressure regulator flow orifice differential pressure transmitter rotameter and alarm card were installed to demonstrate that the Nitrogen purge flow to the pressure tap for the Calciner pressure transmitter can be successfully measured and that low and high trip points can be used for interlocking purposes. Now this purge line will be connected to the Calciner pressure tap for transmitter PT-309D and the current purge line removed. Administrative safety significant control ADUCAL-909 will not be deleted pending a new criticality safety evaluation for the area. Active engineered safety significant control ADUCAL-902 will be modified per the attached revision of sketch 815417-4. This CCF is similar to 06-660.	NRC commitment to replace administrative SSCs with active engineered SSC's.	ADU Conversion Line 3 Calciner	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
07127	Calciner Pressure Tap Purge Flowmeter (Line 4)	Under CCF 05-107 piping valving a pressure regulator flow orifice differential pressure transmitter rotameter and alarm card were installed to demonstrate that the Nitrogen purge flow to the pressure tap for the Calciner pressure transmitter can be successfully measured and that low and high trip points can be used for interlocking purposes. Now this purge line will be connected to the Calciner pressure tap for transmitter PT-409D and the current purge line removed. Administrative safety significant control ADUCAL-909 will not be deleted pending a new criticality safety evaluation for the area. Active engineered safety significant control ADUCAL-902 will be modified per the attached revision of sketch 815417-4. This CCF is similar to 06-660.	NRC commitment to replace administrative SSCs with active engineered SSC's.	ADU Conversion Line 4 Calciner	Clean Side Rod Area
07128	Calciner Pressure Tap Purge Flowmeter (Line 5)	Under CCF 05-107 piping valving a pressure regulator flow orifice differential pressure transmitter rotameter and alarm card were installed to demonstrate that the Nitrogen purge flow to the pressure tap for the Calciner pressure transmitter can be successfully measured and that low and high trip points can be used for interlocking purposes. Now this purge line will be connected to the Calciner pressure tap for transmitter PT-509D and the current purge line removed. Administrative safety significant control ADUCAL-909 will not be deleted pending a new criticality safety evaluation for the area. Active engineered safety significant control ADUCAL-902 will be modified per the attached revision of sketch 815417-4. This CCF is similar to 06-660.	NRC commitment to replace administrative SSCs with active engineered SSC's.	ADU Conversion Line 5 Calciner	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
07151	Install Auto Refill for Both Fire Water Tanks	This project will install level transmitters and automatic valves that will automatically refill the fire water tanks when needed.	Currently the fire water tanks have to be manually refilled. The tanks must be maintained at a specified level per procedure. The installation of automatic refill for both fire water tanks will help ensure that the tanks are refilled after training excercisesetc. and ensure that the tanks are at the required levels in the event of an emergency.	Fire Pump House #1 and #2	Grounds
07184	Installation of Vapor Hose Handling Arm at T-51	This CCF will install a swing arm at the nitric acid (T-51) offloading station. The swing arm can pivot horizontally to provide support and adjustability for the vapor return hose which will enable operators and drivers to offload nitric acid safely.	This swing arm would make our offloading process safer. With our current operationour operator would hand the hose to the driver after he/she climbs to the top of trailer. The driver would try to hang on to the handrail with one hand and grab the hose with the other; the risk of the driver falling during this task is pretty high. With the swing armwell be able to set the vapor hose in place before the driver climbs to top of the trailerand all he/she will have to do it hook it up.	T-51 Nitric Acid Offloading Station	ISA-06 Chemicals ReceiptHandling and Storage
07224	Remove "Y" piping below the static mixer	Each precipitator on the conversion lines has a Y fitting that is no longer used. The fitting is corroding because material sits inside the Y and is not drained. The Y will be replaced with a lined spool.	Removing the Y will eliminate a potential leak point.	Precipitator Lines 1-5both columns	ISA-03 ADU Conversion
07332	Anti-Fatigue Work Mat	Floor mat for the drag check pit. A 2" thick diamond pattern wear-resistant anti-fatigue work mat used for the fuel assembly final inspection pit (packing).	An anti-fatigue cushion will reduce operator fatigue experienced when standing on concrete for long periods of time during fuel assembly inspection.	Final Inspection Pit (packing) Drag Check Pit	ISA-17 Final Assembly

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CCF	Title	Description	Justification	Location	ISA ID
07396	BWR Magazine Cart Pendent Controller Relocation	Relocate 4-way pendent controller currently mounted on the electrical box into a hand-held mounting box with a coiled cord. Then patch the hole in the electrical box. The electrical box is mounted to the BWR magazine cart (457F03EL01).	The current pendent controller location is hard mounted approximately 3 feet back and 2 feet under the front of the magazine. This makes magazine alignment with the pendent controller very challengingrequiring Operators to maintain visual contact with the magazine front while operating the pendent. This relocation will facilitate improved process for aligning cart when loading rods.	BWR Final Assy - Magazine Carts	ISA-17 Final Assembly
07459	Addition of Spring-loaded valve to Nitric acid line.	The Nitric acid line to the Ammonia scrubber contains a manual ball valve. A spring-loaded return valve will be installed. A section of 1/4" tubing will be removed and replaced with 1/2" piping to match the rest of the by-pass line.	The spring-loaded valve will prevent the Nitric acid from remaining open.	S-1008 Nitric supply line	ISA-03 ADU Conversion
07479	Remove Precipitator V-205A and Associated Piping	V-205A is the of-line precipitator. It is no longer used. The column as well as the associated piping will be removed. The pump associated with the column will also be removed.	The valves between the two vessels leak through and create external leaks. The removal of the vessel will free up valuable space. See CCF 06-677 and 06-240 for lines 3 and 4.	V-205A	ISA-03 ADU Conversion
07511	Remove Piping Related to Carbonate and Sodium Removal	Remove Piping and Equipment Related to Carbonate and Sodium Removal	The system is obsolete.	Carbonate Removal Building	ISA-15 URRS Wastewater Treatment System
07518	Pellet Prep Polypack Elevator	Modify the Polypack Elevator for better cleaning of the floor	A small pellet area fire occured due to dry combustibles collecting under the polypack lift. The bottom of the lift is not able to be mopped in the current configuration.	Prep Polypack Lift	ISA-08 Pelleting
07520	Pellet Prep Polypack Elevator	Modify the Polypack Elevator for better cleaning of the floor	A small pellet area fire occured due to dry combustibles collecting under the polypack lift. The bottom of the lift is not able to be mopped in the current configuration.	Line 2 Prep Polypack Lift	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
07521	Pellet Prep Polypack Elevator	Modify the Polypack Elevator for better cleaning of the floor	A small pellet area fire occured due to dry combustibles collecting under the polypack lift. The bottom of the lift is not able to be mopped in the current configuration.	Line 3 Prep Polypack Lift	ISA-08 Pelleting
07522	Pellet Prep Polypack Elevator	Modify the Polypack Elevator for better cleaning of the floor	A small pellet area fire occured due to dry combustibles collecting under the polypack lift. The bottom of the lift is not able to be mopped in the current configuration.	Line 4	ISA-08 Pelleting
07563	Install E-stop for Line 1	An E-stop will be installed to allow Operations to shut down the line in an emergency situation.	The button will safely shut down the line without the need to have personnel in the area.	Conversion Control Room	ISA-03 ADU Conversion
07564	Install E-stop for Line 2	An E-stop will be installed to allow Operations to shut down the line in an emergency situation.	The button will safely shut down the line without the need to have personnel in the area.	Conversion Control Room	ISA-03 ADU Conversion
07565	Install E-stop for Line 3	An E-stop will be installed to allow Operations to shut down the line in an emergency situation.	The button will safely shut down the line without the need to have personnel in the area.	Conversion Control Room	ISA-03 ADU Conversion
07566	Install E-stop for Line 4	An E-stop will be installed to allow Operations to shut down the line in an emergency situation.	The button will safely shut down the line without the need to have personnel in the area.	Conversion Control Room	ISA-03 ADU Conversion
07597	Fan Installation at Gamma Scanner	Install fan on I Beam at Scanner in Product Assurance / Inspection. Fan was requested by James Howell.	Work area requires cooling. This fan will be mounted on the I beam to eliminate tripping hazard from electrical cord. We currently are using a fan in the same configuration in the area.	Beam at Gamma Scanner	Miscellaneous
08153	Convert old Chem Dev. lab/Crystals area into maintenance shops	Convert the area into a balancing shop paint booth room and other areas for maintenance and open up access betweeen the current maintenance mechanics shop and the pump shop.	Current areas are not safe because of lack of space	old Chem dev lab/crystals area	Miscellaneous

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CCF	Title	Description	Justification	Location	ISA ID
08257	Replace spool pieces with valves in UN pumpout manifolds	Replace spool pieces used in SOLX and clean dissolver pumpout manifolds to UN Bulk storage with valves.	Improved safety - each spool piece change requires an operator and mechanic to break containment to swap spools. There are 4 spool pieces that are typically changed per tank times up to 4 tank changes per week. Improved productivity/reduced cost - less process down time waiting for spool piece change. Less mechanic time required. Less consumables required (gasketsetc.)	Manifold is physically located in Conversion scrap cage area	ISA-07 Solvent Extraction
08272	Receipt of DCP Derived Pellets for Testing	200 Enriched (4.03%) AREVA UO2 Pellets will be shipped to CFFF in a DHTF shipping container. The pellets will be storred on corrugated trays in the inner container of the DHTF. Pellets will be removed from the inner container and transferred into individual glass vials and prepared for archive storrage. Receiving activities for these pellets will be performed using the former Crystals receipt system equipment and location. SOI-U-0197 contains operating instructions.	Westinghouse is evaluating the purchase of the AREVA DCP powder technology. As part of this process CFFF will evaluate AREVA quality assurance released pellets against the Westinghouse Pellet Specification requirements to assure they meet all customer requirements.	Archive Pellet Storage	ISA-18 Laboratories
08274	New Electrode cut-off tooling	Two new electrode cut-off tools will be utilized. The electrodes being cut are composed of 2% Thoriated Tungsten. Each unit has a diamnond cut-off wheel and a HEPA filtered vacuum which is attached via an enclosure. Drawing number TD001018 depicts the item. Modifications to the vacuum system and guards are complete to minimize airborn thorium.	ALARA Modifications to the vacuum system and guards are being completed to minimize aiborn thorium.	Machine Shop - Electrode Grinding	Miscellaneous
08299	Magazine Cart-Final Assembly Rod Loading	Testing and Analysis of New Magazine Cart 448F09EQ14	Review of the new design is needed to ensure proper maneuverability of the cart with a magazine and safety of operation.	Final Assembly	ISA-17 Final Assembly

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CCF	Title	Description	Justification	Location	ISA ID
08319	Removal of extra Ammonium hydroxide filters on Line 2	There are four Ammonium hydroxide cartridge filters on Line 2. Only two of the filters are needed. The two extra filters will be removed. The excess piping for the extra filters will be removed and any repiping to improve ergonomics will be completed as well.	The extra filters lead to extra potential leak points. The moving/removing of the piping will free up space/clutter. Same as CCF 07-474 on Line 1.	Line 2 Ammonium hydroxide supply line.	ISA-03 ADU Conversion
08320	Removal of extra Ammonium hydroxide filters on Line 3	There are four Ammonium hydroxide cartridge filters on Line 3. Only two of the filters are needed. The two extra filters will be removed. The excess piping for the extra filters will be removed and any repiping to improve ergonomics will be completed as well.	The extra filters lead to extra potential leak points. The moving/removing of the piping will free up space/clutter. Same as CCF 07-474 on Line 1.	Line 3 Ammonium hydroxide supply line.	ISA-03 ADU Conversion
08321	Removal of extra Ammonium hydroxide filters on Line 4	There are four Ammonium hydroxide cartridge filters on Line 4. Only two of the filters are needed. The two extra filters will be removed. The excess piping for the extra filters will be removed and any repiping to improve ergonomics will be completed as well.	The extra filters lead to extra potential leak points. The moving/removing of the piping will free up space/clutter. Same as CCF 07-474 on Line 1.	Line 4 Ammonium hydroxide supply line.	ISA-03 ADU Conversion
08322	Removal of Water Filter on Line 3	The DI water filters on Line 3 are not necessary. Lines 1 2 and 5 do not have filters. The excess piping for the filters will be removed and any repiping to improve ergonomics will be completed as well.	The filters are a potential leak point and are not required as evidenced on the other lines that do not have filters. The moving/removing of the piping will free up space/clutter and improve access.	Line 3 DI water supply line.	ISA-03 ADU Conversion
08323	Removal of Water Filter on Line 4	The DI water filters on Line 3 are not necessary. Lines 1 2 and 5 do not have filters. The excess piping for the filters will be removed and any repiping to improve ergonomics will be completed as well.	The filters are a potential leak point and are not required as evidenced on the other lines that do not have filters. The moving/removing of the piping will free up space/clutter and improve access. Same as CCF 08-322 for Line 3.	Line 4 DI water supply line.	ISA-03 ADU Conversion
08367	Photoeye at ADU loading table	Add a photoeye to the loading table (similar to line 5 in IFBA) to ensure that the rods are completly out of the loading block and enclosure prior to transfer.	Currentlyit is possible to transfer rods to the rope cleaner station while they are still in the loading hood. This has resulted in bent and scrapped rods. This change will prevent this from occuring.	Line 4 loading table	ISA-10 ADU Rods

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CCF	Title	Description	Justification	Location	ISA ID
08380	Hex Nut Plug	Design a plug to screw into the new style hex nut used on the pelleting area's grinder lines specifically the diamond wheel spindle. The plug will help prevent various material buildup in the nut's threads.	Prevent material buildup in the nuts threads allows for: - easier removal and installation on hex nut - minimizes wear on nut and spindle	ADU and ERBIA grinder lines	ISA-08 Pelleting
08468	New UF6 Adaptor Gasket	A new UF6 adaptor gasket will be created for use in both the steam vaporizers as well as the new autoclaves. The new gasket will have an outside diameter of 1.385 inches (vs 1.38) and an inside diameter of 1.063 inches (vs 0.68). See attached drawing for new gasket dimensions. Both new and old gaskets will be interchangable and can be used in both the vaporizer and autoclave.	The increased internal diameter will result in a decreased flow restriction.	UF6 adaptor gasket in vaporizer/autoclave	ISA-03 ADU Conversion
08474	V-9155 Aqueous Ammonia Line Removal	Remove dormant Aqueous Ammonia line that was disconnected from V-9155 in the ERBIA Scrap Recovery Area. Remove line back to header.	Line is dormant and contains Aqueous Ammoniawhich is a PHA covered hazardous material. By removing lineit will eliminate potential leak areas.	ERBIA Scrap Recovery	ISA-20 ERBIA

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CCF	Title	Description	Justification	Location	ISA ID
08524	Line 3 UF6 Valve Bypass	On each vaporizer quarter turn valve locks will be installed on the manual valve directly downstream of the cylinder valve. The lock key will be captured when the valve is open and released when the valve is closed locking the valve in the close position. The two keys (one released from each vaporizer valve) fit into a separate unit and will enable a normal/bypass selector switch. Placing the selector switch in the bypass position will energize solenoids SV-x02A and SV-x02B via a separate 120 VAC source. This will in turn open the UF6 emergency valve XV-x02B and eductor valve XV-x02A. The normal/bypass selector switch will capture the key in the bypass position. This key lock system will effectively bypass the UF line low pressure interlock (PT-x02A ADUVAP-103) allowing the UF6 emergency valve and eductor valve to be opened to relieve UF6 line pressure in preparation for maintenance activities that require breaking into the UF6 line. On completion of the activity that required the bypass operation the selector switch will be returned to the normal position and a person performing the procedure will witness XV-x02B and XV-x02A return to the closed position. The released keys will then be used to open the manual valves and the keys will be then be trapped in these valve operators.	The forcing of the UF6 emergency valve and the eductor valve as described in procedure COP-810102 will no longer be necessary. -Safety	UF6 Bay	ISA-03 ADU Conversion
08557	Install centrifuge for dirty dissolvers	Install centrifuge and associated equipment (pumps piping etc.) for dirty dissolver process. Centrifuge will be same kind as used in pelleting except stainless steel - Barrett DS225 dual outlet 3HP motor 236 bowl. Provide dual backflow protection to ensure material cannot backfill centrifuge housing.	SafetyCostProductivity improvement	Dirty dissolver platform	ISA-04 Safe Geometry Dissolver

CCF	Title	Description	Justification	Location	ISA ID
08562	Replace level Switches on 958 Scrubber	Replace the High and Low level Switches on 958 Scrubber(both sections); and add a scrubber pump interlock to the Low Level switches to prevent running the pumps dry. This change will require piping modification to the level manifold.	We have had reliability issues on 958 Scrubber: problems with level controlhigh and low alarmsand pump failures. We are currently using float type switches for the high level switches (2ea.) and conductivity type level switches (2ea.)for the low level. We are currently using the "vibrating fork" type switch for the level control. We have had good success with the "vibrating fork" switch in this type of applicationand this CCF will allow us to change the high and low level switches to this type to improve our reliability. This CCF will also allow us to "interlock" the pump to shut off should a low level. This action will prevent us from "burning up" the pump if there is no water in the sump.	Scrubber 958 on the Roof over Solx	ISA-01 Plant Ventilation System
08605	AP Rod Length Mod - Gamma Scanner 3 - Controls	Modify various components of the Gamma Scanner 3's control system to allow for the longer AP rod length. This CCF is being resubmitted to follow the new TA-500 requirements. The project is scheduled for the May 2010 Outage.	The current Gamma Scanners control system cannot effectively handle the AP rod as it passes through the equipment.	CFFFQC InspectionGamma Scanner 3	ISA-10 ADU Rods
08619	Quick Disconnect View Port on Main Feed Tube	Install a lexan view port on the main feed tube on Pellet Line 1 with a quick disconnect fitting.	Reduced ECO/contract turnover time.	Line 1 Main UO2 Feed Tube	ISA-08 Pelleting
08621	Quick Disconnect View Port on Main Feed Tube	Install a lexan view port on the main feed tube on Pellet Line 2 with a quick disconnect fitting.	Reduced ECO/contract turnover time.	Line 2 Main UO2 Feed Tube	ISA-08 Pelleting
08623	Quick Disconnect View Port on Main Feed Tube	Install a lexan view port on the main feed tube on Pellet Line 4 with a quick disconnect fitting.	Reduced ECO/contract turnover time.	Line 4 Main UO2 Feed Tube	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
08651	Add ADU Overcheck Station to ADU Rod Line #3	Add workstation at or near the wall for entering the ADU overcheck transaction into CRMS. This will include adding a computer (either PC or Thin Client) and all peripherals - monitor keyboard mouse etc. and associated cabling. There will also be a mounting arm used to hold these computer items. See attached pictures as examples of mounting arms being considered.	Various computer systems as well as computer mounting devices are in use in this area.	ADU Rod Line #3	ISA-10 ADU Rods
08652	Add ADU Overcheck Station to ADU Rod Line #1	Add workstation at or near the wall for entering the ADU overcheck transaction into CRMS. This will include adding a computer (either PC or Thin Client) and all peripherals - monitor keyboard mouse etc. and associated cabling. There will also be a mounting arm used to hold these computer items. See attached pictures as examples of mounting arms being considered.	Various computer systems as well as computer mounting devices are in use in this area.	ADU Rod Line #1	ISA-10 ADU Rods
08653	Add ADU Overcheck Station to ADU Rod Line #2	Add workstation at or near the wall for entering the ADU overcheck transaction into CRMS. This will include adding a computer (either PC or Thin Client) and all peripherals - monitor keyboard mouse etc. and associated cabling. There will also be a mounting arm used to hold these computer items. See attached pictures as examples of mounting arms being considered.	Various computer systems as well as computer mounting devices are in use in this area.	ADU Rod Line #2 ADU Rod Line #2 ADU Rod Line #2	ISA-10 ADU Rods
08654	Add ADU Overcheck Station to ADU Rod Line #4	Add workstation at or near the wall for entering the ADU overcheck transaction into CRMS. This will include adding a computer (either PC or Thin Client) and all peripherals - monitor keyboard mouse etc. and associated cabling. There will also be a mounting arm used to hold these computer items. See attached pictures as examples of mounting arms being considered.	Various computer systems as well as computer mounting devices are in use in this area.	ADU Rod Line #4	ISA-10 ADU Rods

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CCF	Title	Description	Justification	Location	ISA ID
09121	Revise lines 8 and 9 tube handling drawings	Revise the handling drawings for lines 8 and 9 to: Change all of the plastic pieces to call out Black Nylon and add note for plastic parts - "Black Nylon preferred for new parts. UHMW PE and Nylon are acceptable materials. Equipment may have a mixture of parts. Parts may be modified after installation to allow for tube alignment." <<This CCF is being re-routed because it was originally approved prior to Nov. 2009.>>	To create consistency in the plastic used on the tube prep equipment and allow mechanics/ engineers some flexibility during installation and for subsequent tubing size changes to create better alignment.	Tube Prep lines 8 and 9	Clean Side Rod Area
09139	Transition Cam Modification	Machine flat on Transition Cam housing and install a modified 1/4" BSPP male to 1/4" NPT female adapter fitting. See attached .pdf files for design modification concepts.	The transition cam port is a 1/4" BSPP thread. In the pasta 1/4" NPT pipe has been screwed into this port. Great care has to be taken to make sure the pipe is not screwed far enough into the port to interfere with the cam piston. If the piston movement is restricted by the pipepellet end-capping can occur. To reduce the chance of this occurrencea 1/4" BSPP male to 1/4" NPT female adapter fitting will be installed in the cam port. The adaptor thread length will be modified to ensure the threads do not protrude into the housing. The surface around the housing port will need to be machined flat to work with the 1/4" BSPP thread sealing washer.	ADU & Erbia Pelleting / R53 Presses	ISA-08 Pelleting
09140	5A & 5B Sintering Furnace Modification	Replace bolts used for boat stop on entrance end of furnace with a solid bar.	The bolt heads are located such that contact occurs with the side wall of a boat instead of the base plate. The load concentration @ the bolt heads damages the boat. The solid bar will contact the base plate instead of the side wallsand will better distribute the load of a full boat coming to rest against the stop. All other ADU sintering furnaces use a solid bar for the boat stop.	ADU Pelleting / 5A & 5B Sintering Furnace	ISA-08 Pelleting

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09163	Expansion Break Area	Modify break area counter top to include a sink with hot/cold water additional shelves for more microwaves. Also install new ice machine receptacles per added microwaves and light fixtures over counter.	Decrease personnel wait time in break area to heat food or to get ice during break time.	Expansion Break Area	Miscellaneous
09170	ADU Line 5 Removal & Disposal of Hot Oil Pipes	Demo & Removal of abandoned Hot Oil pipeline and insulation.	CCF 09071 shall be completed prior to implementation of this CCF.	ADU Line 5	ISA-03 ADU Conversion
09192	Install VFD on Erbia Pellet Press	Install VFD on Erbia Pellet Press. The Erbia Pellet Press PLC contains no SSCs as of 12/22/09.	Existing mechanical variable speed gearbox has failed. All other presses are using VFDs	Erbia Pellet Press	ISA-20 ERBIA
09196	Upgrade DC Drive for UT2	Upgrade the UT Drive for UT2 from a DC Drive with a TAch feedback to a Servo Drive.	Existing DC motor with tach feedback is obsolete and parts are not available.	UT Station #2 on the clean side	ISA-10 ADU Rods
09198	Replace incinerator cartridge filter housings	Replace obsolete leak prone incinerator cartridge filter housings with Parker 4LFE6-3-2F housings. Housing construction and spacing will be at dimensions as specified in current CSE.	Improved operator safety	Incinerator room	ISA-13 Low Level Radioactive Waste Processing
09202	Machine Guard for Maintenance Balancing Machine	Install a machine guard around the maintenance balancing machine and implement a gantry crane for use with the machine guard/balancing machine and for general lifting in the pump rebuild shop/maintenance bay area.	The machine guard is required for safe operation of the equipment.	Maintenance Rebuild	Miscellaneous
09248	Elimination of ammonia line to S-1030 scrubber	The S-1030 procedure has been modified to eliminate the need of ammonia for pH adjustment The 1/2 inch ammonia line the manual block valve and the automatic flow control valve are to be removed. A blind will be installed at the ammonia supply branch point to stop the ammonia flow.	Ammonia is no longer required for S-1030 scrubber	S-1030 scrubber	ISA-01 Plant Ventilation System

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09262	Fuel Loader 2 Upgrade	Upgrade the components of Final Assembly's Fuel Loader #2 to handle the AP length Rod. The resultant machine will be functionally equivalent to loader #4. Upgrades to loader #2 include the following: 1. The loader support frame will remain but the ball screw assembly and associated frame will be replaced with a new one that is approximately 2 feet longer. 2. An extension will be added to the loader floor plate to justify the whole loader away from the strongback exactly one half the added ball screw length. 3. The exisiting control system will be replaced with a new GE control system that is consistent with plant standards. 4. An extension will be added to the east end of the strongback. This extension is required to accomodate the additional length of the AP1000™ skeleton. 5. The magazine support stand will be replaced with a new one whose position relative to the east end of the strongback is indexable.	Loader 2 is not currently long enough to load the AP1000™ length rod.	CFFFFinal Assembly	ISA-17 Final Assembly
09273	Provide Vacuum Oven #1 in IFBA with new Turbo Pump Configuration	Vacuum Oven #1 in IFBA operates with a Turbo Pump that is obsolete. A new style Turbo Pump is used on the Vacuum Oven #3. Through this CCF Vacuum Oven #1 will be converted to the use of the new style Turbo Pump.	By converting Vacuum Oven #1 to the same Turbo Pump configuration as Vacuum Oven #3 usesthe two ovens will be able to share spare pumps and thereforereduce downtime experienced when the pumps breakdown. This will also eliminate the production downtime experienced by using obsolete and outdated equipment.	IFBA Vacuum Oven #1	ISA-12 IFBA Fuel Rod Manufacturing

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09290	PCN Migration - LV1415894	Replace computer hard drive and/or components in LV1415894 for PCN Migration. Add SolidCore Configuration Management Software.	Manufacturing and Business systems are being seperated to eliminate manufacturing PCs from being used for office purposes. Production downtime time will be reduced by adding SolidCore Configuration Management to reduce the risks that affect the availabilityintegrity and confidentiality of our networked manufacturing systems.	Unblended Area	ISA-03 ADU Conversion
09291	PCN Migration - LV1429250	Replace computer hard drive and/or components in LV1429250 for PCN Migration. Add SolidCore Configuration Management Software.	Manufacturing and Business systems are being seperated to eliminate manufacturing PCs from being used for office purposes. Production downtime time will be reduced by adding SolidCore Configuration Management to reduce the risks that affect the availabilityintegrity and confidentiality of our networked manufacturing systems.	ADU Dumphood	ISA-03 ADU Conversion
09292	PCN Migration - LV1421727	Replace computer hard drive and/or components in LV1421727 for PCN Migration. Add SolidCore Configuration Management software.	Manufacturing and Business systems are being seperated to eliminate manufacturing PCs from being used for office purposes. Production downtime time will be reduced by adding SolidCore Configuration Management to reduce the risks that affect the availabilityintegrity and confidentiality of our networked manufacturing systems.	EPREP (Polypak Dumphood)	Miscellaneous
09294	PCN Migration - LV1431444	Replace computer hard drive and/or components in LV1431444 for PCN Migration. Add SolidCore Configuration Management software.	Manufacturing and Business systems are being seperated to eliminate manufacturing PCs from being used for office purposes. Production downtime time will be reduced by adding SolidCore Configuration Management to reduce the risks that affect the availabilityintegrity and confidentiality of our networked manufacturing systems.	Bulk Room Desk	ISA-05 ADU Bulk Powder Blending

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09304	Pellet Conveyor Pellet Catches	Design and install catches for pellet dropout ares on the pellet conveyor.	The dropouts (3"x3"x2" or smaller) will allow pellets and chips to drop off of track and collect into small collection boxes. This will prevent process upsets by allowing nonconforming pellets to drop off of the track. The exit end catch will prevent pellets from falling onto the floor in case of a process upset. The pellets are divererted to a scrap polypak.	Line 1 Pellet Conveyor	ISA-08 Pelleting
09392	Install Ladder Safety Gates Throughout Manufacturing Areas	Install ladder safety gates on ladders identified by Safety Engineer located in the Mechanical Area Chemical Area Outside Area and Roof (per OSHA Reference 29CFR 1910.23).	To prevent someone from falling off platform. Alsoladder safety gates are required by OSHA 29CFR 1910.23.	MechanicalChemicalOutside and Plant Roof	Miscellaneous
09433	Erbia Roll Hood Drain Holes	Drain holes will be added to the roll hood to prevent retention of moderator.	Requirement of CSE-20-C.	Erbia First Floor Roll Hood	ISA-01 Plant Ventilation System
09454	UF6 Pigtail Storage Hood	Provide a storage hood for the staging of UF6 pigtail(s) adapter(s) gaskets tools and anti-rotation divice used for the UF6 cylinders processed in Line 5 vaporizers. The hood is to be located next to the V-601 cylinder staging chest.	V-601 Cylinder Staging Chest will be usedbut not exclusivelyfor UF6 pigtail installation and removal operations for UF6 cylinders processed on Line 5. A storage hood is required to stage sealed UF6 pigtails between their service use. The pigtails placed in the storage hood will have been evacuatedinspected and sealed (cam plugs). All handling of unsealed pigtails will be done in the confines of a cylinder ventilation tent at the Line 5 vaporizers or V-601. The storage hood is the same disign as the unit used for the hydrolysis passive overflowbut is not intended for ventilation service.	UF6 Bay at V-601	ISA-03 ADU Conversion
09467	Replace vacuum pump on Thermal stability furnaces	Replace the existing small Alcatel vacuum pump for thermal stability chambers 4-6 and the obsolete Varian DS700 on chambers 1-3 with Varian DS602 pumps.	The existing pump on chambers 4-6 is undersized. It results in extended evacuation cycles. The new pump has similar capacity to the old Varian DS700 pump that has worked well for 25 years on chambers 1-3 but has recently failed.	mezzanine	ISA-08 Pelleting

CCF	Title	Description	Justification	Location	ISA ID
09503	Oxide Coater 1 Cooling Valve Replacement	Replace old leaking valve with a new type valve (NIBCO T-133 1" Bronze valve 150 SWP/300CWP)on the cooling water line.	Valve leaks and it is obsolete.	Oxide Coater 1 Cooling Water Line	Clean Side Rod Area
09508	6-inch wastewater outfall / diffuser at the Congaree River	Background: The plant effluent line is a 6-inch ductile iron pipeline which runs ~ 4.5 miles from the CFFF along an unpaved road in the flood plain of the Congaree. It turns down at the river and is attached to a 6-inch stainless steel pipe fitted with 3 diffusers. The diffuser pipe is bolted to a precast concrete channel set on the river bottom. Project overview: Construct a new outfall adjacent to the existing pipe line. The new outfall will consist of ~ 100 feet of fusion welded joints of HDPE pipe which will connect to the existing ductile iron pipe further inland. The diffuser pipe will be anchored to the river bottom using a helical pier system. Once construction of the new outfall is complete the existing outfall will be abandoned.	The outfall piping has failed on several occasions since it was originally constructed in 1998. It is suspected that each failure was the result of the diffuser concrete channel settlement on the river bed. The existing concrete channel is not anchored.	WASTEWATER EFFLUENT DISCHARGE PIPING / DIFFUSER	Grounds
09512	U3O8 Vibratory Sifter Change	1. Change Spring(Item 26 in 321F04EQ03 BOM) size from .164 Dia. X 1.12 OD X 4.06 Lg to .162 Dia. X 1.218 OD X 4.00 Lg. 2. Change Grommet(Item 19 in 321F04EQ03 BOM) size from .79 OD X .40 ID X .75 Lg to .87 OD X .41 ID X .78 Lg.	1. Original spring size is not a standard size. 2. Make Grommet fit closer to standard size spring ID. New ID and length match a standard size grommet.	ADU & Erbia Pelleting \ Oxidation Hood U3O8 Sifter	ISA-08 Pelleting
09523	pH Transmitter replacement on Chem. Lab Scrubber	Replace the pH transmitter on the Chemical Laboratory Scrubber S-974 on the Roof. This pH probe is used to monitor the pH of the scrubber water.	Current unit has failed and is obsolete	Chem. Lab Scrubber on the Roof	ISA-01 Plant Ventilation System
09532	Install non slip coating and safety gates on ladders	Install non slip coating and safety gates on the ladders listed in the attached spreadsheet	Ladder Safety	throughout CFFF	Miscellaneous
09536	Freon Detector Upgrade Equipment Room1	Upgrade the Freon Detector in Equipment Room1	The current unit does not meet safety codes	Equiment Room 1 on the Mechanical side	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09541	UF6 and UNH High Limit for WinLIMS	Revise Oracle procedure LIMSOWN.sp_CalculateLimits to impose an upper spec limit of 4.990 on %U235 for UF6 and 4.989 on UNH sample types where the nominal U235 is greater than 4.939%. For nominal enrichments of 4.939% and below the existing nominal +/- 0.05% limit will still apply.	Required to support SSC UF6CYL-105 in sketch 815417-2 revision 33.	Chem Lab	Miscellaneous
09549	Calibrate Assay 3 to perform dirty dissolver residue polypak uranium determination	Add calibration method to Assay 3 to be able to determine uranium content of polypaks of dirty dissolver residue.	Implementation of CSE-4E	URRS bay - Assay 3	ISA-04 Safe Geometry Dissolver
09554	Modification of Safety Cage around X-ray Generators in Non-Fuel Area	Modify the existing safety cage around generators for the x-ray unit in the Non-Fuel Area. Cut opening in cage and install safety gate to allow entry to the area.	Presentlythere is no safe entry to the safety cage as it has no opening. Personnel have to climb over the top railing which presents safety issue relative to falling. An opening cut in the railing and installation of a safety gate would remedy the issue.	Columbia	ISA-10 ADU Rods
09567	Photoeye at ADU loading table (Rod Line 1)	Add a photoeye to the loading table (similar to line 5 in IFBA) to ensure that the rods are completly out of the loading block and enclosure prior to transfer.	Currentlyit is possible to transfer rods to the rope cleaner station while they are still in the loading hood. This has resulted in bent and scrapped rods. This change will prevent this from occuring.	Rod Line 1 Loading station	ISA-10 ADU Rods
09568	Photoeye at ADU loading table (Rod Line 2)	Add a photoeye to the loading table (similar to line 5 in IFBA) to ensure that the rods are completly out of the loading block and enclosure prior to transfer.	Currentlyit is possible to transfer rods to the rope cleaner station while they are still in the loading hood. This has resulted in bent and scrapped rods. This change will prevent this from occuring.	ADU Rod Line 2 Loading table	ISA-10 ADU Rods
09570	Photoeye at ADU loading table (Rod Line 3)	Add a photoeye to the loading table (similar to line 5 in IFBA) to ensure that the rods are completly out of the loading block and enclosure prior to transfer.	Currentlyit is possible to transfer rods to the rope cleaner station while they are still in the loading hood. This has resulted in bent and scrapped rods. This change will prevent this from occuring.	ADU rod line 3 Loading table	ISA-10 ADU Rods

CCF	Title	Description	Justification	Location	ISA ID
09571	Trend gamma monitor data for UN bulk storage tanks	Trend gamma monitor data for UN bulk storage tanks by 1) hooking up PLC to network and 2) providing read only access to PI historian	Study gamma monitor performance to better understand performance	UN bulk storage	ISA-02 Uranyl Nitrite Bulk Storage Tanks
09586	Upgrade Dampers and Controls on VAV Boxes	Replace current inline damper/motor and air controller/actuator with an external damper/motor and DDC controller/actuator. Also replace thermostats.	VAV boxes are not working properlywhich causes the area to have inadequate heat during the cold days. Upgrading the controls and damper will not only operate the VAV boxes properlybut it will be maintenance-friendly by having the main equipment external of the duct.	Main Expasion 1st & 2nd Floor	Grounds
09614	Telephone and Network Demolition	Remove abandoned cables and equipment in telephone closet and telephone switch room.	The removal of cables and equipment will provide needed space for network upgrades in Telephone Closet and Switch Room. The removal of cables in floor aid in identifying existing cables and allow proper installation of new cables	Telephone Equipment Rooms	Grounds
09622	Replacement of welded three-piece valve with flanged ball valve on DI water to S-431 and removal of DI water flow meter.	Replacement of welded three-piece valve with flanged ball valve on DI water to S-431. The current valve is corroded. The valve will be replaced with a new flanged ball valve. A DI water flow meter going to the bottom of the off-gas condenser has been abandoned in place and will be removed and the line capped.	The continued elimination of three-piece ball valves from the area will be facilitated by this change. The use of a flanged valve will help with future replacements. The removal of the flow meter will eliminate a potential leak point.	DI water line going to S-431	ISA-03 ADU Conversion
09623	Removal of Abandoned DI Water Flow Meter	The flow meter for the DI water going to the bottom of the off-gas condenser has been abandoned in place. Remove the flow meter and cap the connection to the DI water line.	The removal eliminates a potential leak point. The removal eliminates clutter around the scrubber.	DI water going to the bottom of CO-231	ISA-03 ADU Conversion
09654	Pour Concrete Pad by the Breathing Air Cylinder Station	This CCF will pour a ~1000 square feet x 12" deep concrete pad by the breathing air cylinder station to be used as a secondary containment for misc. acid totes and drums storage. This pad will drain to the adjacent North Lagoon.	Currentlywe have no temporary storage area for acid totes and drums.	URRS Outside / Breathing Air Cylinder Station	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09666	Replace Pressure Relief Valve	Coater #5 DI Water Skid has a leaking pressure relief valve on the DI water side of the heat exchanger. The existing valve is obsolete. The new replacement valve will be set at the same water service pressure (150 PSI) with an outlet flow of 41.2 GPM. The material of construction is 316 stainless steel. The pressure relief valve specifications are attached.	The existing pressure relief valve is obsolete and leaking.	IFBA Equipment Room	ISA-14 IFBA Processing
09676	Modify safety cage install gate in fuels x-ray	Modify the existing safety cage around generators for x-ray unit in the fuels area. Cut opening in cage and install safety gate to allow entry to the area.	Allow entry to the generators to the fuels x-ray area. No entry at present which presents a safety issue when gaining entry to area.	fuels Rod X-ray area	ISA-10 ADU Rods
09683	5 S QC Receiving Laydown Area	Remove racks and arrange tables.	Greenbelt Project	QC Receiving	Components
09690	Moisture Sampler Hardpoint Hold Modification	The line 1 moisture sampler PLC will be modified to better handle the creation of hardpoint hold material.	The current programming will allow too many polypacks on a hardpoint hold carrier.	moisture sampler	ISA-03 ADU Conversion
09691	Moisture Sampler Hardpoint Hold Modification	The line 2 moisture sampler PLC will be modified to better handle the creation of hardpoint hold material.	The current programming will allow too many polypacks on a hardpoint hold carrier.	moisture sampler	ISA-03 ADU Conversion
09692	Moisture Sampler Hardpoint Hold Modification	The line 3 moisture sampler PLC will be modified to better handle the creation of hardpoint hold material.	The current programming will allow too many polypacks on a hardpoint hold carrier.	moisture sampler	ISA-03 ADU Conversion
09693	Moisture Sampler Hardpoint Hold Modification	The line 4 moisture sampler PLC will be modified to better handle the creation of hardpoint hold material.	The current programming will allow too many polypacks on a hardpoint hold carrier.	moisture sampler	ISA-03 ADU Conversion
09694	Moisture Sampler Hardpoint Hold Modification	The line 5 moisture sampler PLC will be modified to better handle the creation of hardpoint hold material.	The current programming will allow too many polypacks on a hardpoint hold carrier.	moisture sampler	ISA-03 ADU Conversion
09701	Installation of Additional Criticality Alarm Horns	To provide adequate audible coverage for the criticality alarm system in the plant. Locations that have been identified thus far as needing more coverage include: all of the trailers 1st and 2nd floor office area 3rd floor IFBA office area and the recertification building.	Notification of an accidental criticality via an audible alarm is a requirement of 10CFR71 and ANSI/ANS-8.3. There are numerous areas in the plant that do not have audible coverage for the criticality accident alarm system. In the event of an accidental criticalityportion of the plant may not be able to hear the alarm.	CFFF	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09703	Remove Heat Exchanger on Top of T-1103 in Still 1	This CCF will remove the heat exchanger on top of the absorber column (T-1103) in Still 1 and replace it with a straight pipe.	The heat exchanger was blinded off and has not been used in years. By removing the heat exchanger would eliminate periodic inspections required on the unit.	URRS Outside / Still 1	Grounds
09704	Power Monitoring in the Computer Room	Install equipment in the computer room to monitor the power consumption of each Server rack. This will entail installing a current transformer on each circuit 120 / 208 vac circuit.	Due to the addition of many new server racks in the computer roomwe feel we are approaching the limit as to how many more circuits we can install in some of the power distribution panels. This system will allow us to verify the power load on each circuit and distribution panel in real timeso as to not overload a system and possibly take down part of the computer room.	Computer room	Grounds
09707	New Rod Guide Plate for CE NGF Magazine	The existing rod guide plate (TD000941) is a machined black (molybdenum) nylon guide that provides proper positioning of the rods as they are installed into the magazine. During WTEQ it was discovered that a misalignment exists between the lexan template and the top rod guide plate. The problem was traced to the rod guide plates and specifically appears to be related to the dimensional instability of the machined Nylon plates. A new top 4" plate (TD000941 Item 1) is required out of HDPE that is know to provide better long term dimensional stability. Because only nylon was considered in the CSE and is called out on the drawing the replacement material requires further evaluation. (NOTE: THE CCF DESCRIPTION WAS REVISED on 9-14-09 BASED ON INPUT FROM CRITICALITY SATETY ENGINEERING-USE HDPE ON ONLY THE TOP PLATE.)	Misalignment between holes in the lexan magazine templates and the nylon rod guide plates is making it difficult for operators to load rod in magazines. Also the resistance in needlessly scratching the rods.	Final Assembly	ISA-17 Final Assembly
09719	Install Electrode Guard Sensor on Line 12 Welder	Install Electrode Guard Sensor on Line 12 Welder to prevent welding when guard is not in place	This interlock is required per CAPS issue 02-000725.	Line 12	Clean Side Rod Area

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CCF	Title	Description	Justification	Location	ISA ID
09722	Install Electrode Guard Sensor on WABA 3/4 Welder	Install Electrode Guard Sensor on WABA 3/4 Welder to prevent welding when guard is not in place	This interlock is required per CAPS issue 02-000725.	WABA 3/4	Clean Side Rod Area
09726	Install Flow meter in DI water Line	Install a flow meter in the DI water line to ADU Line 1 Hydrolysis Column (V-102). This CCF is for mechanical installation only. The flow meter will be made operational under another CCF. During the installation process the piping at the Hydrolysis column will be modified to provide better access to the 10" cross which is used for maintenance inspection of the Straumann valves.	The flow meter will be used in a future SSC to prevent release of UF6 due to low DI water to the hydrolysis column. This flow transmitter is being installed to make line 1 functionally the same as line 5. A flow transmitter with the same function was implemented under CCF 05-420.	ADU Line 1 Hydrolysis column	ISA-03 ADU Conversion
09731	BWR Pit Jib Crane Swivel	Add a commercial bearing swivel between the chain and the hook of the BWR Jib crane at the pit. The commercial swivel will permit rotation of the assembly during inspection and assembly without the need for an intermediate lifting tool. By eliminating the intermediate lifting tool the jib will gain over a foot of lifting height permitting the assembly of the longer Hatch fuel. The addition of the commercial swivel will also improve safety by eliminating the intermediate tooling with a fixed component.	The Hatch fuel is a longer version of the Optima fuel we produce for Exelon. The longer length assembly can not be assembled using the current lifting method and tooling. The pit can not be modified and meet crit and ergonomic criteria and the jib crane can not be raised without interfering with the overhead cranes and possibly violating OSHA regulation. The only other option is the elimination of the custom designed lifting tool with a shorter commercial swivel. The swivel will add over a foot of clearance permitting assembly of the longer fuel.	BWR Pit	ISA-17 Final Assembly
09732	Stainless steel covers at line 8	Attach stainless steel sheeting to multiple electrical panels conduit and wireways at line 8 that are currently covered with adhesive plastic sheeting. There are no drawings to be modified for this but I have attached a file with pictures to aid in understanding.	The plastic sheeting is peeling away and creating the opportunity for FM due to the flaking adhesive. The plastic sheeting was applied to these items because they are painted underneath and create the potential for paint to be transferred to tubing while being removed from the line.	Line 8	Clean Side Rod Area

CCF	Title	Description	Justification	Location	ISA ID
09741	Replace 1/2" Welded Ball Valves with Flanged Ball Valves on Nitric Acid Line for Line 2	The welded ball valves on the Nitric acid line will be replaced with flanged ball valves. The valves are located on the decanter platform. The piping will be remade and the last valve will be repositioned so that it is higher.	The Nitric service is hard on the valves. The replacement of the welded ball valves is difficult for maintenance.	Nitric line on decanter platform	ISA-03 ADU Conversion
09747	Replace P-431A&B	Replace the current Durco pumps on P-431A&B. They will be replaced with Chesterton pumps with C-frame adaptors. The seal on one of them will be an 880 which is already used on similar pumps in the area. The other seal will be a 180 and used as a test to see if it performs better. After the trial period one of the seals will be changed to make them the same.	The Durco pumps are obsoleteand parts are very difficult to obtain. The C-frame will allow for easy change-outswithout needing to laser-align.	Line 4 scrubber pumps	ISA-03 ADU Conversion
09750	Provide new Scanning system at D&V Inspection	Current method of scanning bar codes on rods at D&V Inspection tables is pen scanners used by operators in a swiping motion. A new system has been evaluated and will be installed to scan bar codes using a fixed scanner and light arrangement.	Pen scanners are unreliable and often changed out many times a day in attempt to read bar codes on rods. This amounts to extreme frustration of operators and numerous requests to replace/repair scanners during normal operation. The new system has been testing on-line with very favorable resultsand will reduce maintenance and operational annoyance.	D&V Rod Inpsection Tables	ISA-10 ADU Rods

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09761	Install IFBA Casket Dock and Hoist	This project includes installation of a new shipping dock located at the roll up door near Maintenance operations The new dock will enable delivery of IFBA rod transport boxes/ caskets to a location closer to rod inspection and away from the heavily congested shipping dock #1 The dock includes a ramp and platform that will accommodate maintenance vehicles that currently enter through the roll up door The dock includes a roof system and hoist to unload the caskets outside of the main building A walkway is provided for personnel egress and respirator delivery operations Bollards and rails will be added to protect personnel and equipment Lifting hoist installation and certification for use will be completed by the supplier with assistance from CFFF personnel.	Reduces traffic congestion at dock #1- fuel shipping dock Reduces foreign material entering the factory at Packing area via the roll up door by eliminating delivery to this dock Provides the shortest and straightest delivery route from IFBA to the unload location Provides the shortest and straightest route to rod inspection area from the new unload location	Dock and hoist to be installed at the maintenance roll up door location nearest the mechanical side maintenance shops	ISA-12 IFBA Fuel Rod Manufacturing
09765	V202 Blind Flange Change	Replace the existing PVDF lined carbon steel 10" blind flange with a solid PVDF flange on the V202 column. The flange to be replaced is located directly across from the UF6 nozzles. This will also include a stainless steel plate to prevent damage of the flange from the bolts.	The weight of the flange will be significantly reduced by installing a solid PVDF flange. This will improve the ergonomic concerns associated with the removal of the flange.	V202	ISA-03 ADU Conversion
09768	Tube Support Roller Replacement - Line 8	Replace plastic support rollers with stainless steel idler rollers.	Many of the existing support rollers are plastic where the open ends of the tubes can pass over them. This could result in an FME contamination issue.	CFFFMechanical Tube PrepLine 8	Clean Side Rod Area
09769	Tube Support Roller Replacement - Line 9	Replace plastic rollers with stainless steel idler rollers.	Many of the existing support rollers are plastic where the open ends of the tubes can pass over them. This could result in an FME contamination issue.	CFFFMechanical Tube PrepLine 9	Clean Side Rod Area
09770	Tube Support Roller Replacement - Pin Stamp Machine	Replace plastic drive rollers with stainless steel idler rollers.	The existing large diameter drive rollers are plastic where the open ends of the tubescan pass over them. This could result in an FME contamination issue.	CFFFMechanical Tube PrepPin Stamp Machine	Clean Side Rod Area

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09771	Tube Support Roller Replacement - Oxide Coater 1	Replace plastic supports at the polish and cleaning stations where with stainless steel rollers.	The existing tube support rollers are plastic where the open ends of the tubesbeing transferred in and out of the polish and cleaning stationspass over them. This could result in an FME contamination issue.	CFFFMechanical Tube PrepOxide Coater 1	Clean Side Rod Area
09772	Tube Support Roller Replacement - Oxide Coater 2	Replace inoperable support rollers at the polish and cleaning stations.	The existing tube support rollers have locked up and no longer roll when the tubes are transferred in and out of the polish and cleaning stations. This can cause surface marks to the tubes and can degrade the operation of the station.	CFFFMechanical Tube PrepOxide Coater 2	Clean Side Rod Area
09773	Substitute Westlock Valve Limit Switch	Westlock limit switch 2214BY is part of valve assembly SR #986046. It will be replaced by Westlock limit switch 9044N-BY2A2M0600. This valve assembly is a spare for XV-S-9657G/H/J/K in SSC OVEN-104.	Switch 2214BY is discontinued. 9044N-BY2A2M0600 is the manufacturer recommended replacement and is functionally equivalent.	IFBA	ISA-12 IFBA Fuel Rod Manufacturing
09775	V302 Blind Flange	Replace the existing PVDF lined carbon steel 10" blind flange with a solid PVDF flange on the V302 column. The flange to be replaced is located directly across from the UF6 nozzles. This will also include a stainless steel plate to prevent damage of the flange from the bolts.	The weight of the flange will be significantly reduced by installing a solid PVDF flange. This will improve the ergonomic concerns associated with the removal of the flange.	V302	ISA-03 ADU Conversion
09776	V402 Blind Flange Change	Replace the existing PVDF lined carbon steel 10" blind flange with a solid PVDF flange on the V402 column. The flange to be replaced is located directly across from the UF6 nozzles. This will also include a stainless steel plate to prevent damage of the flange from the bolts.	The weight of the flange will be significantly reduced by installing a solid PVDF flange. This will improve the ergonomic concerns associated with the removal of the flange.	V402	ISA-03 ADU Conversion
09787	WS-203 SWS HF starter modification (Mechanical Side)	Increase the voltage rating of the two exiting blocking diodes located inside the SWS HF starter from 800vdc to 1000vdc and add two additional diodes in series with the these exiting diodes.	The present diodes sometime fail or start reverse leaking voltage after many years of service.	tube/rod WS203 welders	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09789	Kluber Barrierta L 55/1 Lubricant Approval	Allow use of Kluber Barrierta L 55/1 lubricant on APVIS components e.g. motors gear boxes drive shafts etc. Product data sheet and MSDS are attached.	Provide a non-hydrogenous lubricant with lower dynamic viscosities for APVIS components. Ref. attached reports re: dynamic viscosity comparisons and hydrogen testing studies.	IFBA \ APVIS	ISA-14 IFBA Processing
09791	IFBA Blower Motor	We will be replacing on IFBA blower motor (B-7075)Equipment# 1063876 its bushing size and motor from 1 5/8" shaft to 1 1/2" per mfg specs.	The current motor has a small leak to ground therefore faulting the VFD on ground fault. The current motor has a 1 5/8" shaft where as the factory calls for 1 1/2" shaft. The new motor is in house (1 1/2" shaftmfg spec) but the correct bushing is needed for the propeller to be porperly mounted.	IFBA Blower B-7075	ISA-12 IFBA Fuel Rod Manufacturing
09792	WS-203 SWS HF starter modification (Chemical Side)	Increase the voltage rating of the two exiting blocking diodes located inside the SWS HF starter from 800vdc to 1000vdc and add two additional diodes in series with the these exiting diodes.	The present diodes sometime fail or start reverse leaking voltage after many years of service.	tube/rod WS203 welders	ISA-10 ADU Rods
09794	3A Sintering Furnace Improvements	1) Add a Hayward Duplex strainer on the cooling water line just prior to the header supplying the furnace. 2) Increase the copper line size from 1/4" to 3/8" diameter to reduce blockages. Change the 1/4" needle valves to 3/8" ball valves as well. 3) Separate the cooling chamber copper lines into 2 individual lines with a valve for each line. 4) Remove the cooling water going to the sight ports. 5) Add ceramic pins where necessary to the element pin walls to prevent element shorting.	Changes identical to CCF 08147 (Items 1-3)To reduce the possibility for water flow blockage through the sintering furnace cooling sections. Item 4 is no longer in use and needs removed from the drawing. Item 5 is to prevent the elements from shorting together inside the furnace.	3A Sintering Furnace	ISA-08 Pelleting
09795	Replace vacuum breaker on HX-1142	Replace vacuum breaker on HX-1142 the Ammonia Distillation System #1 Reboiler. The new vacuum breaker will be of all stainless steel construction.	The former vacuum breaker has some brass components. Brass is not compatible with ammonia.	Ammonia Distillation System #1	Grounds
09797	Install Local Disconnect for Bulk Door	The bulk room automatic door did not include a local disconnect in the original install.	To meet Westinghouse standards for LOTO.	Entrance into Bulk Blending	ISA-05 ADU Bulk Powder Blending

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09798	UF6 Mode Indicator	The UF6 mode indicator will be added back to the Wonderware screen in the conversion control room. It was removed earlier along with the Hydrolysis screen when obsolete equipement was removed.	Operations request	Conversion line 5	ISA-03 ADU Conversion
09800	PLC programming change for XV431A/B	Currently the run status from the Pump 431C/D is tied to the PLC logic that energizes XV431A/B and the Pump 431C/D must be running to activate the XV-431A/B valves. The PLC program will be modified to operate XV-431A/B independently of the Pump 431C/D.	If XV-431A/B is closed when the Pump 431C/D is not runningand when the Pump 431A/B is running it will dead head the 431A/B pump.	ADU LINE # 4 CONVERSION - SCRUBBER	ISA-03 ADU Conversion
09801	Replace 3A furnace pusher motor	ADU furnace 3A will have the new style pusher motor to replace the existing obsolete motors. This upgrade has been made on many of the other furnaces and it works well. 3A will be upgraded during the upcoming furnace re-build.	Existing pusher motors are obsolete.	3A Furnace	ISA-08 Pelleting
09802	Replace 3A Saturator water addition valves	Replace solenoid valves SV1A9 SV1A10 and SV1A11 with air actuated ball valves - Jamesbury 9FB-3600XT with linkage kit and spring return actuator model VPVL100SR4-5. PELSINT-915 will be affected.	Solenoid valves are a poor choice for final elements in interlocks. It is not possible to verify the state of the valve when performing interlock verifications and thye are prone to leak-through. A recent saturator over-fill was caused by a leaking solenoid valve. This modification is identical to the one on 1A furnaceCCF # 09065	3A Furnace	ISA-08 Pelleting
09803	Upgrade temperature controls on 3A furnace	Replace temperature transmittetrs SCR's ammeters and signal isolators on 3A sintering furnace. Replacement of temperature transmitters impacts the following SSC's: PELSINT-903; PELSINT-904; PELSINT-905; PELSINT-907.	Replace obsolete equipment. The expected life of the sintering furnaces has been extended to about 10 years and 3A is already down for re-bricking.	3A Furnace	ISA-08 Pelleting

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09805	Oil Mist Exhaust Filtration on Drying Oven #3 in the IFBA Area	Install a 2-stage oil mist eliminator and an activated carbon polishing filter on the discharge of the rotary piston vacuum roughing pump on IFBA Drying Oven #3. This 2 stage oil mist eliminator uses pleated fiberglass coalescing elements which operate at 99.97% efficiency at .3 microns. The activated carbon element removes residual odor.	This new filtration system will minimize oil carry over from the roughing pump.	IFBA	ISA-12 IFBA Fuel Rod Manufacturing
09815	Local Disconnects for 1115 Tank Aerator Panel	We will be installing local disconnects on AE1115A and AE1115B.	Currently both aerators are fed from one main disconnect. One aerator must be on at all times. Therefore before maintenance can be doneElectricians must power down both aeratorsdisconnect the wires to the aerator requiring svc.then re-energize the opposite aerator. This action must be repeated to complete the PM for the adjacent aerator. Local disconnects will isolate each aerator from the other.	1115 Tank	Grounds
09816	Add new receptacle to Workbench in Machine Shop	Add new receptacle to Workbench in Machine Shop	Eliminate Drop cord strung across work benches in the machine shop.	Machine Shop workbench	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09817	Filter House 1A/1B Replacement	This CCF includes replacement of filter houses 1A (961) and 1B (962) downstream of scrubbers 2A and 2B. The new filter houses will include pre-filters intermediate filters and HEPA filters with the same efficiency as the existing filter houses. The pre-filters are currently in use in the existing filter house. The HEPA filter is the same construction as the HEPA filters in the existing filter houses except for a gel seal frame instead of gasket. It is currently in use in Erbia filter houses. The Intermediate filter has a gel seal plywood frame and is a new filter. Its identical to the intermediate filter being used in the existing filter house except it uses a gel seal instead of a gasket. The pre-filters and intermediate filters will be accessed from platform level. The HEPA filters will be accessed from a portable platform. The ductwork and pneumatically actuated damper immediately upstream of each filter house will be replaced. The ductwork downstream of each filter house up to the inlet of each exhaust fan will be replaced. The upstream ductwork and filter houses will be insulated under a separate CCF. The existing filter houses are divided into two sides and have a second set of differential pressure gauges/switches for side B. These gauges/switches for side B will be removed as	Filter houses 1A and 1B are being replaced due to mechanical integrity issues.	Filter houses are located on the roof above Conversion	ISA-01 Plant Ventilation System
09819	Californium Source for Gamma Scanner #4	Gamma Scan #4 will require a new Californium 252 Source 1st quarter 2010.	New source required due to depleted old source.	Rod Inspection	ISA-10 ADU Rods
09822	Laser Welders vacuum pump oil filter	Replace the oil filter on the laser welder vacuum pumps with a Purflux LS149 filter.			
09823	Expand Calcium Fluoride Pad	Expand Calcium Fluoride Pad. New concrete slab will be constructed of 6" of 4000psi concrete. It will have a plastic liner under the slab. It will join the existing pad and slope towards the existing french drain system.	I need room to maneuver and segregate material on this pad in order to prepare the material for shipment.	West Lagoons	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09824	Upgrade ADUdumphood Application	Upgrade of the ADU dumphood application from VB6 to .NET 2008.	This is an upgrade to a newer version of Visual Basic. The new version of the dumphood will also be using the most current version of the PLC object which is now being used on all of the conversion lines for communications between the application and the PLC.	ADUDumphood Application used at dumphood	ISA-05 ADU Bulk Powder Blending
09825	Moly Boat Weld Chamber Piping Modification	Change argon supply pressure regulator(PCV-8001C) set points from 2" - 3" W.C. to 2" - 5" W.C. Re-route the tank exhaust piping from the bottom of the tank to the top of the tank.	Currentlysmoke from the welding process greatly restricts visibility. Providing a larger range PCV-8001C set point will allow tank pressure to be regulated where a minute flow of argon out of the tank can occur. This will hopefully force the smoke out of the top of the tank where the exhaust will be re-located.	Chemical Area Mechanic Shop \ Moly Boat Weld Station	Miscellaneous
09826	EDM Machine FA20S Power Conditioner Install	We will be installing on the Mitsubishi FA20S wire EDM machine a power conditioner by Powergy per recommendation from the Mitsubishi Service Dept. We will also per specs replace the current service disconnect with a 30amp fused disconnect. The power conditioner is designed to reduce drastic voltage fluctuation improve power factor and reduce system loss.	At times when running the Wire EDMthe physical machine programming path deviates from the actual input computer controlled cutting path. When this occursexpensive tool steel plates are deemed scrap. This condition occurred 4 times resulting in $ 40,000+ of scrap plates plus man hours. A Service Tech was contacted to diagnose this problem. The Service Tech found a power supply to be defective. The Service Tech conducted a diagnostic of the in-line power using wave form analysis and found wave form distortion and sags. He concluded that the root cause was incoming "dirty" power or "noise."	Mitsubishi FA20S in wire EDM room	Components

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09827	EDM Machine FX20 Power Conditioner Install	We will be installing on the Mitsubishi FX20 wire EDM machine a power conditioner by Powergy per recommendation from the Mitsubishi Service Dept. We will also per specs replace the current service disconnect with a 30amp fused disconnect. The power conditioner is designed to reduce drastic voltage fluctuation improve power factor and reduce system loss.	At times when running the Wire EDMthe physical machine programming path deviates from the actual input computer controlled cutting path. When this occursexpensive tool steel plates are deemed scrap. This condition occurred 4 times resulting in $ 40,000+ of scrap plates plus man hours. A Service Tech was contacted to diagnose this problem. The Service Tech found a power supply to be defective. The Service Tech conducted a diagnostic of the in-line power using wave form analysis and found wave form distortion and sags. He concluded that the root cause was incoming "dirty" power or "noise."	Mitsubishi FX20 in wire EDM room	Components
09830	REMOVE ABANDONDED METER IN NATURAL GAS BYPASS LINE	Remove an abandonded gas meter in the bypass loop of the firm natural gas pipeline located in the fenced in gas meter area. Once this old meter is removed the flanges on the bypass loop will be blanked off using blind flanges gaskets and hardware per FS-003-10.	This meter is not in use and was abandonded years ago. By removing this device we eliminate possible leak points.	Plant Grounds / Gas Meter Area	Grounds
09832	Upgrade IFBA Equipment Room Freon Detector System	Upgrade the Freon Detection system in the IFBA mechanical Equipment Room	The current system does not meet safety codes	Mechanical Equipment Room in IFBA3rd floor	ISA-14 IFBA Processing
09835	Decanter Alarm Modification	Per CCF 08-202 the line 5 Westfalia decanter was replaced with a new US Centrifuge decanter. As a result the old Westfalia decanter bowl housing purge flow alarm was reused as the 20 tank level alarm. The HMI graphics in the ADU control room will be modified to reflect this reuse of the old alarm.	Proper alarm enunciation.	ADU Conversion Line 5	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
09837	HX hoses: line 123	Replace the hard piping used to acid wash the scrubber heat exchanger with flex hoses similar to what exists on line 4 and 5	The hard piping must be removed and re-attached each time the HX is acid washed. The removed sections sometimes get lost or damagedand all the handling creates more opportunities for an operator to get burned	Scrubber heat exchangers	ISA-03 ADU Conversion
09838	Boatloader 24VDC power up delay	The application of 24VDC control power to the Servo motor amp on boatloader 4 will be delayed a time period after the 240VAC power application. There are no SSC's associated with the boatloader. An ITR will not be necessary.	This modification will prevent an axis error code that requires cycling of power to reset.	Line 4 Boatloader	ISA-08 Pelleting
09840	Remove Obsolete Aerator Out of Sanitary Lagoon	Remove Obsolete Aerator Out of Sanitary Lagoon	The Aerator no longer functions and is an eye sore.	Sanitary Lagoon	Grounds
09845	Network Security Cameras	A new security camera system was installed under CCF 09755. The existing camera system will be upgraded and the two systems networked to provide monitoring capabilities at the front desk. Per discussions with Mike Mann and Gerry Couture no SSCs or safeguards are affected by this change.	This capability is required by Security for system operation.	ECP Building	Grounds
09846	Install sump pumps at trailer 1 and trailer 2	Install a sump pump at trailer 1 and replace the broken one at trailer 2. New sump pumps will be 1/2hp 9.4amp Zoeller M98. The trailer 1 pump will feed from the 110 v ground fault feed under the trailer. 1-1/2" PVC pipe will be ran to the existing discharge located by trailer 3.	This will elimate much of the water build up under and around the trailers.	outside trailers	Grounds
09847	New Fixture Steam Oven	New fixture steam oven has improved door seal and removable fixture rack. New oven has same internal dimension as existing oven. New oven has the same KW heater elements but new elements are enclosed existing elements are open.	Improved door seal should trap steam better for better cleaning. Removable rack allows external repair of fixture shelving. Enclosed elements should extend life of elements.	IFBA/FA3	ISA-14 IFBA Processing
09848	ADU Rod Line 3 Upgrade	Upgrade ADU Rod Line 3 materail handling to accomodate AP1000™ fuel rods.	Approved capital project.	ADU Rod Line 3	ISA-10 ADU Rods

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09849	ADU Rod Line 4 Upgrade	Upgrade ADU Rod Line 4 to accomodate AP1000™ fuel rods.	Approved capital project.	ADU Rod Line 4	ISA-10 ADU Rods
09852	Scrubber 2A and 2B duct heater replacement	The process duct heaters HC2A/HC2B associated control panels and heater housings will be replaced. Ductwork immediately upstream and downstream will be replaced to center the new heaters on the platform allowing better access. Insulation of the ductwork and heaters are not included in this CCF. The new heaters will be 114KW each versus 48KW for the existing heaters. The additional capacity provides a safety margin improvement to ensure entrained moisture is vaporized and does not reach the filter houses. The larger heaters will require a larger electrical service.	The process duct heaters HC2A/HC2B and associated controls have reached the end of their life cycle.	Scrap Cage Scrubbers 2A/2B	ISA-01 Plant Ventilation System
09853	ADU Dryer Shaft Repair Sleeves	Allow the use of shaft repair sleeves to refurbish the ADU dryer shafts when needed. These sleeves are typically very thin and will not alter the sealing components. Examples of this product include SKF/Chicago Rawhide Speedi-Sleeves. Sketch 815417-4 rev 24 was reviewed and it was determined this modification does not affect any SSCs.	Currently the shafts are reworked using our tool shop. It is a time consuming (approximately 40 hours per shaft) and expensive process. Due to that the shafts are only taken out of service when they are in bad condition. The use of the sleeves is an economical process that can be done every time the seals are changed. This will greatly improve the reliability of the ADU dryer.	ADU Dryers	ISA-03 ADU Conversion
09854	Upgrade Controls for IFBA Rod Box Transfer	Upgrade Controls for IFBA Rod Box Transfer. This will include installing a small PLC to eliminate the problematic timers that are currently in the PLC. and allow us to easily change the logic. The panel is currently hardwired.	The exsiting Panel has caused problems with the rods running into the door. This control panel was not built to Westinghouse specifications. The timers in the panel "drift" which can cause the rod box to run into the door. The door control tends to latch requiring a power cycle to reset. The panel in not intuitive for the operator and can cause confusion for new operators.	Rod Box Transfer conveyor controls in IFBA	ISA-12 IFBA Fuel Rod Manufacturing

CCF	Title	Description	Justification	Location	ISA ID
09857	Hot Oil Room Exhaust Fan	Install a softstarter on the 25 HP drive motor on the hot oil room exhaust fan.	The softstarter will allow ramping of the drive motor thereby eliminating belt slippage and improving overall equipment reliability.	Conversion Services / Hot Oil Room	ISA-03 ADU Conversion
09859	Coater drum brearing dust shield	Existing coater bearing dust shields are small pieces of SST angle (approx. 1/2"H x 3"L x 1"W) welded to cathode dust shields and place in cathodes 4 & 6 (next to drum bearings). Slip on fit. New coater drum bearing dust shield SST cup (approx. 2.38" DIA x 2.75"L) to be screw mounted to the bearing arm. The coater drum bearing dust shield keeps ZrB2 dust that is coming off the bearing from collecting into cathodes 4 & 6 and shorting them out.	Existing bearing dust shields come loose during coater operationbecause of slip on fitfalling onto cathode and causing short circuit. New bearing dust shield is a screw on mount and should not come loose. Even if it doesthe new shield would fall between cathodes 4/5 or 5/6 contacting the cathode dust shields at ground potential.	IFBA/FA1	ISA-14 IFBA Processing
09863	Install Shadow Board in Conversion	Install a shadow board between lines 3 and 4. It will be ~48 inches x ~24 inches and double sided. It will be mounted ~6 feet (top edge) off the floor on a stationary mounting bracket.	Support of 5S implementation in Conversion.	Between Lines 3 and 4	ISA-03 ADU Conversion
09864	Increase Diameter of Sample Station Opening	Increase the diameter of the sampling shroud that descends onto the bulk container to allow access to remove the bulk container lid after lowering the shroud.	Air sampling has consistantly been elevated at the sample station. A current work around has been identified as a possible cause for airborne. That is the operator has to remove the bulk container lid (without ventilation) prior to lowering sampling shroud over the bulk container. With the modification suggested the operator would be able to lower the sampling shroud prior to removing the bulk lid (with ventilation). This change is strictly a mechanical change and does not affect any SSCs.	Bulk Container Sampling/Cleaning Station	ISA-05 ADU Bulk Powder Blending
09865	Add System alarm for Chillers 5, 6 &7	Add an alarm from the Mcquay Master Control Panel to the Maintenance Alarm Panel.	Currently we can have a system alarm without having any alarms on the chillers themselves. We have had instances where the chillers were down and we had no indication until we lost an air compressor due to high temp.	Equipment Room 3 Chillers	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09866	T-1143 Hot Water Line	Replace deteriorated hot water piping going to boiler. Reroute piping in order to move valves to an accessible level. Also remove unused piping going to HX-1160 and unused stub ends that was cut from equipment in the past.	Piping is leaking going to the boiler and on the stubs. Also replacing it will give us a chance to remove potential leakers as well as clean up the area.	T-1143 Condensation Storage Tank	ISA-15 URRS Wastewater Treatment System
09867	Coater 8 Disconnect Plug Mounting Brackets	Install a mounting fixture for automatically disconnecting coater # 8 cathode conductors utilizing the door open and closing actuation. This fixture shall be for preliminary testing and mechanical alignment for future plug and receptacle connection and dis-connection. Once mechanical alignment is proven a new CCF will be created for the electrical installation.	1	IFBA Coater 8	ISA-14 IFBA Processing
09868	Liquid Nitrogen Timer Valve	Install a solenoid valve with timer for liquid nitrogen delivery system in the chemlab. This work does not affect any SSC an ITR will not be needed.	Currentlythe liquid nitrogen delivery system is control by a manual valve. The concern is overfilling of the containers results in waste of liquid nitrogendamage to the floor surrounding the LN2 manifoldand presents a safety hazard from the cryogenic liquid and excess nitrogen gas evolution. The timer solenoid valve will automatically cut off the supply line.	Chemlab	ISA-18 Laboratories
09870	Lockers and Bench for Tube Prep	Install lockers and bench in area between ladies room and tooling cage in bay 10-11 and A-B << This CCF has been revised to show new for construction drawings because the 1st set of lockers ordered were not what was needed. >>	Current lockers are located inside the manufacturing area. This would provide a space to store potential foreign materials outside of this area.	Bays 10-11 and A-B outside of Tooling Cage	Grounds
09871	IFBA Cassette Handling PLC Connectivity	Process Control Network (PCN) connectivity will be added to the Cassette Handling (PLC1A) Numa-Logic PLC. This PLC contains no Safety Significant Controls. An Independent Technical Review is not necessary.	The PCN connection will be used to gather utilization data on the processes controlled by this PLC.	IFBA Rod Line	ISA-12 IFBA Fuel Rod Manufacturing

CCF	Title	Description	Justification	Location	ISA ID
09872	IFBA Scrubber Flow Indication	Add a flow indicating device (flow meter etc.) in line near to scrubber nozzles for proof that there is flow to them.	SSC VENT-IFBA-129 states that there must be flow over the packing material in the scrubber while in operation. Currently flow is checked indirectly by checking visual flow into the pump. A direct way of validating flow is needed. This method of inspecting flow will not affect or changes description of SSC VENT-IFBA-129. Per discussion with Crit Engineeran ITR will not be needed.	IFBA scrubber	ISA-01 Plant Ventilation System
09874	Remove Totalizer from FICQ-1128 North/South Lagoon Pump Controller	Remove Totalizer from FICQ-1128 North/South Lagoon Pump Controller.	This totalizer shuts off the North and South Lagoon pump after a timer maxes out. These pumps are used to run the aerators and pump the contents of the North and South Lagoon to the lift station. Operations must manually reset the timer on the Honeywell controller located in the Still 1 building every day or this totalizer will trigger a control relay that shuts off the pumps. COP-831205Filling Samplingand Discharging North and South Lagoonsrequires that the areators must be running while filling. We had a recent procedure adhearance violation where the aerators were off for an unknown period of time while the laggon was filling due to this relay. We have a totalizer on the line that pumps to the river. We do not need this one.	Controller is located in the Still 1 Building	Grounds
09876	IFBA Dry Box PLC Connectivity	Process Control Network (PCN) connectivity will be added to the Dry Box (PLC1B) Numa-Logic PLC. This PLC contains no Safety Significant Controls. An Independent Technical Review is not necessary.	The PCN connection will be used to gather utilization data on the processes controlled by this PLC.	IFBA Dry Box	ISA-12 IFBA Fuel Rod Manufacturing

CCF	Title	Description	Justification	Location	ISA ID
09877	IFBA Weld Line PLC Connectivity	Process Control Network (PCN) connectivity will be added to the Weld Line (PLC2A) Numa-Logic PLC. This PLC contains no Safety Significant Controls. An Independent Technical Review is not necessary.	The PCN connection will be used to gather utilization data on the processes controlled by this PLC.	IFBA Rod Line	ISA-12 IFBA Fuel Rod Manufacturing
09878	IFBA Gamma Scanner PLC Connectivity	Process Control Network (PCN) connectivity will be added to the Gamma Scanner (PLC2B) Numa-Logic PLC. This PLC contains no Safety Significant Controls. An Independent Technical Review is not necessary.	The PCN connection will be used to gather utilization data on the processes controlled by this PLC.	IFBA Rod Line	ISA-12 IFBA Fuel Rod Manufacturing
09880	URRS Outdoor Task Lighting	Install ingress egress and task lighting in URRS tank park. Lights to be installed from T-1148 to T-51 and T-19 T-20.	Additional outdoor lighting is required to safely perform task at night.	URRS Tank Farm	ISA-06 Chemicals ReceiptHandling and Storage
09881	Remove HX-4 Heat Exchanger from Still 1	This CCF will disconnect and remove HX-4 from service on Still 1 system. The ammonia product line coming out of HX-1105 will be modified to accommodate this change.	Heat exchanger is corroded and passed its life expectancy. Process operates properly without the extra cooling.	URRS Outside/ Still 1	Grounds
09882	V-X19 Spare Tank Nozzle Modification	Modify lower nozzle on Spare V-X19 Decanter Discharge Assembly. SSC's not affected no ITR or FER required	Nozzle change will make Spare V-X19 tank an exact duplicate to other tanks in service.	Maintenance	ISA-03 ADU Conversion
09883	Add XML Capability to COLUMN for NMMSS Reporting	Add XML Capability to COLUMN for NMMSS Reporting	By 01/01/2010COLUMN needs to have the function to create .XML files for reporting to NMMSS. Requirements are listed in D-24 "Personal Computer Data Input for Nuclear Regulatory Commission LicenseesEffective January 12009A booklet of guidance for data submissions to NMMSS using electronic formats." At this timethis will not be replacing the 80-column formatted .txt files currently being created. Functionality to create .xml files just needs to be added to COLUMN.	C.O.L.U.M.N. Software	ISA-03 ADU Conversion

CCF	Title	Description	Justification	Location	ISA ID
09884	Line 6 Online Dryer Modification	Install bracket on end of driven roller.	Prevent roller from shifting out of position and causing damage to the drive system. Ref. CAPS Issue 09-065-C019.	ADU Pelleting / Grinder Line 6	ISA-08 Pelleting
09885	Replace Breaker with Disconnect on Fan 962 on Roof	This CCF is to replace the molded case breaker (400 amp)on the roof at fan 962 with a molded case switch as per the drawing. (drawing reflects a disconnect switch not a breaker).	The disconnect should be a switchthis switch is for isolation purposes only not for electrical protection. The protection device(s) are located at the feed in the UF6 bay.	Fan 962 (1B) on Roof above UF6 bay	ISA-01 Plant Ventilation System
09886	Removal of Small Sand Blast Hood	Remove sand blast hood adjacent to IFBA rod dump hood. The sand blast hood has not been in service for over 4 years and needs to be removed from the floor. This hood is shown in block E5 of 500F08AR02:02.	Disposal of out of service equipment.	Adjacent to IFBA Rod Dump Hood	ISA-12 IFBA Fuel Rod Manufacturing
09887	Overflow on V-205B Vacuum Break	The current vacuum break will be modified. An additional pipe will be directed to the floor from the precipitator's vacuum break. The piping and valving connecting the two precipitators' vacuum break will be eliminated.	Modification just like CCF 07-462 and 08-084. As per the Line 5 autoclave LOPA: The current vacuum break on the precipitator columns is located at a heighth of 8 feet. When the column overflows the material sprays out in all directions. Directing the material to the floor will decrease the potential for personnel and equipment exposure.	V-205B	ISA-03 ADU Conversion
09888	Overflow on V-305A Vacuum Break	The current vacuum break will be modified. An additional pipe will be directed to the floor from the precipitator's vacuum break. The piping and valving connecting the two precipitators' vacuum break will be eliminated.	Modification just like CCF 07-462 and 08-084. As per the Line 5 autoclave LOPA: The current vacuum break on the precipitator columns is located at a heighth of 8 feet. When the column overflows the material sprays out in all directions. Directing the material to the floor will decrease the potential for personnel and equipment exposure.	V-305A	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
09889	Overflow on V-405B Vacuum Break	The current vacuum break will be modified. An additional pipe will be directed to the floor from the precipitator's vacuum break. The piping and valving connecting the two precipitators' vacuum break will be eliminated.	Modification just like CCF 07-462 and 08-084. As per the Line 5 autoclave LOPA: The current vacuum break on the precipitator columns is located at a heighth of 8 feet. When the column overflows the material sprays out in all directions. Directing the material to the floor will decrease the potential for personnel and equipment exposure.	V-405B	ISA-03 ADU Conversion
09890	UF6 Bay Emergency Exhaust Blind	Install 30" duct blind in 90 degree elbow on roof. This is the emergency vent from the UF6 bay in MAP area.	This permanently disables ventilation from the UF6 bay to FL-961 and FL-962(Filter System 1A/1B).	Chemical Roof Area	ISA-01 Plant Ventilation System
09891	Relocation of Photohelic gage and regulator on Line 9	Relocate the Photohelic gage to the opposite side of the cabinet and relocate the regulator so that the adjustment knob penetrates the cabinet on the same side as the gage. Re-arrange components re-pipe and re-wire as necessary.	Relocating gage to make it easier for the operator to read. Relocating regulator to make it easier for maintenance to make adjustments. Currentlymaintenance has to climb underneath the load table to make adjustments. There are no safety significant controls effectedthere is no SSC sketch for the Tube Prep area.	Tube Prep - Line 9	Clean Side Rod Area
09892	FME guard on exit table on Line 8	Design and install a FME guard for over the open end of the tubes lying on the exit table. This would be something similar to what has already been installed on the 1st part of the line.	To keep any Foreign Materials from entering the open end of the tubing. There are no SSCs associated with this project. There is no SSC sketch for the Tube Prep area.	Tube Prep - Line 8	ISA-10 ADU Rods
09893	Install selector switch for wash tank pumps	Install 3 way selector switch for wash tank pumps for wash tank pump 1 or 2 and off.	Currently both pumps can be running at the same time.	Wash tanks	ISA-17 Final Assembly
09894	PA speaker for CR-107	Add a Fire Alarm (PA) speaker in CR-107.	Personnel in this room cannot hear the announements made while the door to the room is closed. This conference room is also a Shelter in Place assembly point.	CR-107	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09895	Fire Alarm Speakers	1. Install a fire alarm speaker in the Men's and Women's restroom by Medical. 2. Increase the volume of the Fire Alarm Speaker in CR-201 3. Decrease the volume of the Fire Alarm Speaker in the Conversion Control Room.	1. There is not a speaker in these restrooms. We are addressing a complaint that people in the restrooms cannot hear the announcements. 2. We are addressing a complaint that people in CR-201 cannot adequately hear the announcements. 3. We are addressing a complaint that the speaker in the Conversion Control Room is too loud.	OfficesConversion Control Room	Grounds
09896	Replace Furnace 3A nitrogen pressure switch	All sintering furnaces in ADU and Erbia have a low nitrogen pressure interlock (PELSINT-903)from a pressure switch on the main nitrogen header that is located on the thermal stability furnace mezzanine. A new header with 19 individual pressure switches has been installed under CCF 09630. This will enable each furnace to have its own pressure switch for this interlock. This CCF is to transfer the low nitrogen pressure interlock wiring from the common switch to the new individual switch for 3A furnace.	The current common pressure switch does not allow testing of PELSINT-903 without tripping all 18 pellet sintering furnaces. This is a major inconvenience that results in production downtime and maintenance costs that will be avoided as the furnaces are transferred to individual pressure switches. This CCF simplifies PELSINT-903 and makes it more reliable by eliminating an interposing relay which has a dangerous failure mode.	Sintering furnace 3A	ISA-08 Pelleting
09897	Critical Lift of LLRW Sealand Container WEC-200	Perform critical lift of sealand WEC-200. Remove sealand from trailer. When the trailer inspection/decontamination (if required) is completed set sealand back onto trailer. Considered a critical lift because crane capacity is exceeded 30,000 pounds capacity and weight of container is 33,660 pounds.	Trailer needs inspected below the sealand for possible contamination before shipping.	LLRW Trailer Load Area	ISA-13 Low Level Radioactive Waste Processing

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
09898	East Side Rod Storage Rack Upgrade	Reorganize the rod storage area layout to facilitate storage of the extra-long fuel rod channels required to hold AP1000™ rods. This CCF will address the East side storage racks. 1. Remove all of the rod channels from the 4 east side rod storage racks. Store the rod channels as per standard procedures. 2. Isolate the work area as per standard practices and procedures for safety and foreign material control. 3. Dismantle and remove the 4 east side storage racks. These will be scrapped. 4. Install 4 new rod storage racks. These racks will be designed as per an approved generic drawing for a single sided rack. The racks will be located on the East side of the rod storage area as per an approved drawing. The new racks will be spaced to accommodate 184" long channels.	Approved project required for AP1000™ production.	Fuel Rod Storage Area	ISA-10 ADU Rods
10001	Install Air line to support New SIS hardware on ADU Line 1	Install new air header to support ADU Line 1 new SIS hardware at Hydrolysis (V-102) and Precipiator (V-105 A&B) Columns. A new drop will be installed at each of the ADU Lines 1 to 4. No was selected on Safety Significant controls because no existing controls are being affected by this new air line. A seperate CCF will be created to hook up the SIS hardware to the air line and Safety PLC.	Existing air line which supports this area is 1/2" and may not have the capacity to support the new hardware.	ADU Conversion Lines 1 to 4	ISA-03 ADU Conversion
10002	Replace Recorder in VFS Furnace1; no SSCs in this system.	Replace Recorder in VFS Furnace1.	Existing unit is obsolete and unavailable. The replacement unit will be similar in form and function. The replacement unit will be a Yokogawa UR2000 model. This is the factory recommended replacement.	VFS 1 control panel	Clean Side Rod Area

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10003	Line 5 Dryer ADU Inlet Nozzle Modification	Modify the ADU inlet insert nozzle assembly construction by replacing the 1-1/2" inlet nozzle tubing of 0.065" wall thickness with a 1-1/2" sch 40 pipe of 0.145" wall thickness. Reinforcing gussets welded the the insert pipe and assembly flange will also be provided to off-set vibration and load set forces.	The current inlet nozzle construction cannot withstand the severe vibration events of the dryer. The nozzle wall thickness is too thin to establish an effective weld joint that can withstand the existing vibration events and load set forces associated with the weight of the mounted shutoff valve.	ADU Conversion Line 5 ADU Dryer	ISA-03 ADU Conversion
10004	Redundant power for DI water pumps	Re-configure electrical wiring to DI water pumps P-204A P204B & P-204C so that they can all be powered from either MCC-200 or MCC-16. These pumps are stand-alone units. They do not have electrical interfaces to any other equipment or controls. They have no interlocks associated with them. They are not safety significant.	Loss of power from either MCC-200 or MCC-16 results in the loss of P-204A or P-204C. This then results in loss of DI water to all five conversion lines. This modification will secure the DI water supply to all lines in the event of loss of power to MCC-200 or MCC-16. This is in response to CAP # 09-348-C001	Adjacent to pump out Q tanks	ISA-03 ADU Conversion
10007	Determ and Remove Wires from Line 1 GE PLC Panel	Determinate and remove wires which used to go to FY-103A. These wires are currently landed on the PLC terminal strip. The removal of these wires will require an ITR. Yes was checked on "Safety Significant Controls Affected" because the PLC has SSC contained with in it. Remove PLC code which is attached to this output.	Equipment has been removed in field and wires were abandon in place until a full line verification of interlocks was planned.	GE PLC for Line 1	ISA-03 ADU Conversion
10008	Determ and Remove Wires from Line 5 GE PLC Panel	Determinate and remove wires previously used for FY-506B TIL-525A IP-506B TT-525A IP-525A FCV-503A and FT-506B. These wires are currently landed on the PLC terminal strip. The removal of these wires will require an ITR. Yes was checked on "Safety Significant Controls Affected" because the PLC has SSC contained with in it. No existing controls will be modified or affected. Remove PLC code which is attached to these points.	Equipment has been disconnected in field and wires were abandoned in place until a full line verification of interlocks was planned.	GE PLC for ADU Line 5	ISA-03 ADU Conversion

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA-ID
10009	Temperature control loop for the Waterglass Tank T-1160B	Currently the steam temperature for the Waterglass Tank T-1160B is controlled manually. Temperature transmitter and Control valve have already been installed under CCF # 09766. This project will install a Honeywell Gateway card and provide programming functionality that will enable Operation to control the temperature in automatic mode.	This project will install enable Operation to control the temperature in automatic mode.	Outside the South of the Waterglass Building in URRS	ISA-15 URRS Wastewater Treatment System
10010	Circuit Installation for SMC server rack 36 in HP Unix Lab and a server rack in the Test Server Lab	Install (2) 30amp 208vac circuits. The circuits will run from the electrical panel in the HP Unix lab to the SMC rack 36 in the HP Unix Lab. Install (2) 20 amp 110vac emergency circuits. The circuits will run from an electrical panel to the Test server rack and one will go to the desk area of the test server lab. Install (2) 30amp 208vac circuits with two receptacles for each circuit. The circuits will run from the electrical panel in the HP Unix lab to a future rack in the HP Unix Lab.	SMC Server Rack 36 needs the power to support disaster recovery efforts.	HP Unix Lab in the computer room.	Grounds
10011	Modify Rod Tray (Cookie Sheet) Cart	Modify existing rod tray cart to make the handle and vertical pipe stops shorter. And eliminate some of the vertical pipe stops.	To allow more maneuverability of the carts in tight areas while maintaining control of the trays on the cart. The vertical pipes will be welded on the bottom and capped on the top. If the cap should come offthe longest pipe will hold less than 1/5 gallon and the ID of the pipe is 1.5". Both are well below the FLOOR-109 SSC container limits of 3.1 gallons and 7.4" diameter.	ADU Area - General	ISA-10 ADU Rods

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10012	Install isolation transformer on 4B furnace	Install an isolation transformer to supply 120VAC to the Numa-logic PC1200 plc on 4B sintering furnace. This will replace the existing Islatrol noise suppression module. This modification has no impact on any SSC's. This was verified by checking sketch 829013-1.	4B furnace Numa-logic is unable to run properly when the boat inverter is running due to electrical interference. This is most likely due to aged components in the Numa-logic CPU module. These are obsolete and refurbished CPUs exhibit the same problem. The long term solution is to replace the plc with a modern GE 90-30 but there is no current project to do this. The interim solution is to replace the ineffective Islatrol module with a constant voltage isolation transformer. This has worked on other furnaces and it is part of the standard controls upgrade for sintering furnaces.	4B furnace control cabinet	ISA-08 Pelleting
10015	Remove FN-962 Controls from UF6 Emergency Exhaust System	Currently FN-962 from the Filter House 1A/1B system can be turned on from the UF6 Emergency Exhaust System located in the ADU Control Room. This CCF is being routed to satisfy a criticality safety concern by eliminating the possibility of sending UF6 exhaust to the Filter House 1A/1B System. The changes will include removing wiring associated with the control of FN-962 and related dampers (DO-1 DO-2 and DO-3) from the Emergency Exhaust System Panel and FN-962 starter. There are no SSCs involved with these wiring changes.	The justification is safety related and will eliminate the possibility of exhausting UF6 to Filter House 1A/1B.	ADU Control Room and MCC 950 Compt. 6-M	ISA-01 Plant Ventilation System
10016	Renovate Mens ADU Change Room	Renovate men's change room with general upgrades to toilets fixtures floors and walls. Also install new hands free dispensers in restrooms. See attachment for more details. RWP not required per Glenn Blackstone (EH&S).			

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10017	Install local disconnects on confort air heaters (electric re-heater coils)	Install local disconnects on confort air heaters in office area air ducts(electric re-heater coils). This CCF will be considered as equipment improvement and allow us to add the disconnect to the heaters as they are serviced or repaired on an as needed basis. These heaters are only shown on power panel feed circuits; so there will be no drawing changes associated with the installation of these disconnects.	The "in-line" duct heaters for comfort air in the office areas are difficult to service. In some cases multiple heaters are fed from the same circuit. The addition of a local disconnect will make maintence of the heaters easier and will minimize the impact to the area when working on the heaters. The addition of the local disconnect will also provide a safety improvement by simplifying the "Lockout-Tagout" for maintenance work on the heaters.	Clean side office areas	Grounds
10018	Removal of Piping and Instruments from Previous LT-105	Associated piping tubing and instruments associated with the old LT-105A/B will be removed. A new instrument(s) has been installed for level indication in V-105A/B.	Removal of equipment that is no longer used/needed will free up space and rid the area of clutter.	V-105A/B	ISA-03 ADU Conversion
10019	Remove sight glass from V-1030J	The sight glass on V-1030J will be removed and blinded. There are sight glasses on two of the other sump tanks. The sight glass on V-1030J is not used as the level in the sump tanks are kept below the level of the sight glass.	The sight glass is redundant and is not useful as it is above the level that is kept in the tanks.	V-1030J	ISA-01 Plant Ventilation System
10020	Reconfigure Gamma Scanner #3 Belt Guards	Belt Guards (Inlet and Outlet) for Gamma Scanner #3 need modifying to allow for more ergonomic handling during Maintenance and Operation activities.	Safety in Motion. Currently guards are bulky and unwieldy and handles or lifting assistance are not existing. Alsothe guards do not allow proper clearance around equipmentwhich allows them to get jammed and out of position.	Gamma Scanner #3 in QC Rod Inspection	ISA-10 ADU Rods
10021	Dryer Filter FL-529 Catcher Bars	Provide two (2) 0.5" square 304 ss bars at bottom flange of Dryer FL-529 filter housing. The bars will be welded to the inside of the filter housing above the bottom flange equally spaced across the width of the housing opening and traversing the length of the housing opening.	Preclude accidental dropping of filter bag or filter basket into dryer during bag changing activities.	ADU Line 5 Dryer	ISA-03 ADU Conversion

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10022	UF6 Conveyer Gearmotor	Replace the existing UF6 conveyer gearmotor with a Sumitomo RNHM1-1420LYB-J1-60. Both are right angle gearmotors with a one horsepower motor and have a output speed of about 30 rpm. The new Sumitomo gearmotor is a grease packed unit replacing the oiled unit. The tensioning plate will have to be modified to accomidate the new unit.	The existing unit is very old and is leaking oil. The existing units identification cannot be determinedso the Sumitomo has been specified in its place.	UF6 Bay	ISA-03 ADU Conversion
10025	Shut off switches for boiler oil pumps	Install ON/OFF switches for fuel oil pumps on North American boilers. This does not impact any SSC's. There are no SSC's on the boilers.	CAPS 09-007-C012-05 - Unexpected fire in Powermaster. The Powermaster boiler has been modified. This CCF is to make a similar modification to the two North American boilers.	Boiler House	Grounds
10026	Furnace 5A PLC	The line 5 Furnace A PLC will be moved to the PCN.	security	ADU Sintering Furnace 5A	ISA-08 Pelleting
10027	Furnace 5B PLC	The line 5 Furnace B PLC will be moved to the PCN.	security	ADU Sintering Furnace 5A	ISA-08 Pelleting
10029	Low Gas Pressure Switch Replacement on North American Boiler #2	Replace the existing low gas pressure switch (PSL-1188D on drawing 615F03PI02) on North American Boiler #2. The new switch will be a Honeywell C6097A1111 equipped with a manual reset. The existing pressure switch is an auto reset. Upon installation relocate this new low gas pressure switch. It is currently located in the pilot gas pipe line. The new location will be in the gas supply line upstream of the safety shutoff valve.	These changes are required per ASME CSD-1-2009 Controls and Safety Devices for Automatically Fired Boilerssection CF-162 Pressure Switches.	Boiler House #2 / North American Boiler #2	Grounds
10030	Pellet Line 1 Roll Motor 70E Quick Connect	We will be installing on Roll Motors 1 and 2 70E rated quick connects.	Becuase of the PM frequency and locationinstallation of quick connects would make it easier and safer for the Elect. or Mech. to remove either motor. Have reviewed Pelleting safety significant controls sketch 829013-1these motors are not considered SSCs	Pellet Line 1 Roll Motor	ISA-08 Pelleting

CCF	Title	Description	Justification	Location	ISA ID
10031	Pellet Line 2 Roll Motor 70E Quick Connect	We will be installing on Roll Motors 1 and 2 70E rated quick connects.	Becuase of the PM frequency and locationinstallation of quick connects would make it easier and safer for the Elect. or Mech. to remove either motor. Have reviewed Pelleting safety significant controls sketch 829013-1these motors are not considered SSCs.	Pellet Line 2 Roll Motor	ISA-08 Pelleting
10032	Pellet Line 3 Roll Motor 70E Quick Connect	We will be installing on Roll Motors 1 and 2 70E rated quick connects.	Becuase of the PM frequency and locationinstallation of quick connects would make it easier and safer for the Elect. or Mech. to remove either motor. Have reviewed Pelleting safety significant controls sketch 829013-1these motors are not considered SSCs	Pellet Line 3 Roll Motor	ISA-08 Pelleting
10033	Pellet Line 4 Roll Motor 70E Quick Connect	We will be installing on Roll Motors 1 and 2 70E rated quick connects.	Becuase of the PM frequency and locationinstallation of quick connects would make it easier and safer for the Elect. or Mech. to remove either motor. Have reviewed Pelleting safety significant controls sketch 829013-1these motors are not considered SSCs	Pellet Line 4 Roll Motor	ISA-08 Pelleting
10034	Fire Alarm Panel Modifications	At the Main Fire Alarm Panel at the Main Guard's Desk make software changes to: 1. Remove the functionality of the "All Evacuation Button". 2. Remove the functionality of the Fire Alarm Phone that goes to the ECP. 3. Remove the functionality of a door switch bypass. There are no drawing changes.	1. The Fire Alarm "All Evacuation Alarm" is not used in this plant. The Crit Horns are used. This button has been inadvertantly pressed in the pastcausing an alarm Plant Personnel are not familiar with and has caused confusion. 2. The Fire Alarm phone between the Main Desk and the ECP is not usedradios or the land line is used. The Fire Alarm phone at the ECP has been damaged several times by lightningand has caused considerable expense to be repaired. When it is damageda continuous trouble alarm is present on the Fire Alarm Panel. This action will remove these issues. 3. This bypass is not required or desired.	Main Guard Desk	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10035	Pellet Line 5 Roll Motor 70E Quick Connect	We will be installing on Roll Motors 1 and 2 70E rated quick connects	Becuase of the PM frequency and locationinstallation of quick connects would make it easier and safer for the Elect. or Mech. to remove either motor. Have reviewed Pelleting safety significant controls sketch 829013-1these motors are not considered SSCs	Pellet Line 5 Roll Motor	ISA-08 Pelleting
10036	Low Gas Pressure Switch Replacement on North American Boiler #1	Replace the existing low gas pressure switch (PSL-1157B on drawing 615F03PI01) on North American Boiler #1. The new switch will be a Honeywell C6097A1111 equipped with a manual reset. The existing pressure switch is an auto reset.	These changes are required per ASME CSD-1-2009 Controls and Safety Devices for Automatically Fired Boilerssection CF-162 pressure switches.	BOILER HOUSE #2 / NORTH AMERICAN #1	Grounds
10037	ADU Tray Stacker Modification	Add a substitue material for the plexiglass panels used on the ADU tray stackers. Remove the edge channels for the front door.	The plexiglass listed is a generic material and a wear resistant material is better suited for this application. Edge trim will be removed because they are not required for operation.	ADU Tray Stacker	ISA-08 Pelleting
10040	Calciner Off Gas Piping Mod CLN2	Due to the condition of the C209 off gas piping it is being replaced. To optimize the potential for the system the pipe will need to be modified. The pipe will remain a mixture of 6" and 8" schedule 40 but will be in a different configuration. The angle of the pipe will also change from 50 to approximately 48.5 degrees. The heater bands will also have to be replaced to fit the new pipe. No SSCs are affected by this change.	The pipe has to be replaced due to corrosion. By modifying the design of the piping a previously designed rod out tool can be installed in the future if deemed necessary.	CLN2 Calciner	ISA-03 ADU Conversion
10043	Sub 6 AC Unit Installation	Install 7.5Ton split system unit to cool Substation 6 building. Block off current exhaust ventialtion fans and vent to keep area cool.	SUB6 building has no conditioned air to cool the switch gears and transformers inside. It has ventilation fans on the roofthat pulls dirty outside air through filters on the side of the building. Maintenance have issues with contactors getting dirty prematurelythat could possibly arch out.	Sub 6	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10044	3A Furnace Modifications	1. Remove lubricators from door cylinder air supply lines. Replace OEM regulator with Norgen regulator(S/R # 35040). Add Norgren filter(S/R # 35143) to supply line. See attached Norgren documents for regulator/filter specifications. Ref. CCF 09754 Part 1 for similar change. 2. Add pressure gage to natural gas inlet line. See attached McDaniels document for gage specifications. Add plug valve prior to pressure gage. See attached Swagelok document for plug valve specifications. Ref. CCF 09754 Part 2 for similar change. 3. Add valve to door cylinder air supply line. See attached Jamesbury document for valve specifications. Ref. CCF 09754 Part 4 for similar change. 4. Add port to entrance and exit end furnace pressure monitoring lines. Ref. CCF 09754 Part 5 for similar change. 5. Remake main pusher cover from Lexan. Ref. CCF 09754 Part 6 for similar change. 6. Weld 1/4" thick carbon steel scab plates on inside of the furnace shell entrance end plate. See attached file for modification. Ref. CCF 09671 for similar change. 7. Replace all three zone Nanmac A12A-Q5611 thermocouples(68.25" Lg) with Nanmac A12A-3-48-C-DPX-10HF thermocouples(48" Lg). 8. Remove nitrogen purge radiation pyrometer and maintenance purge pyrometer flow meters. 9. Modify main pusher support structure. See attached file for modification.	1. Per the cylinder and solenoid manufacturerair lubrication is not required for cylinder and solenoid operation. This also alleviates the need to maintain lubricators that are not easily accessible. Dilapidated OEM regulator needs to be replaced. Filter(already allowed per 322F02PI01Sht 04) is needed to prevent debris from entering regulator and solenoids. 2. Provides ability to check natural gas pressure at an individual furnace. Plug valve is to provide gas pressure isolation to replace gage when needed. 3. Provide method to relieve pressure from door supply line for LOTO. 4. Provide method to tie-in calibrated gage to verify proper magnehelic gage reading. 5. Provide improved viewing of main pusher operation. 6. To seal off weld burn thru holes from where the transition from the entrance muffle to the shell was previously welded to the entrance end plate. 7. To standardize thermocouples. 5A5B & 1A use these type thermocouples. The T/Cs are identical except for length. The shorter T/C also reduces cost. Note that the Zone 2 T/C affects PELSINT-903904905 & 908and the Zone 1 & 3 T/C affects PELSINT-914. 8. These flow meters are no longer used. 9. Allow fit of new main pusher drive speed reducer.	ADU Pelleting \ Line 3 Sintering Furnace	ISA-08 Pelleting
10045	RAIL Storage of full cyls on UF6 pad	Allow the storage of full heel or empty cylinders on rails inside UF6 pad.	Shortage of full cylinder storage space.	UF6 Pad	ISA-03 ADU Conversion

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10046	Compliance with "Controls and Safety Devices for Automatically Fired Boilers" on North American #1	In order to comply with ASME CSD-1-2009 "Controls and Safety Devices for Automatically Fired Boilers" the following changes must be made to the fuel systems on #1 North American Boiler: 1)Replace one solenoid valve in the fuel oil supply line with a hydramotor operated two way shutoff valve equipped with proof of closure. 2)Replace one solenoid valve in the natural gas supply line with an On-Off fluid powered actuated industrial gas valve equipped with proof of closure.	These changes are required to comply with the 2009 revision of "Controls and Safety Devices for Automatically Fired Boilers".	Boiler House #2	Grounds
10047	Cafe Area Floor Tile Replacement	Replace quarry tiles in dining and serving area with upgraded 8 X 8 quarry tiles. see attachments.	Current ceramic tiles are old and are cracking and detaching from the floor. The tiles are also out-dated and cant be replaced with the same design tile.	Dining & Serving Area	Grounds
10049	Compliance with "Controls and Safety Devices for Automatically Fired Boilers" on North American #2	In order to comply with ASME CSD-1-2009 "Controls and Safety Devices for Automatically Fired Boilers" the following changes must be made to the fuel systems on #2 North American Boiler: 1)Replace two solenoid valves in the fuel oil supply line with hydramotor operated two way shutoff valves equipped with proof of closure. 2)Replace one solenoid valve in the natural gas supply line with an On-Off fluid powered actuated industrial gas valve equipped with proof of closure.	These changes are required to comply with the 2009 revision of ¿Controls and Safety Devices for Automatically Fired Boilers¿.	Boiler House #2	Grounds
10050	Remove Flow Gauge From V-x12 Filter Bags	Remove sight glass from the V-x12 bag filter piping. This sight glass is not used and will be blinded off.	On 1/20/2010while acid washing the line from the V-412 to the Q-tanks the sight glass blew out spraying an operator with solution. This was a significant near miss.	Conversion Line 4	ISA-03 ADU Conversion

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10051	ADU Dryer Pedestal Modifications - Line 5	The exit end pedestal at the ADU Dryer on line 5 exhibits unconstrained motion during operation of the dryer. This motion amplifies observed vibration transients and induces stress to the dryer shell. Fabricate plate steel reinforcements will be added to the existing pedestal structure.	Transient vibrations will damage dryer components	Exit end of ADU dryer	ISA-03 ADU Conversion
10052	Multi Contract Diamond Wheel	A second iteration will be done to the new style "multi-grit" diamond wheel. This new diamond wheel will have an aluminum core with a cobalt tin silver cobalt construct diamond bond. This is the bond used on the original ADU diamond wheels (361F03TL01).	The current iteration of diamond wheel (361F03TL06)while improvedis too heavy (bronze core) and the diamond bond (also bronze) is too soft. These changes will result in diamond wheel that will meet all of the pellet and maintenance area requirements. The wheel being very heavy could potentially result in mechanic injuries and/or equipment damage. The bond being too soft has resulted in an increase in frequency of grinder marks on pellets (quality issue) than previous designs of diamond wheels.	Pellet Area Grinders	ISA-08 Pelleting
10053	Upsize Men/Women Restroom Duct Heater	Upsize RHC 07-16 duct heater from 1KW to 7.5KW. Also specify unit to have 480V 3PH power.	Current 1KW heater cannot keep up with heating to a comfortable standard during cold (50F and below) days.	Men/Women Restroom Near Medical Office	Grounds
10054	Dryer Shaft Motor Load trending	Tie the JI-525 dryer shaft motor load indicator to Honeywell C200 so this point can be displayed and trended on Experion.	This will allow data trending on the dryer shaft motor for process improvement.	Line 5 Dryer	ISA-03 ADU Conversion
10055	Add Reinforcment Rings to Line 5 ADU Dryer Shell	1/2" wide by approximately 24" diameter rings will be mechanically attached to the outside shell of the dryer at locations between heaters near the discharge end. These rings are intended to assist in transient vibration remediation.	Vibration analysis of the ADU dryer shell shows unconstrained acceleration and transient internal stress causes the shell to exhibit out-of-round deflections. Four rings will be installed at selected external locations in an effort to control dryer shell hoop stress and reduce shell vibration.	ADU Line 5 Dryer	ISA-03 ADU Conversion

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10056	Respirator Decon Area Safety Improvements	The single sink in the area will be replaced with a dual sink which will be relocated to the south east corner of the building and a new dryer will be installed close to the exit where the deconned respirators are stored. Electrical modifications and HVAC modifications will be required so that the new dryer can be installed. A floor drain will be installed in front of the sink so that spills will drain to a sump containing a sump pump under the new sink. Filter system modifications will be made based on analytical results of current discharges to the contaminated waste header. A new hot water heater will be installed and the old unneeded water storage tank removed. An additional table will be placed next to the new dryer.	The area where personnel respirators are washed/dried needs reconfiguration/modification of equipment to allow safe performance of work activities and a floor drain to address slipping hazards.	Respirator Cleaning Facility	Grounds
10057	Temporary Electrical supply to P-1129	Run temporary electrical supply to South Lagoon Pump P-1129. This temporary supply will be run in conduit from PP-PSB which is about 50 feet from the pump. This pump is a stand-alone installation and is not connected to or interlocked with any other system.	P-1129 has been powered from a portable diesel generator since the failurs of the underground circuit in July 2009. A temporary supply from PP-PSB will save the cost of renting the generator until a permanent supply can be run.	South Lagoon	Grounds
10058	Removal of Beamsequipment In D&V area.	Remove cross beams on surface tables A & B in D&V area. Remove items i.e. but not limited to electronic equipment brackets stand other small items that are no longer in use. In addition put small brackets to hold ring gages standards etc.	This action will free up the side beams to attach the new rod ID scanner as well as the attachment of monitor and arms. In additionby attaching brackets to the side of the surface tablesthis will eliminate any items from falling on the rods during inspection.	D&V area	ISA-10 ADU Rods
10062	Oil Replacement for Vacuum Pumps	Replace Leybold vacuum oil HE-175 with N62 vacuum oil. See attachments for MSDS and oil equivalent information. Oil used in grid area on the vacuum furnances in the non fuel area on the leak detector in IFBA on vacuum pumps and in the rod area leak detector.	HE-175 is no longer available	Vacuum furnancesleak detectorsIFBA	ISA-14 IFBA Processing

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10063	GE Quick Panel Model Change	We will be changing the GE Quick Panel on the Scrap Cage Washing Machine from Model IC754CSF15CTD 15" display to Model IC754VSF15CTD.	Quick Panel model IC754CSF15CTD failed on the Scrap Cage Washing Machine and is considered one of a kind. It has a 3wk lead time. Model IC754CSF15CTD is a store room item and is readily available. To install this model the quick panel graphical panels will have to be copied and pasted into the new model setup. This does not require the PLC code to be re-written. This PLC is also not considered to be Safety Significant. There are not Dwgs. associated with this CCF.	Scrap Cage Washing Machine	ISA-11 Scrap Uranium Processing
10064	Lubricate Oxide Coater II Drive Chains	Oxide Coater II Drive Chains are Stainless Steel in construction. Over time stainless steel will begin to wear upon itself (gall) if not lubricated. Over the last week the chain drive has repeatedly bound during operation until it was unable to be moved at all. After intensive problem solving and process of elimination it was determined that the wearing of the stainless chain is the root issue of the failure.	Lubricants are prohibited from touching product in Tube Prep. The proposed solution involves adding lubricant in a controlled and specific manner to the chain links individually. This same lubricant is a nonhydrogenous lubricant that is used currently in the Dry Box in IFBA. The chain is attached to a bracket and the tubes make contact with only the bracketnot the chains. Without some lubricationthe chains will continue to bind and Oxide Coater II will be inoperable until replacement chains can be located. Alcohol will be used to clean the black contact pieces after lubrication to ensure they are clean when contact with tubes occurs.	Oxide Coater II Transport Conveyor	Clean Side Rod Area

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10065	Decanter Main Bearing Grease	Change the grease used in the conversion decanters from Centriquip Centriplex EP2 to Mobilgrease XHP 222. This will also include a purge and fill of the Beka Max lubricators. Once approved the Mobilgrease XHP 222 is to be considered an approved like kind for the conversion decanter main bearings. The grease will only be changed as the decanter rotors are changed and therefore both greases will be in use for a period of time.	Centriplex EP2 is no longer manufactured. Mobilgrease XHP 222 is the suggested replacement for this application per Mobilgrease applications experts.	Conversion	ISA-03 ADU Conversion
10066	Relocate Switch on Pin Stamping Machine	Currently Operators must enter an electrical panel to use the "Pulse" switch for normal operation (Procedure) once a shift. The proposed change is to move from inside the panel to a position on the outside of the panel more accessible to the operator yet not changing the function at all.	To move this switch to the outside of the panel would be a huge improvement and allow operators to safely perform their job without opening an electrical panel that could have safety implications. This change is strictly ergonomic and safety related.	Pin Stamping Electrical Panel	Clean Side Rod Area
10072	Substitute Rod Chuck Motor on Oxide Coater1	Substitute Rod Chuck Motor on Oxide Coater1. The exisiting motor is a 220vac gear motor. We will be replacing the motor with a plant standard 110vac gearmotor. The new replacement gearmotor motor is a B&B Motor and Control Company; # 030-42R4BFSI-15L	Existing motor is obsolete and has failed. The existing motor was 220vac and our plant standard is 120vac.	Oxide Coater 1 in the mechanical area	Clean Side Rod Area
10074	Heat Tracing Thermostat Substitution	Substitute heat tracing thermostat.This CCF will allow us to replace obsolete switches with the Barksdale "digitrace" model AMC-1B.	Some of the heat tracing thermostats are no longer available. This unit will allow us to standardize on our heat tracing thermostat.	Outside Heat Tracing to prevent freezing	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10075	PLC Watchdog Substitution	PLC Watchdog Substitution for failed units. The replacement Brentek is similar in form and function to obsolete Entrelec unit. This CCF will allow us to add the Brentek watchdog to the substitution procedure MCP-202174 that will allow us to substitute plantwide (see proposed MCP additon attachment). This CCF does NOT apply to PLCs which contain Safety Significant Controls (SSCs). A separate CCF must be written for any substitution that is associated with PLCs the contain of affect SSCs.	The Entrelec PLC watchdog relay is obsolete. We have been using a Brentek watchdog for several years with good success. This CCF will allow us to use the Brentek as a substitution for the obsolete Entrelec watchdog relays on PLCs which do not have SSCs.	This CCF will allow us to add the Brentek watchdog to substitution procedure MCP-202174 equipment substitution.	Miscellaneous
10076	Erbia Safety Chock Lowering	Redesign the pivot arms on the Erbia Safety Chocks to lower the bulk container 1 inch to help input ADU Bulk Containers into the Erbia Deer stand.	The Erbia Safety Chocks were installed too high and as such there is a major safety concern when inputing an ADU bulk container into the Erbia Deerstand. The crane technicians can not raise the limit switch anymore and the bulk container still hit the safety chocks when they enter the deerstand. Operators are freqently exposed to dangerous conditions by having struggle to get heavy ADU bulk containers over the chocks. Lowering the chock pivot arms 1 inch will help the operators gain the clearance they need to safely move the bulk container in the stand.	Erbia Deer Stand	ISA-20 ERBIA

CCF	Title	Description	Justification	Location	ISA ID
10077	Install Parker Surface Grinder in Tool Room	This CCF is to cover the installation of a Parker surface grinder in the Mechanical Area Tool Room. This is a manually operated grinder that will be installed in the area where the CNC milling machines and lathes are. The grinder is now sitting in the preferred location. Work to be done under this CCF includes electrical drawings and area arrangement drawing update. This is a "dry" grinder ie no coolant will be used and thus there are no concerns of handling and disposing of coolant. No ventilation is planned. PRF-1000253 has been issued for Plant Systems support for this project.	A small manual surface grinder is needed in the CNC machine area to increase productivity of the tool makers.	Tool Room CNC Area	Grounds
10079	Coater 8 Cathode Electrical Disconnect	Install electrical wiring to coater 8 cathode disconnect fixture installed on CCF-09867. The ungrounded cathode conductor from the six power supplies will be connected to a receptacle mounted on the coater frame. A plug mounted on the movable door shall disconnect or connect the conductors as the door is openned or closed.	1. Currently the LOTO for working on cathodes is cumbersome and requires unplugging 6 separate plugs. The three plugs on the back are then placed inside a lock box. The same procedure is done for the three door cathodes 2. Each coater is physically alike this has caused operators to disconnect live cathode plugs in error. This has happened typically at the back of the coaters where the tilt of the coater was not apparent. 3. The repeated disconnections of the plugs have reduced the plugs efficiency. In some cases the plugs have not conducted the voltage and current efficiently to the cathode	IFBA Coater 8	ISA-14 IFBA Processing
10080	Access Ramp for bottle storage area	Build a concrete access ramp to the existing maintenance argon bottle storage pad joining the pad to the black top surface of the plant road located on the west side of the facility.	This ramp will allow safe access to the bottle storage pad using a fork truck. Currently this area between the storage pad and the black top is dirt.	Buildings and Grounds	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10081	SOLX vesselspump replacements	Perform the following work: 1. Replace V-1084 with new stainless steel vessel 2. Replace V-1094 with new stainless steel vessel 3. Replace HX-1084 with new stainless steel heat exchanger 4. Replace P-1087A with mag drive pump 5. FCV-1084 FCV-1484 LCV-1084 LCV-1484 with teflon lined control valve 6. Move existing level indicators from V-1087A/B C/D from pump suction line to side of vessels 7. Remove P-1487A and repipe V-1484 to transfer directly to V-1076 without going through V-1487A 8. Add manual valve to V-1076 recirculation line	1. Obsolescence - V-1084 is beyond its service life. Standardization - will match V-1484. 2. Safety improvement - remove leak prone glass vessel with stainless steel vessel. 3. Standardization - will match HX-1484 4. Safety improvement - current pump seal often leaks. Standardization - will match all other pumps in SOLX/dissolver area. 5. Safety improvement - current cast stainless valves are corroded by process stream. Teflon line valves will be an improvement 6. Process improvement - obtain better level measurement that is not affected by pump operation. 7. Safety improvement - current pump seal frequently leaks. 8. Process improvement -	SOLX	ISA-07 Solvent Extraction
10082	Recertification Building Speaker	Add a Fire Alarm speaker in the Cylinder Recertification Building.	While in the buildingArea operations cannot hear the addresses made over the PA system. This is a personnel safety issue.	Cylinder Recertification Building	ISA-15 URRS Wastewater Treatment System
10083	CE Loader - Secondary Spill Containment	Provide a Secondary Containment/Dolly for CE Loader Process Water. See Attached Document Depicting Proposed Containment	Currently Process water form the CE Loader is pumped into a 55 Gallon Drum. This water was then pumped down the drain at the Wash Tank. Changes to the procedure require the water to sit ~ 24 hours to allow zirconium fines to settle prior to pumping the upper level effluent down the drain. The secondary containment ensures that if a leak should developit will be contained and not leak onto the surrounding floor	F/A CE Loader	ISA-17 Final Assembly
10084	Pump Re-build Shop Speaker	Install a Fire Alarm Speaker in the Chemical Area Pump Rebuild Shop.	Area personnel while working in the Pump Rebuild Shop cannot hear the alarms or announcements. This is a personnel safety concern.	Chemical Area Pump Rebuild Shop	ISA-03 ADU Conversion

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10085	Convenience Outlet for Allegiance	We will be installing a convenience outlet for the Allegiance cleaning crew.	The new outlet will allow Allegiance to relocate their floor washers away from the asile. Good housekeeping... No SSCs...	Allegiance holding area for cleaning equipment	Grounds
10087	Removal of V-1009B Sample Valves	At the bottom of V-1009B there are multiple sample/drain valves. Two of the valves will be eliminated leaving a single valve.	The valves are redundant and are a potential leak point. The one remaining valve will provide the needed sampling/draining of the tank and system.	V-1009B	ISA-01 Plant Ventilation System
10088	Replace 1/2" Welded Ball Valves with Flanged Ball Valves on Nitric Acid Line for Line 3	The welded ball valves on the Nitric acid line will be replaced with flanged ball valves. The valves are located on the decanter platform. The piping will be remade and the last valve will be repositioned so that it is higher.	The Nitric service is hard on the valves. The replacement of the welded ball valves is difficult for maintenance.	Nitric acid line on decanter platform	ISA-03 ADU Conversion
10089	Replace 1/2" Welded Ball Valves with Flanged Ball Valves on Nitric Acid Line for Line 4	The welded ball valves on the Nitric acid line will be replaced with flanged ball valves. The valves are located on the decanter platform. The piping will be remade and the last valve will be repositioned so that it is higher.	The Nitric service is hard on the valves. The replacement of the welded ball valves is difficult for maintenance.	Nitric acid line on decanter platform	ISA-03 ADU Conversion
10090	Replace Precipitator Tank V-105A and V-105B	Replace existing 20+ Year old precipitator tanks. A safety significant level transmitter will need to be removed from the old tank and re-attached to the new tank. An ITR will be required.	Existing tanks have leak issues and need to be replaced.	ADU Line 1	ISA-03 ADU Conversion
10091	Sodium/Carbonate Removal BLDG Heater	Replace current 9KW Bryant electric unit heater with a Trane 10KW electric unit heater.	The Bryant electric unit heater is not operable and is obsolete. The Trane electric unit heater is an upgrade and will provide necessary heat for building.	Sodium/Carbonate Removal Building	Grounds
10092	Replace Precipitator Tank V-505A and V-505B	Replace existing 20+ Year old precipitator tanks. A safety significant level transmitter will need to be removed from the old tank and re-attached to the new tank. An ITR will be required. Change similar to CCF 10-090.	Existing tanks have leak issues and need to be replaced.	ADU Line 5	ISA-03 ADU Conversion

CCF	Title	Description	Justification	Location	ISA ID
10093	Replace Precipitator Tank V-305A	Replace existing 20+ Year old precipitator tanks. A safety significant level transmitter will need to be removed from the old tank and re-attached to the new tank. An ITR will be required. Change similar to CCF 10-090.	Existing tanks have leak issues and need to be replaced.	ADU Line 3	ISA-03 ADU Conversion
10094	Replace Precipitator Tank V-405B	Replace existing 20+ Year old precipitator tanks. A safety significant level transmitter will need to be removed from the old tank and re-attached to the new tank. An ITR will be required. Change similar to CCF 10-090.	Existing tanks have leak issues and need to be replaced.	ADU Line 4	ISA-03 ADU Conversion
10096	Electric Hoist for D107	Install an electric hoist in the place of the current chain fall. The hoist is a 2 ton Coffing model JLCET4008-3-20.	This change will address safety concerns associated with chain falls as well as improve the quality of the lift. Miscellaneous small capital has been approved for this equipment.	Conversion Line One	ISA-03 ADU Conversion
10097	Electric Hoist for D507	Install an electric hoist in the place of the current chain fall. The hoist is a 2 ton Coffing model JLCET4008-3-20.	This change will address safety concerns associated with chain falls as well as improve the quality of the lift. Miscellaneous small capital has been approved for this equipment.	Conversion Line Five	ISA-03 ADU Conversion
10098	R53 Press Drive Pulley Modification	Modify R53 Press High Load Pulley to allow installation of bushings. See attached sketches for design concepts.	Provide method to repair pullies that have damaged bearing bores.	ADU Pelleting \ R53 Press	ISA-08 Pelleting
10099	Line 6 Grinder Hood	Modify the 80/20 grinder hood support on the left side of the grinder and replace with a bracket on the top. Also the right side mounting block will be modified. The material will be changed from AL to stainless steel and the mounting holes made stronger.	The left support of the grinder interferes with the entrance vibrator making adjustments for diamond wheel diameters very difficult. The right side mount is made of aluminum and not very robust. This CCF does not affect any SSCs as the only SSC on the grinder line is the feed bowl level probe in the bottom of the feed bowl housing. All of these modifications will be to the grinder and conveyor alone.	Pellet Grinder Hood	ISA-08 Pelleting
10100	Add 2 Additional Hold Down Bolts to Conversion Line 5 Dryer End Plate.	By adding 2 additional hold down bolts to an existing bracket base will help reduce the vibration on Line 5 Dryer.	Safety	Line 5 Conversion Dryer	ISA-03 ADU Conversion

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10102	L4 Torit Vibration Probe	Install 4 transducer extensions to the motor bearings and fan bearings on the Line 4 Torit system. An enclosure will be installed near ground level as a junction for all of the probes.	Recording vibration readings from the torit systems is not currently part of a PdM program and is very cumbersome to take readings. A trained person with manlift certification is required and the torit has to be temporarily shut down to attach the transducer for data recording. With this upgradevibration readings will be able to be taken with ease.	Pellet Line 4 Torit	ISA-01 Plant Ventilation System
10103	CAS Station 17 Remote Monitoring	Currently Criticality Alarm System (CAS) Station 17 can not be monitored remotely. Install a device that can multiplex the analog signals from CAS Stations 14 & 17 to the HR closet. The criticality stations are monitored at the front desk.	CAS Stations 14 & 17 are located in the same area and only two pair of analog wires are available. A multiplexing system will be used to transmit 4 analog channels from Pump House # 1 to HR closet. Two channels will be used on CAS Station 14 and two will be used on CAS Station 17.	Crit Station 17	Grounds
10105	Temporary substitution of blowback timer	Temporarily substitute HP5 series cycl-flex timer with range of zero to 30 minutes for same timer with range of zero to 1o minutes. This timer controls the blowback cycle on the ADU dryer on line 5. The PIF requires the blowback cycle time to be between 1 minute and 2 minutes. The new timer can be set to operate in this range. This timer will be replaced by a zero to 10 minute timer as soon as one can be obtained by MRO storeroom. This timer is not safety significant. This was determined by examining control form 815417-9	ADU line 5 cannot start because the dryer blowback timer has failed and storeroom are out of stock of the correct range.	Contro cabinet for line 5 dryer	ISA-03 ADU Conversion
10106	Oxide Coater 2 tube polishing wheel retaining block	Add retaining mechanism to prevent polishing wheel from falling off.	When the polishing wheel is not in place correctlythe tubes may partially or not polished at allcausing rework and possible scrapped tubes.	Polishing station at Oxide Coater 2	Clean Side Rod Area
10107	Removal of Pulmonary Test Room Sink	Remove hand sink in the Medical office pulmonary test room.	Sink is not needed in that area per nurse. Removing the sink will provide them with more valuable space.	Pulmonary Test Room	Grounds

CCF	Title	Description	Justification	Location	ISA ID
10108	Install remote resets for gas fired heaters	Install remote resets for our 3 gas fired heaters on the mechanical side. Honeywell makes the flame sensor and they have an option for a remote reset. W.B. Guimarin will be contracted to install and test the remote resets. These heaters are on the mechanical side and no safety significant controls are involved.	Currently when we have to reset a flame detector for the gas heatersa man-lift is required. The flame detector is located in the heater panels which are mounted in an elevated position. Two of these units are located at the Final Assembly dock and one is in the hallway outside of the Grid strap wash.	Dock 1Dock 2and the hallway between grid strap wash and the Strap storage area.	Clean Side Rod Area
10110	Installation of additional criticality horns	Install two more horns in the 1st floor office area for CR 111/112 and customers office area.	Currentlythere are two horns mounted in the 1st floor office area. Conference room 111/112 and customers office area are located inside of a glass door on the opposite end of where the horns were mounted. This makes it difficult to hear the alarm especially if the room was closed.	1st floor office area	Grounds
10111	Line 1 Stainless Steel Enshrouding	Enshroud all painted columns from Line 1 furnaces back to the D&V hood with a slip-fit thin-gage stainless steel.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 1 Grinder and D&V stations	ISA-08 Pelleting
10112	Line 2 Stainless Steel Enshrouding	Enshroud all painted columns from Line 2 furnaces back to the D&V hood with a slip-fit thin-gage stainless steel.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 2 Grinder and D&V stations	ISA-08 Pelleting
10113	Line 3 Stainless Steel Enshrouding	Enshroud all painted columns from Line 3 furnaces back to the D&V hood with a slip-fit thin-gage stainless steel.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 2 Grinder and D&V stations	ISA-08 Pelleting

CCF	Title	Description	Justification	Location	ISA ID
10114	Line 4 Stainless Steel Enshrouding	Enshroud all painted columns from Line 4 furnaces back to the D&V hood with a slip-fit thin-gage stainless steel.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 4 Grinder and D&V stations	ISA-08 Pelleting
10115	Line 5 Stainless Steel Enshrouding	Enshroud all painted columns from Line 5 furnaces back to the D&V hood with a slip-fit thin-gage stainless steel.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 5 Grinder and D&V stations	ISA-08 Pelleting
10116	Upgrade Electrical System on Electrode Grinder	Replace existing wiring with the appropriate color and rewire to match plant standards. Replace existing DC drive with a servo drive and motor. Modify power feed to accomodate 240 V supply for servo motors. Modify side panel to allow removal.	The exisitng design does not meet plant standards. The current motor is not reliable.	Line 8	Clean Side Rod Area
10118	Substitution of Thimble Line Solenoids	The thimble line is using obsolete Parker solenoids for the plugger and the tube clamp bladder. This CCF will allow us to substitute the recommended Parker replacement for the existing unavailable units. The replacement units are similar in form and function. There are no SSCs affected.	The exisiting solenoids are no longer available. The replacement units are the factory recommended replacements PARKER AIR VALVE P/N B511BDH53C REPLACES TUBE CLAMP AIR VALVE PARKER P/N L7452440153B. PARKER AIR VALVE P/N B551BDH53C REPLACES PLUGGER AIR VALVE PARKER P/N L7952421153	Mechanical Side Thimble Line	Clean Side Rod Area
10119	Upgrade of Grid Laser 6 CNC to Fanuc 30i Controls	Replace the Fanuc 16i-M PMC (CNC Display) and MDI Panel on Grid Laser 6 with newer version 30i Controls (No SSC's are affected)	Newer controls permits faster calculation times which results in reduction of average time per grid. Average time per grid on Grid Laser 6 is 27 minutes. Anticipated new average time to decrease to approximately 22 minutes per grid.	Grid area	Components

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CCF	Title	Description	Justification	Location	ISA ID
10120	replace vent hatch cover on line 3	The vent hatch on line 3 will be replaced to include a better locking mechanism. The proposed new locking mechanism would be similar to a sanitary clamp where the locking nut is recessed into the surface a bit when fully tightened. Refer to 336F05PP01 01 for where the hatch is used. It is item 16.	The current locking mechanism can become loose and allow the vent hatch to blow open.	at the end of the "long 45" on the calciner	ISA-03 ADU Conversion
10121	Install Stand-Alone Network for Grid Laser CNC Communication	Install a network switch and connect Grid Laser 3 4 5 and 6 PMC's (CNC Unit) to a New PCN connected Computer. (No SSC's are connected nor affected by this change)	This will allow transfer of Part Programs from the Plant Network to the CNC controllers memory storage. This will provide a method of insuring that the proper version of the part programs are stored on the CNC machines.	Grid Area	Components
10122	Replace View Machines "G" and "E" And Install Stand-Alone Network for View Machine Communication	Remove View Bazic Machines ("G" and "E") and replace with View Summit 450XP machines. Install a network switch and connect all 8 View Summit Mahcines to a New PCN connected Computer. (No SSC's are connected nor affected by the this change)	View Bazic Machines are non-networkalbeobsolete and parts are worn out. New Summit 450XP machines include new servospartssoftwareand fixtures. All 8 450XP machines will be networked to a PCN Connected computer. This will allow transfer of Part Progras for the Plant Network to the View machines to insure View machines are running the proper part programs.	Grid Area	Clean Side Rod Area
10123	Line 1 Tray Stacker Cover Change	Convert all steel exterior covers of tray stacker to unpainted stainless steel. Also extend width of latch side shield of in order to minimize exposed painted steel framework.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 1 Tray Stacker	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10124	Line 2 Tray Stacker Cover Change	Convert all steel exterior covers of tray stacker to unpainted stainless steel. Also extend width of latch side shield of in order to minimize exposed painted steel framework.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 2 Tray Stacker	ISA-08 Pelleting
10125	Line 3 Tray Stacker Cover Change	Convert all steel exterior covers of tray stacker to unpainted stainless steel. Also extend width of latch side shield of in order to minimize exposed painted steel framework.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 3 Tray Stacker	ISA-08 Pelleting
10126	Line 4 Tray Stacker Cover Change	Convert all steel exterior covers of tray stacker to unpainted stainless steel. Also extend width of latch side shield of in order to minimize exposed painted steel framework.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 4 Tray Stacker	ISA-08 Pelleting
10127	Line 5 Tray Stacker Cover Change	Convert all steel exterior covers of tray stacker to unpainted stainless steel. Also extend width of latch side shield of in order to minimize exposed painted steel framework.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 5 Tray Stacker	ISA-08 Pelleting
10128	Floor mat hold down (rod line 1)	Add up to three anchor bolts to the floor beneath the loading table of ADU rod line 1 to act as an attachment point for ergonomic floor mats at the loading table. Use a strip of 1" wide stainless steel to "clamp" the mat to the floor. There are no drawings to update for the position of these mats at the loading table.	The floor mats at the loading tables do not stay in place. We have had an injury within the last year possibly due to the mats moving into the aisle.	Front and side of the loading table of rod line 1	ISA-10 ADU Rods

CCF	Title	Description	Justification	Location	ISA ID
10129	Resize cylinder wash V-09 vessel	Resize cylinder wash V-09 vessel such that entire water charging system (V-09 vessel + pipe + hose) is less than CSE requirement of 5.7 gallons. V-09 will be resized to contain at most 4.38 gallons. Additionally move FV-01 valve to end of line (nearest cylinder)	New CSE revision.	Cylinder wash	ISA-09 UF6 Cylinder Wash
10130	Line 5 Electric Dryer Demolition - Electrical	Technical issues identified during testing of the electrially heated dryer on ADU Line 5 resulted in a decision to replace the dryer. This CCF covers removal of heaters and wiring from the controls to the heaters only. The controls and primary wiring will remain.	Operating Management has decided to replace the electrically heated dryer with the previous installed hot oil dryer. This is similar to dryers on other ADU lines.	ADU Line 5	ISA-03 ADU Conversion
10131	Electrical Installation of Hot Oil Dryer and ControlsADU Line 5	Reinstall Hot Oil Dryer in place of electrically heated dryer on ADU Line 5. This CCF covers electrical items only mechanical CCF's may also be required.	Operations Management decision to discontinue use of electrically heated ADU dryer and reinstall hot oil dryer system.	ADU Line 5	ISA-03 ADU Conversion
10132	Mechanical Installation of Hot Oil Supply and Return lines for ADU Line #5 Hot Oil Dryer	Run new 2" hot oil supply and 2" hot oil return lines for the hot oil dryer to be installed on ADU Line #5. Install valves and instruments as indicated on approved drawings.	The electric dryer on ADU Line #5 is being replaced with a hot oil dryer. This project reinstalls the hot oil supply and return lines that were removed after the installation of the electric dryer.	Between ADU Line #1 and ADU LIne #5	ISA-03 ADU Conversion
10133	WABA Room Printer	Relocate existing Business Network fiber optic cable to the WABA room printer.	The printer cannot be utilized unless it is connected to the business network. The printer is required for printing reports and forms pertaining to various job functions.	WABA Room	Clean Side Rod Area

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10134	Furnace 3A Boat Dumper Code Change	We will modify the PLC code on Furn 3A by adding a 3sec delay start timer to the boat loader's reversing relay. This will allow time for the motor to come to a complete stop before reversing its direction.	Per the motors manufactuerthe motor wasn't designed for the application in which its being used. Currentlywhen needed the motor's forward relay is energized and held high until its motion is completed. Once its forward motion is completedits reverse relay is instantly energized and held high until its cycle is complete. This cycle happens on avg of about every 20min. When called to reversethe motor periodically continues driving forward damaging its gearbox. The Boat Dumper is not safety significant (Active Engineered)however it is controlled by a PLC that is safety significant. Sketch No. 829013-1	Furnace 3A Boat Dumper	ISA-08 Pelleting
10135	Line 5 Electric Dryer Demolition - Mechanical	This CCF covers the mechanical removal of the electrically heated dryer on ADU Line #5 so that it can be replaced with a hot oil dryer. Associated equipment and piping/transitions will be disconnected as needed to facilitate removal of the dryer.	The electric dryer on ADU Line #5 is being replaced with a hot oil dryer very similar to those on ADU Lines 123 and 4.	ADU Line #5	ISA-03 ADU Conversion
10136	Mechanical Installation of a Hot Oil Dryer on ADU Line #5	This CCF covers the mechanical installation of a hot oil dryer to replace the current electric dryer. The existing Bag Filter Housing FL-529 will be reinstalled on the hot oil dryer. This CCF covers installing and connecting all of the piping and instrumentation to and from the hot oil dryer. All critical dimensions of the dryer and/or filter housing will be verified prior to installation and startup as specified by Crit Safety Engineering.	The electric dryer on ADU Line #5 is being replaced with a hot oil dryer very similar to those on ADU Lines 123 and 4.	ADU Line #5	ISA-03 ADU Conversion
10137	Paint Shed Concrete Pad	Install concrete pad approximately 14'X 20'X 4" thick under painter's work shed.		Painters Shed	Grounds
10139	HR Hallway Corridor Floor Replacement	Install new vinyl composition floor (VCT) tile over existing interior VCT floor. see attachments.	Current tiles are old and are cracking and detaching from the floor. The tiles are also out-dated and cant be replaced with the same design tile.	HR Hallway Corridor	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
10140	Power Master Boiler Room Safety Shower	Relocate safety shower from current location to the wall in between the large roll up door and walk thru door.	Safety shower is near electrical disconnectwhich is unsafe per safety audit. Alsofilter washer could interfere with someone getting access to the safety shower where it is currently located.	Power Master Boiler Room	Grounds
10141	Substitute Solenoid Valve on Thimble Line	Substitute Parker Solenoid Valve on Thimble Line. The current valve 07S353A will be replaced with a 07S353B the connector will also be replaced the new connector part #PS2932PB	Existing unit is obsolete and unavailable	Mechanical Side Thimble Line	Components
10143	E.ON Flow Housing for the Viper Loop	Design new flow housing.	Customer commitment	Viper Loop Lab	ISA-18 Laboratories
10144	Area Preparation for Auto Dashpot Fab Line	Rearrange the area between column line 11C-D thru 14C-D to prepare for installation of the new automated dashpot tube fabrication cell. The rearrangement will include moving product development storage racks cabinets and material. Once that area has been moved down the column line the tube storage racks in front of the skeleton fixtures will be moved across the aisle to open up an area for the dashpot fab cell. Process gas tie in's will be made to Argon Helium Air and Nitrogen gasses. An electrical tap will be made to the electrical buss duct along with preliminary wiring.	Currently dashpot tubes are fabricated on the thimble fabrication line. As the production load increases there will no longer be sufficient capacity on the existing line for both thimble tubes and dashpot tubes. Additional dedicated equipment is needed for dashpot tube fabrication. The existing dashpot fabrication process is very labor intensive. The intent is to install an automated robotic work cell to fabricate and partially inspect the dashpot tubes.	Between the tool room and the skeleton area next to the thimble line	Components
10147	Digital Differential Pressure Gages on FL-1008A/B	Install (2) digital differential pressure gages in parallel with the existing analog differential pressure gages across the HEPA filters on Filter Houses FL-1008A and FL-1008B. The digital gages use piezoresistive pressure sensor technology.	The digital differential pressure gages will be operating in an evaluation modeto verify accuracyrepeatability and robustness. Equipped with OLED displaythese gages are easier to read than the analog magnehelic and also offer a quick visual indication of differential pressure nearing a critical reading.	CONVERSION SERVICES / AMMONIA FUME VENTILATION	ISA-01 Plant Ventilation System

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CCF	Title	Description	Justification	Location	ISA ID
10151	Replace Photoeyes on Erbia Casket Conveyor	Replace the outside photoeyes on Erbia Casket Conveyor. We will be replacing the photoeyes with the same type used on the IFBA casket conveyor. We will only be replacing the photoeyes on the outside conveyor.	The outside photoeyes on the Erbia casket conveyor are problematic. They have proven to be unreliableespecially in wet conditions. We have a similar application on the IFBA casket conveyor where we have excellent results with the photoeyes.	Erbia dock casket conveyor (outside)	ISA-20 ERBIA
10152	Integrate Kitchen Fume Hood into Simplex System	We will be integrating the Kitchen Fume/ Exhaust Hood into the building Simplex Fire Alarm system. When completed if the Kitchen Fume Hood's fire suppression system is activated it will engage the Simplex system alerting Security.	Per CAPs commitment # 10-047-C002The Fume Hood is not monitored by the building fire alarm system. Per International Fire Code (2006) section 904.3.5. Automatic fire extinquishing systems shall be monitored by building fire alarm systems.	Kitchen Fume Hood	Grounds
10153	Downstairs Mens Change Room Renovation Phase 1	During renovation of men's downstairs change room we will be adding 5 additional horns to the Simplex fire alarm system.			
10154	Downstairs Mens Change Room Add on to Emergency Lighting Ckt	During renovation of men's downstairs change room we will be adding lights to the emergency lighting circuit.		Mens downstairs change room	Grounds
10155	Additional Power Outlet/Utilities for the Chem Lab	Add an additional outlet/disconnect/breaker and other utility services (gases exhaust) as needed to allow for the relocation of one of the lab's spectrometers.	Relocation of one of the labs existing spectrometers is needed to allow for the installation of additional instruments.	CFFFChem Lab	ISA-18 Laboratories
10157	Replace Pressure Gauges on P-1160A/B	Replace pressure gauges on P-1160A/B pumps. The new pressure gauges will be of all stainless steel construction.	The former pressure gauges have some brass components. Brass is not compatible with ammonia.	URRS Outside / Waterglass	ISA-15 URRS Wastewater Treatment System
10158	Rod Line 7 Pellet Sweep Solid Stops	Install solid stops at the Rod Line 7 loading station. These stops will be mounted to provide a consistent stop for the captured row trays and aid in the alignment of the trays with the pellet sweep.	This modification is needed to improve the functionality and reliability of the Rod Line 7 loading station.	Rod Line 7 Rod Loading Station	ISA-12 IFBA Fuel Rod Manufacturing

CCF	Title	Description	Justification	Location	ISA ID
10159	Rod Line 7 Pellet Sweep Tray Rails	Modify the rails that support the captured row trays in the Rod Line 7 loading station such that the tray is supported on the bottom surface of the tray rather than the bottom of the angled feet of the tray.	This modification is needed to improve the functionality and reliability of the Rod Line 7 loading station.	Rod Line 7 Rod Loading Station	ISA-12 IFBA Fuel Rod Manufacturing
10160	SR# 63925 Material Change	Allow the substitution of the ITT 2414-TM-963 with a 2417-TM-963. This is a 1/2" threaded diaphragm valve. The change would be the body would be made out of PVDF instead of polypropylene. The product manual can be found at: http://www.engvalves.com/itemfiles/dvc04.pdf	The 2414 (PP) valve is no longer manufacutered and the 2417 (PVDF) is the suggested replacement. Alsothe prefered material for the processes where this valve is installed is PVDF.	Conversion Front End	ISA-03 ADU Conversion
10162	Modify "Shoes" on ADU Line #5 Hot Oil Supply and Return Lines	This CCF will lengthen the existing "shoes" that support the ADU Line #5 hot oil supply and return lines where they are supported above the ADU Control Room. An approximate 2.5" long piece of T-section will be welded to each of the existing 4" long "shoes".	The ADU Line #5 hot oil supply and return lines are supported over the ADU Control Room with "shoes" and "shoe" guides. These shoes raise the line above the support steel to allow for insulating the line and also allows the line to move or grow when it is heated and cooled. To allow for a greater margin of safetythe shoes on both the supply and return lines will be lengthened at several of the eastern most supports where the greatest growth of the line has been observed. THIS CCF DOES NOT AFFECT ANY SAFETY SIGNIFICANT CONTROLS.	ADU Line #5 Hot Oil Supply and Return Piping Above ADU Control Room	ISA-03 ADU Conversion
10163	Non-used Light Fixture removal over Fuel Rod Storage	We will be removing non-used overhead lights from the Fuel Rod Storage area. The area will need to be barricaded off for over head work. The racks/material will need to be covered with plactic to eliminate FME. The entire circuit will not be removed as some lights will still be feed from LP-10F ckt TBD (510F08EL03 sht3). No dwg change is associated w/ this CCF. No SSC's are involved.	The lights are not in use and need to be removed. The new Crab Lifts mast will extend higher than the old lift by 6" creating the potential to hit the light fixtures.	Fuel Rod Storage	Clean Side Rod Area

CCF	Title	Description	Justification	Location	ISA ID
10167	Air Blow AdditionLine 8 AVIS	Add an air blow off system to the tube transport path on line 8 to remove excess water left by the line's UT station.	Excess water on the surface of the tube will create a higher probability that the AVIS station will fail the end plug weld. A water/dirt free surface will allow the AVIS station to evaluate the tube/plug weld correctlylessening the work lost caused by the need to reinspect "failed" tubes.	CFFFLine 8Rod handling	Clean Side Rod Area
10168	Cold Well Pump Frequency Drive Building	Remove and dispose of the abandoned Chemical Cooling Tower sand filtration unit located on the west side of the Chemical Cooling Tower. Remove the inlet and outlet piping and cap off lines on the 8" supply header. The concrete pad which supported this unit will remain in place. Erect a metal building on the existing concrete pad. This building will house frequency drives for the Chemical Cooling Tower cold well pumps. Note: A separate CCF will be generated for the installation of the new frequency drives.	Operational excellence	Plant Utilities / Chemical Cooling Tower	Grounds
10169	Install VFDs on the Chemical Cooling Tower Cold Well Pumps	Install Variable Frequency Drives (VFDs) on the Chemical Cooling Tower Cold Well Pumps.	Exisiting pumps are constant speeda considerable savings can be obtained by adjusting the speed to supply water as needed only. We also hope to be able to Ramp up the backup pump to prevent shutdown when switching pumps.	Chemical Cooling Tower behind the plant	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
10170	Rehabilitation of Process Manhole	Restore structural integrity to the Process manhole located between the HF Pad and the DI Water Building. The following procedure will be used: 1) Stabilize manhole structure and restore proper shape to bottom and corbel sections. 2) Apply Calcium Aluminates mortar to complete manhole interior restoring structural integrity. 3) Inject surrounding substrate with high pressure chemical grout soil stabilization product as necessary to mitigate loss of material around manhole and under tank farm. 4) Apply two hundred fifty (250) mill epoxy coating using Neopoxy 5300 series epoxy product. Entire manhole interior including pipe inlet and outlet to be covered forming a monolithic barrier to chemical attack. Reference drawing 610F02FS01 sheet 2.	To resolve CAP -09-247-C015-01	Plant Grounds / Process Waste	Grounds
10171	FME barrier for the Rod Storage Racks	Remove the painted carbon steel wall around the perimeter of the Rod Storage Racks and replace with a SS FME barrier as described below. The FME barrier will be constructed of 1-1/2 inch square SS tubing welded to form 8 foot high panels. The covering on each panel will be 18 gage SS sheet metal secured to the tubing with SS self tapping pan head screws. Each panel will be floor mounted using epoxy anchors with the top of each panel secured to the vertical structural members of the new rod storage racks.	The new FME barrier will protect the Rod Storage Area from foreign material migration while also enhancing our customers first impression when entering the Mechanical Area of our Facility.	Plant Systems / Mechanical Area - Rod Storage Area	ISA-10 ADU Rods
10172	Install "Tensabarrier" to block aisleway for movement of rod storage carts	Install a strap barrier to be stretched across the aisleway between final assembly and rod storage.	To inhibit foot traffic through the area around the blind corner of the wall when carts are being moved across the aisleway. This should eliminate the need for the flashing red light that is constantly left activated. No SSCs and no drawings affected.	Main aisleway between rod storage and final assembly	Clean Side Rod Area

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CCF	Title	Description	Justification	Location	ISA ID
10173	Security Room Access	Install badge readers controller cabling and power. Install two UPS boxes and run generated power cables.	The room must be secured to allow for protection of security recordsforensics handling and malware investigation. This information must pass the judicial chain of custody test.	IS Security Office	Grounds
10174	Replace LEHH-1174 with a more reliable unit	The high high level probe on T-1174 Bulk Hydrofluoric Acid Tank has been having repeat mechanical failures. This CCF will replace the current Drexell Brook vibrating fork level switch with a Rosemount vibrating fork level switch model 2120C2GR1NADD	This is a more reliable design. It will serve the same high high level function as the existing probe.	Hydrofluoric Bulk Acid Storage	ISA-06 Chemicals ReceiptHandling and Storage
10176	HE-200 Oil Substitute	Replace Leybold vacuum oil HE-200 with N62 vacuum oil. See attachments for MSDS and oil equivalent information. Oil used in the Furnace area on the vacuum furnaces in the Non-Fuel area on the leak detector in IFBA on the coater vacuum pumps in the Erbia vacuum chamber pumps and in the Rod Area leak detectors.	HE-200 is no longer available. Ref. CCF 10062 for similar change.	IFBARod AreaFurnace AreaNon-Fuel Area & Erbia	ISA-10 ADU Rods
10177	Modifications to D&V Hood Scale System	Modify the scale fixture at the D&V hood to allow the scale to engage the tray higher and out of range of interference-causing structures. Adjust surrounding fixtures as necessary to allow for clear motion of the tray.	Inspectors from the NRC concluded that the current method of measuring trays is prone to error and is not readily repeatable. This is due to much of the interference that is caused by interactions between the tray and much of the alignment equipment. Further investigation has pinpointed exact locations of interference. By elevating the tray above the interferencethis issue will no longer exist and the measurements can be considered accurate.	Area D&V Hoods	ISA-08 Pelleting
10178	Decanter Belt Guard	Allow the substitution of material of construction for the decanter belt guard from carbon steel sheet metal to perforated metal. The size and shape of the guard will be the same. The perforated metal is to be 60 degree staggered carbon steel 11 gauge .188" hole size with a .25" hole center.	The existing guard does not allow for proper heat disappation. The air that passes over the bearing housing is heated from the motor. This increases the bearing temperature.	Conversion	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA-ID
10179	ADU Pelleting Line 4: D&V Hood Upgrades	Install a new gearbox and clutch on the D&V inspection hoods in ADU pelleting. Make any necessary modifications to the support bracket or mounting scheme to allow for new assembly. Reference: TD001191 R3	The current configuration (gearbox and clutch) have a high failure rate. The current clutch and gearboxes have various failure modes that are a nuisance to maintenanceoperations and the tool makers. The new parts are better suited for the application.	PL# D&V Inspection Hood	ISA-08 Pelleting
10180	Remove self cleaning filter from dirty dissolvers	Remove self cleaning filter from dirty dissolver process.	Filter did not perform as well as desired. CSE is being cancelled.	Dirty dissolvers	ISA-04 Safe Geometry Dissolver
10182	Add VFD electrical disconnect for AHU-7306	Add an electrical disconnect to allow isolation of the Variable Frequency Drive (VFD) for the supply fan on Air Handling Unit (AHU 7306). This unit provides comfort air for the Met. Lab Chem. Lab and men's locker room.	The existing control has an automatic VFD bypassif the VFD failsbut power is still applied to the feed side of the VFD. The addition of this disconnect will allow us to isolate the drive without having to take the wires off (parallel feed).	Roof over Metalurgical Lab.	Grounds
10183	Mount network box in IFBA.	Needing network access to the Process Control Network for three worktations. Would like to have network switch in a lockbox (16"x16"x10") mounted on the wall to the left of Collator 1. Needing CAT5 cable run from this switch to the each device: Collator #1 PC Manual Collator PC and IFBA Scrap PC.	All production devices must be migrated to the PCN in order to continue normal functionality. Process Control Network switches are required to be housed inside an enclosure that can be locked to meet the security requirements of the PCN.	IFBA Collating	ISA-14 IFBA Processing

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CCF	Title	Description	Justification	Location	ISA ID
10184	Uranium Extractor Modification - Agitater Washer 1	Modify Agitator Washer #1 (left hand side as viewed from front) as follows: 1. Modify skins around washer to mitigate leakage and condensation build-up underneath the machine. 2. Bring a flex hose from the main chassis vent line over to the area underneath the tub to increase local ventilation. Although modification to agitator washer 2 is mainly covered under CCF 10289 (see related documents) a flex hose will be brought over to it in the same fashion under this CCF. 3. Cut the frame and add clips to allow for increased access to the underside of the machine. 4. Replace NBR lip seal on gear box with Viton totally encapsulated lip seal.	Approved project.	ADU Scrap Cage	ISA-11 Scrap Uranium Processing
10185	Replace Reach-Fork Truck in Fuel Rod Storage Area	Existing Raymond Reach-Fork Truck 20i-4D-R40TT will be replaced with a new Raymond EASi-4D Reach-Fork truck.	Existing truck has insufficient capacity to utilize all storgae locations and handle higher weight AP1000™ fuel rods. New lift has 4,500# capacity vs. 4,000# for existing lift. This allows the lift to handle full fuel rod channels at all rack elevations and not be restricted to empty channels on top two shelf positions.	Fuel Rod Storage area	ISA-10 ADU Rods
10186	FL-5921 & P-5921 Removal	Remove and dispose FL-5921A&B P-5921 and associated piping valves etc. back to main header/source. Also remove electrical service and control wires back to main source.	Equipment is located in the old Chemical Development Lab and has been dormant for many years. There is no plan for using equipment in the future. The space is needed to build a safety cage around the balancer machine for rebuild shop.	Chemical Development /Filtration System	ISA-18 Laboratories

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CCF	Title	Description	Justification	Location	ISA ID
10187	REPLACE WATERGLASS MOORE STA(S) WITH A NEWER FIRMWARE REVISION OF THE SAME MODEL.	When Plant Systems engineering brought the safety significant Waterglass pH monitoring system on line during 6/09 it was noted that the STA(s) that are part of this SSC (WT-133- Sketch # 836038-1) had a firmware design causing the relays to have frequent false trips. Moore Industries confirmed this problem and has provided replacement units. This project scope consists of replacing the current STA(s)with new STA¿s that have a different firmware revision. Although no drawing changes are required this CCF has been initiated as this component has a different firmware design. An independent Technical Review (ITR) has been completed and a scanned copy of the ITR has been attached with this CCF.	The replacement of the STA(s) will reduce the nuisance trip.	UF6 Bay	ISA-15 URRS Wastewater Treatment System
10188	DISCONNECT NITROGEN BACK-UP SUPPLY TO OLD MAP LINE DRY COMPRESSED AIR SUPPLY LINE	A 2" nitrogen supply line was tied into the dry compressed air line that supplied instrument quality air to the old Map Line. This tie-in was in Mechanical Equipment Room #3 downstream of the DR-691 Compressed Air Dryer. This CCF will physically disconnect the nitrogen line from the dry compressed air line.	Connecting a nitrogen line directly into a compressed air line for any reason provides a path for air to backflow into the nitrogen system. This could then lead to the introduction of air instead of nitrogen into equipment or lines that contain flammable gases resulting in an explosive mixture. Since the Map Line is downdisconnecting this nitrogen line should have no effect on current operations and it does not effect any SSCs.	Mechanical Equipment Room #3	ISA-03 ADU Conversion
10189	Increase length of discharge on bulk mill two	Increase length of discharge transition piece by one inch on bulk mill two.	Transition needs to be replaced due to heavy external damage. At the same time it was noted by the operators that it is difficult to line bulk containers up due to the shortness of the transition shaft.	Bulk Mill #2 in Bulk Blending	ISA-05 ADU Bulk Powder Blending

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CCF	Title	Description	Justification	Location	ISA ID
10190	Floor mat hold down (rod line 2)	Add up to three anchor bolts to the floor beneath the loading table of ADU rod line 2 to act as an attachment point for ergonomic floor mats at the loading table. Use a strip of 1" wide stainless steel to "clamp" the mat to the floor. There are no drawings to update for the position of these mats at the loading table.	The floor mats at the loading tables do not stay in place. We have had an injury within the last year possibly due to the mats moving into the aisle.	Front and side of the loading table of rod line 2	ISA-10 ADU Rods
10191	Floor mat hold down (rod line 3)	Add up to three anchor bolts to the floor beneath the loading table of ADU rod line 3 to act as an attachment point for ergonomic floor mats at the loading table. Use a strip of 1" wide stainless steel to "clamp" the mat to the floor. There are no drawings to update for the position of these mats at the loading table.	The floor mats at the loading tables do not stay in place. We have had an injury within the last year possibly due to the mats moving into the aisle.	Front and side of the loading table of rod line 2	ISA-10 ADU Rods
10192	Floor mat hold down (rod line 4)	Add up to three anchor bolts to the floor beneath the loading table of ADU rod line 4 to act as an attachment point for ergonomic floor mats at the loading table. Use a strip of 1" wide stainless steel to "clamp" the mat to the floor. There are no drawings to update for the position of these mats at the loading table.	The floor mats at the loading tables do not stay in place. We have had an injury within the last year possibly due to the mats moving into the aisle.	Front and side of the loading table of rod line 4	ISA-10 ADU Rods
10193	Final Inspection UT1 Top, Bottom Console and UT Tank Removal	Removal of UT1 top and bottom consoles and UT 1 Bottom Tank. Bottom End Console will be replaced with subset of switches and E-Stop for controlling the Ultrasonic Pinch Rollers and Walking Beam. Bottom End UT Tank Will be removed. Top End of Console will be replaced with a Panelmate (Mounted on a Post) along with an E-Stop and will be used for controlling the Top End Ultrasonic Test Station.	The Top and Bottom consoles were orignally installed to allow remote and automatic adjustments of UT sensors using small servos. This has never functioned and now the consoles controlling these servos are utilizing valuable real estate that is needed for the AP1000™ Frazier Racks and to accomodate future removal of the unused bottom UT station.	Mechanical Final Inspection Area	ISA-10 ADU Rods

CCF	Title	Description	Justification	Location	ISA ID
10194	Line 9 Like Kind Roller Replacement	Develop additional roller assemblies to allow for future "Like Kind" (pre-approved) replacement of plastic and/or broken rollers. Roller Assemblies will be manufactured for replacement but the installation of these rollers will be left up to the area engineer.	Many of the remaining roller assemblies on line 9 are in need of repair and/or are made of questionable materials. Secondarilyseveral specific roller locations require a shorter mounting bracket than the one previously designed. Lastlythis CCF is to give "like kind" (or pre-approved) replacement status to the stainless steel rollers recently approved and installed under CCF 09-769 as well as the ones designed and built under this CCF.	CFFFMechanical AreaTube PrepLine 9	ISA-10 ADU Rods
10195	Disconnect Nitrogen Back-Up Supply to the ADU Instrument Air Supply Line	A 1" nitrogen supply line is tied into the instrument air header that supplies instrument air to the ADU Conversion Area. Per COP-814603 this nitrogen line was to be manually valved on to supply nitrogen to the instrument air line in the event of a loss of instrument air. This CCF will physically disconnect the nitrogen line from the instrument air line.	Connecting a nitrogen line into an instrument air line for any reason provides a path for air to backflow into the nitrogen system. This could then lead to the introduction of air instead of nitrogen into equipment or lines that contain flammable gases resulting in an explosive mixture. The plant instrument air system is much more reliable than in the past. The two main compressors are located in Compressor Room #1 on the Mechanical side of the plant. These are fairly new/rebuilt compressors. In the event of a mechanical failure of one of these compressorsthere are two (2) Centac compressors located outside in the URRS area and one (1) Joy compressor located in the UF6 bay that can be brought online to supply instrument quality air to the plant. A loss of power to the plant would result in the loss of the compressors supplying instrument air to the plant. All safety significant automatic air operated valves should fail to their specified safe state upon the loss of instrument air. A review of the Safety Significant Control Sketches for the Conversion Area did not reveal any indication that a backup nitrogen supply was required for the operation of any Safety Significant Controls: Sketch # 815417-11 (Quarantine Tanks Safety Significant	Near the Hydrolysis Columns Between ADU Conversion Lines 1 & 2	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
10196	Final Assembly Fence Move	Move a short section of fence in final assembly to the North side of the building to accomodate the upcoming fuel rod storage rack upgrade project.	Required to support an approved capital project.	Main asile way at Final Assembly	ISA-17 Final Assembly
10197	Line 9 AVIS Replacement	Replace Line 9 AVIS equipment with one consistant with Line 8's. The technology will be used from the same vendor using the vision hardware as that recently installed and qualified on Line 8. The installation will replace an inoperatable system that is 15 years old.	Previous Line 9 AVIS equipment stopped working and is unrepairable. The project will improve the production process and will install current technology equipment.	CFFFMechanical AreaLine 9. AVIS	ISA-10 ADU Rods
10199	Inventory Sample Storage Bins	A stand with plastic storage bins will be placed in the UBM area for storage of inventory samples. This stand will be staged only during inventory.	Previouslyback-up inventory samples have been stored in the control room. This is no longer acceptable. An analyzed storage location is required.	UBM area	ISA-03 ADU Conversion
10200	Conversion Line 1 Fitzmill Accelerometers installation	Add vibration accelerometers to collect fitzmill vibration data	Predictive Maintenance to increase fitzmill reliability.	Conversion Line 1 Fitzmill	ISA-03 ADU Conversion
10201	Remove Obsolete Equipment in DI Water	Remove XV-1361E and associated drain line. Valve and line were used to siphon sulfuric acid to fill drums. This is no longer an acceptable practice. Remove obsolete metering pump and equipment that is no longer connected to process.	These items are obsolete and clutter the area.	DI Water Building	ISA-06 Chemicals ReceiptHandling and Storage
10202	FM Barrier for Rod Storage	Temporarily cover racks and channels in rod storage area near the ailse way of the station meeting room with fire retardent material (SR# 15024). The ailse way will be reburbished.	FM barrier is to protect rods and area from getting contaminated while floor is being refurbished.	Fuel Rod Storage Area	ISA-17 Final Assembly

CCF	Title	Description	Justification	Location	ISA ID
10203	Disconnect and Remove ADU Sintering Furnace 5C	Disconnect and remove ADU Sintering Furnace 5C. Sintering Furnace 5C will be disposed of through URRS. Furnace Size and Weights: The assembled furnace is approximately 33.6 feet long by 7.3 feet wide. The refractory brick total weight is appprox. 20,000 pounds. We believe the balance of the furnace (steel transformers etc) will weigh an additional 30,000 to 40,000 pounds. Services to be disconnected: - Hydrogen - Natural Gas - Nitrogen - De-ionized Water - Cooling Water - Plant Air - Atmospheric Alarm (disabled) - 480 Volt Electrical Power - HVAC vent ducts - Floor Drain - Fire Detection (Covered by a separate CCF) ISA-8 may be revised. However no active SSC's will be impacted. Identification Numbers: - MapCon Equip # and Tool # 63006 - Capital # W001 BA12 10011190 - Asset # 1365315 - WEC # 23271 Manufacturer: - Lindberg/SPX Solar Basic Furnace - Model 45-MRO-1078-906-33AC S/N # 733145 - High Heat Section Model # 45-MRO-1052-1056 S/N#777696-1	ADU Sintering Furnace 5C has been idled (mothballed) for years. On March 242010the Plant Manager and Production Manager agreed to disconnect and remove Furnce 5C. Decision Basis: FirstFurnace 5C needs a re-build and borrowed parts replacedbefore a re-start can be attempted. Estimated costs to re-build and replace parts for the ADU Sintering Furnace 5C is approximately $1.3 millionwhich would bring 5C to the current level of furnaces 5A & 5B. Secondservices (see next paragraph) have been previously removed and consumed by other components. The re-build expense and the services replenishments are too great. Thusthe Plant Manager and the Operations Manager agreed to disconnect and remove Sintering Furnace 5C. Services previously removed from Sintering Furnace 5C (Ref. CCF05039): - 480V Electric Power: Sintering Furnce 5C requires a 400 amp connection. The furnace was disconnected and the Thermal Stability Ovens (100 amp connection) had taken its place on bus duct 7C/7D. - HVAC Vent: HVAC vents for Furnace 5C were disconnected and given to the centrifuge ovens. - Floor Drains: The Furnace 5C floor drain pipeline was tapped into by the Thermal Stability Ovens. The Thermal Stability Ovens put 42 gpm of cooling water down Furnace 5Cs drainwhich consumes and exceeds Furance 5C's requirements.	ADU Pellet Line 5Sintering Furnace 5C	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10204	West side Rod Storage Rack Upgrade	Reorganize the rod storage area layout to facilitate storage of the extra-long fuel rod channels required to hold AP1000™ rods. This CCF will address the West side storage racks. 1. Remove all of the rod channels from the 3 WEST side rod storage racks. This includes the double sided rack. Store the rod channels as per standard procedures. 2. Isolate the work area as per standard practices and procedures for safety and FME control. 3. Dismantle and remove the 3 WEST side storage racks. The single sided racks will be scrapped. The double sided rack will be removed and given to WEC maintenance for storage of materials that do not contain SNM such as pipe. 4. Install 2 new rod storage racks which consist of 1 single sided rack and 1 double sided rack. These racks will be designed as per an approved generic drawing for a single sided rack and a double sided rack. The racks will be located on the West side of the rod storage area as per an approved drawing. The new racks will be spaced to accommodate 184" long channels.	Approved capital project required for AP1000™ fuel production.	Rod Storage Area	ISA-10 ADU Rods
10205	Delete Fire Detector for ADU Furnace 5C	Remove and delete a single detector from the ten (10) detector loop for ADU Line 5 Furnaces. Details: Tag # HDLN5 Decription: Furnace Line 5 Address: 103-208 MAP Net: M4-79 Node: 3 Cabinet: 2	A single fire detectorat the Furnace 5C exitis supported by the furnace piping. When ADU Sintering Furnace 5C is removed (by CCF 10203)this detector will be hanging in space and its main purpose will be deleted. A picture of the detector is attached.	ADU Pellet Line 5Sintering Furnace 5C Exit	ISA-08 Pelleting

CCF	Title	Description	Justification	Location	ISA ID
10207	Re-Surface Floor After Removal of ADU Furnace 5C	Re-Surface the concrete floor after ADU Sintering Furnace 5C is removed by CCF # 10203. Area = 35 ft x 8 ft (approx.) See attached sketch. The Scrap Cage re-surface contractor (IFCO) believes the concrete is in good condition. - A surface removal of 1/8" should be sufficient. (The Scrap Cage was 1/4" or more.) - Cracks will be polymer grouted (Sauereisen's No. 209 putty). - The coating system will be 1/8" thick decorative self leveling epoxy flooring. See attached sketch (which was created from 500F03AR11 Sheet 2 of 4). "Disposition of Cement/Rock/Floor in 5 Gallon Cans " procedure COP-843007 will be complied with.	The ADU Sintering Furnace 5C will be removed and disposed ofunder CCF # 10203. In Furnace 5Cs old shadow is concrete flooring with only the initial coating system (vintage 1968). The shadow area is stained and dirty. Alsoareas outside the shadow have several re-coats and a color change. This re-surfacing will match visually and be flush with the surrounding flooring. Re-surfacing may require outage coordination with Pellet Operations.	ADU Pellet Line 5Sintering Furnace 5C	ISA-08 Pelleting
10208	Re-Route Drain Line From Thermal Stability Ovens	Re-route the 2" diameter drain line from the Thermal Stability Ovens as shown on attached sketches SK-DMB-28 Sheet 1 (Dismantle &Removal) and Sheet 2 (For Construction). Provide pipe supports at the locations shown on the sketches. (See attached sketches SK-DMB-28 Sheet 1 & 2.) This re-route will eliminate tripping hazards and "head knockers." Also this CCF will provide sufficient pipe supports once ADU Furnace 5C (CCF # 10203) is removed. Three new pipe supports will be hung from the roof support structure. The fourth new pipe support (at the floor drain) will be floor attached and will serve as a "ballard" to protect the floor drain entrance. "Pipe Support" procedure FSS-016 will be compiled with. The Thermal Stability Cooling Water Drainline was originally installed by CCF # 5039 in 2005. Applicable pipe spec. is FSS-003-23 for "Cooling Water."	Once Sintering Furnace 5C is removed (CCF # 10203)the current Thermal Stability Ovens cooling water drainline pipe routing will need to be change to minimize "head knockers" and tripping hazards. Alsothe 2" dia. cooling water drainline uses Sintering Furnace 5C as a pipe support. New pipe supports will need to be added. The pipe support at the floor drain entrance should be floor mounted and serve a secondary function as a protective ballard. An outage of Thermal Stability Ovens #1 through #6may be needed to re-route the cooling water drain line. Reference dwg. 361F21PI01 Sheet 1 and 361F21PI02 Sheet 1.	ADU Pellet Line 5Sintering Furance 5C	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10209	Replace 2C Saturator water addition valves	Replace solenoid valves SV1A9 SV1A10 and SV1A11 with air actuated ball valves - Jamesbury 9FB-3600XT with linkage kit and spring return actuator model VPVL100SR4-5. PELSINT-915 will be affected.	Solenoid valves are a poor choice for final elements in interlocks. It is not possible to verify the state of the valve when performing interlock verifications and thye are prone to leak-through. A recent saturator over-fill was caused by a leaking solenoid valve. This modification is identical to the one on 1A furnaceCCF # 09065	2C furnace	ISA-08 Pelleting
10210	Upgrade temperature controls on 2C furnace	Replace infrared pyrometers SCR's ammeters and signal isolators on 2C sintering furnace. The following SSC's will be impacted: PELSINT-903 PELSINT-904 PELSINT-905 PELSINT-907 PELSINT-908	Replace obsolete equipment and improve accuracy and stability of temperature measurements. Also separate process control temperature measurements from SSCs. This is identical to the controls upgrade that was recently completed on 1A & 2A furnaces.	2C furnace	ISA-08 Pelleting
10212	Smoke Detector Installation in IT Security Room	Install a smoke detector.	Code requirement.	IS Security Office	Grounds
10213	2C Sintering Furnace Improvements	1) Add a Hayward Duplex strainer on the cooling water line just prior to the header supplying the furnace. 2) Increase the copper line size from 1/4" to 3/8" diameter to reduce blockages. Change the 1/4" needle valves to 3/8" ball valves as well. 3) Separate the cooling chamber copper lines into 2 individual lines with a valve for each line. 4) Remove the cooling water going to the sight ports. 5) Add ceramic pins where necessary to the element pin walls to prevent element shorting.	Changes identical to CCF 0814709794 etc... (Items 1-3)To reduce the possibility for water flow blockage through the sintering furnace cooling sections. Item 4 is no longer in use and needs removed from the drawing. Item 5 is to prevent the elements from shorting together inside the furnace.	2C Sintering Furnace	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10214	Pellet Grinder Drive Belt Guard	Redesign the grinder drive belt guard to provide operator protection from hand injuries. There is currently a gap on the covers that are installed. The new ones will eliminate this gap by extending the guarding slightly.	A near miss was reported on 4/10/2010 to engineers that an operator was almost injured when they were cleaning the side of a grinder. As they were cleaningthe rag they were using came in contact with the rotating drive belt for the grinder and was sucked into the equipment. This apparently had happened already been identified on 11/3/09. The near miss is attached to this CCF. This equipment does not have a drawing assigned and will be designed using preliminary drawings which are attached. The new guard will be installed on all grinders on the same day which will result in only one CCF being written.	Pellet Grinders	ISA-08 Pelleting
10216	Insulation of Filter Houses 1A/1B and Heaters 2A/2B	Insulate two new filter houses 1A and 1B and two new heaters 2A and 2B with 1-1/2" of insulation. The scope of work for the filter houses includes insulation of newly installed 30 inch diameter ductwork upstream of the filter house and the filter house itself. Insulation will stop at the discharge flange of the filter house. The scope of work for the new heaters includes insulation from the outlet of the heater enclosures to the end of the new ductwork downstream of the heaters. This work will be completed while the equipment is in production and will not affect the operation of the equipment. All insulation will be external to the ductwork heaters and filter houses.	The filter houses and heaters need to be insulated to minimize heatloss and the potential for condensation on internal surfaces during cold weather.	On the roof and in the scrap cage area	ISA-01 Plant Ventilation System
10217	L5 ADU Dryer Vibration Sensor	Install accelerometer sensor at the ADU Line 5 dryer. The sensor will be mounted on the outside of the dryer. The signal from the sensor will be wired back to the C200 and displayed on the Experion.	Installation of the sensor will allow trending of vibration level on the dryer.	ADU L5 Dryer	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
10218	Replace XV-102H and XV-102I Cam-tite Valves with Xomox valves.	Replace the existing actuated ITT Cam-tite UF6 block valves with the following Xomox valves: Part No: 1/2"067TS63P1-XL71SR80-1040NBY-WT8551A001MS24VDC Automated Plug Valve Package to Consist of: Tufline 1/2"067TS-63-P1-02-KRYTOX 150# Flanged Two Way Plug Valve. 316SS Body Monel Plug PTFE Sleeve Tertiary Top Seal Cleaned for O2 service Assembled w/ Krytox GPL-206 Lubricant. SS Mounting Hardware w/ Encapsulated Coupler Hytork XL71SR80 Spring Return Fail Closed Rack & Pinion Actuator Sized for 80 PSIG Supply Air. SS Limit Switch Mounting Hardware Westlock 1040-N-BY-2A-2M02-00 Limit Switch w/ (2) SPDT Mechanical Feedback Switches Nema 4 4X Engineered Resin Enclosure Local Open/Closed Beacon Indicator. ASCO WT8551A001MS-24VDC Namur Block Mount Solenoid Valve w/ Manual Override. Thomas & Betts Conduit & Fittings. Mounted Tested and Tagged. These valves are part of ADUVAP-110.	Current valves do not provide adequate stem seals to prevent release of UF6 gas. The specified Xomox valve is preferred for UF6 block valve actuation. It is high integritytriple seal design. It is proven in use at Columbia.	ADU line 1	ISA-03 ADU Conversion

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CCF	Title	Description	Justification	Location	ISA ID
10219	Replace XV-202H and XV-202I Cam-tite Valves with Xomox valves.	Replace the existing actuated ITT Cam-tite UF6 block valves with the following Xomox valves: Part No: 1/2"067TS63P1-XL71SR80-1040NBY-WT8551A001MS24VDC Automated Plug Valve Package to Consist of: Tufline 1/2"067TS-63-P1-02-KRYTOX 150# Flanged Two Way Plug Valve. 316SS Body Monel Plug PTFE Sleeve Tertiary Top Seal Cleaned for O2 service Assembled w/ Krytox GPL-206 Lubricant. SS Mounting Hardware w/ Encapsulated Coupler Hytork XL71SR80 Spring Return Fail Closed Rack & Pinion Actuator Sized for 80 PSIG Supply Air. SS Limit Switch Mounting Hardware Westlock 1040-N-BY-2A-2M02-00 Limit Switch w/ (2) SPDT Mechanical Feedback Switches Nema 4 4X Engineered Resin Enclosure Local Open/Closed Beacon Indicator. ASCO WT8551A001MS-24VDC Namur Block Mount Solenoid Valve w/ Manual Override. Thomas & Betts Conduit & Fittings. Mounted Tested and Tagged. These valves are part of ADUVAP-110.	Current valves do not provide adequate stem seals to prevent release of UF6 gas. The specified Xomox valve is preferred for UF6 block valve actuation. It is high integritytriple seal design. It is proven in use at Columbia.	ADU Line 2	ISA-03 ADU Conversion

CCF	Title	Description	Justification	Location	ISA ID
10220	Replace XV-302H and XV-302I Cam-tite Valves with Xomox valves.	Replace the existing actuated ITT Cam-tite UF6 block valves with the following Xomox valves: Part No: 1/2"067TS63P1-XL71SR80-1040NBY-WT8551A001MS24VDC Automated Plug Valve Package to Consist of: Tufline 1/2"067TS-63-P1-02-KRYTOX 150# Flanged Two Way Plug Valve. 316SS Body Monel Plug PTFE Sleeve Tertiary Top Seal Cleaned for O2 service Assembled w/ Krytox GPL-206 Lubricant. SS Mounting Hardware w/ Encapsulated Coupler Hytork XL71SR80 Spring Return Fail Closed Rack & Pinion Actuator Sized for 80 PSIG Supply Air. SS Limit Switch Mounting Hardware Westlock 1040-N-BY-2A-2M02-00 Limit Switch w/ (2) SPDT Mechanical Feedback Switches Nema 4 4X Engineered Resin Enclosure Local Open/Closed Beacon Indicator. ASCO WT8551A001MS-24VDC Namur Block Mount Solenoid Valve w/ Manual Override. Thomas & Betts Conduit & Fittings. Mounted Tested and Tagged. These valves are part of ADUVAP-110.	Current valves do not provide adequate stem seals to prevent release of UF6 gas. The specified Xomox valve is preferred for UF6 block valve actuation. It is high integritytriple seal design. It is proven in use at Columbia.	ADU Line 3	ISA-03 ADU Conversion

CCF	Title	Description	Justification	Location	ISA ID
10221	Replace XV-402H and XV-402I Cam-tite Valves with Xomox valves.	Replace the existing actuated ITT Cam-tite UF6 block valves with the following Xomox valves: Part No: 1/2"067TS63P1-XL71SR80-1040NBY-WT8551A001MS24VDC Automated Plug Valve Package to Consist of: Tufline 1/2"067TS-63-P1-02-KRYTOX 150# Flanged Two Way Plug Valve. 316SS Body Monel Plug PTFE Sleeve Tertiary Top Seal Cleaned for O2 service Assembled w/ Krytox GPL-206 Lubricant. SS Mounting Hardware w/ Encapsulated Coupler Hytork XL71SR80 Spring Return Fail Closed Rack & Pinion Actuator Sized for 80 PSIG Supply Air. SS Limit Switch Mounting Hardware Westlock 1040-N-BY-2A-2M02-00 Limit Switch w/ (2) SPDT Mechanical Feedback Switches Nema 4 4X Engineered Resin Enclosure Local Open/Closed Beacon Indicator. ASCO WT8551A001MS-24VDC Namur Block Mount Solenoid Valve w/ Manual Override. Thomas & Betts Conduit & Fittings. Mounted Tested and Tagged. These valves are part of ADUVAP-110.	Current valves do not provide adequate stem seals to prevent release of UF6 gas. The specified Xomox valve is preferred for UF6 block valve actuation. It is high integritytriple seal design. It is proven in use at Columbia.	ADU Line 4	ISA-03 ADU Conversion
10222	Enclosure Installation - Pellet Line 1	Install a lockable 12" X 10" X 8" enclosure for the CISCO network switch at the Pellet Press on pellet line 1. No SSCs are affected. No drawings changes are required.	Security requirements for the PCN.	Pellet Line 1 Press	ISA-08 Pelleting

CCF	Title	Description	Justification	Location	ISA ID
10223	VIPER Loop Pumps - Change in O-ring material	The VIPER Loop pump vendor has recommended a change to the O-ring seal material in the pump internals which has been shown to have better high temperature stability over time.	The VIPER Loop pump vendor has recommended a change to the O-ring seal material in the pump internals. The current material has shown premature degradation due to the 380 deg F temperature the seals see during 500 hr loop testscausing numerous loop pump seal replacements in the past few years. The new material made by DuPontKalrez Spectrum 6357has been shown to have better high temperature stability over time.	PE Development Lab	ISA-18 Laboratories
10224	Enclosure Installation - Pellet Line 2	Install a lockable 12" X 10" X 8" enclosure for the CISCO network switch at the Pellet Press on pellet line 2. No SSCs are affected. No drawings changes are required.	Security requirements for the PCN.	Pellet Line 2 Press	ISA-08 Pelleting
10225	Enclosure Installation - Pellet Line 3	Install a lockable 12" X 10" X 8" enclosure for the CISCO network switch at the Pellet Press on pellet line 3. No SSCs are affected. No drawings changes are required.	Security requirements for the PCN.	Pellet Line 3 Press	ISA-08 Pelleting
10226	Enclosure Installation - Pellet Line 4	Install a lockable 12" X 10" X 8" enclosure for the CISCO network switch at the Pellet Press on pellet line 4. No SSCs are affected. No drawings changes are required.	Security requirements for the PCN.	Pellet Line 4 Press	ISA-08 Pelleting
10227	Enclosure Installation - Pellet Line 5	Install a lockable 12" X 10" X 8" enclosure for the CISCO network switch at the Pellet Press on pellet line 5. No SSCs are affected. No drawings changes are required.	Security requirements for the PCN.	Pellet Line 5 Press	ISA-08 Pelleting
10228	allow thicker bulk container gasket	Change the description on the drawing to allow use of a 1/4" gasket or the current 1/8" gasket. Also add the 1/4" gasket to the store room	The 1/4" gasket should be used with U3O8 bulk containers to get a better sealor with normal powder if a better seal is required. This is in response to CAPS issue 09-352-c009	On bulk containers	ISA-05 ADU Bulk Powder Blending

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CCF	Title	Description	Justification	Location	ISA ID
10229	Butler Building Lighting	We will be re-lamping 8 light fixtures in the Butler Building adding 4 adding an additional lights down the middle to better illuminate the middle section. No change to dwg 510F08EL04 sht 1. The existing ckts has capacity for 4 new lights.	Lighting in the Butler Building is not adequate. CAPs Commitment 10-089-C008.01	Butler Building	Grounds
10230	Removal Of AVIS from Rod Bottom End Line 9	The out of service AVIS system that was installed 15 years ago will be removed from Bottom End Rod Line 9. The system has been out of service since September 09 and is being removed to install a new system. The system can be turned off and on for different products and does not affect the line operation if out of service.	System needs to be removed to install new system. The current system is un-repairable.	CFFF - Mechanical Area - Rod Fabrication	Clean Side Rod Area
10231	Replace Safety Shower 1-14 (HF-1) with and ENCON Electric Heated Unit	Replace Safety Shower 1-14 (HF-1) with and ENCON Electric Heated Unit. This safety shower is located outside of the DI Water building.	It has to run continuously all winter to aviod freezing. The new unit will be electric heated.	Outside of DI Water Building	ISA-06 Chemicals ReceiptHandling and Storage
10232	Replace Safety Shower 1-16 (HF-3) with and ENCON Electric Heated Unit	Replace Safety Shower 1-16 (HF-3) with and ENCON Electric Heated Unit. Segregate this safety shower from the process water supply.	This safety shower is located in the HF pad. It runs continuously in the winter to avoid freezing. This makes a mess in the containment dike. Also the same water source for this shower is used for directly connecting into lines to flush and neutralize HF solutions for decon and maintenance. This is not an acceptable practice.	HF Bulk Storage	ISA-06 Chemicals ReceiptHandling and Storage
10233	Replace Safety Shower 1-19 (HF-6) with and ENCON Electric Heated Unit	Replace Safety Shower 1-19 (HF-6) with and ENCON Electric Heated Unit	This safety shower is located outside of the HF pad. It runs continuously in the winter to avoid freezing. The new unit will be electric heated.	Between HF Offloading and HF Bulk Storage Pad	ISA-06 Chemicals ReceiptHandling and Storage

CCF	Title	Description	Justification	Location	ISA ID
10235	Replacement of Q tanks pump(A and C)motors	Currently the operation of our A and C pumps flow rates are too high for the 5HP pump motor. And with reasonable assumption and power factor the demand on the motor will occasionally goes above 5HP. In turn this will cause the motor to get overheated overload and trip. The two main solutions to this problem: 1. Reduce the fluid flow. 2. Increase the motor size.	Cubex Engineering Consultant has recomended too increase our motor size from 5 HP to 7.5 HP motor. This will give us the greatest flexibilty to handle our variable flow rate due to our filtration operation (pressure drop across the filter)and recirculation changes from Q tank level and gamma monitor scan of the uranium concentration. The followwing pump motors will change from 5 HP to 7.5 HP P-116A,P-116C, P-216A and P-216C.	116 and 216 series Q tanks	ISA-03 ADU Conversion
10236	V-116B pump suction pressure measurement	The net positive suction head on the B pump is inadequate. Vibration is observed due to cavitation and has caused pump and pump seal failure problems. A combination pressure gage (store room #35023)vaccum pressure gage reads 30" HG vac to 15 psig will be installed at the bottom 1" drain on the suction pipe of B tank. There will be a Tee to allow drain of the suction line to ensure that it is completely filled with liquid. This installation will be removed upon the conclusion of the pressure test.	This is a temporary installation to define the pump suction problem and actually measure the suction pressure with a combination pressure gage. Cubex- our consultant strongly advise us to do this mesurement before Cubex can made their final recommendations	Q tank V116B	ISA-03 ADU Conversion
10237	Drainage of Plating Room Scrubber	Add and acid resistant flex hose to the plating room scrubber drain line. This hose will be located between the scrubber and the sump. The flex hose will go to a 55 gallon drum.	The current setup drains to a sump. The sump is drained to a tankand then the tank is pumped toa 55 gallon drum. This setup will allow for draining directly ingo a 55 gallon drum	Plating Room Scrubber Drain Line	Clean Side Rod Area
10238	Replace Television in IFBA Team Room	Replace the existing television in the IFBA team room with a flat panel television similar to those installed in the conference rooms.	This television replacement is part of a project to improve/update the IFBA team room.	IFBA Team Room	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
10239	Erbia Blender Dumphood Software Update	Upgrade Erbia Dumphood from Visual Basic 6.0 to Visual Basic.NET 2008	VB6 not supported by Microsoft anymore. Age of old app. Better communication and interface in newer version of the software Easier to make future changes to. This change is also being made to the ADU Dumphood by CCF 09824. This change will result in all SSCs related to the dumphood being verified after the software changean ITRand qualification of the new software. Contact Ahmad Lewis x3684 for questions.	Erbia Blender Dumphood	ISA-20 ERBIA
10240	Bulk Container Safety Chock Modification	Change the safety chock pivot arm design to provide more clearance for inputting bulk containers into the Pelleting Deerstands.	Refer to CCF#10076. This change will be the same as the Erbia Safety Chocks. The Erbia Safety Chocks have been modifiedinstalled and proven a success. The ADU Safety Chocks were installed too high and as such there is a major safety concern when inputing an bulk container into the Deerstand. The crane technicians can not raise the limit switch anymore and the bulk container still hits the safety chock pivot arms when they enter the deerstand. Operators are freqently exposed to dangerous conditions by having to struggle to get heavy ADU bulk containers over the chocks. Lowering the chock pivot arms 1 inch will help the operators gain the clearance they need to safely move the bulk container in the stand. This change does not affect any SSCs. The modification will occur on all lines over the upcoming shutdown. The drawings for the safety chock pivot arm assembly are an area specific drawing package.	ADU Pelleting Deerstand	ISA-05 ADU Bulk Powder Blending

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CCF	Title	Description	Justification	Location	ISA ID
10242	Relocate Valve Rack on IFBA Gamma Scanner	Relocate Valve Rack on IFBA Gamma Scanner	The valve rack is very difficult to maintain. It is located under the Gamma Scanner in a panel. It is not accessable. There are no "location drawings" on this equipment. We will not be changing the electrical or pneumatic drawings so no drawings will be affected. We will be relocating an 8 valve miniature solenoid rack about 3 ft. from its current location. We will be moving it from underneath the back side of the gamma scanner to a "support leg" for the rod conveyor. This is a low voltage 24Vdc valve rack. We have the area engineers (Craig Amick) approval to relocate to this location.	IFBA Passive Gamma Scanner (not Erbia area)	ISA-12 IFBA Fuel Rod Manufacturing
10243	Electrical power for HP Server Rack for the Voice Network	A voice network server rack is being installed in the Switch Room (Telephone Room 3) for the telephone system upgrade in May 2010. UPS and SCE&G power needs to be routed to the rack to support the equipment that will be installed in the rack. Determine the correct RTU to use for the rack. Determine the drawings that will need to change. Install conduit and power cables connecting the rack to the power source. Install the RTU.	Columbia PBX Upgrade requires this rack for the installation of servers and support equipment.	Switch Room (Telephone Room 3)	Grounds
10244	Install New Zeiss CMM Machine	Replace the old CMM Machine in the Tool ang Gage Room with a new Zeiss CMM Machine	The Tool and Gage needs a CMM Machine that is capable of being able to calibrate inspection tools fastermore accurate and less operator dependent	Tool and Gage Department	Grounds
10245	Replace 5-convolute expansion joints with 3-convolute expansion joints at P-1192	Replace 5-convolute expansion joints with 3-convolute expansion joints at P-1192. P-1192 is an air diaphragm pump that pumps hydrofluoric acid off of the tanker into T-1174. The 3-convolute expansion joints are shorter so slight piping modifications will be required.	The 3-convolute expansion joints have a higher pressure rating and will be safer in the case of an abnormal condition.	HF Bulk Storage	ISA-06 Chemicals ReceiptHandling and Storage

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CCF	Title	Description	Justification	Location	ISA ID
10246	Replace 5-convolute expansion joints with 3-convolute expansion joints at P-1191	Replace 5-convolute expansion joints with 3-convolute expansion joints at P-1191. P-1191 is an air diaphragm pump that recirculates the T-1191 vent tank while offloading hydrofluoric acid. It is also used to pump HF contaminated waste to T-1147 for neutralization. The 3-convolute expansion joints are shorter so slight piping modifications will be required.	The 3-convolute expansion joints have a higher pressure rating and will be safer in the case of an abnormal condition.	HF Bulk Storage	ISA-06 Chemicals ReceiptHandling and Storage
10247	Replace UF6 Valves and Actuators	Replace the valves and actuators currently installed in Line 5 UF6 and N2 lines.	The Xomox valves were purchased with Hydrogenous lubricant due to an error in the valve purchase specification. The Hytork actuators were oversized by the supplier and could cause damage to the valve stem if the plug would become locked. The existing valves will be replaced with the same model except the valves will be Oxygen Cleaned and have Krytox GPL 206 non-hydrogenous lubricant applied. The actuators for the 1" valves will be modified with different springs with reduced force. The actuator for the 1/2" valves will be replaced with a smaller actuator with reduced force springs.	UF6 Bay and by V502 in Conversion	ISA-03 ADU Conversion
10248	Switched Outlet for IFBA APVIS Vac	We will be installing a switched out for IFBA's AVIS tray loader vacuum. This will eliminate a trip hazard and the need for an operator to lean over every few trays to turn on/off a vacuum.	To address a customer concern regarding the cord being a trip hazard (plugged into an adjacent wall) which led to a CAPs Commitment. No SSCs...	IFBA APVIS Tray Loader Table	ISA-14 IFBA Processing
10250	Chem. MRO Tool Crib Window Hallway Lts.	We will be adding 2 highbay 6 tube florecent fixtures to the hallway above the Chem. side MRO Tool Crib window.	Inadequate lighting No SSCs....	Chem. MRO Tool Crib Window Hallway	Miscellaneous

CCF	Title	Description	Justification	Location	ISA ID
10251	Replace Safety Shower 1-23 (WG-5) with and ENCON Electric Heated Unit	Replace Safety Shower 1-23 (WG-5) with and ENCON Electric Heated Unit.	The current model is a B-L-S Industries Electric Heated Unit. It is the only safety shower of this type on site. It is obsolete and difficult to get parts. The Encon Unit specified is the same as other units installed in Outside URRS.	Waterglass Scrubber Platform	Grounds
10252	Remove unused Precipitator Column V-205A & Pump P-205A	Remove unused column V-205A P-205 and pump base. When column is removed LIC-205A LCV-205A TI-205A and FSL-205A will also be removed or isolated.	Remove unused column to provide more floor space and eliminate possibility of leaks.	Line 2 Precipitator Column	ISA-03 ADU Conversion
10253	Remove unused Precipitator Column V-305B & Pump P305B	Remove unused column V-305B P-305B and pump base. When column is removed LIC-305B LCV-305B TI-305B and FSL-305B will also be removed or isolated.	Remove unused column to provide more floor space and eliminate possibility of leaks. Similar to CCF 10-252	Line 3 Precipitation	ISA-03 ADU Conversion
10255	Remove unused Precipitator Column V-405A & Pump P405A	Remove unused column V-405A P-405A and pump base. When column is removed LIC-405A LCV-405A TI-405A and FSL-405A will also be removed or isolated.	Remove unused column to provide more floor space and eliminate possibility of leaks. Similar to CCF 10-252	Line 4 Precipitation	ISA-03 ADU Conversion
10256	SST Wall Cover Outside ADU Mens Change Room	Install a stainless steel cover over the painted concrete wall outside the entrance to the ADU men's change room. This wall is at the end of the aisle between Conversion and Pelleting.			
10257	Add Receptacle for Manual Electrode Grinder	Add Receptacle for Manual Electrode Grinder	We have a new Electode Grinder with requires power	Strap punching area next to sleeve slotters	Clean Side Rod Area
10260	Remove Obsolete Piping From Tank Farm	Remove the Supply and Return Lines That Supplied Cooling Water from the Chiller to the Helium Compressor	The lines are no longer needed	Chiller to Helium Compressor	Grounds
10261	Remove Obsolete HF Tank T-1173	Remove Obsolete HF Tank T-1173	The T-1173 tank was decommissioned in 2000 and has stood idle since. It is no longer useful and the space it occupies in the containement dike needs to be used for a new DI water system.	HF Bulk Storage Pad	ISA-06 Chemicals ReceiptHandling and Storage

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CCF	Title	Description	Justification	Location	ISA ID
10262	Apply a silica carbide filled vinyl-ester coating to the HF Storage pad	Apply a silica carbide filled vinyl-ester coating to the HF Storage pad.	The HF Containment Dike liner is degraded to the point that it is no longer repairable. There are visible holes and areas wher rain water is getting trapped beneath the liner. A chemical coating adheared to the concrete will hold up better over time and be repairable if it gets damaged.	HF Bulk Storage Pad	ISA-06 Chemicals ReceiptHandling and Storage
10263	Allow XV-x02A&B valves to be interchangeable between Durco and Camtite	Allow XV-x02A&B valves to be interchangeable between Durco and Camtite actuated valves ADUHYD-905 will need to be tested upon replacement	Both types of valves in this application have experienced valve stem leaking. It is necessary to be able to install whichever type of valve is available in the event of a leak. This will be a like-kind substitution for all future replacements on XV-x02A&B.	valves on UF6 line going to V-x02	ISA-03 ADU Conversion
10264	Re-Build Shop Balance Machine	We will be replacing the old VFD and DC Motor on the balance machine with a new ABB ACS350 drive and AC motor. We will also be installing interlocks to the new fence/enclosure surrounding the equipment to making sure all doors are closed during operation to ensure personnel safety.	The current DC Drive and motor takes up too much floor space and is obsolete. The existing fence is not interlocked. No SSCs....	Chemical Side Re-Build Shop	Miscellaneous
10266	HF Storage Diaphragm Pump Change	Manufacture changed the design of the Wilden diaphragm pump from a clamped supply/discharge manifold design to a bolted design.	Clamped manifold design is obsolete due to safety reasons. New pump was designed to improve premature leaks and failure.	HF Storage	Grounds
10267	Heater H2A and H2B Pressure Switch Tubing	Modify differential air pressure switch tubing on H2A and H2B heaters to match the 1030 heater installation.	Commonality of the pressure switch setup for both systems will be easier to maintain.	Conversion Scrap Cage Area	ISA-01 Plant Ventilation System
10268	Filter Housing Reinforcement	Reinforce the roof and floor of filter house 1A with external structure per the manufacturer's recommendations.	Decreases the deflection of the roof and floor of the filter house.	Rooftop platform over Conversion	ISA-01 Plant Ventilation System
10269	Filter House 1B Reinforcement	Reinforce the roof and floor of filter house 1B with external structure per the manufacturer's recommendations.	Decreases the deflection of the roof and floor of the filter house.	Rooftop platform over Conversion	ISA-01 Plant Ventilation System

CCF	Title	Description	Justification	Location	ISA ID
10270	Emergency CCF to change out UF6 Valves	Change out UF6 valves (H&I and Keyed Vaporizer block valve) that are leaking with a Xomox valve with a stainless steal plug on Conversion Line One.	While conducting pressure checks on conversion line oneoperations determined that the H&I valves and the keyed UF6 block valve needed to be changed due to leakage at the stem. The suggested valve approved for this application is a Xomox valve with a Monel plug. Howeverthere are not any of these valves in stores. This CCF is to replace these valves with a Xomox valve with a stainless steel plug. The replacement valves are on order and will arrive in time to change the back to the Xomox valve with the Monel plug during the "C" cycle.	Conversion Line 1 UF6 Lines	ISA-03 ADU Conversion
10273	Move computer and printer in Tube Prep	Move the computer (CLAMS486) and printer that is currently located on the east facing wall outside of the Tube Prep Team Manager's office to east facing wall adjoining the team managers office. The computer will be located on the other side of the wall of the Team Managers computer.	To create more space in the area	Near Line 8 in Tube Prep	Clean Side Rod Area
10274	UPS#2 Install Additional BreakerNew UPS and Power Distribution Panel	Install replacement UPS in Equipment Room for UPS #2. Phase one consists of adding a 300 Amp breaker to existing Power Distribution Panel EPP-9AA relocating storage cabinets installing new UPS (in location previously occupied by the storage cabinets) and Installing UPS Power Distribution Panel.	Existing Liebert UPS is obsolete and has limited life expectancy as well as significantly higher annual maintenance support costs (due to the obsolescence).	Equipment Room above Mechanical Side Electrical Shop	Grounds
10275	UPS #2 Replacement Tie-In	Determinate EPP-911 250Amp breaker (feeding existing 230VAC bypass transformer). Refeed transformer from new UPS Power Distribution Panel. Tie-In New UPS and place On-Line. Place Old UPS in bypass mode.	Existing Liebert UPS is obsolete and has limited life expectancy as well as significantly higher annual maintenance support costs (due to the obsolescence).	Equipment Room above Mechanical Side Electrical Shop	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10277	Drain Pipe Shield	Install a stainless steel shield around the drain pipe against the wall adjacent to the IFBA fixture loading table. This shield will bolt to the concrete block wall. The shield will be oriented vertically (in alignment with the drain pipe) and installed such that the bottom is approximately 6 inches off of the floor. The shield will be 7 feet long (top to bottom). Both the top and the bottom will be open.	This shield is needed to eliminate a foreign material concern in the fixture loading area.	Wall adjacent to fixture loading table	ISA-14 IFBA Processing
10279	Conversion of Hand Railing to Stainless Steel	Replace all painted carbon steel hand railing with an unpainted stainless steel hand railing. All designs are like kind. Only material is being changed.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Lines 1-6 Grinder to D&VPilot Line	ISA-08 Pelleting
10280	Add high level audible alarm to torit 993-B	Add high level audible alarm to torit 993-B	Needed to meet CSE requirements	URRS bay	ISA-01 Plant Ventilation System
10282	Stainless Covering on Line 6 Cabinet	Affix a thin-gage stainless steel sheet to the lower back of the Line 6 grinder electrical cabinet. 2 36x20 flat rectangular sheets will be used and affixed to the cabinet using an industrial adhesive. Sheets will be cut and fitted as necessary to ensure proper coverage though no bending of the sheets will occur. No modifications will be performed on the cabinet itself.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 6 Grinder Electrical Cabinet	ISA-08 Pelleting
10283	Balancing Machine Safety Guard	Replace the 3 foot tall fixed front panels of the safety guard for the maintenance balancing machine with a hinged pair with a double lever. Modification to the tubular frame will be necessary to increase the overall stiffness of the frame.	The hinged pair will allow for better access into and out of the safety guard.	Maintenance Rebuild	Miscellaneous

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10284	Modifications to D&V Hood Tray Fixtures	Modify the tray fixtures at the D&V hood to eliminate possible interference when the tray scale is fully engaged. This will include modification of the backplate guide spacer holes and the addition of extra positioners.	Inspectors from the NRC concluded that the current method of measuring trays is prone to error and is not readily repeatable. This is due to much of the interference that is caused by interactions between the tray and much of the alignment equipment. Further investigation has pinpointed exact locations of interference. This modificationin tandem with the increased stroke of the tray scalewill eliminate interference issues.	Area D&V Hoods	ISA-08 Pelleting
10286	Oxide Coater 2 Polishing Wheel Retainer Fix	Modify the polishing wheel's retaining mechanism to prevent the polishing wheel from moving when loose. This modification will allow for a greater range of placement of the blocking plate than the previous design.	When the polishing wheel is not in the correct positionthe tubes may be only partially polished or not polished at all. This causes rework and possible scrapped tubes.	CFFFOxide Coater 2	Clean Side Rod Area
10287	Add audible alarm to dry trash scales	Add audible alarm to dry trash scales so that when drum full light turns on an audible alarm turns on as well. The alarm remains on until the drum weight is reduced to below the drum full limit.	To ensure person placing trash in drum is even more aware that drum is too full.	URRS Bay	ISA-13 Low Level Radioactive Waste Processing
10288	Add audible alarm to wet trash scales	Add audible alarm to wet trash scales so that when drum full light turns on an audible alarm turns on as well. The alarm remains on until the drum weight is reduced to below the drum full limit.	To ensure person placing trash in drum is even more aware that drum is too full.	URRS Bay	ISA-13 Low Level Radioactive Waste Processing
10289	Uranium Extractor Modification - Agitater Washer 2	Modify Agitator Washer #2 (right-hand side as viewed from front) as follows: 1. Modify skins around washer to mitigate leakage and condensation build-up underneath the machine. 2. Cut the frame and add clips to allow for increased access to the underside of the machine. Note that the facility construction sheets the work described will be executed to have been routed under CCF10184. This CCF and CCF 10184 have been cross-linked in matrix using the related documents function.	Approved project.	ADU Scrap Cage	ISA-11 Scrap Uranium Processing

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CCF	Title	Description	Justification	Location	ISA ID
10291	Stainless Steel Shelving on Line 1 Furnaces	Line the shelving found on both sides of the furnace and atop the exit pusher cover with a thin-gage stainless steel sheet. Shelving will be lined with 11" wide flat rectangular sheets of varying lengths to accommodate the different shelf sizes found on the different furnaces and affixed with rivets or screws into the existing shelving framework. The exit pusher cover will be topped with a 32x34 flat square sheet affixed to the cover using an industrial adhesive. In both cases sheets will be cut and fitted as necessary to ensure proper coverage though no bending of the sheets will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 1 Furnace Shelving	ISA-08 Pelleting
10292	Stainless Steel Shelving on Line 2 Furnaces	Line the shelving found on both sides of the furnace and atop the exit pusher cover with a thin-gage stainless steel sheet. Shelving will be lined with 11" wide flat rectangular sheets of varying lengths to accommodate the different shelf sizes found on the different furnaces and affixed with rivets or screws into the existing shelving framework. The exit pusher cover will be topped with a 32x34 flat square sheet affixed to the cover using an industrial adhesive. In both cases sheets will be cut and fitted as necessary to ensure proper coverage though no bending of the sheets will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 2 Furnace Shelving	ISA-08 Pelleting

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10293	Stainless Steel Shelving on Line 3 Furnaces	Line the shelving found on both sides of the furnace and atop the exit pusher cover with a thin-gage stainless steel sheet. Shelving will be lined with 11" wide flat rectangular sheets of varying lengths to accommodate the different shelf sizes found on the different furnaces and affixed with rivets or screws into the existing shelving framework. The exit pusher cover will be topped with a 32x34 flat square sheet affixed to the cover using an industrial adhesive. In both cases sheets will be cut and fitted as necessary to ensure proper coverage though no bending of the sheets will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 3 Furnace Shelving	ISA-08 Pelleting
10294	Stainless Steel Shelving on Line 4 Furnaces	Line the shelving found on both sides of the furnace and atop the exit pusher cover with a thin-gage stainless steel sheet. Shelving will be lined with 11" wide flat rectangular sheets of varying lengths to accommodate the different shelf sizes found on the different furnaces and affixed with rivets or screws into the existing shelving framework. The exit pusher cover will be topped with a 32x34 flat square sheet affixed to the cover using an industrial adhesive. In both cases sheets will be cut and fitted as necessary to ensure proper coverage though no bending of the sheets will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 4 Furnace Shelving	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10295	Stainless Steel Shelving on Line 5 Furnaces	Line the shelving found on both sides of the furnace and atop the exit pusher cover with a thin-gage stainless steel sheet. Shelving will be lined with 11" wide flat rectangular sheets of varying lengths to accommodate the different shelf sizes found on the different furnaces and affixed with rivets or screws into the existing shelving framework. The exit pusher cover will be topped with a 32x34 flat square sheet affixed to the cover using an industrial adhesive. In both cases sheets will be cut and fitted as necessary to ensure proper coverage though no bending of the sheets will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 5 Furnace Shelving	ISA-08 Pelleting
10296	Line 1 Pan Kanban Shelf SS Cover	Affix thin-gage stainless steel sheeting to exterior painted surfaces of the pan kanban shelf. This consists of the corners and base of the shelf. A 64x4 rectangular sheet bent 90 degrees at the center will be affixed to each of the corners of the shelf a combination of screws and industrial adhesive. A combination of a 113x7 rectangular sheet with 2 90 degree bends and a single 57x7 flat rectangular sheet will be used to line the base of the shelf affixed using industrial adhesive and screws. Sheets will be cut and fitted as necessary to ensure proper coverage and no further bending aside from what is noted will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Pan Kanban Shelf at Grinder	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10297	Line 2 Pan Kanban Shelf SS Cover	Affix thin-gage stainless steel sheeting to exterior painted surfaces of the pan kanban shelf. This consists of the corners and base of the shelf. A 64x4 rectangular sheet bent 90 degrees at the center will be affixed to each of the corners of the shelf a combination of screws and industrial adhesive. A combination of a 113x7 rectangular sheet with 2 90 degree bends and a single 57x7 flat rectangular sheet will be used to line the base of the shelf affixed using industrial adhesive and screws. Sheets will be cut and fitted as necessary to ensure proper coverage and no further bending aside from what is noted will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Pan Kanban Shelf at Grinder	ISA-08 Pelleting
10298	Line 3 Pan Kanban Shelf SS Cover	Affix thin-gage stainless steel sheeting to exterior painted surfaces of the pan kanban shelf. This consists of the corners and base of the shelf. A 64x4 rectangular sheet bent 90 degrees at the center will be affixed to each of the corners of the shelf a combination of screws and industrial adhesive. A combination of a 113x7 rectangular sheet with 2 90 degree bends and a single 57x7 flat rectangular sheet will be used to line the base of the shelf affixed using industrial adhesive and screws. Sheets will be cut and fitted as necessary to ensure proper coverage and no further bending aside from what is noted will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Pan Kanban Shelf at Grinder	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10299	Line 4 Pan Kanban Shelf SS Cover	Affix thin-gage stainless steel sheeting to exterior painted surfaces of the pan kanban shelf. This consists of the corners and base of the shelf. A 64x4 rectangular sheet bent 90 degrees at the center will be affixed to each of the corners of the shelf a combination of screws and industrial adhesive. A combination of a 113x7 rectangular sheet with 2 90 degree bends and a single 57x7 flat rectangular sheet will be used to line the base of the shelf affixed using industrial adhesive and screws. Sheets will be cut and fitted as necessary to ensure proper coverage and no further bending aside from what is noted will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Pan Kanban Shelf at Grinder	ISA-08 Pelleting
10300	Line 5 Pan Kanban Shelf SS Cover	Affix thin-gage stainless steel sheeting to exterior painted surfaces of the pan kanban shelf. This consists of the corners and base of the shelf. A 64x4 rectangular sheet bent 90 degrees at the center will be affixed to each of the corners of the shelf a combination of screws and industrial adhesive. A combination of a 113x7 rectangular sheet with 2 90 degree bends and a single 57x7 flat rectangular sheet will be used to line the base of the shelf affixed using industrial adhesive and screws. Sheets will be cut and fitted as necessary to ensure proper coverage and no further bending aside from what is noted will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Pan Kanban Shelf at Grinder	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10301	Line 6 Pan Kanban Shelf SS Cover	Affix thin-gage stainless steel sheeting to exterior painted surfaces of the pan kanban shelf. This consists of the corners and base of the shelf. A 64x4 rectangular sheet bent 90 degrees at the center will be affixed to each of the corners of the shelf a combination of screws and industrial adhesive. A combination of a 113x7 rectangular sheet with 2 90 degree bends and a single 57x7 flat rectangular sheet will be used to line the base of the shelf affixed using industrial adhesive and screws. Sheets will be cut and fitted as necessary to ensure proper coverage and no further bending aside from what is noted will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Pan Kanban Shelf at Grinder	ISA-08 Pelleting
10306	Install mag drive pumps on T-1040	Replace leak prone Wifly centifugal pumps with Goulds 3298 1 x 1.5 x 5 XS frame mag drive pumps. Add power monitors for pump run dry protection.	Stop leaking pumps - reduce operator exposurereduce maintenance costsreduce mechanic exposureimprove pump reliability	UN Bulk Storage pad	ISA-02 Uranyl Nitrite Bulk Storage Tanks
10307	Install mag drive pumps on T-1042	Replace leak prone Wifly centifugal pumps with Goulds 3298 1 x 1.5 x 5 XS frame mag drive pumps. Add power monitors for pump run dry protection.	Stop leaking pumps - reduce operator exposurereduce maintenance costsreduce mechanic exposureimprove pump reliability	UN Bulk Storage pad	ISA-02 Uranyl Nitrite Bulk Storage Tanks
10308	Install mag drive pumps on T-1043	Replace leak prone Wifly centifugal pumps with Goulds 3298 1 x 1.5 x 5 XS frame mag drive pumps. Add power monitors for pump run dry protection.	Stop leaking pumps - reduce operator exposurereduce maintenance costsreduce mechanic exposureimprove pump reliability	UN Bulk Storage pad	ISA-02 Uranyl Nitrite Bulk Storage Tanks
10309	Security Office Rennovation	We will be relocating the Site Security Manager's office from HR to the new Security Office which was the old Mail Room. We will be installing required electrical outlets and data services. We will be adding two simplex speakers to the dual purpose office area.	HR Mgr needs the space. New Site Security Manager has to be located in Security office. No SSCs....	Security Office	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
10310	SS Cover of Centrifuge Cooling System Cabinet	Affix a thin-gage stainless steel sheet to side of the centrifuge control cabinets facing the furnace. A 24x8 flat rectangular sheet will be used and affixed to the cabinet using an industrial adhesive. Sheets will be cut and fitted as necessary to ensure proper coverage though no bending of the sheets will occur. No modifications will be performed on the cabinet itself.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Lines 1-4 Centrifuge Control Cabinets	ISA-08 Pelleting
10311	Line 3 Storage Table Cover	Cover edge of storage table found between Line 3 grinder and D&V with a thin-gage stainless steel sheet. An approximately 36x4 rectangular sheet bent 180 degrees at the center will be affixed to the edge of the carbon-steel table using a combination of screws and industrial adhesive. Sheets will be cut and fitted as necessary to ensure proper coverage and no further bending aside from the 180 bend will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 3 Storage Table	ISA-08 Pelleting
10312	Line 4 Storage Table Cover	Cover edge of storage table found between Line 4 grinder and D&V with a thin-gage stainless steel sheet. An approximately 36x4 rectangular sheet bent 180 degrees at the center will be affixed to the edge of the carbon-steel table using a combination of screws and industrial adhesive. Sheets will be cut and fitted as necessary to ensure proper coverage and no further bending aside from the 180 bend will occur.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 4 Storage Table	ISA-08 Pelleting
10313	Security Office Modification	Move internal wall that separates the security office and the new Site Security Manager office approximately 32" south(towards the security office area). Install R-13 insulation on internal walls of the Manager's office and the east wall of the security office. Also install a drop ceiling in the Manager's office approximately 12" from the existing ceiling.	The Security Conference/Storage area needs to be modified to be used as the Site Security Managers office. Insulation will be used to damper noise.	Security Office	Miscellaneous

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CCF	Title	Description	Justification	Location	ISA ID
10314	Replace MCC Breaker to HP Vacuum Pumps	Increase the size of feed breaker to HP Air Sampling system vacuum pumps on the Roof.	The pumps have large rotating mass and take time to "spin up". If pumps are swapped or cycled the existing breaker in the UF6 bay overheats and the pumps have to be kept down until breaker cools. This also requires coordination between the roof and the UF6 bay to reset the breaker. The existing breaker in the UF6 bay (MCC1400) is a 90 Amp breaker (current drawing shows as 150A). The wire is 1/0l intend to move to a 125 amp breaker. Each motor is protected locally at the pumps by 100 breakers and motor starters.	HP vacuum pumps on the Roof	Miscellaneous
10315	Dock Hoist Buss Bar Replacement	We will be replacing exposed buss bars on a hoist located on the Maint Dock with a Retractable Reel.	An Electrician was carrying an 8 stick of conduit and it struck the "I" Beam located next to the 480v buss bar of servicing the hoist. This was a near miss. No SSC's... Machine Safety... No dwg's to be updated. The svc. will remain the same.	Maintenance Dock Hoist	Clean Side Rod Area
10316	KOP-GRID Coupling Lubrication	Add Mobilgrease XTC grease(see attached MOBIL GREASE XTC file for specifications) to MCP-108121 to specify the lubricant for the Hot Oil System # 3 & #4 Pumps Line 1 & 2 Downdraft FN-1564 & Line 3 & 4 Downdraft FN-1714 couplings. The Hot Oil pumps use a KOP-GRID 1030T31 coupling. The Downdraft Fans use a KOP-GRID 1050T10 coupling. See attached KOP-FLEX COUPLING file for specifications.	See attached VIBRATION ANALYSIS REPORTS file.	ADU Conversion \ Hot Oil Room System #3 & #4 Pumps & ADU Pelleting \ Line 1 - 4 Downdraft Fans	ISA-03 ADU Conversion
10318	Install Drain Line on the Round Tank T-1116	Install drain line on the Round Tank T-1116. The line will drain to the East Lagoon.	Solids can adhear to the walls of the round tank. Operations is slated to inspect and clean T-1116 per OM 85031. Currently in order to pump out the solid materialoperations need to use portable pumps with hoses and extension cords. This change will greatly simplify and expedite the clean out.	T-1116 Round Tank	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
10319	Add hitch to IFBA Casket Cart	Add hitch to IFBA casket cart for the trial of a motorized cart mover. Only the cart that sits on the dock outside of maintenance will be modified for this trial.	2 injuries in the past few months have been sustained moving this cart.	IFBA Casket Cart located on maintenance dock	ISA-12 IFBA Fuel Rod Manufacturing
10320	Remove Obsolete Level Float Switch and Alarm at North Lagoon	Remove Obsolete Level Float Switch and Alarm at North Lagoon	The float switch and alarm system have not functioned in a long time. It is not necessary for lagoon function. It is eye sore and clutters a tight space for routine maintenance work.	North Lagoon Pump Station	Grounds
10321	Remove Obsolete Equipment at the East Lagoon Pump	Remove Obsolete Equipment at the East Lagoon Pump. Examples include remmenants of the lagoon sample pump which has be 99% removed and a conductivity level probe and welding recepticle which has no electrical connections.	This equipment is an eyesore and in the way of maintenance activity on the pump platform.	P-1130 East Lagoon Pump Platform and MCC Bucket	Grounds
10322	Upgrade P-1173 and P-1174 HF Acid Pumps	Upgrade P-1173 and P-1174 HF Acid Pumps with a Goulds Model 3298 XS. This is a mag drive pump with a ductile iron head lined with Tefzel. The impeller CFR Tefzel.	The current model has had frequent failures and has a plastic plug on the pump head. The plug is a feature for bleeding off air in the pump head to decrease cavitiation after repairs. Not only is this unsafe with a pressurized HF serviceit can be inadvertly damaged and cause an immediate loss of containment.	HF Acid Bulk Storage	ISA-06 Chemicals ReceiptHandling and Storage
10323	T-20 Tank Discharge Piping Orifice Plates	Install restricting orifice plates in the T-20 tank recycle line T-19 tank feed line and T-41 tank feed lines from the T-20 pumps.	Pumps are cavitating from running off the pump curve due to lack of head pressure. Restricting orifice plates will increase head pressure bringing flow rate back to the pump curve eliminating cavitation.	URRS - Tank Farm	Grounds
10326	Freon Alarm By-Pass for Equipment Room 1	Install a by-pass switch for the external freon horn/lights. This will be used to silence the horns when we have equipment malfunctions or maintenance is being performed. There will be a flashing lamp at the unit when the system is in bypass to ensure that that the switch is returned to the normal mode when maintenance is complete.	When we have instrument malfunctions or maintenance needs to calibrate / test the Freon detector we need a way to silence the external alarms at each entrance.	Freon Detector in Equipment Room 1	Clean Side Rod Area

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CCF	Title	Description	Justification	Location	ISA ID
10327	Freon Alarm By-Pass for Equipment Room 3	Install a by-pass switch for the external freon horn/lights. This will be used to silence the horns when we have equipment malfunctions or maintenance is being performed. There will be a flashing lamp at the unit when the system is in bypass to ensure that that the switch is returned to the normal mode when maintenance is complete.	When we have instrument malfunctions or maintenance needs to calibrate / test the Freon detector we need a way to silence the external alarms at each entrance.	Freon Detector Equipment Room3	Clean Side Rod Area
10328	Freon Alarm By-Pass for IFBA Equipment Room	Install a by-pass switch for the external freon horn/lights. This will be used to silence the horns when we have equipment malfunctions or maintenance is being performed. There will be a flashing lamp at the unit when the system is in bypass to ensure that that the switch is returned to the normal mode when maintenance is complete.	When we have instrument malfunctions or maintenance needs to calibrate / test the Freon detector we need a way to silence the external alarms at each entrance.	Freon Detector in the IBFA Equipment Room	ISA-14 IFBA Processing
10329	Install "Inspection Rollers" on fixture unload table	Remove the "Que Plate" (item 148) from fixture unloading table (803F01EQ01) and install IFBA Inspection Rollers in it's place.	Quality Improve IFBA pellet inspection during the fixture unloading process	IFBAFixture unloading table	ISA-14 IFBA Processing
10331	Coater 8 Cathode Quick Disconnect	Install new quick disconnect plugs and receptacles on Coater 8 cathodes.	The existing quick disconnects are not robust and fail due to loose connections.They also have no latching means to keep the plug and receptacle from separating. The new ODU plug has a higher voltage rating and self latching mechanism. This new plug also has crimp wire connections which are more robust than existing screw connections.	IFBA 1st. floor Coater 8	ISA-14 IFBA Processing

CCF	Title	Description	Justification	Location	ISA ID
10332	Installation of High Effeciency cathodes and Power Supplies on IFBA Coater #8	Remove current target tiles. Remove six (6) cathodes and install six (6) High Effeciency (HE) cathodes. Install current target tiles and modified target tiles to the HE cathodes. Install six (6) flux magnet power supplies and wiring to operate with the HE cathodes. Modify programming as required to utilize new power supplies with flux magnets (embedded in new cathodes). (No Safety Significant Controls Are Affected by this Modification)	The High Effeciency cathodes will reduce cycle time (by allowing increase in power supply output to cathodes) and increase target utilization.	IFBA	ISA-14 IFBA Processing
10333	T-41 Tank Ladder & Handrail	Install ladder and handrail around the top of the T-41 tank.	Ladder and handrail being removed from tank T-1173 which is being removed and scrapped. Conservation vent on top of T-41 requires periodic maintenance.	URRS Tank Farm	ISA-15 URRS Wastewater Treatment System
10335	ADU Supply cart extensions	Add extension parts (up to 4 one per line) to ADU rod line supply carts. Stands will raise the height of the cart by approximately 24". Neither the current cart or the stand will have enclosed area (no doors).	Currently the carts are too low for operators to effectively use. Raising the carts will allow the operators to use them and will also be part of the area 5S program.	Pellet tray station on the loading table.	ISA-10 ADU Rods
10337	IFBA Mop Water Vacuum Wand	Install a vacuum wand on the suction side of pump P-7094 to be used to empty mop buckets. This vacuum wand will be isolated with a manually actuated ball valve.	This will provide a safe method for operators to empty mop buckets in IFBA. Currently mop buckets must be lifted and manually emptied into the standpipe.	IFBA Scrap Area	ISA-14 IFBA Processing
10338	Replace #5 vaporizers hydraulic level bullseyes	V501A and V501B vaporizers have nonhydrogenous oil hydraulic units to open and close the lids on this equipment. Inaccurate bullseye oil level indicators will be replaced on the hydraulic units with vented liquid level indicators. SSCs SV S-501A-24 SV S-501B-24 SV S-501A-26 SV S-501B-26 SV S-501A-27 SV S-501B-27 SV S-501A-25 SV S-501B-25 stop the operation of the V501A and V501B vaporizers pumps when interlock conditions exist. An ITR will be performed to determine if these SSCs will be affected by this CCF.	When nonhydrogenous oil is added to V501A and V501B hydraulic units using the current bullseye level indicator the level is not sufficient to operate the pumps and lift the lids on the vaporizers. Replacing the inaccurate bullseye indication with an accurate vented liquid level indicator will allow Maintenance to add oil to the correct level for proper pump operation and eliminate the possibility of damage to the pumps.	V501A and V501B in UF6 Bay	ISA-03 ADU Conversion

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10339	Installation of pump controls for V-116A/B/C tanks	Provide controls and hardware to wire the Q-Tank (V-116A/B/C) pumps to the Experion DCS system. This will enable the operators to start and stop the pump and monitor the pump's status from the control room. Installation of pump controls will enable the operators to start and stop the pump and monitor the pump's status from the control room.	Installation of pump controls will enable the operators to start and stop the pump and monitor the pumps status from the control room.	ADU Q-Tanks	ISA-03 ADU Conversion
10340	T-1160B Level Indication	This CCF will modify the existing level transmitter installation at T-1160B: 1) Remove the instrument air purge line. 2) Install a 3" nozzle in place of the existing 1 1/2" nozzle on the bottom of the tank. 3) Install a 3" ball valve on the nozzle and mount the existing level transmitter on the valve.	Eliminate false level readings due to line blockage.	URRS / Outside / Waterglass	ISA-15 URRS Wastewater Treatment System
10341	Remote shutdown switches (E-STOP) on North American Boiler #1.	Install (2) manually operated remote shutdown switches(E-STOP's installed in series) on North American Boiler #1. Activation of these emergency shutdown switches shall immediately shut off the power to the burner control circuit thus shutting off the fuel supply to the Boiler. One switch will be mounted just inside the door of the Boiler House the other will be mounted on the exterior wall of the Boiler House and both will be labeled "Emergency Boiler Shutdown".	These shutdown switches are required per ASME CSD-1-2009 Controls and Safety Devices for Automatically Fired Boilers. The use of these switches will be covered in a Boiler Operating Procedure.	Boiler House #1	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10342	Remote shutdown switches (E-STOP) on North American Boiler #2	Install (2) manually operated remote shutdown switches (E-STOP's installed in series)on North American Boiler #2. Activation of these emergency shutdown switches shall immediately shut off the power to the burner control circuit thus shutting off the fuel supply to the Boiler. One switch will be mounted just inside the door of the Boiler House the other will be mounted on the exterior wall of the Boiler House and both will be labeled "Emergency Boiler Shutdown".	These shutdown switches are required per ASME CSD-1-2009 Controls and Safety Devices for Automatically Fired Boilers. The use of these switches will be covered in a Boiler Operating Procedure.	Boiler House #1	Grounds
10343	Remote shutdown switches (E-STOP) on Powermaster Boiler	Install (2) manually operated remote shutdown switches (E-STOP's installed in series) on the Powermaster Boiler. Activation of these emergency shutdown switches shall immediately shut off the power to the burner control circuit thus shutting off the fuel supply to the Boiler. One switch will be mounted just inside the door of the Boiler House the other will be mounted on the exterior wall of the Boiler House and both will be labeled "Emergency Boiler Shutdown".	These shutdown switches are required per ASME CSD-1-2009 Controls and Safety Devices for Automatically Fired Boilers. The use of these switches will be covered in a Boiler Operating Procedure.	Boiler House #2	Grounds
10344	Add Block Valve on Anhydrous Ammonia Vapor Line	Add Additional Block Valve on Anhydrous Ammonia Vapor Line	We had a small release due to a potential inadvertent bump on the only block valve on the anhydrous ammonia vapor line. An additional valve would add confidence that this line is isolated when we are not offloading.	Anhydrous Ammonia Bulk Storage	ISA-06 Chemicals ReceiptHandling and Storage
10345	Speaker for CR-102	Add a Fire Alarm speaker in conference room 102	Occupants of this conference room cannot hear announcements when the door is closed. This will increase the safety of personnel.	Conference Room 102	Miscellaneous

CCF	Title	Description	Justification	Location	ISA ID
10346	Move Line 5 Vaporizers Ventilation Flex Hose	The current Line 5 Vaporizers flex hose attached to the S2A and S2B Scrubber System will be moved to the ventilation system connection point that is closest to the door way at the west entrance to the Conversion Control Room. SSC VENT-S2A2B-107 (sketch RA-108-9) associated with the S2A and S2B scrubber system requires flex hoses feeding the 2A/2B scrubber be equipped with a screen to prevent foreign items from being introduced to the ventilation system. An ITR will be performed to evaluate impacts to the SSC by movement of the hose.	The current Line 5 Vaporizers ventilation flex hose is attached to the S2A and S2B Scrubber System at a connection point that does not allow safe access to both V505A and V505B. Also if left in the current position the hose will be damaged by movement of UF6 cylinders.	LIne 5 Vaporizers V505A and V505B	ISA-01 Plant Ventilation System
10347	Installation of pump controls for V-216A/B/C tanks	Provide controls and hardware to wire the Q-Tank (V-216A/B/C)pumps to the Experion DCS system. This will enable the operators to start and stop the pump and monitor the pump's status from the control room.	Installation of pump controls will enable the operators to start and stop the pump and monitor the pumps status from the control room.	QTANKS	ISA-03 ADU Conversion
10348	Install new rope cleaner bracket on rod line 4	Tooling has modified a rope cleaner support (366F06EQ01) to fit a new photo eye sensor. This CCF is to install that bracket on Rod line 4 for use with a new photoeye sensor at a future date. The drawing referenced above has already been modified. Similar work was performed under CCF-09675 on tube prep line 9.	The new photo eye will give better indication of when the rope spool is out. This is in responce to CAPs 06-129-C001.08.	Rope end cleaner rod line 4	ISA-10 ADU Rods
10349	Install new rope cleaner bracket on rod line 3	Tooling has modified a rope cleaner support (366F06EQ01) to fit a new photo eye sensor. This CCF is to install that bracket on Rod line 3 for use with a new photoeye sensor at a future date. The drawing referenced above has already been modified. Similar work was performed under CCF-09675 on tube prep line 9.	The new photo eye will give better indication of when the rope spool is out. This is in responce to CAPs 06-129-C001.08.	Rope end cleaner rod line 3	ISA-10 ADU Rods

CCF	Title	Description	Justification	Location	ISA ID
10351	Add 480V receptacle in the Shipping Container Repair Shed	Add 480V receptacle in the Shipping Container Repair Shed to provide a power source for the Air Conditioner.	Currently the person welding is often inside the container while welding. He is also wearing his PPE while welding. In the summertime this condition is a safety risk due to the extreme temperature. The new portable AC unit will provide the person welding cooling and an air flow to remove the fumes from the immediate work areawhile he is welding.	Weld repair Shed for shipping containers	Grounds
10352	Scanner #3 Rod Guide Rollers	Replace current guide rollers at entrance and exit of scanner with improved design.	Current rollers do not accommodate varying rod diameters and allow for significant rod movement which increases false defect rate.	Scanner # 3	ISA-10 ADU Rods
10353	Back Flow Preventer for wash down station.	Install a reduced pressure back-flow preventer in the city water supply to the wash down hose station located on the roof of the Mechanical Area. This wash down hose station is used to rinse the Grid Laser Scrubber Fan and associated duct when performing preventive maintenance.	This back-flow preventer will protect the potable water supply from contamination.	Mecanical AreaGrid Scrubber	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10354	2C Furnace Modifications	1. Remove lubricators from door cylinder air supply lines. Replace OEM regulator with Norgen regulator(S/R # 35040). Add Norgren filter(S/R # 35143) to supply line. See attached Norgren documents for regulator/filter specifications. Ref. CCF 09754 & 10044 Part 1 for similar changes. 2. Add pressure gage to natural gas inlet line. See attached McDaniels document for gage specifications. Add plug valve prior to pressure gage. See attached Swagelok document for plug valve specifications. Ref. CCF 09754 & 10044 Part 2 for similar changes. 3. Add valve to door cylinder air supply line. See attached Jamesbury document for valve specifications. Ref. CCF 09754 Part 4 & 10044 Part 3 for similar changes. 4. Add port to entrance and exit end furnace pressure monitoring lines. Ref. CCF 09754 Part 5 & 10044 Part 4 for similar changes. 5. Remake main pusher cover from Lexan. Ref. CCF 09754 Part 6 & 10044 Part 5 for similar changes. 6. Weld 3/16" thick carbon steel scab plates on inside of the furnace shell entrance end plate. See attached file for modification. Ref. CCF 09671 & 10044 Part 6 for similar changes.	1. Per the cylinder and solenoid manufacturerair lubrication is not required for cylinder and solenoid operation. This also alleviates the need to maintain lubricators that are not easily accessible. Dilapidated OEM regulator needs to be replaced. Filter is needed to prevent debris from entering regulator and solenoids. 2. Provides ability to check natural gas pressure at an individual furnace. Plug valve is to provide gas pressure isolation to replace gage when needed. 3. Provide method to relieve pressure from door supply line for LOTO. 4. Provide method to tie-in calibrated gage to verify proper magnehelic gage reading. 5. Provide improved viewing of main pusher operation. 6. To seal off weld burn thru holes from where the transition from the entrance muffle to the shell was previously welded to the entrance end plate.	ADU Pelleting \ 2C Sintering Furnace	ISA-08 Pelleting
10355	Dry Room Ceiling Tiles	Replace the existing ceiling tiles in the dry room with PVC tiles similar to those above Line 8 in Tube Prep.	This will address a foreign material concern identified in an internal FMEA.	Dry Room Ceiling	ISA-12 IFBA Fuel Rod Manufacturing
10356	Install arm to support cylinder wash fume vent	Install arm to support cylinder wash fume vent	Ease of operation. More stable/reliable placement of fume pickup.	Cylinder wash	ISA-09 UF6 Cylinder Wash
10357	Change cylinder wash motor and drive from DC to AC	Change cylinder wash motor and drive from DC to AC.	Existing DC drive and motor are obsolete and are causing operational problems.	Cylinder wash	ISA-09 UF6 Cylinder Wash

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10358	Add covered AVIS reject channel to line 9	Replace the existing SSt reject channel with a longer and deeper channel that is covered. The channel will be 12 gage SSt - 5" deep 3" wide and 184" long. The cover will be made from a thinner 18 gage stainless and made in 2 pieces so it is not heavy. ** This CCF is being re-routed because there was a slight design change involving the width of the lid and a part # was corrected on the BOM. **	The channel needs to be longer for the AP1000™ tubesdeeper to accomodate the potential tubes that can pile up over a weekend and covered to protect from foreign material.	Tube Prep - Line 9	Components
10361	Replace Line 8 Transition Pinch Roll Motor	Line 8 Pinch roll motor/gearbox is obsolete we have a recommended replacement in hand. This unit will require us to modify the mounting bracket and to relocate the rod present prox switch. The replacement motor/gearbox is 34R4BFC1-3F. This unit is already used on line 8 in another location.	Existing unit is obsolete and no longer available	Line 8 Tube prep on Mechanical side	Clean Side Rod Area
10362	Modify Tiger-Vac Drum Cart	Modify the caster configuration on the Tiger-Vac Drum cart to ensure longer life and continued mobility.	The current carts have ball transfer casterswhich collect sediment and dirt quicklytherefore rendering the roller bearings ineffective and consequently making the movement of the cart difficult. New casters that are designed for travel along the floor will be installed on carts to provide a longer life and easier replacement of casters when necessary.	Oxide Coaters Tiger-Vac Systems	ISA-17 Final Assembly
10363	Install Caustic Line with Flow Meter and Totalizer to East Lagoon	Install caustic line with flow meter and totalizer to East Lagoon.	Caustic needs to be metered into the East Lagoon to keep the pH above 7. This will make sure that additional solids from the bottom of the lagoon will not dissolve into the East Lagoon effluent. These dissolved solids can precipitate out and cause TSS problems in the river discharge stream.	East Lagoon Pump Platform	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10364	National Instruments cRio I/O Modules	The cRIO chassis are used for the remote monitoring of Crit Stations 14 and 17. This change will relocate the I/O modules on the cRio chassis.	Relocating the I/O modules will allow the cRIO chassis to be interchangeable between transmitter and receiver.	UF6 pad and HR Closet	Miscellaneous
10366	Reverse Engineering of Decanter Bearing Housings	Reverse engineering existing decanter bearing housings (feed end and discharge end).	No current detailed drawings for decanter bearing housings. This is intended to document existing modifications on both decanter bearing housings in a new formal drawing. This can be used as a reference for future modifications.	Conversion Line Decanters	ISA-03 ADU Conversion
10369	Install Shadow/Tool Boards for Lines 12and 5.	Install shadow boards for lines 1 2 and 5. It will be ~48 inches x ~24 inches and double sided. It will be mounted ~6 feet (top edge) off the floor on a stationary mounting bracket.	Support of 5S implementation in Conversion. CCF is a mirror of 09-863.	Lines 12and 5.	Miscellaneous
10370	Chemical Area Water Fountain Replacement	We will be replacing the existing single level water fountain with a Bi-Level Reverse (Reverse means short on left tall on right)refrigerated 115V/60Hz Halsey Taylor water fountain. Please see the attached Pdf. for specs on Model # HVR8BLR-S	Per the Safety Councilthe existing single level unit has been evaluated as being too high/tall for shorter workers. The existing unit cant be lowered due to design. The new bi-level unit meets Safety Council requirments as well infrastructure (electrical/ plumbing)already in place. No SSC's....	Water Fountain in Main Aisle	Miscellaneous
10371	Furnace 2C Boat Dumper Code Change	We will modify the PLC code on Furn 2C by adding a 3sec delay start timer to the boat loader's reversing relay. This will allow time for the motor to come to a complete stop before reversing its direction.	Per the motors manufactuerthe motor wasn't designed for the application in which its being used. Currentlywhen needed the motor's forward relay is energized and held high until its motion is completed. Once its forward motion is completedits reverse relay is instantly energized and held high until its cycle is complete. This cycle happens on avg of about every 20min. When called to reversethe motor periodically continues driving forward damaging its gearbox. The Boat Dumper is not safety significant (Active Engineered)however it is controlled by a PLC that is safety significant. Sketch No. 829013-1	Furnace 2C Boat Dumper	ISA-08 Pelleting

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10373	Line 4 Grinder Discharge Hose Lengthening	The discharge oulet hose on the back of the grinder will be extended 6-12" down into the inlet of the centrifuge sandpiper pump. A cover will be added if necessary. The redundant screen in the collection hopper will be removed to facilitate this change. There is already a screen in the sump of the grinder.	Currently the outlet discharge hose discharges into the top of a small collection hopper that feeds directly into the centrifuge sandpiper. The outlet flows free to airwhich results in a fair amount of coolant spillage and spray onto nearby equipment. This coolant is contaminated with SNM that eventually dries presenting an airborne issue. The extension of the outlet hose will keep coolant from spilling and spraying outside of the centrifuge system. The length of the outlet hose (Clear Tygon Tubing) is not specified on drawing 324F06PI01-06413, 04, RC1. No SSC will be modified with this change.	Line 4 Pellet Grinder	ISA-08 Pelleting
10374	T-1115 Sodium Hydroxide Line Replacement	Replace screwed 1/2" main sodium hydroxide line with welded 1" main line with 1/2" drop to the T-1114 sump and T-1115 Tank.	Line is leaking at the scewed fitting area. 1/2" line is bent and sagging. 1" welded line will eliminate leaks and prevent sagging.	T-1115	ISA-15 URRS Wastewater Treatment System
10378	Bulk Container Fixture	Design and fabricate a simple fixture to check the bulk container alignment pin hole location.	Bulk containers are positioned in the ADU/Erbia Pellet Bulk Rooms by aligning the holes in the bulk container lower channel supports with corresponding alignment pins in the Bulk Room. A fixture(361F15FX02)is used to check the Bulk Room alignment pin location annually per PM82020. The new fixture will be used to verify the Bulk Containers have not been damaged/distorted such that the alignment pin hole location has been affected. This action is the result of an ongoing investigation of issues related to the near hit documented per CAPS Issue # 10-156-C001.	ADU/Erbia Pelleting & Blending \ Bulk Containers	ISA-05 ADU Bulk Powder Blending

CCF	Title	Description	Justification	Location	ISA ID
10379	HF Containment Dike Wall and Pad	Construct a new dike wall segregating T-1174 containment from where old T-1173 tank was installed. Relocate/install fencing on new wall. Demo dike wall outside of new containment configuration back fill and pour new concrete slab. Coat new dike wall with vinylester lining system. Use waterstop system between all new and old concrete.	New pad to be used for future R.O. system concentrate tank and pump.	Outside URRS - HF Containment	ISA-06 Chemicals ReceiptHandling and Storage
10380	Fire Pump House #1 Light Installation	We will be adding 7 vaportight florescent light fixtures.	Current lighting is extremely inadequate.	Fire Pump House #1	Grounds
10381	Fire Pump House #2 Light Installation	We will be adding 5 vaportight florescent light fixtures.	Current lighting is extremely inadequate.	Fire Pump House #2	Grounds
10382	Line 5 Crane Radio Remote	Install a radio remote controller on the Line 5 Bulk Container Hoist.	All 4 other pellet lines and Erbia Hoists have the radio pendant installed. This reduces several safety concerns with the operator not being able to see all sides of the bulk container while moving it in and out of the deerstand. Alsothe current pendant wire can get caught while moving the bulk containerspinning the bulk container with the operator nearby. This will standardize all lines as well. PELPREP-601 and PELPREP-909 will need to be verified after this change.	Line 5 Deerstand Hoist	ISA-08 Pelleting
10383	Install Temporary Recirculation Systen on West II Lagoon	Install Temporary Recirculation System for West II Lagoon	Due to a process upsetthere are elevated levels of ammonia in the West II Lagoon. Recirculation will assist in mixing the contents of the lagoon so that we can pull representative samples of its contents.	West II Lagoon	Grounds

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10385	Replace valves with locakble valves on helium and argon lines on line 8	Replace existing ball valves with lockable ball valves. No drawing changes needed. These are Swagelok valves now since Swagelok purchased the Whitey product line. The 60 series valve are on the Argon and Helium supply lines for Line 8. Old number was (Whitey) SS-63S8 New number will be SS-63TS8-JL. The JL is locking handle The 40 series valve is on the Nitrogen supply line for Line 8. Same as old Whitey number with LL added for the locking handle. See attached cut sheets for both valves.	The current valves are not easy to lock out with the clamshell due to their location.	Line 8 Tube Prep	ISA-12 IFBA Fuel Rod Manufacturing
10387	Vacuum valves on non fuel batch leak detector	Replace the obsolete vacuum valves with same size and type but different manufacturer. Use one Lesker 6" aluminum end operated gate valve for Airco Temescal replacement 150# ANSI flanges with tapped holes on both sides an O-ring grove on the seal side only a flange face to face dimension of 4.375" and a port ID of 7.125" BUNA-N O-ring Use three Lesker 4" aluminum end operated gate valve for Airco Temescal replacement 150# ANSI flanges with tapped holes on both sides an O-ring grove on the seal side only a flange face to face dimension of 4.125" and a port ID of 5.375" BUNA-N O-ring	Old valves can not be rebuilt any more. Seal kits dont exist.	Near WABA room	Clean Side Rod Area
10391	Provide Lid for Scanner Box	Scanner at D&V Station is supported above the granite surface in a plexiglas container that is open at the top. This change would provide a lid for the box.	To prevent operators from accidentally interfering with wiring or dropping something into the scanner container.	D&V Mounted Scanner	ISA-10 ADU Rods
10392	Hot Oil Temp Control	We will be upgrading the temp controls for Hot Oil #4. We will replace/ simplify the control scheme with a Honeywell Process Controller (PID Controller).	Currently the hot oil temp is controlled by an obsolete NumaLogic PLC/analog cardThumbwheelMultiplexerand LED Display. Neither of the parts mentioned are being supplied any longer. The antiquated parts suspected to be in need of replacing are the Multiplexer and LED Display.	Hot Oil Room	ISA-03 ADU Conversion

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10393	RCCA/hda rOD ASSEMBY AREA - REPLACEMENT WELD EQUIPENT	This CCF is similar to CCF 10394. The exisiting Miller Weld equipment used in the RCCA & HDA Rod Assembly Areas is being replaced at this time with identical weld equipment. Miller Model 903701 shown in attached photos will be used to replace the exisitng Miller SR-200-32 model.	The existing Weld equipment used in this area is in need of replacement. The existing Miller Weld Equipment Model SR-200-32 is bulky and difficult to adjust/calibrate. The replacement weld equipment has a digital readout accurate to +/- 3A compared to the existing equipment with an accuracy of +/- 6A. The digital readout will allow the operator to accurately set the amperage as compared to the loosely calibrated dial indicator currently in use.	Spider and HDA Rod Assembly Area	ISA-17 Final Assembly
10394	Spider/HDA Assembly Area - Replacement Welding Equipment	The existing Miller Weld Equipment SR-200-32 used in the Spider Assembly and HDA BasePlate/Spring Guide Assembly Area is being replaced with newer welding equipment. Miller Model 903701 shown in attached photos will be used to replace the exisitng Miller SR-200-32 model.	The existing Weld equipment used in this area is in need of replacement. The existing Miller Weld Equipment Model SR-200-32 is bulky and difficult to adjust/calibrate. The replacement weld equipment has a digital readout accurate to +/- 3A compared to the existing equipment with an accuracy of +/- 6A. The digital readout will allow the operator to accurately set the amperage as compared to the loosely calibrated dial indicator currently in use.	Spider Assembly Area	ISA-17 Final Assembly
10396	Replace Fulflo Filter Vessel in Cylinder Recertification	Replace Fulflo Filter Vessel in Cylinder Recertification.	The existing WYFSS-10-2 filter vessel model is no longer supported by the manufacturer. The filter vessel will be replaced with a Fulflow FE Filter Vessel design which is commonly installed across the plant.	UF6 Cylinder Recertification	ISA-09 UF6 Cylinder Wash
10398	Add covered AVIS reject channel to line 8	Add a covered SSt reject channel. The channel will be 12 gage SSt - 5" deep 3" wide and 171" long. The cover will be made from a thinner 18 gage stainless and made in 2 pieces so it is not heavy.	When the AVIS was added to line 8 there was no reject channel added to the machine. It will be covered to protect from foreign material.	Tube Prep - Line 8	ISA-10 ADU Rods
10399	4C Natural Gas Line Modification	Remove cock valve from supply line to 4C Sintering Furnace entrance door pilot.	Valve is redundant and not required(flow is controlled via needle valve downstream from cock valve). Alsothe cock valve is currently leaking.	ADU Pelleting \ 4C Sintering Furnace	ISA-08 Pelleting

CCF	Title	Description	Justification	Location	ISA ID
10400	PLN3 Oxidation Oven Hood Beeper Box Tubing Modification	Allow the use of 1/4" copper tubing where the current tygon tubing is used on the exhaust vent for the hood (oxidation oven hood). Note: No drawings show tubing detail for the ADU pelleting beeper boxes.	The PLN3 Oxidation oven hood has historically seen higher ambient temperatures. The higher temperatures quickly melt the tygon tubing ported to the exhaust vent. The copper tube can withstand higher temperatures and will not melt causing nuisance breakdowns and tubing replacement.	PLN3 Oxidation Oven Hood	ISA-01 Plant Ventilation System
10401	Tab Welder - Change stop tab on end of plastic exit table arms	Change the width and height of the stop tab at the end of the plastic arms on the exit table. Change the width from .25" to .75" and the height from 1.06" to 1.00".	The width is being changed because operators run carts into the tab and break them offa wider tab should alleviate this. The height is being changed for manfacturability. 1" stock is readily available and added 0.06" is unnecessary.	Tube Prep	Clean Side Rod Area
10402	Control Caustic Addition to the Final Aerator F-1115	Control caustic addition to the Final Aerator F-1115.	The current means for raising the pH in the final aerator is to open a 1/2" ball valve. This adds more caustic than is required for the adjustment and potentially adds a surge of TSS right before the river discharge point. This change will install a rotor meter on the line to slowly add the necessary dosage of caustic when needed for the pH adjustment.	F-1115 Final Aerator for River Discharge System	Grounds
10403	CLN2 Crossover Loop Port Removal	Remove the two unused ports from the line two crossover loop.	A new crossover loop is to be fabricated. These ports are not used and do not need to be included in the fabrication. This modification is identical to CCF 07162.	CLN1 Crossover loop on scrubber	ISA-01 Plant Ventilation System
10404	Still 2 Product Line Modifications	Replace Still 2 product pump out line with the following modifications: 1. Replace obsolete Jamesbury ST13MS spring return piston actuator and valve assembly with Metso model VPVL200SR4/5B spring return actuator and Jamesbury 9150 ball valves. 2. Eliminate pressure regulator / gauges upstream of product filters. 3. Eliminate out of service piping.	Eliminate bad product quality caused by internal leaks.	URRS / Still 2	ISA-06 Chemicals ReceiptHandling and Storage

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10406	New rollers at Tube Prep rework lathe	Develop new roller system at the Tube Prep rework lathe	The current plastic rollers mark tubes periodically as they wear. They create burnish marks at 1st but since these are on the lathe table where it makes multiple passes on the wheel in a very brief time periodit can create a deep scratch.	Tube Prep area rework/repair lathe	Components
10407	Remove Obsolete Lagoon Sampling Station	Remove obsolte lagoon sampling station. This sampling station is located in front of the EPA building and lift station. It is believed to be an old composite sampler when the North/South/East/Sanitary lagoons combined into one undergroung pipeline. This was potentially used prior installation of the EPA building.	The power has been disconnected and the lexan shed and remenant piping are an eyesore and trip hazard.	In front of the EPA Building	Grounds
10408	Skeleton Bulger Handle Addition	Add a set of handles to the skeleton bulger carriage to allow for easier movement of the carriage. There are currently 3 bulgers being utilized for assembling skeletons which all use a common carriage frame design. This project will be to design build and install an initial handle and provide parts for the remaining two. The installation of the remaining two handles will be accomplished on an as available "like-kind" (pre-approved) replacement/addition basis.	There is currently no facility on the carriage which allows for the safe and easy application of force by the operators (push or pull) to move the carriage.	CFFFSkeleton Bulger	Components
10409	Final Assembly loaders Goretube Replacement	Allow either Goretube or Nylatrac to be used on the loaders.	Nylatrac is easier to instal and tubing changes are easierbut Goretube is not broken on all the loaders.	final assembly	ISA-17 Final Assembly

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10411	Replace Plating tank filtration units	Replace the Serfilco filtration units for both the plating and pre-plating tanks with units sent from Serfilco as replacement units.	Serfilcothe original manufactureris providing these units as OEM replacement unitswith upgrades on materials and space requirements. The actual filtering (both wound filter and carbon canister) is equivalent to the original equipment as provided by Serfilco. The existing units have corroded and are at the end of their useful lives. Adequate filtration is necessary for proper plating operation.	Adjacent to Plating and Pre-Plating tanks.	Components
10412	Water chemistry controller on the Power Master Boiler	Replace the antiquated boiler water chemical controller on the Power Master Boiler. The new unit manufactured by Aquatrac is equipped with a conductivity electrode rated for 250 psi. (See the attached spec sheet)	The existing Aquatrac controller is obsolete.	Boiler House #1 / Facilities	Grounds
10418	Substitute Cam-fitting for Dryer Quick Disconnect	Allow the use of a cam fitting that has a built-in locking mechanism. When the ears are closed it will be locked without the use of a pin as is currently the case. The old cam will still be used as desired. Dixon is the manufacturing of both cams.	The self-locking mechanism does not require the insertion of a safety pin. This cam is already present on dust caps that are in use. The use of the new cam can be performed while wearing the current chemcial gloves.	Dryer insert/hose disconnect	ISA-03 ADU Conversion
10419	Change gasket on V-206	The current gasket called for on V-206 is an envelope gasket. This is not a stocked part. The gasket used on V-x02 V-106 and V-506 is a Teflon gasket MRO#51414. This CCF will allow the use of the same Teflon gasket.	The gasket is already used on V-x02V-106and V-506.	V-206	ISA-03 ADU Conversion
10421	Remove and reroute argon and helium tubing	There are several sections of unused stainless steel tubing that need to be removed. Remove all unnecessary sections of tubing and all associated valves solenoids gages etc. Once these sections are removed the remaining tubing will require rerouting to optimize the gas flow to the girth weld chamber.	ADU rod line 2 has a history of discolored end plugs. When comparing this line to line 1several extra sections of tubing were observed. Removal of these section of tubing and the associated valvesgagesetc. will make the lines more similar to each other to aid in troubleshooting.	ADU rod line 2 girth weld solenoid cabinet	ISA-10 ADU Rods

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CCF	Title	Description	Justification	Location	ISA ID
10423	1C Sintering Furnace Improvements	1) Add a Hayward Duplex strainer on the cooling water line just prior to the header supplying the furnace. 2) Increase the copper line size from 1/4" to 3/8" diameter to reduce blockages. Change the 1/4" needle valves to 3/8" ball valves as well. 3) Separate the cooling chamber copper lines into 2 individual lines with a valve for each line. 4) Remove the cooling water going to the sight ports. 5) Add ceramic pins where necessary to the element pin walls to prevent element shorting.	Changes identical to CCF 0814709794 etc... (Items 1-3)To reduce the possibility for water flow blockage through the sintering furnace cooling sections. Item 4 is no longer in use and needs removed from the drawing. Item 5 is to prevent the elements from shorting together inside the furnace.	1C Sintering Furnace	ISA-08 Pelleting
10424	Dock #7 Lift Modification	We will be adding a prox switch to indicate when the door is down (provide a permissive) in turn allowing the outside lift to be lowered. An indicator light will be provided to give a visual indicator that the lift is ready to be lowered.	Per CAPs Issue Report #10-167-C001the outside conveyor at dock #7 drifts down and will not allow rods to transfer when system has not been used regularly. When this occursa work order is generated for an electrician to simulate up position which allows it to cycle and system then works for a while.	IFBA Dock #7 Conveyor	ISA-12 IFBA Fuel Rod Manufacturing
10425	Line 6 Grinder Conveyor Coating	Items 18 and 65 of drawing 376F06EQ02 will be coated with a special PVD coating from Surface Solutions INC that is called their ALPHA Coating.	The parts are currently made of stainless steel and have pellets riding on them. The parts wear out very quickly due to the abrasiveness of the pellets. Usually parts in these locations are made of carbidehowever these parts would be prohibitively expensive if made of carbide due to their complexity. PVD coating is very similar to anodizing and gives a very thin and very hard coating that has excellent lubricity to the parts that it is applied to. This is similar to Titanium Nitride drill bits. No SSCs are affected. This will also provide the basis for approval to change other high wear parts in the pellet area from carbide to PVD coated parts.	Pellet Line 6	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10426	Pellet Tray Margin Gage Alternate Design	Design new Tray Margin Gage. See 361F03GA02 Sht 03 Group 03 for proposed design.	Provide a new gage that when used in combination with the 361F06EQ10 Tray Spacerachieves the desired Planning pellet row lengths for all pellet designs. Reducing the gage from 1-1/8" to 3/8" ensures a minimum one pellet space exists on the open end of the traybut never a two pellet space.	ADU Pelleting \ Grinder Lines	ISA-08 Pelleting
10427	Replace S-958 water backflow preventer	Replace scrubber S-958's water backflow preventer. The currently installed backflow preventer is obsolete. Replace with the plant standard Watts 909 series reduced pressure zone assembly.	Operability/maintainability	Roof	ISA-01 Plant Ventilation System
10428	North Side Smoking Patio	Demo current smoking area and remove bushes from the bush bed (outside adjacent to expansion area canteen) on the North side wall. Pour concrete pad approximately 55' X 11' X 4" to create a patio. Install blue canvas cover (approx. 41' X 11') over patio area and double doors (approxi. 12' X 10')	The current smoking area is near the opening of the double doors with no barrier and allows smoke to enter into plant office area.	North Side Smoking Area	Grounds
10429	Separate Boilers and WT Process Hot Water Supply	Disconnect P-1160A/B and T-1167 hot water supply from the main hot water Boiler line. Tie-in P-1160A/B and T-1167 piping to the existing hot water supply block-off (unused stub end line with a valve) valve on the main line of T-1143. Replace thread piping with welded piping per FSS-003-16.	Piping is deterioratedcausing several failures throughout this year. Replacing it with welded fittings will make it more reliable. Alsoby separating the boilers from the process will allow operation and maintenance to isolate their equipment with out interfering with the other.	T-1143	Grounds
10430	UPS #2 AC Unit	Mechanical installation of an AC unit for the purpose of cooling the new UPS #2 installed under CCF 10275. This CCF includes supporting the AC unit and installing ductwork from the unit to the UPS enclosure. Update to original review of this CCF: This CCF has been demoted to working state because of a design change. Updated and approved drawings are attached.	The ambient temperature in Mechanical room #3 approaches the maximum operating temperature of the new UPS #2 during the summer. Cooling of the enclosure is needed.	Mechanical Room #3	Miscellaneous

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CCF	Title	Description	Justification	Location	ISA ID
10433	Add Logic for ADU Line 4 Scrubber 3 Way Valve Indication	The logic used to display the scrubber 3 way valve flow to the scrubber (LS-431H-A) was inadvertantly removed under CCF 10255 Line 4 Precipitator Demo. This CCF will replace the logic to display the status of this valve. No SSCs are affected by this change.	This logic displays the state of the valve and was removed unintentionally.	ADU Line 4	ISA-03 ADU Conversion
10436	Replacement of "Crab Lift" Charger	Replacement of existing "Crab Lift" charger with new charger to accomodate use of new "Crab Lift" forklift which is being installed under CCF 10-185. Charger is being changed from 480V 7.5A to a 480V 10.1A supply and will be fed from the same breaker and same location. The receptacle and/or plug may require replacement.	Existing charger is not compatible with new charger needed for the replacement "crab lift"	Near Frazier Racks and UT1	Clean Side Rod Area
10437	IFBA filter press peg modifications	Remove pegs from IFBA filter press measure peg holder holes then replace pegs with pegs diameter greater than hole diameter by 0.004" to 0.007". Use 1 1/2" screws to secure all pegs in place. Remove P2 from the filter press system. Replace pegs and holes as indicated on the attached drawing. Use a corresponding size plug and screw to plug the excess hole based on the new design.	The pegs that were initially installed were 0.500" and the holes they were in were 0.500". The initial pegs have been found falling out of the IFBA filter press. The addition of screws to secure the pegs will help prevent peg remove. New analysis of the filter press system requires no more than 3 plates.	IFBA filter press plates FP-7092	ISA-14 IFBA Processing
10438	Coater 7flexible wire tray repair	The flexible wire tray on Coater 7 is broken. Attach steel plates to flexible wire tray bracket to hold flexible wire tray in place until replacement parts can be installed.	Safety The broken flexible wire tray can get out of place pulling & binding the wires inside the tray	IFBACoater 7	ISA-14 IFBA Processing

CCF	Title	Description	Justification	Location	ISA ID
10439	Install a Mechanical Freeze Protection Valve on the Eyewash on the UN Offloading Platform	Install a mechanical freeze protection valve on the eyewash on the UN Offloading Platform. A thermostatic element inside the valve senses temperature and if this falls below 35°F (1.7°C) the valve modulates open allowing water to flow. The valve will remain open as long as the water flowing by the sensor is less than 40°F (4.4 C). However when the water flowing by the sensor becomes greater than 40°F (4.4°C) the valve will close.	The water supply to this eyewash has to be cracked during the winter months to make sure it does not freeze. This makes a mess and can cause icy slip hazards.	UN Offloading Platform next to HF Bulk Storage	Miscellaneous
10440	184 Inch Rod D&V Channel	The purpose of this CCF is to formally document approval to implement a 184 inch Rod D&V Channel into production. The item is defined by tool drawing # 438F09TL05 Item 03. A copy of the released drawing is attached to this CCF for reference only. The Drawing of Record remains the PDF accessed via searching Matrix for this drawing number.	Required for AP1000™ fuel rod production.	Rod D&V Channel Accumlator	ISA-10 ADU Rods
10441	184 Inch Fuel Rod Storage Channel	Implement a 184 inch fuel rod storage channel. Use the related documents function to view all applicable documentation.	Required for AP1000™ fuel rod production.	Fuel Rod Storage	ISA-10 ADU Rods
10442	Remove Ladder on T-1116 Round Tank	Remove ladder on T-1116 Round Tank. Close in railing that is currently open for the ladder.	Ladder does not meet OSHA standards and is unsafe. The bottom three rungs have been shortened to fit around a pipe and the top landing has a piece of removed grating that could be a leg entrapment.	T-1116 Round Tank	ISA-06 Chemicals ReceiptHandling and Storage
10444	Covered Patio Outside Conf Rm 301/302 Cafeteria Electrical	A new covered patio is being installed under CCF 10428. This CCF covers the electrical to support ceiling fans and new lighting controlled by a photocell.	This installation will part of the plant wide FME (bugsleavesetc.) reduction efforts. This will address the issue/ concern of being stung by wasp like insects by nearby shrubs. This will also serve as an extended break area.	Outside break/smoke area near 301/302 cafeteria	Miscellaneous

CCF	Title	Description	Justification	Location	ISA ID
10445	Replacement of Coupling on Fire Pump #1	Replace the obsolete pump coupling on Fire Pump #1. The replacement coupling (Model 1070T10) is one specified by the OEM. See attached PDF for coupling details.	Existing coupling is obsolete and has exceeded its life cycle.	Fire Pump House #1	Miscellaneous
10446	Replace oil pressure switches on North American Boiler #2	Replace the low and high fuel oil pressure switches on North American #2 Boiler. The existing switches are mercury bulb type. The new switches will be stainless steel diaphram type equipped with snap switch action.	This replacement will eliminate a hazardous substance from our facility.	Boiler House #2	Grounds
10447	Store Room Stock Request for PN# 194056	Store room will replace part number 5370-169-042 with part number 5370-169-204.	Part number 5370-169-042 is discontinued.	ADU Rod Lines	Miscellaneous
10450	Add brake to outside trolley motor	Install a trolley motor with brake Coffing #863-J1-MBR in place of brakeless motor #JL863-1M.	Current trolley drifts before stopping	Dock 3	Miscellaneous
10451	Transportation Office Electrical Renovation	We will pull 8 new circuits from RP-1617CB to supply the Transportation Office. The refrigerator coffe maker and community printer will have dedicated circuits. The remaing 5 circuits will be divided up among office areas. No SSCs...	Based on issue report # 10-182-C001we had another issue with cubical electrical outlets creating safety hazards due to circuit distribution in the transportation office area. Electricians eliminated cubical receptacle and divided up some of the equipment to eliminated the unsafe condition short term.	Transportationg Office	Miscellaneous
10453	Replace Substation IMPAC interface	Replace the AEMII IMPAC interface in Substation 1 with a BIMPS II panel.	The exisiting AEM II is not operating properly and the unit is obsolete. The replacement Cutler-Hammer device is a BIMPS II model. We have the unit "in-hand" and are waiting on this CCF to be completed to authorize the replacement. The IMPAC system is a monitoring system for the substation. The BIMPS II device "relays" the status of the breakers in the substation to the IMPAC networkfor monitoring purposes.	Substation 1	Grounds

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CCF	Title	Description	Justification	Location	ISA ID
10454	Remove Urethane Pads from Rotation Device of X-Ray in QC Rod Inspection	Urethane pads in rotation device need to be removed from the XRay unit in QC Rod Inspection. They were installed with equipment years ago that was never used in the process and they are not functioning at this time.	Over timewith exposure to X-Raysthe urethane has deteriorated and is the consistency of tree sap. These pads need to be removed in order to prevent foreign material issues during production. The risks are very high during normal operations that rods are going to be affected.	QC Rod X-Ray equipment	ISA-10 ADU Rods
10456	Ethernet Switch replacement on the BWR Loader	Replace the ethernet switch on the BWR loader in Final Assy. The new switch is an N-Tron unit that the plant has been using on new projects. This unit will meet or exceed the specs on the existing unit.	Existing unit is obsolete and unavailable	Control Panel for the BWR loader	ISA-17 Final Assembly
10457	Substitute SCR power controller 5A & 5B furnaces	Substitute Robicon 1PCI-4890 SCR power regulator for Robicon 1PCI-48120 SCR power regulator on ADU sintering furnaces 5A & 5B	These Robicon SCR power regulators are obsolete. We have several good spares of 1PCI-4890 90 amp controller but no spares for 1PCI-48120 120 amp controller. These controllers are identical except for the maximum current rating. The 120 amp controllers are oversized. 90 amp controllers are used in all of the other ADU sintering furnaces with identical heating elements and transformers. This CCF will allow 1PCI-4890 90 amp controllers to be substituted for 1PCI-48120 120 amp controllers on the line 5 furnaces. This is an urgent need because 5B furnace has a failed 1PCI-48120 120 amp controller and will be out of service until this CCF is approved.	Line 5 sintering furnaces	ISA-08 Pelleting
10458	Add storage racks to plating room and update drawings.	Add storage racks to plating to handle material storage and update drawings.	Need configuration in room to manage necessary storage.	Noted on marked up drawing 500F04AR09 Sheet which is attached.	Components

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CCF	Title	Description	Justification	Location	ISA ID
10459	Install Runoff Capture Basin Around North and East Parameter of CAF Pad	Install runoff concrete rebar reinforced capture basin around North and East parameter of CAF pad with sump and underground pipe to West II Lagoon. Concrete run off basin will have corrugated pipe in bottom and be covered with #57 stone so it will not be a trip hazard.	The current drain system is not capable of collecting all of the run off during heavy rain storms. This configuration change will minimize leaching of calcium fluoride to ground water.	West Lagoons	Grounds
10483	UN Tank Alarm Acknowledgement	The Wonderware HMI in the Solx control room will be modified to prevent a UN tank alarm acknowledgement in the ADU conversion control room from silencing the Solx HMI audible alarm enunciator.	Proper alarm response	Solx control room	ISA-02 Uranyl Nitrite Bulk Storage Tanks
10490	Filter Press blow down extension	Add piping and a bell reducer to extend the blow down pipe to the floor.	The current position of the blow down line poses a safety risk of chemical splash. Extending the line to the floor and adding a "bell reducer" will allow the material to discharge to the floor and splash within the reducer prevent chemical burns.	Bottom of the IFBA filter press	ISA-14 IFBA Processing

CCF	Title	Description	Justification	Location	ISA ID
10494	Mobile DI Water System	Connect a GE Water & Process Technologies 'MobileFlow or MultiFlow Demineralizer' DI water generating system to the plant DI water distribution system. System will consist of cation anion and mixed resin beds similar to the existing DI water system. Water will be tested for all quality parameters per CF-83-027 before introduction into the plant distribution system. Connections into the plant distribution system were installed under CCF #09657. The MobileFlow and MultiFlow units use the same resins but differ in total water throughput capacity. Since this is a temporary installation and the electrical needs are very minor an extension cord will be run from the DI Water building to the Portable Unit. The extension cord and water hoses will be protected by crossovers at both the driveway to the substation and the entry to the DI Water building. Trailer location and layout has been reviewed with Jeff Hooper.	DI water is a production critical commodity and required for production in nearly every area of the plant. Initial usage will be for verification of the system capabilities for water quality parameters and capacity. Future units will be brought on-site and used during failures of the plant DI water systemduring major maintenance of the plant systemor future upgrades to the plant system. Current DI water system is 30 years old with documented reliability issues.	DI Water Building	Miscellaneous
10495	Hi-Vac valve substitution for IFBA Vacuum Furnaces	The previously purchased replacemet Hi-Vac valve for the Vacuum Furnaces is different the air cylinder is larger in diameter on the replacement unit #AV10SPECIAL. The larger diameter cylinder does not affect its performance. This CCF is to allow us to substitute any Vacuum Research Corporation 90deg 10" Hi-Vac Valve on IFBA Vacuum Furnaces 1 2 or 3. All of these valves are identical in form fit and function. Replacement valves may include position switches and local gauges.	Vacuum valves are seldom if ever exactly identical. The replacement units will be functional equivalents. These valves are often rebuiltupon repair/overhaul the valves will be used interchangably between vacuum furnaces 1, 2or 3.	IFBA Vacuum Furnaces	ISA-14 IFBA Processing
10496	Substitute power supply 5A furnace	Substitute Siemens 6EP1-353-2BA00 40 volt power supply for existing 28 volt power supply for temperature transmitters on 5A sintering furnace.	The latest version of Moore THZ temperature transmitters require a higher voltage than the earlier versions.	5A furnace	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10497	Substitute power supply 5B furnace	Substitute Siemens 6EP1-353-2BA00 40 volt power supply for existing 28 volt power supply for temperature transmitters on 5B sintering furnace.	The latest version of Moore THZ temperature transmitters require a higher voltage than the earlier versions.	5B furnace	ISA-08 Pelleting
10499	Still 2 Burp Trap Drain Line Modifications	Modify Still 2 burp trap drain line to eliminate the existing p-trap and relocate the tie-in at the flash tank to a nozzle above liquid level.	To eliminate bad ammonia product quality due to blockage in the drain line.	URRS Outside Still 2	Grounds
10500	Replacement of UT Inspection DEC Hard Drives UT Bottom End Line 8	This project will replace the old and obsolete DEC PDP 11 Computer hard drive on the Tube Bottom End Fabrication Line 8. The current SCSI disk controller and MFM type hard drive will be replaced with a modern industry standard KDJ11-BB processor and SCSI type dual hard drive. No software changes are required and the installation is the same as replacing the existing hard drives(The existing hard drives fail approx. 1 time per year). During this installation the computer will be cleaned and new fans installed.	There are only 8 spare hard drives in existence and at the current failure rate they will only last for 1 - 2 years. The existing system is unreliable and has no hard drive backup capabilities except loaded software on the spare hard drives. The new components function identically to the existing and no operator or UT technician tasks will change.	CFFFMechanical AreaTube Bottom End Fabrication Line 8	Components
10501	Replacement of UT Inspection DEC Hard Drives UT Bottom End Line 9	This project will replace the old and obsolete DEC PDP 11 Computer hard drive on the Tube Bottom End Fabrication Line 9. The current SCSI disk controller and MFM type hard drive will be replaced with a modern industry standard KDJ11-BB processor and SCSI type dual hard drive. No software changes are required and the installation is the same as replacing the existing hard drives(The existing hard drives fail approx. 1 time per year). During this installation the computer will be cleaned and new fans installed.	There are only 8 spare hard drives in existence and at the current failure rate they will only last for 1 - 2 years. The existing system is unreliable and has no hard drive backup capabilities except loaded software on the spare hard drives. The new components function identically to the existing and no operator or UT technician tasks will change.	CFFFMechanical AreaTube Bottom End Fabrication Line 9	Components

CCF	Title	Description	Justification	Location	ISA ID
10507	BACK FLOW PREVENTER FOR BOTTOM GRID INSERT SPOT WELDER	The primary cooling water supply for the Bottom Grid Insert Spot Welder is mechanical cooling tower water. The back-up cooling water supply is city water. This CCF will allow the installation of a reduced pressure backflow preventer in the city water line (back-up cooling water for the Grid Insert Spot Welder) at the point of cross connection.	This back-flow preventer will protect the city water supply from contamination.	Grid Area	Components
10508	Remove unused air line above Hot Oil Room	Remove air line above hot oil room that is not used	UF6 bay overhead crane ran into it	above hot oil room	ISA-03 ADU Conversion
10512	Furnace 1C Temperature Controls Upgrade	We will replace infrared pyrometers SCR's ammeters and signal isolators on 1C sintering furnace. The following SSC's will be impacted: PELSINT-903 PELSINT-904 PELSINT-905 PELSINT-907 PELSINT-908	Replace obsolete equipment and improve accuracy and stability of temperature measurements. Also separate process control temperature measurements from SSCs. This is identical to the controls upgrade that was recently completed on 1A & 2A furnaces.	Furncace 1C	ISA-08 Pelleting
10513	Furnace 1C saturator water addition valves Replace	Replace solenoid valves SV1A9 SV1A10 and SV1A11 with air actuated ball valves - Jamesbury 9FB-3600XT with linkage kit and spring return actuator model VPVL100SR4-5. PELSINT-915 will be affected.	Solenoid valves are a poor choice for final elements in interlocks. It is not possible to verify the state of the valve when performing interlock verifications and thye are prone to leak-through. A recent saturator over-fill was caused by a leaking solenoid valve. This modification is identical to the one on 1A furnaceCCF # 09065	Furnace 1C	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10514	Furnace 1C Nitrogen Pressure Switch Replacement	All sintering furnaces in ADU and Erbia have a low nitrogen pressure interlock (PELSINT-903)from a pressure switch on the main nitrogen header that is located on the thermal stability furnace mezzanine. A new header with 19 individual pressure switches has been installed under CCF 09630. This will enable each furnace to have its own pressure switch for this interlock. This CCF is to transfer the low nitrogen pressure interlock wiring from the common switch to the new individual switch for 2C furnace. This change was implemented on 3A furnace on CCF # 08986	The current common pressure switch does not allow testing of PELSINT-903 without tripping all 18 pellet sintering furnaces. This is a major inconvenience that results in production downtime and maintenance costs that will be avoided as the furnaces are transferred to individual pressure switches. This CCF simplifies PELSINT-903 and makes it more reliable by eliminating an interposing relay which has a dangerous failure mode.	Furnace 1C	ISA-08 Pelleting
10515	Furnace 1C Pusher Motor Replacement	ADU furnace 1C will have the new style pusher motor to replace the existing obsolete motors. This upgrade has been made on many of the other furnaces and it works well. 1C will be upgraded during the upcoming furnace re-build.	Existing pusher motors are obsolete.	Furnace 1C	ISA-08 Pelleting
10520	Rod Line 8 Gearmotor Substitution (Tube Prep.)	Rod Line 8 weld station. Substitute the existing 115vac 113rpm pinch roller gearmotor (Type 489) with a 115vac 85rpm gearmotor (Type 490).	With the current setup the pinch rollers at the weld station is causing the longer tubes to impact the sstl. stop plate. We will be replacing the exising pinch roll gearmotor at the weld station with a unit that is the same (formfitand function)except that the new motor will have a final out put of 85rpms instead of the 113rpms of the current motor. By slowing down the tube speed this will allow us to stop the tube before it impacts the "stop".	Rod Line 8 weld station	Components

CCF	Title	Description	Justification	Location	ISA ID
10522	Add 45 degree elbows to P431 piping	The discharge piping of P431A/B is badly slanted however straightening it will make it hit other piping. The addition of 2 45degree elbows will allow the top section of the pipe to remain in its current position while straightening the section directly above the pumps.	The mis-alignment of the current pipes causes stress on the pumps and may lead to premature failures	P431A/B piping	ISA-03 ADU Conversion
10523	Substitute Operator Interface Terminal (OIT) on Rod Line Welders	Substitute Operator Interface Terminal (OIT) KEPS Model MMI-750T with KEPS Model MMI-8056 on Rod Line Welders. We will modify a spare welder in the instrument shop but this CCF will allow us to substitute this OIT on any Tube/Rod welder in the future.	Existing model is obsolete and no longer available.	Spare welder in the instrument shop	ISA-10 ADU Rods
10526	Safety Shower in #1 Fire Pump Building	Replace the existing safety shower station 3-05 located in #1 Fire Pump Building. The replacement combination shower & eye / face wash Speakman SE-625-SS-ILS complies with ANSI Z358.1 This unit is a stainless steel floor mount model equipped with dual spray eye / face outlets and a deluge showerhead. A pressure regulator will be installed in the city water supply piping to reduce the pressure to a range of 30-60 psi.	The existing safety eye wash / shower station is obsolete.	#1 Fire Pump Building	Miscellaneous

CCF	Title	Description	Justification	Location	ISA ID
10527	Repair of leaking Argon piping system on IPSEN vacuum furnace	Repair leaking pipe fittings on the Argon feed system for the IPSEN vacuum furnace by replacing the existing piping which will be meet more current requirements as specified in FSS-003-69 except for a specific check valve configuration connection type. See attached file for picture of current pipe joint and configuration.	The Ipsen #3 heat treating furnace utilizes an argon storage tank. The threaded connections and fittings on the inlet side of this tank are leaking. This CCF will document and allow replacement of the inlet fittings per Pipe Sketch FSS-003-69with the exception of the check valve. The pipe sketch specifies male VCR connections on the check valve. The check valve which will be used has female pipe thread connections. (The check valve is not available with VCR connections) Note: The existing fittings are not per Pipe Sketch. This change is required to expedite repair of leaking fittings on the Ipsen #3 argon storage tank.	Argon feed to IPSEN 3 in the Grid Furnace Area.	Components
10528	Install SS plate in front of washing machine	Install a stainless steel plate into the floor in front of the washing machine. The current flooring will be removed the plate installed and floor material filled in around it to prevent trips. The plate will include a texture (diamondplate) to prevent slips. The edge of the plate will be welded to the plate under the machine to prevent liquid from getting between them.	The floor in front of the washing machine isnt able to hold up to the constant acid dripping on it from loading/unloading the washing machine.	in front of the washing machine	ISA-11 Scrap Uranium Processing
10531	Rotate Panel rest	Rotate panel rest 180 degrees to prevent the lid from remaining open.	There have been issues of leaving the tray table door open allowing foreign material to fall onto the pellets.	Rod line 4 loading table	ISA-10 ADU Rods
10532	Rotate Panel rest	Rotate panel rest 180 degrees to prevent the lid from remaining open.	There have been issues of leaving the tray table door open allowing foreign material to fall onto the pellets.	Rod line 3 loading table	ISA-10 ADU Rods
10533	Rotate Panel rest	Rotate panel rest 180 degrees to prevent the lid from remaining open.	There have been issues of leaving the tray table door open allowing foreign material to fall onto the pellets.	Rod line 2 loading table	ISA-10 ADU Rods
10534	Rotate Panel rest	Rotate panel rest 180 degrees to prevent the lid from remaining open.	There have been issues of leaving the tray table door open allowing foreign material to fall onto the pellets.	Rod line 1 loading table	ISA-10 ADU Rods

CCF	Title	Description	Justification	Location	ISA ID
10538	Mechanical Team Manager Office Extension	Extend mechanical team manager office approximately 4' and move door to the North West side.	Team Manager needs more room. Plusthe current door opening is facing the cutting machinein which he is interrupted by the noise in the shop. Closing the current opening and moving the door to the north west sidewill reduce some of the noise.	Mechanical Team Manager Office	Miscellaneous
10540	line 4 elevator chute replacement	Replace the boot between the top of the line 4 elevator and the duplex valve. The new one will be made of thicker rubber and reinforced with fiber and metal to make it stiffer.	The old onealso made of rubber had a hole in itand an exact replacement was not available	line 4 elevator/duplex chute	ISA-03 ADU Conversion
10541	Installation of Rental Gulmay GX 320 kV generator Set	Installation of a 3 month rental x-ray system comprised of the following: 1. Gulmay GX320 kV generator set 2. Cathode generator R24 socket 3. Anode generator R24 socket 4. Lab I/O panel 5. MPI Controller Connecting cables between geneators Lab I/O MPI Controller and heat exchanger Original genetator in non fuels x-ray for the Titan unit failed and has been sent off for repair.	This rental is an interim fix to keep non-fuels x-ray working as the generator failed and has been sent off for repairs.	Non-fuels x-ray area	Components
10543	Stainless Steel Covers for Plastic Rails - Line 4	Add Stainless Steel covers as an option to cover the plastic rails.	Plastic rails wear and can mark the tubes or do not allow the tubes to roll properly.	ADU Rod Loading Lines - Chemical Side	ISA-10 ADU Rods
10544	Stainless Steel Covers for Plastic Rails - Line 3	Add Stainless Steel covers as an option to cover the plastic rails.	Plastic rails wear and can mark the tubes or do not allow the tubes to roll properly.	ADU Rod Loading Lines - Chemical Side	ISA-10 ADU Rods
10546	Stainless Steel Covers for Plastic Rails - Line 2	Add Stainless Steel covers as an option to cover the plastic rails. There are no drawings for line 2 showing this part of the equipment. This will be the same work that was completed under CCF-09368 for line 1.	Plastic rails wear and can mark the tubes or do not allow the tubes to roll properly.	ADU Rod Loading Lines - Chemical Side	ISA-10 ADU Rods

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CCF	Title	Description	Justification	Location	ISA ID
10548	Grinder Line 2 ATAC Controller Relocation	We will be relocating the vibratory bowl feeder vibrator controller boards from off the floor up to a location better suited for trouble shooting.	Currently when performing maintenanceElectricains have to lay down on the floor to do what needs to be done. All feild wiring will remain the same (fed from and device I/O)	ADU Grinder Line 2	ISA-08 Pelleting
10552	Furnace 1C Boat Dumper Code Change	We will modify the PLC code on Furn 1C by adding a 3sec delay start timer to the boat loader's reversing relay. This will allow time for the motor to come to a complete stop before reversing its direction	Per the motors manufactuerthe motor wasn't designed for the application in which its being used. Currentlywhen needed the motor's forward relay is energized and held high until its motion is completed. Once its forward motion is completedits reverse relay is instantly energized and held high until its cycle is complete. This cycle happens on avg of about every 20min. When called to reversethe motor periodically continues driving forward damaging its gearbox. The Boat Dumper is not safety significant (Active Engineered)however it is controlled by a PLC that is safety significant. Sketch No. 829013-1	Furnace 1C Boat Dumper	ISA-08 Pelleting
10557	Mens Downstairs Change Room /Restroom Renovation	We will be installing three gfci's one above each sink basin; Installing one 120volt hand dryer on a dedicated circuit; Installing one tankless multi-lav water heater 9.5kw.			Miscellaneous
10560	Stainless covers for IFBA walls	Install(anchor) SS covers to south concrete wall in the IFBA area next to dock 8 and chem. lab.	Cart handles rubbing wall creating concrete dust(FME) as well as damage to concrete walls. Drawing numbers are included for referencebut no updates are necessary.	IFBA Area near dock 8 and chem. lab	ISA-14 IFBA Processing
10561	SS panels on north wall in the IFBA area near unload table.	Attach SS panels to north wall in IFBA Area to eliminate dust (FME) thats made from cart handle hitting wall.	FME (dust) is concern of getting on pellets when handles from carts hit wall along with protecting concrete wall. Drawing numbers are included for referencebut no updates are necessary.	IFBA loading/Unloading Area	ISA-14 IFBA Processing

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CCF	Title	Description	Justification	Location	ISA ID
10562	Repair of Leaking Argon Piping System on IPSEN Furnace	Repair leaking pipe fitting on Argon pipe system for the IPSEN Furnace by replacing existing piping. The piping will meet the current requirements as specified in FSS-003-69.	The threaded connections and fitting are leaking. The CCF will document and allow replacement of the fittings per pipe sketch FSS-003-69. Note: The existing fittings are not per the pipe sketch.	IPSEN Furnace	Components
10563	Repair leaking Argon piping system on ABAR Furnace	Repair leaking pipe fitting on Argon pipe system for the ABAR Furnace by replacing existing piping. The piping will meet the current requirements as specified in FSS-003-69.	The threaded connections and fitting are leaking. The CCF will document and allow replacement of the fittings per pipe sketch FSS-003-69. Note: The existing fittings are not per the pipe sketch.	ABAR Furnace	Components
10564	change line 2 dryer flex connection to hard pipe	Between the dryer filter housing on line 2 and the condenser there is a flex connection with metal bellows and SS braiding that is leaking. The replacement part will take a long time to get in. Replace the flex section with hard pipe until a new flex section is available.	Line 2 cannot run with the current piece due to leakingand a replacement part is not readily available. Other conversion lines already use hard pipe in this location.	line 2 dryer filter housing	ISA-03 ADU Conversion
10567	Remove D&V Rod Inspection Rod "dumping" Controls	Remove D&V Rod Inspection Rod "dumping" Controls	It has been decided that the system is not practical and hinders the operator inspections. The equipment is not being used. This CCF will remove the Controls.	D&V Table for QC Rod Inspection	ISA-10 ADU Rods
10568	ADU Rod Line 3 Pre-Work for AP1000™ Modifications (Phase 2)	This part of the project is to add new input blocks (for sensors) at the bottom end of the line near the vibratory feeder. Additionally existing conduits and junction boxes affecting the power and some sensors for the vibratory Feeder 25 Rod Transfer section Pellet Loading Chuck and Single Step Walking beam will be relocated (in the case of the conduits and junctions boxes) and/or replaced (in the case of some of sensors)	Several boxes and conduits are physically mounted to the rod line frame. These particular conduits and boxes are physically in the way of the new AP1000™ frame (which will be installed under a separate CCF). Additionallysome new sensors for the pellet loading chuck are being relocatedadded or replaced requiring additional inputs. These along with some existing sensors will be relocated to new Input blocks being installed as part of this CCF.	Bottom End of ADU Rod Line 3 near Vibratory Feeder Table	ISA-10 ADU Rods

CCF	Title	Description	Justification	Location	ISA ID
10569	ADU Rod Line 3 Pre-Work for AP1000™ Modifications (Phase 1)	This part of the project is to replace an existing valve manifold and associated input sensors (and sensors) associated with the End Cleaner station and the Rod Pre-Positioner.	The new rod pre-positioner will be located near the end cleaner thereby eliminating the need to continually adjust the pre-positioner based on rod length. To accomodate thishoweveradditional solenoids are required. Due to space limitations in the existing end cleaner solenoid cabinetit was decided to replace the old Numatics manifold with a smaller manifold (from SMC) which will permit more solenoidsas well as new inputs (For new and existing sensors). Also some sensors will be replaced on the End Cleaner system due to obsolescence.	End Cleaner area of ADU Rod Line	ISA-10 ADU Rods
10570	ADU Rod Line 4 Pre-Work for AP1000™ Modifications (Phase 1)	This part of the project is to replace an existing valve manifold and associated inputs (and sensors) associated with the End Cleaner Station and the Rod Pre-Positioner.	The new Rod Pre-Positioner will be located near the End Cleaner station thereby eliminating the need to continually adjust the Pre-Positioner based on rod length. To accomodate thishoweveraddtional solenoids at the End Cleaner station are required. Due to space limitations in the existing End Cleaner solenoid cabinetit was decided to replace the old Numatics Manifold with a smaller manifold (from SMC) which will permit more solenoidsas well as new inputs (for new and existing sensors). Additionallysome sensors will be replaced on the End Cleaner System due to Obosolescence.	End Cleaner Area of ADU Rod Line 4	ISA-10 ADU Rods

CCF	Title	Description	Justification	Location	ISA ID
10571	ADU Rod Line 4 Pre-Work for AP1000™ Modifications (Phase 2)	This part of the project is to add a new input block (for Sensors) at the bottom end of the line near the vibratory feeder. Additionally conduits and junction boxes affecing the power and some sensors for the Vibratory Feeder 25 Rod Transfer section and Pellet Loading Chuck will be relocated (in the case of conduits and junction boxes) and/or replaced (in the case of some sensors).	Several boxes and conduits are physically mounted to the rod line frame. These particular conduits and boxes are phsically in the way of the new AP1000™ frame(which will be installed under an separate CCF). Additionallysome sensors for the the pellet loading chuck are being relocatedadded or replaced (requiring new or additional inputs). These along with some existing sensors will be relocated to the new input block being installed as part of the this CCF.	Bottom Endo of ADU Rod Line 4 near Vibratory Feeder Table	ISA-10 ADU Rods
10573	Determ and Remove wires from Line 2 GE PLC Panel	Determinate and remove wires which used to go to hardware removed during Precipitator Tank Demolition. These wires are currently landed on the PLC terminal strip. The removal of these wires will require an ITR. Yes was checked on "Safety Significant Controls Affected" because the PLC has SSC contained with in it. CCF 10-410 for Line 4 is similar.	Equipment has been removed in field and wires were abandon in place until a full line verification of interlocks was planned.	ADU Conversion Line 2 PLC Cabinet	ISA-03 ADU Conversion
10576	Pipe plug Addition in ADU Line 3 Hot Oil Dryer System	To install a plug in the end of drain pipe for valve location 023-2 per drawing 336F04PI02. Also to update drawing 336F04PI02 to accomodate the current configuration (existing plug) at the end of pipe for valve location 024-4	To have drawing up to dateand eliminate safety hazard.	Hot Oil Dryer	ISA-03 ADU Conversion
10579	Temporary installation/removal of plastic sheet on line 5	Install plastic sheeting over IFBA rod line 5 to completet work with the ceiling tiles. Remove plastic once all ceiling work is complete.	Required by CSE-99-G.	IFBA dry room	ISA-12 IFBA Fuel Rod Manufacturing
10581	Stainless Steel Covers on Stacking Hood	Cover certain exposed tubing that makes up the stacking hood station with a 16GA or greater stainless steel cover. Drawing has already been modified via closeout of CCF 01172.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Stacking Station Hood Table	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10582	Install Heaters in Shipping Container Repair Shed	Install 2 overhead heaters in Shipping Container Repair Shed	Personnel comfort. Currently no heatingdifficult to work in winter.	Shipping container Repair shed; outside NW of Shipping and Receiving Dock	Miscellaneous
10583	Coater 1Main door gearmotor	Change the main door gearmotor on Coater 1 from a Bodine to a 'generic' 115 volt 1/4 HP full reversing gearmotor. (See CCF07628 for Coater 4)	The Bodine gearmotor is no longer available. Any brand gearmotor that meets the spec. of 115 volt1/4 hpfull reversing could be a replacement	IFBAFA1Coater 1	ISA-14 IFBA Processing
10584	Deficiencies with Fire Sprinkler Heads	This CCF is generated to address the deficiencies with the fire sprinkler heads located in the ceiling of the 1st floor front office area. Replace the existing concealed flush mount sprinkler heads located in the ceiling of the front office area with semi recess mounted pendent style sprinkler heads equipped with chrome trim rings. These new sprinkler heads rated at 155 degrees are U.L. Listed and FM Approved. Work will be done in accordance with NFPA-13.	The existing flush mount sprinkler heads are in poor condition. The cover plates on many of these sprinklers are broken and parts are not available.	Front Office Area 1st floor.	Miscellaneous
10587	D&V Pellet Inspection Modification (Line 3)	Reference CCF 10542 Install a more robust gearbox and slip-clutch for the pellet inspection fixture. The same components are already installed on line 4. Remove the clicker and associated components from the handwheel and base.	The current gearbox and slip-clutch are not reliable and not robust for the application in which they are used. The spring-loaded clicker mechanism breaks down with extended use and presents a foreign material hazard to the inspection fixture and pellets (metal shavings).	Line 3 D&V Inspection	ISA-08 Pelleting

CCF	Title	Description	Justification	Location	ISA ID
10590	Stainless Steel Cover on Line 4 Furnace Controls	Affix a 0.05 or thinner expanded stainless steel sheet to the back of the furnace control cabinet above the exit end of the furnace. A 24x13 flat sheet will be bent into a U-shape (24x10.5x1.25) and affixed to the railing on the rear of the control cabinet using bolts. Sheets will be cut and fitted as necessary to ensure proper coverage though no bending of the sheets will occur. No modifications will be performed on the cabinet itself. See attached sketch for idea of cover.	The frequency of EPNs due to paint chips is increasing. One possible cause is the presence of older painted surfaces surrounding our completed pellets and open carts. Eliminating the paint will reduce this as a cause for EPNS and minimize FM throughout the area.	Line 4 Furnaces Control Panels	ISA-08 Pelleting
10594	Pellet Team Room Eye Wash Station	Install a portable eye wash station similar to those found throughout the plant in the pellet team room. Reference LSS item #9790.	Since a reportable injury in the areaoperators have raised concerns about the possiblity of debris getting into their eyes. The nearest eyewash station is in the conversion areanot benefitting any operators working near the grinders or D&V stations.	Pellet Team Room	ISA-08 Pelleting
10597	temporary installation/removal of plastic enclosure	Install plastic enclosure in front of the washing machine in the scrap cage to contain dust that is generated while installing a SS plate in the floor per CCF 10528. Remove the plastic after all work is complete. The "roof" of the enclosure will be slanted like a tent to prevent liquid from accumulating.	Some of the current floor will need to be chipped up to install the SS platewhich may create airborne. The plastic enclosure will keep the airborne from escaping.	in front of the washing machine in the scrap cage	ISA-11 Scrap Uranium Processing
10598	Upgrade temperature controls on 1B Furnace	Replace radiomatic pyrometers with thermocouples. Temperature transmitters will be Moore THZ and overtemperature controllers will be Honeywell UDC 2500. SCR controllers will be Ametek HDR. This is similar to the upgrades that have been completed on 1A 1C 2A and 2C furnaces.	Radiomatic transmitters are less stable than thermocouplesthey have a low safe failure fractionthey do not function below about 1000C and they do not provide an independent overtemperature signal for alarms and interlocks.	1B furnace	ISA-08 Pelleting

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CCF	Title	Description	Justification	Location	ISA ID
10599	Rod channel sealing	This CCF is to cover the proposed new end cap sealing method. We will use parts designed and fabricated by the tooling group to seal the channels. The end caps are stainless steel with two holes cut out for a stainless steel strap to wrap around the channel and contact the channel through these holes. This friction from the cam lock mechanism will keep the cap in place and a tamper indicating device will show signs of tampering. See attached drawings.	NRC commitment to improve channel sealing in the rod storageQC inspection and final assembly areas.	Channels in the rod storage area	ISA-17 Final Assembly
10601	Erbia Laminar Module: VH9226 Gauge Installation	Install a Magnehelic gauge (0-1" WG) on laminar unit VH9226 (over the pellet press) in Erbia.	Prevenatative maintenance on the larminar hoods is required on a 13 week schedule. The gauge will give an indication whether the HEPA filters should be replaceddepending on the gauge reading during the PM. A PM cannot be properly completed without the presence of a gauge.	Erbia Pellet Press Laminar Hood (VH9226)	ISA-01 Plant Ventilation System
10602	Erbia Laminar Module: VH9260 Gauge Installation	Install a Magnehelic gauge (0-1" WG) on laminar unit VH9260 (over the pellet grinder) in Erbia.	Prevenatative maintenance on the laminar hoods is required on a 13 week schedule. The gauge will give an indication whether the HEPA filters should be replaceddepending on the gauge reading during the PM. A PM cannot be properly completed without the presence of a gauge.	Erbia Pellet Grinder Laminar Hood (VH9260)	ISA-01 Plant Ventilation System

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CCF	Title	Description	Justification	Location	ISA ID
10603	C.O.L.U.M.N. Minor Code Changes	SRN's :S-090713 S-100333 S-100675 S-100755 and S-100614.	S-090713: Make changes to the COLUMN Application to facilitate Compliance with Export License Requiremnts. This is related to CAPS issue 09-030-C004. S-100333: Modify all 741 transactions to force the recalculation of SWU if any of the input data is changed. S-100675: Currently when the volume is edited on a transaciton under Shipments the change is not saved and updated. The Modify transaction must be changed so that if the colume field is changed and the accept button is pressed the change is saved correctly. This addresses CAPS 10-160-C005. S-100755: When recieving a heel do not update record in the URM.SRD_RESULTS table for the header_#. This record should only be updated when recieving a full cylinder. S-100614: Modify COLUMN to check cylinder certification date upon receipt against the CYLINDER_DETAILS table to ensure the correct tare weight is assigned to the cylinder.	MC&A Reporting Group	Miscellaneous
10607	UT/Xray Walking Beam Guard	Add a blocking guard to the UT/Xray's rod soft handling walking beam.	The area where this equipment is located is now used for a team huddle and bystanders might be caught unaware by the movement of the walking beam.	CFFFQC Rod Soft Handling	ISA-10 ADU Rods

CCF	Title	Description	Justification	Location	ISA ID
10612	1C Furnace Piping Modifications	1. Remove lubricators from door cylinder air supply lines. Replace OEM regulator with Norgen regulator(S/R # 35040). Add Norgren filter(S/R # 35143) to supply line. See attached Norgren documents for regulator/filter specifications. Ref. CCF 09754 Part 1 & CCF 10044 Part 1 for similar change. 2. Add pressure gage to natural gas inlet line. See attached McDaniels document for gage specifications. Add plug valve prior to pressure gage. See attached Swagelok document for plug valve specifications. Ref. CCF 09754 Part 2 & CCF 10044 Part 2 for similar change. 3. Add valve to door cylinder air supply line. See attached Jamesbury document for valve specifications. Ref. CCF 09754 Part 4 & CCF 10044 Part 3 for similar change. 4. Add port to entrance and exit end furnace pressure monitoring lines. Ref. CCF 09754 Part 5 & CCF 10044 Part 4 for similar change. 5. Remake main pusher cover from Lexan. Ref. CCF 09754 Part 6 & CCF 10044 Part 5 for similar change.	1. Per the cylinder and solenoid manufacturerair lubrication is not required for cylinder and solenoid operation. This also alleviates the need to maintain lubricators that are not easily accessible. Dilapidated OEM regulator needs to be replaced. Filter(already allowed per 322F02PI01Sht 04) is needed to prevent debris from entering regulator and solenoids. 2. Provides ability to check natural gas pressure at an individual furnace. Plug valve is to provide gas pressure isolation to replace gage when needed. 3. Provide method to relieve pressure from door supply line for LOTO. 4. Provide method to tie-in calibrated gage to verify proper magnehelic gage reading. 5. Provide improved viewing of main pusher operation.	ADU Pelleting \ 1C Sintering Furnace	ISA-08 Pelleting
10613	Conversion line 5 calciner platform railing	Make the top railing of the feed end handrail removable for when the calciner seals are being replaced.	the hoist will not allow the components to be lifted high enough for removal to the floor.	calciner platform	ISA-03 ADU Conversion
10614	Add reset buttons to main pusher and timer 1B furnace	Add reset pushbuttons to the main pusher drive controller and the cycle timer on 1B sintering furnace. These changes have been successfully implemented on 1A furnace.	Eliminate need for operators to force cycle resets by unplugging the cycle timer. This results in failure of the timers.	1B furnace	ISA-08 Pelleting
10618	Remove the metal cabinet at line 2	Remove the metal cabinet at line 2 (shown in attached picture) that is mounted to the computer cabinet. Cover any holes as needed. This cabinet does not appear on any arrangement drawing.	Shelving units are being used to hold these materials and removing these cabinets will provide more space for people and carts to pass.	ADU Rod Line 2 Computer Cabinet	ISA-10 ADU Rods

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CCF	Title	Description	Justification	Location	ISA ID
10619	Remove the metal cabinet at line 3	Remove the metal cabinet at line 3 (shown in attached picture) that is mounted to the computer cabinet. Cover any holes as needed. This cabinet does not appear on the arrangement drawing.	Shelving units are being used to hold these materials and removing these cabinets will provide more space for people and carts to pass.	ADU Rod Line 3 Computer Cabinet	ISA-10 ADU Rods
10620	Remove computer podium at line 1	Remove the computer podium near the computer control cabinets at line 1. Assure there are no tripping hazards by grinding filing chipping patching etc. as needed.	Removing this podium will provide more space for people and carts to pass.	Line 1 near computer cabinets	ISA-10 ADU Rods
10621	Install flat panel television	Install a flat panel television similar to those used in the conference rooms outside of the Tube Prep Team Managers office.	To communicate priorities and other information and reduce the use of paper for these activities.	Outside TM office in Tube Prep area	Miscellaneous

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CCF	Title	Description	Justification	Location	ISA ID
10626	WIN Top Nozzle Assembly Fixture	CURRENT FIXTURE: When the WIN Top Nozzle was developed a fixture was designed to assemble the nozzle. This fixture was intended for development or fixture prove out only however it becamet a production tool. This assembly fixture is not operator friendly it is difficult to load and unload nozzles and the amout of parts that need to be changed out from 17x17 to 16x16 or XL 17x17 can be confusing to the operator which could lead to scrap or damaged product. This fixture is also pneumatic and when in production of a large amount of nozzles it was noticed that the cylinders would stick causing down time. PPT/IQA requested that hard stops be mounted safeguard against over deflection this would add more pieces to an already cluttered fixture. The new fixture is similar to the old in looks however the pneumatics have been replaced with encoder driven motors. The top of the spring compression unit will now move back away from the operator for easy loading and unloading and there is only one plate that needs to change out when changing from one nozzle style to another. This fixture is programmable there will be a program for each part number there are also sensors that will detect what style of nozzle that is in the fixture (16x16 17x17 STD Force 17x17 Low Force and 17x17 LX). The controller will have a feature	The original fixture was designed for test articles and to prove that the fixture design would work.	Machine Shop	ISA-17 Final Assembly
10631	Replace UCON DI Water Heaters	Replace the two existing 12 kw UCON DI water heaters with new 18 kw heaters. Install two heater element temperature controllers. Controllers are for High and High High element temperature shutdown. The water temperature control loop will not be changed.	In cold weather the UCON hot wash cycle does not maintain minimum temperature requirements within the cycle time limits. This delays production requirements due to extended cycle times. This event also requires additional monitoring by production personnel.	Final Assembly UCON Wash Station	ISA-17 Final Assembly

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CCF	Title	Description	Justification	Location	ISA ID
10632	Install UPS power feeds to Criticality Stations 141516and 17.	Remove the local stand alone UPS units and power feeds to criticality alarm stations 14 15 16 and 17. Install a dedicated uninterruptible power supply circuit to each station from URP-SUB6.	Criticality alarm stations 141516and 17 require 120 vac uninterruptable power. Each of these stations has a small stand alone UPS supplying power to the station. These small UPS stations have proven to be unreliable and require daily checks by instrument technicians to verify they are operational. Past failures of these UPS units has resulted in false alarms at individual stations. The new feeds are from the more reliable UPS system originating from the main building. The main building UPS systems are fed from both the normal power and emergency generators.	Sub 6 and outdoor Criticality Stations 14,15, 16 and 17	Grounds
10633	Line 1 Boat Loader Clamp Guard	Add a guard over the boat loader clamp piston. This is detailed on drawing 321F10EQ01. 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. Eventually all lines will be covered with this same guard with separate CCFs.	Pellet Line 1 Boat Loader	ISA-08 Pelleting
10634	Erbia Sift Hood Plastic Tools	Allow the use of plastic tools instead of metal ones in the Erbia Sifting Hood. These tools will include at a minimum a scraper a medium size scoop and a sample spoon.	During the investigation of CAPs issue 10-159-C025it was determined that the metal tools used in the sifting hood are damaging the metal sifting screen. Any holes in the screen can result in a major quality excursion with large amounts of material scrapped. The solution is to use plastic tools instead of metal ones. This does not affect any SSCs. The types of tools will be administratively controlled by a procedure change.	2nd Floor Erbia Sifting Hood	ISA-20 ERBIA

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CCF	Title	Description	Justification	Location	ISA ID
10641	Install grounding for Flamable Container Cabinet	Sink a ground rod at the north west corner of the shipping container refurbish building; cad weld ground cable to beam inside and provide local grounding for new cabinet.	Existing "barrel" is not grounded.	Shipping container Refurbish building	Grounds
10645	ADU Line 1 V101B lid hinges repair	Add spacer to properly align lid hinges. Then weld.	lid is misaligned and not fully closing.	V101B	ISA-03 ADU Conversion
10646	Change storeromm spec 63236	Change SR# 63236 specification to: VALVE ASSBMBLY PLUG VALVE XOMOX TUFLINE 1/2"067TS66P1N 316SS BODY AND PLUG AND TERTIARY SEAL 150# FLANGED TEFLON SLEEVE WITH HYTORK XL71SR60 ACTUATOR 1040NBY WESTLOCK POSITION INDICATOR/LIMIT SWITCH and ASCO WT8551A001MS24VDC 24VDC Solenoid PART# 1/2"067TS66P1N-XL71SR60-1040NBY-WT8551A001MS24VDC	SR # 63236 is for an actuated Xomox valve. The vendor has advised us that the actuator is oversized and that we should specify a smaller actuator.	All ADU lines	ISA-03 ADU Conversion
10648	DI Water - City Water Inlet Piping Replacement	Replace the city water inlet piping to the DI water system. Replacement to include from the isolation valve outside the east wall through the pressure regulators down to the first tee on system A and system B. Provide valving to be used when the systems are replaced. Eliminate obsolete orifice flanges used for flow meters.	The city water inlet piping to the DI water system is severly corroding from the inside. There are currently seven (7) fiberglass wrap patches on through leaks. Current leaks have all been pin hole leaks from the inside out and could be patched with fiberglass wrap. A large leak or failure of this pipe would shut down the DI water system.	DI Water Building	Miscellaneous
10649	Storeroom setup sheet change for Warner clutch.	Change the storeroom setup sheet for the new Warner clutch. This will allow us to stock the new upgraded clutch and use this item as a substitution for the existing unit. Original part number is 5370-536-008 the new number is 5370-536-200. The new unit is designed to handle a higher heat dissapation. Storeroom number is 355020.	The older unit is obsoletethe new unit is a direct replacementthe new unit has a greater heat dissapation capability.	QC rod soft handling	Miscellaneous
10653	Ergonomic floor mat at Repair Lathe	Attach rubber mat to floor for ergonomic purpose at rework Lathe station by using a 1" strip of SS and three anchor bolts to hold mat in place.	Justification for this is to keep mats from moving causing a tripping hazard.	Rework in ADU Rods	ISA-10 ADU Rods

CCF	Title	Description	Justification	Location	ISA ID
10661	Ergonomic floor mats	Attach rubber floor mats to floor for ergonomic purpose at plenum hood and scrap lathe in rework area by using a 1" strip of SS and three anchor bolts in floor to hold mat in place.	This will keep mat from moving which could cause a tripping hazard if not anchored.	ADU Rods (Chemical)	ISA-10 ADU Rods
10662	Replace obselete oil skimmer recirculation pump on RAMCO Degreaser	Replace obselete oil skimmer recirculation pump on RAMCO Degreaser with factory recommended replacement. Grundfos UP15-29SU(SKU #59896775) is the replacement unit for the obselete Grundfos UP15-18SU (SKU # 59896127).	Original pump is obselete.	RAMCO Strap Cleaning System	Components
10665	Spiking Station Lock Installation	The doors on the front and side of the spiking stations will be fitted with locks to assure that they stay closed. The sliding doors on the back will be secured with screws.	The new ISA in which the spiking stations are involvedcontains an IROFS that the doors must remain closed. The means of securing the doors as listed above will help assure that the IROFS is not violated.	Spiking station 1&2	ISA-02 Uranyl Nitrite Bulk Storage Tanks
10666	Washing Machine Plumbing Upgrade CCF #1	The work covered under this CCF is as follows: - Replace the discharge line system from the three Wash Machine discharge pumps to the top of the vertical section of the common discharge pipe line. -Replace existing stainless steel discharge tubing and piping with Kynar pipe and PFA tubing. -Replace identified existing discharge line check valves manual valves and replace and rewire control valves with non-metallic valves. - Disconnect and plug the Agitate Wash #2 discharge line interface at the T-fitting.	Approved project	Scrap Cage	ISA-11 Scrap Uranium Processing

CCF	Title	Description	Justification	Location	ISA ID
10667	Washing Maching Plumbing Upgrade Phase 2	The work covered under this CCF is as follows: -Replace the waste stream discharge line system for Agitate Wash Station #2 and Pressure Wash Station #2. -Replace existing stainless steel discharge tubing and piping with Kynar pipe and PFA tubing. -Replace identified existing discharge line check valves manual valves and replace and rewire control valves with non-metallic valves replace level sensors. -Replace the Agitate Wash Station #2 vessel discharge pipe nipple with a Stainless Steel 3000# coupling. -Remove low level sensor from pressure washer 2 housing.	Approved project.	Scrap Cage	ISA-11 Scrap Uranium Processing
10668	Upgrade Fire Pump 1 Jockey Pump Control	The Jockey Pump for Fire Pump #1 has a 480vac control circuit. This CCF will allow us to install a transformer an change the control voltage from 480vac to 120vac.	We do not stock motor starters with 480vac coils. This is also an error precursor to having the wrong voltage coil installed. It is also much safer to have the control voltage dropped to 120vac.	Jockey Pump in Diesel Fire Pump #1 Building	Miscellaneous
10683	Replace Control Valve on the V-116A and V-216A Q-Tanks with a Manual Valve in Recirculation Line	Replace control valve LCV-116B with a manual valve. LCV-116B controls the amount of fluid that is recirculated through the V-116A or the V-216A Q-Tanks.	Replacing LCV-116B will allow operations to adjust and set the recirculation rate on Q-Tanks V-116A or V-216A by throttling the new manual valve. This will give them better control over the recirculation rate compared to the current setup and will allow operations to better determine the preferred recycle flow rate. Data collected from this modification will be analyzed to determine the best mode of operation for the long term. This change will allow control of the recirculation rate the same way that the recirculation rate is currently controlled on V-116C and V-216C.	Q-Tanks V-116A and V-216A in the ADU Conversion Area	ISA-03 ADU Conversion

CCF	Title	Description	Justification	Location	ISA ID
10684	Replace Control Valve on the V-116B and V-216B Q-Tanks with a Manual Valve in Recirculation Line	Replace control valve LCV-116B2 with a manual valve. LCV-116B2 controls the amount of fluid that is recirculated through the V-116B or the V-216B Q-Tanks.	Replacing LCV-116B2 will allow operations to adjust and set the recirculation rate on Q-Tanks V-116B or V-216B by throttling the new manual valve. This will give them better control over the recirculation rate compared to the current setup and will allow operations to better determine the preferred recycle flow rate. Data collected from this modification will be analyzed to determine the best mode of operation for the long term. This change will allow control of the recirculation rate the same way that the recirculation rate is currently controlled on V-116C and V-216C.	Q-Tanks V-116B and V-216B in the ADU Conversion Area	ISA-03 ADU Conversion
10686	Oil House Arrangement	Arrange drums in Oil House to best fit the area.	Oil House drums are not organized in the best location causing drums to be set out of order.	Oil House	Miscellaneous
10687	Remove Out of Service Nitric Acid Line	When the Program Activity Monitor was removed the nitric acid line that was used for acid washing the monitor was not removed. This project will remove the nitric acid line.	The line is Out of Service and is in the way on the Q-Tank mezzanine platform. It is also a potential source of leaks.	Q-Tank Mezzanine Platform in the ADU Conversion Area	ISA-03 ADU Conversion
10688	Remove Out of Service Flow Transmitter and Flow Totalizer from ADU Waste Effluent Discharge Line	This project will remove an Out of Service flow transmitter and flow totalizer from the ADU waste effluent discharge line located on the Q-Tank mezzanine platform. A new section of pipe will be installed to replace the instruments and piping that is removed	The flow transmitter and the flow totalizer have been Out of Service for years. This flow is currently measured by a flow transmitter located in the Waterglass Building. This will eliminate some obsolete instrumentation and eliminate some potential sources of leaks and will reduce some of the pressure drop in the discharge piping.	Q-Tank Mezzanine Platform in the ADU Conversion Area	ISA-03 ADU Conversion

CCF	Title	Description	Justification	Location	ISA ID
10689	Brick Saw Ventilation Removal	Remove the self contained ventilation system from the Brick Saw Station. The Brick Saw Station is located in the Chemical Area Maintenance Mechanical Shop. The saw is used to wet cut brick to fit into the ADU and Erbia Sintering furnaces. To my knowledge there are no drawings in Matrix on this system.	The ventilation system is a relic from when the furnace brick was dry cut. Because the brick is wet cutthe ventilation system is not required. The wet slurry created when cutting the brick will be contained in the saw hood. Maintenance will be reponsible for cleaning after each brick cutting campaign to minimize brick dust from becoming airborne. Note because only new brick is cut with the sawairborne uranium is not an issue. Removing the ventilation system will reduce the size of the brick cutting stationand thusprovide additional space in the area.	Chemical Area Maintenance Mechanical Shop\Brick Saw Station	Miscellaneous
10690	Reroute Lines at the Old Program Activity Monitor	When the Program Activity Monitor was removed it left some piping in the middle of the Q-Tank mezzanine platform. This project will eliminate one 1" line that is no longer required and will reroute another 1-1/2" line so that it does not penetrate the mezzanine platform steel floor plate.	The piping as configured is in the way and creates a tripping hazard. Making the proposed changes will eliminate several potential leak sources.	Q-Tank Mezzanine Platform in the ADU Conversion Area	ISA-03 ADU Conversion
10693	Add new gripper pad material for AVIS gripper	Add the option to use black nylon for the gripper pad material.	The current Delrin material has a tendency to scrape the tube. Nylon may be a better material.	Line 8 AVIS	ISA-10 ADU Rods
10703	Install Differential Pressure Transmitter Around Filters FL-116A1&A2	Install differential pressure transmitter around bag filters FL-116A1 and FL-116A2. This CCF is for the mechanical installation only.	A differential pressure transmitter will give a more reliable reading of the pressure drop around the online filter. The existing pressure gauges are not reliable. This will also provide an alarm for the operators that will alert them to when it is time to switch filters.	Q-Tanks V-116A and V-216A in the ADU Conversion Area	ISA-03 ADU Conversion

CCF	Title	Description	Justification	Location	ISA ID
10704	Install Differential Pressure Transmitter Around Filters FL-116B1&B2	Install differential pressure transmitter around bag filters FL-116B1 and FL-116B2. This CCF is for the mechanical installation only.	A differential pressure transmitter will give a more reliable reading of the pressure drop around the online filter. The existing pressure gauges are not reliable. This will also provide an alarm for the operators that will alert them to when it is time to switch filters.	Q-Tanks V-116B and V-216B in the ADU Conversion Area	ISA-03 ADU Conversion
10705	Install Differential Pressure Transmitter Around Filters FL-116C1&C2	Install differential pressure transmitter around bag filters FL-116C1 and FL-116C2. This CCF is for the mechanical installation only.	A differential pressure transmitter will give a more reliable reading of the pressure drop around the online filter. The existing pressure gauges are not reliable. This will also provide an alarm for the operators that will alert them to when it is time to switch filters.	Q-Tanks V-116C and V-216C in the ADU Conversion Area	ISA-03 ADU Conversion

CCF	Title	Description	Justification	Location	ISA ID
10706	Install Flow Indicator and Bypass Line at the Primary Activity MonitorsWWM-1A & WWM-1B	A flow indicator bypass line and associated valves will be installed at the Q-Tank Primary Activity Monitors WWM-1A and WWM-1B. This will allow a portion of the waste water effluent to be metered through the activity monitors and the bulk of the flow to be allowed to bypass the monitors. Tests will be conducted to determine if there is any appreciable difference in the activity measurement when only a small portion of the waste efflent is diverted thru the monitor as opposed to running the entire effluent stream through the monitor.	The current design of the Primary (WWM-1A and WWM-1B)and Final (WWM-3A and WWM-3B)Q-Tank Activity Monitors is for a much smaller flow rate than the flow rate normally encountered in the Q-Tank process. These higher flow rates lead to excessive pressure drops through the monitors which requires larger pumps to meet the flow and head requirements of the Q-Tank system. This is especially true for the P-116B and P-216B pumps that transfer the ADU waste effluent from the Q-Tanks to the Waterglass Feed Storage Tanks outside. This CCF will allow modifications to the Primary Activity Monitor to determine if it is feasible to only run a small side stream to the monitors and allow the bulk of the stream to bypass the monitor. If these tests are successful then consideration would be given to modifying the Final Activity Monitor in a similar fashion under a new CCF. The Primary Activity Monitor is for process control and is not a Safety Significant Control.	Q-Tank Mezzanine Platform in the ADU Conversion Area	ISA-03 ADU Conversion
10708	Remill Station 1 Control Wiring Upgrade	Install larger transformer in REMILL station #1. and Fuse accordingly.	Existing transformer is undersized.	Remill station #1	ISA-03 ADU Conversion
10710	replace line 2 lined piping	Replace the lined piping on V202 V206 and V205. The P202 pumps will also be replaced with mag-drive pumps and the by-pass line on the discharge of P202 will be eliminated. The new lined piping will be lined with Teflon.	Lined piping has begun to fail on all the linesespecially where the old lining is polypropelene. Mag-drive pumps have been proven on other lines x02 pumpsand eliminate seal leaks.	front end of line 2	ISA-03 ADU Conversion
10714	Stainless Steel panels on wall near pellet transfer hood	Install two pieces of 14 Ga. SS panels 17.5 x 36 on wall at opening of pellet transfer hood to keep pellet pusher from touching concrete wall while not in use.	There are FME concerns while trying to hang pellet pusher on wall hanger at this station.	Pellet transfer at fixture loading IFBA Area.	ISA-14 IFBA Processing

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10737	ION Gauge Tube Substitution	We are currently using Varian "572" Bayard Alpert Ion Gauge Vacuum Tubes on the Fuel Rod Helium Leak Checker. This CCF will allow us to use the "571" or "572" model of Varian gauge tubes.	The "572" is a dual element modelthe 571 is a single element. The 571 is standard througout the plant. Only one element is used at a time when the gauge is in service. We are currently having issues with the a bad "batch" of 572 tubes from the factory.	Fuel Rod Helium Leakchecker	Clean Side Rod Area
10742	D&V Hood Micrometer Wiring	Add a hole on both sides of the D&V hood table to allow for a micrometer cable to pass through.	A green belt project identified the need for ChAMPS-connected micrometers at the D&V hoods. This change will ultimately aid the QC department in reducing sampling frequency and improve quality through recorded sampling at the D&V hoods.	Area D&V Hoods	ISA-08 Pelleting
10744	construction related CAA tempory adjustmants	Tempory modifications to CAA boundry.	Construction activities related to the expansion project necessetate tempory adjustment modifications to CAA boundry.	CFFF site	Grounds
10748	Retractable Barriers	Install retractable barrier at entrance of ADU Rodline #1 and Rodline #4. The retractable barrier at entrance of line one will be attached to pellet team room and ADU Rods rework structure. The Barrier at entrance of line four will be attached to handrails. Both barries will state No Walk-Thru Work Zone.	This area is not a walk thru but a work zone. Currently trying to make this area safe for operators while loading rods.	ADU Rods lines 1 and 4	ISA-10 ADU Rods
10756	Fire Hydrant #6 Replacement	Replace #6 Fire Hydrant. The existing hydrant is a 1967 vintage and leaking. The new hydrant manufactured by M & H Valve Co is equipped with (2) hose outlets and (1) pumper outlet.	The existing hydrant is a 1967 vintage and leaking.	Building & Grounds Fire Loop	Miscellaneous

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10764	Mobile DI Water System Capacity Verification	Connect a GE Water & Process Technologies 'MultiFlow 6000S Demineralizer' DI water generating system to the plant DI water distribution system. System will consist of cation anion and mixed resin beds similar to the existing DI water system. Water will be tested for all quality parameters per CF-83-027 before introduction into the plant distribution system. Connections into the plant distribution system were installed under CCF #09657. The first trial was completed under CCF #10494. This trial will flow additonal water through the system to the storm drains to maintain a minimum flow through the unit of 40 GPM. This was reviewed and approved with EH&S Engineer Cynthia Logsdon. Since this is a temporary installation and the electrical needs are very minor an extension cord will be run from the DI Water building to the Portable Unit. The extension cord and water hoses will be protected by crossovers at both the driveway to the substation and the entry to the DI Water building. Prefabricated plastic crossovers will be purchased. Trailer location and layout has been reviewed with Jeff Hooper.	DI water is a production critical commodity and required for production in nearly every area of the plant. The first trial verified the quality of the water produced but the trailer depleted earlier than expected. This is believed to be from channelling through the vessels due to low flows. This trial will maintain a minimum 40 GPM through the vessels reducing/eliminating the channelling effects and thus verifying the total capacity of the mobile system.	DI Water Building	Miscellaneous
10773	Reinforce support channels in the Chemical Cooling Tower	Reinforce the motor / gearbox support channels in the "A" cell of the Chemical Cooling Tower System. All design and field work will be performed by the OEM. See vendor supplied drawings and scope of work for further details. (Attachments)	This work is required because of fatigue cracking on the fan drive support channels.	Chemical Cooling Tower	Miscellaneous
10789	washing machine sleeve	Allow the agitator washing machines to run with or without the teflon sleeve that sits between the basket and the shaft housing. See 333F05EQ01 sheet 82.	On agitator #2the sleeve is determined to not be necessary due to basket stability	washing machine agitator	ISA-03 ADU Conversion

Westinghouse Non-Proprietary Class 3

CCF	Title	Description	Justification	Location	ISA ID
10833	Non-fuel x-ray generator replacement	Remove and replace exisiting temporary Gulmay x-ray generator with the recently repaired GE Titan unit.	Original the unit was repaired.	Non-fuel x-ray unit mechanical side	Components