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

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

Direct tel: 803-647-3338
Direct fax: 803-695-3964
e-mail: parrnb@westinghouse.com
Our ref: LTR-RAC-18-5

Date: January 30, 2018

SUBJECT: WESTINGHOUSE 10CFR70.72 FACILITY CHANGE REPORT

Westinghouse Electric Company LLC (Westinghouse) hereby submits the report of Columbia Fuel Fabrication Facility (CFFF) changes that did not require Nuclear Regulatory Commission (NRC) pre-approval in accordance with 10CFR70.72. This report addresses those changes completed within calendar year 2017. Westinghouse had no facility changes that required NRC pre-approval during this time period.

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

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

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

Each of the changes identified in the attachment to this correspondence were evaluated in accordance with this RA-104 procedure, and a determination was made that NRC pre-approval of the respective change was not required.

© 2018 Westinghouse Electric Company LLC. All Rights Reserved.

If you have any questions regarding this information, please contact me at (803) 647-3338.

Sincerely,

Nancy Blair Parr

Nancy Blair Parr, Manager
Licensing
Westinghouse Columbia Fuel Fabrication Facility
Docket 70-1151 License SNM -1107

Attachment 1: Westinghouse CFFF 2017 Facility Change Report (29 pages)

CC:

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

U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Maryland 20852-2738
Attn: Ms. Marilyn Diaz - Mail Stop T4 A 60

2017 CCF Approved by Engineer for Startup

Name	Title	Description	Justification	ISA ID	Location
14343	Replace welded valves with flanged valves	Replace existing welded valves with flanged valves.	Current welded valves are leaking. This CCF will update these valves to the new style used in the scrap area.	ISA-14 IFBA Processing	Several places in the scrap area leading into and out of the filter press specifically as well as discharge to URRS.
14368	P-3A Replacement and Relocation	Replace P-3A with a 5 HP pump, and relocate it further from P-3B.	Pump condition is degrading. Relocation would make future P-3B replacement easier.	ISA-06 Chemicals Receipt, Handling and Storage	Tank Farm
15116	Line 4 - Demolition	Remove abandoned Line 4 PLC cabinets and associated conduits and wiring.	Equipment is out of service.	ISA-03 ADU Conversion	Line 4 ADU Conversion
15169	Remove T-1040 Agitator	Remove tank agitator and blind off nozzle/plate where agitator entered tank. Replace recirculation dip leg with drip tip.	Agitators are not necessary to produce a homogenous UN solution and require inspection and repair (require confined space entry) and are not sealed, so that FME could enter the tank.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	UN Bulk Storage
15243	Conversion Line 2 Decanter Frame and Clamshell Housing Replacement	Replace the decanter frame and housing on conversion line 2.	The frame is corroding.	ISA-03 ADU Conversion	Line 2 Decanter
15255	Removal and Replacement of Acetone Dispensing Station	Remove the existing acetone dispensing station across the aisle from the new ECG machine area near column 15A.	The existing acetone dispensing station is too close to the gas fired heater on the corner over the aisle near column 15A and will be too close to the new ECG machine.	Components	Aisle between columns 13A & 14A
15430	Offline Press Electrical Demo.	Demo offline press electrical panel.	Panel required for Line 3 press installation per CCF 16086.	ISA-08 Pelleting	Chemical Area Tool Shop/Offline Press Rebuild Area
15492	Replace Dryer Bearing Grease on Line 3	Change the lubrication grease to the same type used on Line 4.	The current lubrication grease for the hot oil dryer bearings was found to be of poor quality.	ISA-03 ADU Conversion	Conversion Line 3
15503	Coater 3 Controller Replacement	Replace coater controller with an up-to-date version of the new series controller.	Current controllers are obsolete.	ISA-14 IFBA Processing	Coater 3
15602	ADU Line 3 Calciner Safety Upgrades Phase II	Install instrumentation and equipment related to the Line 3 Calciner and Scrubber upgrades.	The addition of these controls will provide defense-in-depth in the active engineered control systems for hydrogen deflagration mitigation.	ISA-03 ADU Conversion	ADU Line 3 Calciner and Scrubber
15608	Increase the size of stack drain line on Pressure Safety Valves on the P M Boiler	Drain lines will be increased to 1/2" tubing and routed to a visible discharge location.	The consultant performing the annual Boiler inspection recommended we increase the size of the PSV stack drains.	Grounds	Boiler House #1
15636	Replace Access Ladder at Rod Area Line 4 with a Counter Balanced Ladder	Remove the out of service access ladder by line 4 in the ADU Rod area and install the new aluminum counter balanced ladder.	This access ladder was removed from service. The replacement ladder will provide safety features the out of service ladder did not have.	ISA-10 ADU Rods	ADU Rod Line 4
15649	Change Pumps P-7157A and P-7157B to P-200 Pumps	Replace existing diaphragm pumps P-7157A (acid basin drain) and P-7157B (V-7157 recirculation) with P-200 1" diaphragm pumps. Modify piping runs as necessary to accommodate new pump suction, discharge and air lines.	Current diaphragm pumps are obsolete.	ISA-14 IFBA Processing	IFBA scrap area acid basin drain pump and V-7157 recirculation pump.
16014	Pressure Relief Valve on P M Deaerator Tank	Install on PSV-1139C and piped through the Boiler House roof.	Currently, PSV-1139C on the deaerator tank for the P M Boiler has no tailpipe and vents in to the Boiler House. This is an unsafe condition.	Grounds	Boiler House #1
16020	Heat Trace for CSB Emergency Eye Wash / Shower & Sprinkler Piping	Provide heat traces for water lines associated with the CSB (chemical storage buildings).	Part of the UF6 expansion pad and needed for safety	ISA-03 ADU Conversion	Chemical Storage Building (CSB) old paint booth
16023	Charging Station for Reach Truck Used in Project Storage Building	Install a charging station inside the PSE Project Storage Building for the reach-truck used for moving materials in the building.	This reach-truck and existing forklift are shared between the PSE Project Storage Building and the CSB. The most convenient location is in the Project Storage Building.	Grounds	PSE Project Storage Building

Name	Title	Description	Justification	ISA ID	Location
16030	Install HVAC Mini Split and Backup Ventilation Fan on Furnace Controls Enclosure	Install HVAC mini split and backup ventilation fan on furnace controls enclosure and include installation of a ceiling hatch and access ladder inside enclosure room.	This will allow air conditioning for room and backup ventilation fan to handle heat load from future electrical/controls panels.	ISA-01 Plant Ventilation System	Pelleting Area at new mezzanine
16044	Plating Room Makeup Air Unit Modification	Install new components to support the plating room makeup air units.	The existing makeup air unit is undersized for the vent hood/scrubber exhaust.	Components	Nickel Plating Room
16086	Line 3 R53 Press Upgrade	Update R53 Press electrical and mechanical components and controls.	Improve press performance.	ISA-08 Pelleting	ADU Pelleting \ Line 3 R53 Press
16117	Sump Pump for Cardboard Shed	Cover the installation of a sump at the rear of the cardboard storage shed to eliminate pooling water near the power panel during heavy rains.	Part of the UF6 Expansion project effort.	ISA-03 ADU Conversion	In the gravel area between the Cardboard storage shed and the new UF6 expansion pad.
16145	Remove Handrail Section Directly Behind Ladder on ADU Line 3 Platform.	Remove handrail section directly behind ladder on ADU Line 3 platform.	When an individual is climbing the ladder, it is quite possible to step on the handrail instead.	ISA-03 ADU Conversion	Conversion, ADU Line 3, handrail on platform
16180	Pelleting Line 3 Front End Structural Modification	Modify Line 3 structure around press per for construction drawings.	Changes will improve accessibility around press drive enclosure, improve second level floor support and improve mounting location of various press components.	ISA-08 Pelleting	ADU Pelleting \ Line 3 Front-end Structure
16181	CL3 - Calciner Phase II Safety Improvements (Mechanical)	Install new valving and instrumentation to improve safe operation of C-309 Calciner and adjacent equipment.	This CCF continues capital safety upgrades previously completed on CL2/4/5.	ISA-03 ADU Conversion	ADU Line 3
16188	Line 1 Moisture Sampler Modification	The Keyence sensor will be disabled. The determination that a sample has been retrieved will rely only on the Banner sensor.	The Keyence LASER sensor currently in use is obsolete.	ISA-03 ADU Conversion	UO2 powder sampler
16189	Line 1 Moisture Sampler Modification	The Keyence sensor will be removed. The determination that a sample has been retrieved will rely only on the Banner sensor.	The Keyence LASER sensor currently in use is obsolete.	ISA-03 ADU Conversion	UO2 powder sampler
16190	Line 2 Moisture Sampler Modification	The Keyence sensor will be disabled. The determination that a sample has been retrieved will rely only on the Banner sensor.	The Keyence LASER sensor currently in use is obsolete.	ISA-03 ADU Conversion	UO2 powder sampler
16191	Line 2 Moisture Sampler Modification	The Keyence sensor will be removed. The determination that a sample has been retrieved will rely only on the Banner sensor.	The Keyence LASER sensor currently in use is obsolete.	ISA-03 ADU Conversion	UO2 powder sampler
16192	Line 3 Moisture Sampler Modification	The Keyence sensor will be disabled. The determination that a sample has been retrieved will rely only on the Banner sensor.	The Keyence LASER sensor currently in use is obsolete.	ISA-03 ADU Conversion	UO2 powder sampler
16203	Removal or Re-routing of Services and Yellow Stand in the IFBA Chem Lab and Removal of Thermal Cycling Test Equipment	Relocate or removal of electrical, computer or gas services to enable the removal of the yellow stand.	Remove out of service items and consolidate services.	ISA-18 Laboratories	IFBA Chemical Lab
16253	New ICP in Chemical Lab	This project will purchase and install new analytical equipment to replace existing equipment used to analyze impurities	The optical ICP (Inductively Coupled Plasma) that was purchased in 1994 is obsolete and is no longer supported by the supplier.	ISA-18 Laboratories	Chemical Lab - ICP and Mass Spectrometer Room
16261	Eliminate One Cylinder Storage Location in UF6 Bay	Eliminate a cylinder storage location in UF6 bay to allow relocation of a process valve manifold.	Removing the cylinder storage location will provide additional needed clearance for new location of valve manifold.	ISA-03 ADU Conversion	UF6 Bay by cylinder conveyor
16273	Re-Pipe N2 supply for Furnace 5A	Add new ball valve for N2 supply on Furnace 5A and re-pipe.	Need to provide new isolation for Nitrogen on Furnace 5A for Safety and Process Improvements	ISA-08 Pelleting	Pelleting - ADU Sintering Furnaces

2017 CCF Approved by Engineer for Startup

Name	Title	Description	Justification	ISA ID	Location
16284	Use of New Gasket Material on Vaporizer 401B	Allow for new gasket to be used as a test material for a gasket in vaporizer 401B.	The current gaskets create an excellent seal, but are expensive and can only be used once or twice before replacement is required.	ISA-03 ADU Conversion	Vaporizer 401B
16331	Guard for Fencing Located at Entrance to Shipping/Receiving Area at Dock 2	A guard system will be installed to mitigate damage to fencing and associated hardware at entrance to Dock 2 (Shipping/Receiving) areas.	Fence has been damaged previously by transport equipment.	Grounds	Aisle way between Shipping/Receiving at Dock 2 and Product Storeroom. Fence is located on Shipping/Receiving side of aisle
16338	Hand Rail Replacement	Replace yellow painted handrail on the stairs and on the mezzanine above UT1 & UT2.	This change is an effort to reduce FM in the rod inspection area.	ISA-10 ADU Rods	QC rod, above UT 1&2
16340	Non-Fuel Helium Leak Checker Vacuum Gauge Upgrade	Install new vacuum gauge in parallel with existing gauge for testing at Non-Fuel Helium Leak Checker.	Existing Varian gauges are obsolete.	Components	Non-Fuel Helium Leak Check
16354	Plant Composter	Install an in-vessel composter.	This project will reduce our monthly burial waste.	Grounds	Storage Pad
16361	ADU Sintering Furnace 5A Controls and Power Improvement and Major Furnace Rebuild	Replace drum controller and PLCs.	To address obsolescence and safety concerns.	ISA-08 Pelleting	Pellet Sintering Furnace 5A
16365	Compressor Room Fire Rating Upgrade	Replace existing doors and vent louvers.	Current doors and louvers are not fire rated.	ISA-03 ADU Conversion	CFFF, Chemical Area Compressor Room
16388	Replace #1 Diesel Driven Fire Pump	Install a new diesel powered fire pump.	The existing diesel powered fire pump has exceeded its life expectancy.	Grounds	#1 Fire Pump House
16389	Relocate Vane Angle View Machine "A"	Relocate vane angle view machine "A" from its current location to the QC Receiving/Inspection Room.	Places the equipment closer to where product is received and improves process flow.	Components	QC Receiving
16397	Grinder Pellet Exit Conveyor Work Rest Pivot Block Slide Plate Material Change	Change from carbide to stainless steel.	Material is readily available and easier to machine.	ISA-08 Pelleting	ADU Pelleting / Grinder Lines
16398	Erbia Roll Compactor Accumulator Replacement	Update S/R specifications to replace old accumulator with new accumulator.	Previous model is obsolete.	ISA-20 ERBIA	Erbia Powder Conditioning / Roll Compactor
16399	2A Sintering Furnace Cooling Water Modification	Install sentry and manual bypass.	The sentry will control flow to the cooling water manifold and the manual bypass will provide a method to redirect flow.	ISA-08 Pelleting	ADU Pelleting / 2A Sintering Furnace
16401	Sealand Container Relocation	Relocate sealands	Provide better accessibility.	Grounds	Plant Grounds
16433	Grid Marking Station at Laser A	Install one automated marking station for Laser A.	The station will reduce grid ID marking errors.	Components	New workstation at Laser A
16434	AC Unit for Fire Pump House #1	Install a 25,000 BTU AC unit in fire pump house #1.	This will provide cooling for the fire pump house which contains temperature sensitive electronic equipment.	Grounds	Fire Pump House #1
16449	Install Machine Monitoring Camera at the ECG Machine	Install a camera and monitor for the ECG machine.	The camera will be used for monitoring the progress of the machine as it cuts tubes.	Components	Located in new ECG room north of new tooling office
16450	Connect Fire Pumper Truck to #1 Fire Water Tank	Connect the suction side of a Fire Water Pumper Truck to #1 Fire Water Tank.	This Pumper Truck will serve as our redundant Fire Water Pump while the existing #1 Fire Water Pump / Diesel driver is being replaced.	Grounds	#1 Fire Pump House

Name	Title	Description	Justification	ISA ID	Location
16456	Relocate Vane Angle View Machine "B"	Relocate Vane Angle View Machine "B" from its current location to the QC Receiving/Inspection Room.	Places the equipment closer to where product is received and improves process flow.	ISA-10 ADU Rods	QC Receiving
16464	Replace existing Teflon Valve Seat in P-1018 with Stainless Steel	Replace existing Teflon Valve Seat in P-1018 (Scrap Recovery / Liquid Waste Storage)	The stainless steel valve seat is more reliable than the teflon valve seat.	ISA-11 Scrap Uranium Processing	Scrap Cage, Liquid Waste Storage Column, P-1018
16467	Install a new back-up nitrogen header to supply pellet sintering furnaces 5A and 5B	Install a new header segment from the back-up nitrogen supply line near its connection to the main nitrogen supply.	The planned back-up nitrogen header will allow furnaces to be purged independently as needed upon tripping of specific Safety Significant Controls.	ISA-08 Pelleting	Pelleting Furnace Area
16468	Install a new back-up nitrogen header to supply pellet sintering furnaces 1A to 4C	Install a new header segment from the back-up nitrogen supply line near its connection to the main nitrogen supply.	The planned back-up nitrogen header will allow furnaces to be purged independently as needed upon tripping of specific Safety Significant Controls.	ISA-08 Pelleting	Pelleting Furnace Area
16481	Electrical Installation of a new AC system for the Plating Room	Provide power and installation of an electrical control system for a new air conditioning system for the plating room.	The present air conditioning system is aged and needs to be replaced as a preventative measure.	Components	Plating Room
16485	Add Chlorine Sample Chiller for Chlorine Analyzer	Add chlorine sample chiller for chlorine analyzer	To provide an ambient temperature for samples to be analyzed.	Grounds	EPA Building near Still 2 control room
16491	Remove equipment in the PE Lab	Assorted items that are no longer used in the PE Lab will be removed in order to provide space for incoming equipment.	Providing space for new equipment which is needed for PE test and analysis purposes.	ISA-18 Laboratories	Product Engineering Test Lab - Tooling Area
16519	Modifications to Incinerator RAM Controls and Safety System Upgrades	Modify controls for Incinerator RAM controls, upgrage safety PLC software and PLC components.	Current version of Safety PLC software is no longer supported by the manufacturer. Some safety hardware components are obsolete and the non-safety controls for the RAM are difficult for operators to use.	ISA-13 Low Level Radioactive Waste Processing	Chemical Area - Inside URRS
16520	Removal of Electrical Components and Wiring on ADU Sintering Furnace 3C	Remove BPCS controls/wiring and panels for furnace 3C.	The BPCS layer is integrated with the Safety Layer and needs to be separated per IEC61511 standards and some controls are obsolete.	ISA-08 Pelleting	Chemical Side - Pelleting - ADU Sintering Furnaces
16530	Chem Lab Ash Machine Removal	Remove existing ash machine from the chem lab.	Unit is being replaced by another unit and the floor space is needed for operational purposes.	ISA-18 Laboratories	Chem lab area
16537	ADU Furnace PLC Room Light and Telephone	Revise ADU Sintering Furnace PLC Room Lighting configuration and add telephone jack to room	As panels were added lighting configuration needs to be adjusted and a telephone needs to be installed in the room.	ISA-08 Pelleting	Chemical Side - Pelleting
16564	ECG Machine Tube Delivery Ramp	Install a gravity feed ramp to stage tubes to be processed through the ECG machine.	Provides a more efficient method to deliver tubes to the ECG machine room.	Components	Inside the wall of the new ECG room near Column 14A.
16568	IFBA Line 5 Dry Room Ceiling Tile Lanyards	A lanyard will be used to secure ceiling tiles in the IFBA Dry Room.	The lanyards will capture the tile before it can become a hazard.	ISA-14 IFBA Processing	IFBA / Line 5 / Dry Room / Ceiling
16577	Line 5 Calciner Discharge Chute Vibrator and PRV tag changes	Address issues encountered with powder bridging in the Discharge chute and correct redundant labels on the PRVs.	This action will prevent SSC degradation and prevent confusion with redundant tagging.	ISA-03 ADU Conversion	ADU Calciner Line 5

Name	Title	Description	Justification	ISA ID	Location
16582	Correct S-974 Duct Heater Wiring to Address All Heating Elements	Control for heating elements requires air flow.	Control for heating elements requires air flow.	ISA-01 Plant Ventilation System	Roof at S-974 Chem Lab Scrubber
16585	Retrofit Grid Laser #3 to Accommodate New and Existing Vacuum Pump	Replace Vacuum Pump.	To reduce risk of downtime due to pump malfunction.	Components	Grid area Laser
16594	Demolition of 2A/2B Filter House, S-1056 Scrubber, Ductwork and Associated Equipment	Remove S-1056 scrubber and associated equipment.	This is out of service equipment.	ISA-01 Plant Ventilation System	2A/2B Filter House, S-1056 Scrubber
16599	Cut Ventilation Duct to Allow for Installation of Access Doors on Inlet Duct for Out of Service FL-3A/3B and FL-7A	Cut holes for access doors in the inlet duct to out of service filter houses FL-3A/3B and FL-7A on the roof.	This action will facilitate cleanout of accumulated material.	ISA-01 Plant Ventilation System	Inlet duct to FL-3A/3B and FL-7A
16607	Plating Room Tank Heaters Branch Circuit GFCI Modification	Add ground fault circuit interruption (GFCI) to branch circuits for each set of plating room tank heaters.	This action is to provide supplemental GFCI protection for each heater circuit.	Components	Mechanical Plating Room
16613	Conversion Line 2 Moisture Sampler PC Upgrade	The PC's operating system will be upgraded to a newer platform, application software will be upgraded, and application monitors will be upgraded.	To increase functionality.	ISA-03 ADU Conversion	Moisture Sampler
16619	Design, Fabrication and Installation of a Non-Fuel Repair Lathe	Replace the existing non-fuel repair lathe with one that matches the new non-fuel repair lathe.	The existing lathe is obsolete and has a number of ergonomic and operational safety issues.	Components	CFFF, Mechanical Area, Non-fuel Assembly
16632	Install heat trace on S-1030 Transition Spray Line	Install heat trace and insulate the transition spray line on the S-1030 scrubber.	Heat trace is required to prevent freezing of the line in cold weather.	ISA-01 Plant Ventilation System	S-1030 Scrubber
16633	Pressure Transmitter to S-1030 Scrubber Recirculation Line Addition	Add new pressure transmitter to S-1030 scrubber recirculation line to allow monitors by the ADU Common Services Safety Instrumented System (SIS).	Provide monitoring capabilities on the safety system.	ISA-01 Plant Ventilation System	S-1030 Scrubber
16635	LED Light Fixture Replacement in Chemical Area Maintenance Aisle Way	Install new LED light fixture to replace fluorescent fixture in chemical area maintenance aisle way towards SOLX.	LED Light fixtures are in alignment with global sustainability efforts.	ISA-07 Solvent Extraction	Aisle way from maintenance step off pad near SOLX
16636	PDIT-1030C-1 and PDIT-1030C-2 to ADU Common Services SIS Relocation	Relocate PDIT-1030C-1 and PDIT-1030C-2 from the Basic Process Control System to the ADU Common Services Safety Instrumented System (SIS).	Provide monitoring capabilities on the safety system.	ISA-01 Plant Ventilation System	S-1030 Scrubber
16639	2A Furnace Element Cooling Gland Replacement	Replace existing 2A ADU Sintering furnace element leg cooling glands with improved cooling glands.	New cooling glands will be able to compensate for alignment issues associated with warped furnace floors, provide improved sealing and provide improved cooling.	ISA-08 Pelleting	ADU Pelleting / 2A Furnace

Name	Title	Description	Justification	ISA ID	Location
16640	2A Furnace Sight Port Modification	Change OEM sight ports to new configuration.	The new sight port design will use a four bolt flange and graphite gaskets to alleviate the need for packing and subsequent tightening/loosening of a packing gland nut.	ISA-08 Pelleting	ADU Pelleting / 2A Sintering Furnace
16641	Upgrade FN-972A Speed Controls	Replace the UDC speed controls and add a signal from the UDC to the SOLX BPCS. Create new screens showing the fan speed and alarms for low flow. Upgrade signals from the UDC to the VFD.	The existing UDC is obsolete and needs replacing.	Components	SOLX Roof FN-972A
16647	Tray Loader Powered Slide Replacement	Update drawings and storeroom specifications to allow replacement of current powered slides with new powered slides.	The powered slides are obsolete.	ISA-08 Pelleting	ADU Pelleting / Line 1 - 5 Tray Loaders
16655	Install an Access Door to Serve as a Sample Port on the Lift Station Grating	Install an access door to serve as a sample port on the lift station grating.	The existing door is a safety hazard.	Grounds	River Discharge
16660	Add Regulator to Met Lab Eye Wash	A regulator should be installed upstream of the safety shower.	Existing water pressure is much higher than required.	ISA-18 Laboratories	Safety Shower in the Met Lab, Pellet Grinding Room
16661	ECG Room Electrical Services	Install power for lights, receptacles, hoist and drum pump.	The room will require electrical services for area equipment, lighting and convenience receptacles.	Components	North of the new Tooling Offices
16665	Provide Compressed Air to Future P-1030C Transfer Pump	This project will add a compressed air drop for future pump P-1030C to facilitate pumping solution from the bottom of V-1030I/J to an existing nozzle near the top of tank V-1030D.	This project will facilitate returning overflowed solution to the sump tanks.	ISA-01 Plant Ventilation System	Conversion scrap cage
16668	Placement of new Slow Strain Rate Test Equipment in PE Development Lab	Install new test equipment.	The new equipment will expand test capabilities in the PE Development Lab.	ISA-18 Laboratories	PE Lab near current development welding area
16674	Modify Top Cover of V-1030G	Modify the V-1030G top cover to eliminate misalignment and splashing during S-1030 Scrubber sump tank fill.	The current makeup water connection is misaligned and spills water to the floor.	ISA-11 Scrap Uranium Processing	Scrap Cage - V-1030G top head
16682	Remove Low Points S-1030 DPs	Relocate PDIT-1030C-1/2/3/4 (S-1030 packing and demister pad differential pressures) and add valves to allow safe blowdown of the lines back to the scrubber body.	This will improve readings on administrative SSCs for the packing and demister DPs.	ISA-01 Plant Ventilation System	S-1030 Scrubber (Roof)
16685	China Customer Fuel Training Project Offices	Install a modular metal and glass wall system for the new offices and conference rooms on the first floor.	Modifications are required by Corporate facility management to upgrade existing cubicle area with modular offices for China Customer Fuel Training Project.	Grounds	Part of zone 1 & 2 area
16686	Replacement of Pelleting Line 5 Computer Stand and Computer Equipment	A new stand will be assembled and the computer will be upgraded.	This work will further the effort of removing process control equipment from the plant control network.	ISA-08 Pelleting	Pellet Sintering Furnace Wonderware station and 5B control panel
16689	Replace Lathe in the Tool Room With Lathe Being Removed from the Product Development Lab	Disconnect and remove the tool room lathe, install the PE lab lathe and connect it to power.	The PE lab lathe's overall condition is better than the tool room lathe.	Grounds	The Sheldon lathe will be located in the same position on the shop floor as the Monarch lathe, near column 11-C
16696	Replace Solenoid Valve with Air Actuated Ball Valve	Replace the solenoid valve on the water line to the V-3150 zirc fines knock out tank with an air actuated ball valve.	The air actuated ball valve will provide more function reliability than the solenoid valve.	ISA-10 ADU Rods	ADU mezzanine
16698	Safeguards Information Project	Safeguards Information Project	Safeguards Information Project	Grounds	ADU and URRS Control Rooms
16699	Install Flow Indicator in Process Water Line to S-1030 Transition and Elbow Nozzles	Install a flow indicator in the water line below the roof.	The pressure gauges installed in the water lines have not been dependable.	ISA-01 Plant Ventilation System	Scrap cage

Name	Title	Description	Justification	ISA ID	Location
16703	AC-4 Smoke Detector Replacement	Replace duct smoke detector with a newer model smoke detector.	Existing duct detector is obsolete.	Grounds	AC-4 Duct Detector
16706	SC Blue M Ovens - Outlet Blast Gate	Replace the Scrap Cage Blue M Oven duct discharge flow control dampers with blast gates.	The existing dampers do not function as originally intended, are prone to sticking due to buildup of fluorides and other material, and do not provide positive shutoff for the duct.	ISA-19 Hoods and Containment	Scrap Cage Blue M Ovens
16708	Glass Tube Flow Meter Replacement for Final Aerator Caustic Feed	Replace caustic variable area rotometer on waste treatment T-1115 aerator.	The current unit is broken and needs to be replaced.	Grounds	Final Aerator in Waste Treatment nearby Still 2 control room
16709	Filter Module Addition and Differential Perssure Gage Reinstallment	Add Filter module to filtration unit at tab grinding station using manufacturers supplied parts and installation procedure; reinstall pressure differential pressure gage according to manufacturers installation procedure.	The filter module will make the debris capture more efficient.	Components	Inconel Grid Fabrication, Grinding Stations
16713	T-1160B Sample Port	Add a 1/2" sample port on the recirculation line of T-1160B.	Need to have the ability to sample T-1160B.	ISA-15 URRS Wastewater Treatment System	URRS Outside/Waterglass
16716	Abandoned Equipment Demolition in ERBIA Scrap	Demo abandoned equipment in the ERBIA Scrap area to support external pellet processing.	This area is needed for processing of external pellets.	ISA-20 ERBIA	ERBIA Scrap Recovery
16722	Hot oil #3 Over-Temperature Dual Element Thermocouple Replacement	Replace hot oil #3 over-temperature dual element thermocouple replacement for TE-2A/2B.	The longer spring loaded thermocouple will ensure that there is good mechanical contact between the thermocouple sheath and the bottom of the thermo-well. The mechanical contact will assure thermal conductivity between the thermo-well and the thermocouple sheath.	ISA-03 ADU Conversion	Hot Oil 3 in the UF6 Bay
16723	Install Fast Acting Fuses on 480 VAC Supply to Coater 5, PS2	Install current limiting fuses on the 480 vac supply to coater 5 PS 2.	The fuses will limit the current and duration of the fault to 1/2 cycle with the intent of protecting the contactor from a high fault current.	ISA-14 IFBA Processing	Coater 5 Power Supply Room
16724	Install Current Limiting Fuses on the 480 VAC Supply to Coater 5 Power Supplies	Install current limiting fuses on the 480 VAC supply to coater power supplies.	The coater power supplies are occasionally tripping the breaker at the MCC. The fuses will limit the current and duration of the fault to 1/2 cycle with the intent of protecting the contactor from a high fault current.	ISA-14 IFBA Processing	Coater 5 Power Supply Room
16727	DI Water B Unit Caustic Addition Valve Replacement	Replace the existing actuated valve for caustic addition on DI Water B Unit to a new ball valve with actuator.	Existing valve is leaking and is obsolete.	Grounds	URRS Outside/DI Water Building
16728	ERBIA Scrap Area Mechanical Demolition Efforts	Removal of pump P-9155 thru P-9157 and the associated bag filters and piping. Installation of new bidirectional door and removal of the concrete hump under the door.	Area is needed for processing pellets procured from outside sources.	ISA-20 ERBIA	ERBIA Scrap Recover Area, pumps P-9155 thru P-9157 and the associated bag filter stand. Includes door replacement
16729	Furnace 3C Controller Panel Demolition	Removal of 3C controller control panel and installation of 120v receptacle for software computer.	Panel takes up unnecessary space that is needed for relocation of programming station.	ISA-08 Pelleting	Chemical Side - Pelleting - Sintering Furnaces
16732	Drain Hole Addition to Pad	Modify pad by addition of drain holes to facilitate rainwater drainage to the "A" leg of the storm water system.	Rainwater pools on the pad and produces build-up of algae and habitat for mosquitoes.	Grounds	The Chem-Nuclear pad, next to the Tractor Shed

Name	Title	Description	Justification	ISA ID	Location
16733	Hot Tap chilled water Supply and Return piping	Install hot tap chilled water supply and return piping for future plating room makeup air unit.	Chilled Water supply and return to be utilized for future installation of chilled water makeup air unit serving the plating room.	Components	Hot taps to be performed in the QC Receiving Inspection area, slightly North of Column 15AA
16736	Replace Solvent Tank Acetone Dispenser Handle	The manual dispensing nozzle for the acetone supply tank will be replaced with a different nozzle.	The seals in the current handle fail prematurely.	Components	RAMCO solvent dip tanks
16737	Metal Brake & Roll Equipment Shed	Install shed to protect metal brake & roll equipment and material from the weather.	The shed will protect equipment and material from the weather.	Grounds	Shed
16739	UT 2 Circuit Protection	Install supplemental circuit protection for UT 2 electrical system.	Supplemental electrical circuit protection will help prevent damage to downstream devices in the event of a malfunction causing an overload situation.	Clean Side Rod Area	UT 2
16740	Erbia FL-9402 Filter House Modification	Remove the bag-in/bag-out system from each filter bank in the Erbia FL-9402 filter housing and replace the wire mesh pre-filters and main filters with our standard pre-filters and main filters.	To allow for removal of both filters simultaneously	ISA-01 Plant Ventilation System	Erbia / FL-9402 Filter Housing
16747	Power to Grid Laser A Work Tables	Provide power to the following Grid Laser A work tables: 1. Grid Assembly Table 2. Grid Fixture/Defixture Table 3. Work Table/Engraving Station	The work tables are needed by Operations prior to Laser A Startup.	Components	Grid Area - Laser Welder A
16748	Substitution Procedure Additions	Add valve position indicating beacon\limit switches to substitution procedure.	When a valve beacon\limit switch becomes unavailable this CCF will allow the evaluation of the application against the substitution criteria and provides an approved replacement.	Miscellaneous	Update MCP-202174 to include Substitution criteria for valve beacon\limit switches.
17001	Grinder Line 6 Grinder Drive Over-Travel Limits	Install new over-travel switches for IN and OUT.	Installing new Encoder requires new magnets for trip points.	ISA-08 Pelleting	Grinder Line 6
17002	Replace Pressure Gauges in Water Piping to S-1030 Scrubber	Replace the existing gauges with silicone filled gauges.	The existing pressure gages are not reliable.	ISA-01 Plant Ventilation System	At the S-1030 scrubber transition
17004	Compressor Room Fire Rating Upgrade - Corner Gap Seal	Block off and seal the gap.	Gap must be sealed to meet fire rating.	ISA-03 ADU Conversion	CFFF, Chemical Area, Compressor Room
17005	Electrical Demo of Valves XV-9155A and XV-9155C	Remove electrical valves XV-9155A and XV-9155C associated with removal of the ERBIA scrap area pumps.	Related to the CFFF pellet receipt project for outside pellets and related to CCFs 16728 and 16716.	ISA-20 ERBIA	Scrap area of ERBIA
17006	Exterior Roadway and East Parking Lot Electrical Repair	Install a new section of conduit and wiring for the roadway and parking lot lighting next to the entry roadway.	The existing wiring has failed between a junction box and a light pole next to the roadway near the ECP.	Grounds	Main roadway just inside the ECP
17017	Removal of Old Components on ADU Sintering Furnace 3C	Remove old and obsolete components (Valves, Piping, etc.) for replacement during Rebuild and Safety Improvement Projects. Remove ventilation duct sections at load end to facilitate wireway installation.	Many of the components will no longer be used, or newer versions will be installed.	ISA-08 Pelleting	Pellet Sintering Furnace 3C
17018	Removal of unused Air Sampling Vacuum Line at Furnace 4B	Remove unused vacuum air sample piping extending down at front of furnace 4B.	Out-of-service piping need to be removed to allow installation of new wireway.	ISA-08 Pelleting	Pellet Sintering Furnace 4B

Name	Title	Description	Justification	ISA ID	Location
17021	Upgrade Stanchions, Piping and Pressure Control Manifold for Bulk Helium Supply	Upgrade stanchions, piping and pressure control manifold for bulk helium supply.	The new system is designed to have less potential for breeches from the environment into the bulk helium supply.	ISA-06 Chemicals Receipt, Handling and Storage	Tank Farm
17022	FME Barrier for Concrete Removal in the ERBIA Scrap Recovery Area	Provide an FME Barrier for the concrete removal effort related to this project.	Work is required for receiving pellets from outside sources.	ISA-20 ERBIA	ERBIA scrap area
17023	Relocation of MetLab AC #5 Controls and Upgrade of Components	Relocation MetLab AC #5 from older PLC control system to existing newer PLC control system and replace pressure transmitter with current model.	Control system is obsolete for AC #5.	ISA-18 Laboratories	MetLab - Autoclaves
17028	ECG Machine Demo	Remove power and electrical services from abandoned ECG machine.	The old ECG machine has been replaced.	Components	ECG room adjacent to plating room
17029	ADU 2A Sintering Furnace H2, N2 and Natural Gas Valve Changes	Change valves to ball valves.	These are old valves in need of replacement.	ISA-08 Pelleting	ADU Pelleting \ 2A Sintering Furnace
17030	New Glass Office and Conference Room Modification Electrical Installation	Install electrical fixtures and receptacles.	This office installation requires modification of the electrical fixtures and receptacles.	Grounds	Front office area near columns T-S and 2-4
17031	Respirator Facility Air Conditioner	Replace roof top AC unit with upgraded AC unit.	Current unit is obsolete and not functioning properly.	Grounds	Respirator Facility Roof
17034	Replace V-1017A	Replace V-1017A with a near like stainless steel vessel.	The existing tank leaks and cannot be repaired.	ISA-11 Scrap Uranium Processing	Conversion Scrap cage
17035	Replace V-1006A	Replace the tank with a near like stainless steel vessel.	Existing tank is leaking and can not be repaired.	ISA-11 Scrap Uranium Processing	Conversion scrap cage
17036	IFBA Oxidation Oven Hood Door Addition to Increase Air Velocity	Add a "U" channel and two sliding doors to the IFBA oxidation oven hood.	The addition will increase air flow through the opening of the hood.	ISA-14 IFBA Processing	IFBA / FA3
17037	Change the Part Number of the Plating Room Tank Heater H-4009-1 and H-4009-2 in the Storeroom	Change the manufacturers part number in the Storeroom for H-4009-1 and H-4009-2 to reflect the new part number that includes a temperature probe in the wiring connection box.	The design of H-4009-1 and H-4009-2 heating element in the Chem. Etch Tank T-4009 in the Plating room has changed.	Components	Plating Room
17038	Hot Oil System 4 Over-Temperature Controllers Replacement	Replace UDC over-temperature controllers.	Existing controllers are obsolete and unavailable.	ISA-03 ADU Conversion	Hot Oil Room in UF6 Bay
17039	IFBA Vacuum Oven #2 Insulator post repair	Weld new element insulator stud with head to the element casing.	The old spot stud weld failed.	ISA-14 IFBA Processing	Element #1

Name	Title	Description	Justification	ISA ID	Location
17040	Wired Pendant Crane Control Change to Wireless	Change the control pendant of the overhead crane (CC-01) in the skeleton area. The current controller has a corded pendant and will be changed to one that is wireless.	A wireless crane controller will be safer for the type of work done with this crane.	Components	Overhead crane in the skeleton assembly area
17041	Installation of Bi-Directional Traffic Doors to Access ERBIA Production Area	Replace the metal double doors and transom to permit easier access to the ERBIA area and the dock in the area.	Work required for receiving pellets from outside sources.	ISA-20 ERBIA	Doors leading in from the pedestrian aisle adjacent to the ERBIA Pellet Inspection area and the tray conveyor exiting the pellet dryer DR-9274
17042	New Glass Office and Conference Room Fire Alarm Installation	Install addressable smoke detectors and a speaker in each of 8 new offices and conference rooms in the front office area.	Fire protection installation is necessary for these new offices.	Grounds	Front office area near columns T-S and 2-4
17044	IFBA RodLine 5 Girth Welder (Dry Room) Control Relay Modification	Install a 3PDT relay with diodes across solenoids for helium and argon.	Relay contacts for the Argon welded shut resulting in a number of scraped rods.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA line 5 Girth Welder in the Dry-Room
17046	Metal Brake & Roll Equipment Installation	Install model-SB 1014 metal hand brake and slip roll machine under the metal brake & roll equipment shed.	Shed will protect equipment, material and workers from outside weather conditions.	Grounds	Equipment Shed
17048	Replacement of Breakers in RP-H-1A for AutoClave System #1	Replace breakers for autoclave system #1.	The new design requires only one two-pole breaker to feed all four autoclaves.	ISA-18 Laboratories	Mechanical Side - Hallway outside of Metlab (Panel RP-H-1A)
17050	Thermocouple Junction Box for Conversion Line 1 Pumps 112A/B Replacement	Relocate Thermocouple Junction Box for Conversion Line 1 Pumps 112A/B.	The existing location is between the pumps and is very difficult to access.	ISA-03 ADU Conversion	ADU Conversion Line1 below the V-012 Tank
17051	Fan-962 Reduced Voltage Starter with New Starter	Replace Fan-962 Reduced Voltage Starter with a new starter.	The current reduced voltage starter has failed catastrophically and is obsolete.	ISA-03 ADU Conversion	MCC-950 located in the Electrical Room in UF6
17053	Upgrade to New Software Platform and Application	Upgrade to new software platform and application software.	Removal of old software PC's from the process control network.	ISA-08 Pelleting	Plant Wide
17054	Add a 4-20 mA isolator to each power supply on Oxide Coater 1	Install a 4-20 mA isolator to each power supply.	The 4-20 mA isolators will minimize noise.	Components	Oxide Coater 1
17056	Met Lab Polisher Unit Replacement	Replace the metallurgical lab's old pellet grinder polisher units.	New units are needed and have been purchased.	ISA-18 Laboratories	CFFF Metallurgical Lab, Pellet preparation lab
17057	AutoClave System #1 (AC 1 - 4) Installation	Installation of system similar to AutoClave System #2 in the Met Lab.	Old system utilized obsolete components and is difficult to support.	ISA-18 Laboratories	Metalurgical Lab
17058	AutoClave System #1 Demolition	Removal of remaining control components associated with Autoclaves 1 - 5 in the Met Lab.	Components are obsolete and difficult to support. A new system is also being installed to replace AC #1 -4.	ISA-18 Laboratories	Metalurgical Lab
17059	Removal of Isoprobe Mass Spectrometer from Chem Lab	Remove isoprobe mass spec unit from chem lab.	The Isoprobe no longer functions and the space is required for a new instrument.	ISA-18 Laboratories	Chemical Lab

2017 CCF Approved by Engineer for Startup

Name	Title	Description	Justification	ISA ID	Location
17060	Provide pump for drain from overflow tanks V-1030I/J	Provide a pump, P-1030C, to facilitate draining the overflow tanks to the top nozzle on V-1030D.	This project will facilitate returning overflowed solution to the sump tanks.	ISA-11 Scrap Uranium Processing	Conversion scrap cage
17061	Sintering Furnace Power Feed Power Monitoring System	Provide power monitoring for 24VDC power to each of the ADU Sintering furnaces.	Monitoring is needed to generate alarms if a failure occurs and trend for current and voltage.	ISA-08 Pelleting	Chemical Side - Pelleting - ADU Sintering Furnace PLC Room
17062	Mass Spectrometer Installation	Install mass spec instrument in the chemical lab.	Replacement of older mass spec unit.	ISA-18 Laboratories	Chemical Lab
17063	Satellite Oil Station Storage Locker	Install storage locker and pad for maintenance for use as a satellite oil station.	This Satellite Oil Station will eliminate taking large barrels of hydraulic fluids behind the wall contributing to contaminated waste.	Grounds	Outside building on west wall approximately 40 ft north of Dock 3 near column line 09
17064	RP-1G Circuit Rearrangement for Carbon Analyzer	Install new breakers and wiring for new carbon analyzers.	The new Carbon Analyzer electronics are sensitive to the power from the transformers C-phase high leg. The breakers will be upgraded and rearranged from B and C to A and B phase for these units.	ISA-18 Laboratories	Chem Lab
17066	Upgrade motor controls for P-1114A/B	Replace the MCC buckets for P-1114 A and B and upgrade the circuit breaker, motor starter and motor wiring to support the 15HP motor.	The existing circuit breaker, starter and motor wire are undersized for the 15HP motors.	Grounds	Waste Treatment Final Effluent Aeration
17068	Modify the ECG Machine Drip Pan Under the Exit Conveyor	Add two approx. 3/4" diameter holes in the side of the drip pan to allow the operator to get a hose into the pan to flush any debris back into the main enclosure and from there into the electrolyte tank for disposal.	Zirc chips from the cutting operation appear to accumulate in the drip pan.	Components	Mechanical area across from the RAMCO cleaning station near column 15A
17069	Spray Bottle Holder	A spray bottle holder will be bolted to the frame of a pump on each conversion line.	A holder for the spray bottle will help mitigate the risk of a stray bottle falling to the floor.	ISA-03 ADU Conversion	V-X19 frame on each conversion line
17071	VFSI Door Sight Port	Repair Water Leak in VFS1 Door Sight Port.	The VFS1 Has been experiencing vacuum issues and failing leak up tests.	Components	VFS1 in Strap Cleaning room
17072	Make Minor Modifications to the Laser Welder #5 Chamber B Door Closure Components	Remove the door assembly, replace and modify door mechanism parts.	The prototype door design is difficult to assemble and disassemble. The revision will make this process easier.	Components	Mechanical Side / Grid Area
17074	Still 1 Nitrogen Piping	Re-configure the nitrogen piping for Still 1, into a more organized manifold.	Nitrogen piping and valves are overly complex and potentially confusing.	ISA-06 Chemicals Receipt, Handling and Storage	Outside URRS/Still 1 Building
17076	Chemical Lab Asbestos Abatement and New Floor Installation	Remove a section of the old floor prior to installing a new floor.	The old floor must be removed and new floor installed before installing ICP replacements.	ISA-18 Laboratories	Chemical Lab
17077	Platform PC Roll to newer platform.	Upgrade PC to new operating platform.	The existing XP PC has stopped working and is unrecoverable.	Components	GM2 Furnace
17078	Install Ball Valves on FL-948A and FL-948B Drain Lines	Remove end caps and attach ball valves to 1" drain lines.	These ball valves will be used to perform some tests to prevent buildup of water in the filter houses.	ISA-01 Plant Ventilation System	Penthouse, FL-948A and FL-948B
17079	RW-1 Steel Well Seal Blank	Remove submersible well pump from abandon well in front of respirator cleaning facility and install a steel well seal blank on the 4" well pipe.	The abandoned well needs to be sealed due to its proximity to the low level waste pad.	Grounds	Outside front of the Respirator Cleaning Facility

Name	Title	Description	Justification	ISA ID	Location
17080	Power Tie-in for GM #3 to Substation #3	Perform power tie-in for the installation of a new annealing furnace (GM 3). The power tie-in will occur at Substation 3 in the equipment room across from the computer room.	This project will support the installation of a new annealing furnace.	Grounds	Equipment Room #1 across from Computer Room.
17083	ADU Line 1 Dust Collector Fork Level Installation	Replace the high and high, high level probes on ADU line 1 dust collector and install a new control panel with individual alarms and controls for each level probe.	The existing probes have proved to be difficult to calibrate and hold calibration and the manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	ADU Line 1
17084	ADU Line 2 Dust Collector Fork Level Installation	Replace the high and high, high level probes on ADU line 2 dust collector and install a new control panel with individual alarms and controls for each level probe.	The existing probes have proved to be difficult to calibrate and hold calibration and the manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	ADU line 2
17085	ADU Line 3 Dust Collector Fork Level Installation	Replace the high and high, high level probes on ADU line 3 dust collector and install a new control panel with individual alarms and controls for each level probe.	The existing probes have proved to be difficult to calibrate and hold calibration and the manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	ADU line 3
17086	ADU Line 4 Dust Collector Fork Level Installation	Replace the high and high, high level probes on ADU line 4 dust collector install a new control panel with individual alarms and controls for each level probe.	The existing probes have proved to be difficult to calibrate and hold calibration and the manufacturer no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	ADU line 4 Dust Collector
17091	IFBA DC-801A Fork Level Installation and DPSH-S-802A and DPSH-802B Control Wiring Relocation	Replace the high and high, high level probes on the IFBA Dust Collector DC-801A and relocate control wiring for DPSH-S-802A and DPSH-S-802B.	The existing probes have proved to be difficult to calibrate and hold calibration and the manufacture no longer supports certain critical parts associated with these probes.	ISA-01 Plant Ventilation System	IFBA Dust Collector DC-801
17093	Plating room scrubberfan	Replace the fan on the Plating room scrubber.	The existing fan is not designed to survive the chemical effluent that is exhausted from the plating room hood.	Components	The mezzanine above the Plating Room.
17094	Cool Down Zone Cabinet	Install a wall mount cabinet shelf (30"Wd. X 26"Ht. X 12"Dp.) with clear view windows on the wall of the Cool Down Zone located on the third floor of the roof stairwell near elevator.	Shelf is needed in the area to store items such as sqwinchers for hydration, wipes, trash bags etc.	Grounds	Cool Down Zone third floor roof stairwell near elevator
17095	Chip Knocking Stand Platform Replacement	Replace the upper two sets of platforms and containment rings on the newly installed stand.	The existing platforms and rings do not allow for enough clearance for the operators to spin a suspended fuel assembly without concern for bumping into the rings.	ISA-17 Final Assembly	CFFF, Mechanical Area, Final Assembly, Inspection Pit, Chip Knocking Stand.
17096	Increase Drain Diameter on Pressure Safety Valves to 1/2" on Boilers #1 and #2 Deaerators	Increase drain lines to 1/2" tubing and route to a visible discharge location.	Water can pose hazards such as, increased relief pressure due to back pressure on the valve, water could freeze; causing catastrophic equipment failure and potential injury.	Grounds	Boiler House #2 ,North American Boiler #1 and #2 Deaerators
17097	Replace Waste Storage Columns V-1017A-E	Replace each column with a 8" dia., sch. 40 316L, PTFE lined vessel. The section of the frame supporting the V-1017 vessels will also be modified.	The existing tanks have deteriorated and should be replaced.	ISA-11 Scrap Uranium Processing	conversion scrap cage
17098	Replace Waste Storage Columns V-1018A-E	Replace each column with a 8" dia., sch. 40 316L, PTFE lined vessel. The section of the frame supporting the V-1018 vessels will also be modified.	The existing tanks have deteriorated and should be replaced.	ISA-11 Scrap Uranium Processing	conversion scrap cage
17101	Replace Precipitation Tank V-1006B	Replace V-1006B with a more corrosion resistant tank.	The existing tank has deteriorated and must be replaced.	ISA-11 Scrap Uranium Processing	conversion scrap cage
17102	Replace precipitation tank V-1006A	Replace V-1006A with a more corrosion resistant tank.	The existing tank has deteriorated.	ISA-11 Scrap Uranium Processing	scrap cage

2017 CCF Approved by Engineer for Startup

Name	Title	Description	Justification	ISA ID	Location
17105	Connection of Pellet Sintering PLC Room Monitoring Panel to 24VDC Power Supply Panels	The new Pellet Sintering PLC Monitoring panel (installed under CCF 17061) will be connected to the existing 24vdc Power Supply Panels to permit power monitoring for 24VDC power to each of the ADU Sintering furnaces. This work will include installation of conduit and wiring and connection of I/O points.	Fault monitoring to ensure supply of control power to furnaces.	ISA-08 Pelleting	Pellet PLC Room
17106	Electrical Portion of the Old HVAC System from the Plating Room Removal	Remove the electrical portion of the old HVAC system from the Plating Room.	The old HVAC System for the Plating Room HVAC system is being replaced with a new system under a separate CCF.	Components	The mezzanine above the Plating Room and the Plant Roof
17107	Installation of test ports on Furnace 2A discharge stack pipes	The two discharge vent pipes for Furnace 2A will be drilled to permit flow testing with an anemometer.	The data gathered from these measurements will be used to determine minimum flow rates (and resulting pressurization) for normal safe operation including load and unload sequences.	ISA-08 Pelleting	Pelleting Furnace 2A load and unload areas
17108	VFS1 Pre Work	Remove the old Helium copper lines coming from Non-Fuel above the X-Ray machine going to the GM/ABAR furnaces and VFS1 in the Clean and Anneal room.	Best practices and plant policies dictate that abandoned items be removed completely.	Components	Grid Area, Zirc Clean and Anneal room, GM/ABAR Furnace area and Non-Fuel
17110	Modify MCP-202174 Section 5 "Motor Substitution"	Modify MCP-202174 Section 5 "Motor Substitution" to require Maintenance or PSE Electrical \ Control engineer evaluation and approval before substitution of motors greater than 30 horse power, or a modification of frame type.	This CCF was driven by FN-962 Auto transformer starter failure after replacement of the motor.	Grounds	Substitution procedure MCP-202174
17111	Install Temporary Generator to temporarily replace Generator #3	Install Temporary Generator to temporarily replace Generator #3.	Generator 3 has failed and standby generator power is required.	Grounds	The Temporary unit will be next to the west wall of the building, between the maintenance dock and dock 3
17112	ADU 2A Sintering Furnace Element Cooling Gland Mounting Nut Option	Allow the use of a mechanical locknut.	Over time, due to the expansion/retraction of the furnace when cooled and reheated for PM's, outages, etc., the element cooling gland flange nuts are loosening. The new lock-nuts should prevent loosening.	ISA-08 Pelleting	ADU Pelleting \ 2A Sintering Furnace
17113	Temporary Relocation of IFBA Hydrogen Analyzer to Main Chem Lab	Move one hydrogen analyzer from the IFBA lab and install in the specified analyzer room of the Main Chem lab for use.	The temporary relocating of the hydrogen analyzer to the Main Lab will allow for IFBA pellets to be analyzed for hydrogen during the renovation of the IFBA lab floor.	ISA-18 Laboratories	Main Chemical Lab
17114	Network Switch Installation	Install a vendor network interface switch to provide an access point to connect the replacement automatice transfer switch (ATS) 2ATS3 to the plant network	This will will allow the remote monitoring of the status of 2ATS3.	Grounds	Sub 9 Equipment room
17115	Install Temporary Power around 2ATS3 During Replacement	Install temporary power around 2ATS3 while it is being replaced.	Provides a temporary power service around the ATS so that the equipment can operate as needed while the work is being performed.	Grounds	Sub 9 Equipment Room
17116	IFBA Chem Lab Floor Refurbishment	Remove old tile (asbestos free) and install new decorative flake floor system with approximately 3/16" thick epoxy motor base.	Old tile has caused tripping hazards due to deterioration and buckling up.	ISA-18 Laboratories	Mass Spec IFBA Chem Lab Floor

Name	Title	Description	Justification	ISA ID	Location
17117	Modify Ground Shields Next to Cathode 2	Add second 0.5 inch hole near back end of shields next to cathode 2.	These shields currently have one 0.5 inch hole near the front of the shield to hold shield in place. In some coaters these shields pivot toward cathode 2 and ground/short cathode 2. Adding a second 0.5 inch hole near the back end should not allow this pivot to occur.	ISA-14 IFBA Processing	IFBA/FA1
17119	Add 2 Circuits for Substation Breaker Calibrations in Equipment Room 1	Add 2 circuits for substation breaker calibrations in equipment room 1.	Having 2 new stations for calibration will expedite calibration of breakers during shutdown.	Grounds	Equipment Room 1 on 2nd floor near elevator.
17120	Grid Laser #4	Retrofit grid laser #4 to accommodate new and existing vacuum pump. -	Converting laser 4 to the new style pump will reduce risk of extended unplanned downtime.	Components	Grid area on Laser W4, P4218B
17121	Dock 3 Temporary Air Compressor	Connect temporary air compressor to the plant air header for use as a backup Air Compressor.	This rental air compressor will be on standby until conditions requiring the back up air compressor are returned to normal.	Grounds	Located near Dock 3
17122	Industrial Vacuum Sound Enclosure on Oxide Coater 1	Fabricate sound enclosure to house the industrial vacuum that runs during the polishing cycle on oxide coater 1.	This enclosure will reduce the noise level in the area similar to the enclosure around the industrial vacuum in the Non-Fuel area.	Components	Oxide Coater 1
17123	Install ECG Enclosure	Install mezzanine and enclosure around new ECG machine.	Enclosure will contain any corrosive fumes from electrolyte solution and segregate ECG equipment.	Components	Mechanical Side Tool Room
17124	AC-34 Diffuser Filter Pellet Area	Install B media circle filter with elastic, over AC unit diffusers above the chemical side furnaces.	Diffuser over Line 6 is intermittently blowing FM on to area below.	ISA-01 Plant Ventilation System	AC 34 Diffuser
17125	Add Clean-out Location to the S-1030 Inlet Elbow	Cut a 12.5" by 22" hole in the duct to allow for cleaning. A stainless lid with gasket will be cut to cover the opening once clean-out activities are complete.	Allow for cleaning the inlet transition.	ISA-01 Plant Ventilation System	Roof
17129	Relocate Filter Housing for ECG Machine	Move the filter housing about two feet toward column line B.	Allow room to move the electrolyte reservoir lids to the side of the reservoir during servicing.	Components	Near Column A15
17132	FM Protective Pop-Up Shelter	Set-up a pop-up tent outside the entry of the IFBA Chem Lab door in order for the floor contractor to mix floor material to be installed on IFBA Chem Lab Floor.	Purpose of the tent is to contain light dusting created from mixing epoxy.	ISA-18 Laboratories	Outside of IFBA Chem Lab
17133	Substitute New and Existing Gearbox and Worm Index Sub-Assemblies on Laser 4 Chamber B	Allow the substitution of new and existing gearbox and worm index sub-assemblies (interchangeably) on Laser 4 Chamber B.	The new gearbox and worm index subassemblies were created to be spares to reduce equipment downtime.	Components	Laser W4
17135	SOLX Elevator Safety Gate	Remove old gate and install a new manufactured safety gate.	Existing safety gate is missing spring return.	ISA-07 Solvent Extraction	SOLX next to Blue M ovens
17137	Laser Paddle Mechanical Drive Components Interchangeability Project	Install the latest interchangeable paddle drive components on Laser 3, 4, 5, and 6 as needed.	The goal is to be able to make minor improvements over time, that don't affect the overall form, fit, or function of the equipment to improve the overall reliability of the equipment and reduce major downtime.	Components	Grid Area Laser Welders 3, 4, 5, & 6
17139	Replace 2ATS3	Replace the old Automatic Transfer Switch (ATS) 2ATS3 with a new unit.	The current 2ATS3 unit is old and obsolete.	Grounds	Equipment Room "Sub 9" on the Mechanical
17140	Hygrogen Analyzer	Move hydrogen analyzer back to IFBA lab.	To place the analyzer back in its original location.	ISA-18 Laboratories	Chem Lab
17144	Product Engineering LabTesting Equipment	Remove mechanical testing equipment in PE Development Lab (#2 Position) to prepare for replacement machine.	Parts for future repair of the testing machine have become obsolete and the unit is to be replaced with a new model.	ISA-18 Laboratories	Product Engineering Test Lab

Name	Title	Description	Justification	ISA ID	Location
17145	TPBAR Pellet Packing Pump down/Helium Station	Assemble table, set vacuum pump on table and plug into outlet and mount Helium bottle safety chain to table or wall.	Requirement of new TPBAR pellet shipping and storage.	ISA-14 IFBA Processing	TPBAR
17149	Modify Air and DI Water Piping to ECG Machine	Relocate the air and DI water piping so that they do not interfere with moving rods into the room and add a filter to the DI piping.	The existing piping layout is not conducive to transporting rods into the room.	Components	ECG room
17150	Rod Storage Barrier	Install remote controlled barrier to limit people from crossing through rod storage.	The device is designed for pedestrian movement and therefore should not create any additional safety hazards.	Clean Side Rod Area	Rod Storage - across from QC Rod D&V table
17151	Addition of DOP Testing Ports on the Secondary Source Hood	Add DOP testing ports on the inlet and outlet of the HEPA filter.	This work will provide the necessary ports on the inlet and outlet side to complete DOP testing.	ISA-10 ADU Rods	Non Fuel Secondary Source Hood
17152	Dissolver Isolation	Install blind to isolate dissolver from process.	Isolate system while piping is being replace.	ISA-11 Scrap Uranium Processing	Scrap Cage
17153	Boiler Pressure Safety Valves	Increase drain diameter on boiler deaerator pressure safety valves to 1/2".	Increased relief pressure due to back pressure on the valve, water could freeze causing catastrophic equipment failure and potential injury.	Grounds	Boiler House #2, Boiler #2 Deaerator
17154	Repositioner Block Modification	Change the repositioner block on the rod line 5 to stainless steel and move the holes down IFBA Line 5.	Existing block experienced mild melting and was not aligned with the rod.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA / Dyr Room / Weld line conveyor
17155	Polypack Storage Rack	Move the polypack storage rack for the Line 4 pelleting area.	The current rack has certain restrictions which limits its use.	ISA-16 Nclear Material Storage	CFFF, Chemical Area, Pelleting Line 4
17157	Incinerator Ash Ram Linear Position Sensor	Replace linear position sensor assembly on incinerator ash ram.	Provide correct sensor for BPCS interface.	ISA-13 Low Level Radioactive Waste Processing	Incinerator room
17158	Tool Room Surface Grinder	Disconnect and remove surface grinder.	The controls on the grinder have failed and the manufacturer no longer supports that model.	Components	Mechanical side tool room near column B12
17162	Pent House Floor Refurbishment	Install epoxy coating over approximately 1,288 sq ft.	Epoxy will fill in cracks in the floor to prevent leaks onto the Dissolver area.	ISA-13 Low Level Radioactive Waste Processing	Pent House Floor
17164	UF6 Vaporizers Clevis' Upgrades	Upgrade Clevis On Line 4 UF6 Vaporizers.	The new clevis will document the equipment and gives us options for placing the set-screw in the correct location of the actuator threaded shaft.	ISA-03 ADU Conversion	Vaporizers line 4
17165	Substitution ability for Replacement Power Supply, Cable and Adapter on Redundant Power Supplies	Add additional option for procuring power supply, cable and adapter from manufacturer due to compatability, availability and cost.	Several failures of the power supplies that were installed several years ago have occurred.	Grounds	URRS - Outside
17166	480V UPP Power Feed for ADU Sintering Furnaces	Provide infrastructure (breakers and power distribution) to allow development of 120VAC UPS power at each furnace.	This portion of the work is to simply provide infrastructure (breakers, wiring and wireway) to facilitate future connections to each furnace as it is upgraded.	ISA-08 Pelleting	Chemical Side - Pelleting Area
17168	Provide UPS Power to Energy Management Controller in Switchgear Building	Provide UPS power to energy management controller in switchgear building.	This will reduce or eliminate power interruptions to the controller.	Grounds	Main Switch Gear Building
17169	Pre-Approved Level 2 Mod - Grid Area	Perform review, demolition, construction, and startup of plant modifications within the Grid Area.	Upgrade of equipment within the grid area.	Components	Grid Area, Non-Fuel

Name	Title	Description	Justification	ISA ID	Location
17170	1B Sintering Furnace Cooling Gland Installation	Replace existing ADU sintering furnace element leg cooling gland with new, improved cooling glands and allow the use of a mechanical lock nuts an option to the existing locknut to mount the new style cooling gland(s).	New cooling gland(s) will be able to compensate for alignment issues associated with warped furnace floors, provide improved sealing and provide improved cooling. The braided hose interconnection will provide a flexible connection to alleviate alignment issues between the gland cooling coils and the new lock-nuts should prevent loosening.	ISA-08 Pelleting	ADU Pelleting / 1B Furnace
17171	Installation of new Muffle Furnace	Replace obsolete muffle furnace in Chem Lab (Impurities Room) with similar.	Replacement required to ensure back-up equipment available in case of breakdowns.	ISA-18 Laboratories	Chem Lab - Impurities Room
17174	UCON Wash System Grounding	Install ground wires from each 24Vdc power supply and local UPS to system ground bar.	The power supplies and UPS ground terminals should be connected to the system grounding bus.	ISA-17 Final Assembly	UCON Wash System in Final Assembly area.
17175	Lubricant Heater Solid State Relay Replacement and Substitution Procedure Modification	Replace the existing obsolete lubricant heater solid state relays with a currently available model.	The existing lubricant heater solid state relays are obsolete and prone to failure.	ISA-17 Final Assembly	Final Assembly UCON system
17176	Grinder Poly Chord Line Length	Allow to cut/splice the polycord as needed to maintain proper tension on the cord.	The pellet area needs the ability to adjust the poly cord length as needed to maintain proper tension.	ISA-08 Pelleting	Pellet Grinders
17178	IFBA Line 7 Cassette Exit Door Cylinder - Adjustable Air Flow Control Valve Addition	Add an adjustable air flow control valve feeding the cylinder that actuates the door on the IFBA line 7 cassette exit outside door.	The internal flow control valve (adjustable cushion) built into the cylinder has failed.	ISA-14 IFBA Processing	IFBA / Line 7 / cassette exit door outside cylinder
17179	Demo Plating Room AC 4060	Remove the old Plating Room AC 4060 HVAC System.	The old HVAC system for the Plating Room is old.	Components	Plating Room, Plating Room Mezzanine, Plant Roof
17180	HX-1151 Inlet and Exit Chilled Ammoniated Water Piping	Replace leaking chilled ammoniated water piping on the HX-1151 inlet and exit.	The piping is degraded.	ISA-03 ADU Conversion	Piping at HX-1151
17181	Convert Boiler Deaerator (DA) to a Feedwater Tank	Convert the DA tank into an atmospheric feed water tank until a new DA tank can be installed.	A recent inspection found several defects in the DA tank that disqualify continued use as a pressure vessel.	Grounds	Boiler House #1
17182	City Water Tie-Ins to Relocate Piping from Above Bulk Room	Add Tie-Ins to allow relocation of city water piping from above Bulk Room.	To avoid a potential water intrusion into a moderation control area.	ISA-05 ADU Bulk Powder Blending	Water Lines are above Bulk Room
17194	Blu-M Oven Hood Slide Windows for PL2	Modify the existing design and install a quantity of 5 smaller slide windows.	Allow for easier access to hood without modifying the face velocity to the hood.	ISA-03 ADU Conversion	Hood on the front end of pellet line
17195	WABA Room Ceiling Tile Replacements	Replace current ceiling tiles with ceiling tiles similar to ceiling tiles above line 8 tube prep.	These ceiling tiles are moisture-proof, mold and mildew resistant and the lanyards will be used to prevent tile from falling.	Components	WABA Ceiling
17198	Angular Alignment and Length of ADU Line 1 Elevator Discharge Chute	Change angular alignment (to 41 degrees) and length (to 6-1/2") of ADU Line 1 elevator discharge chute weldment.	The current configuration has too much angular offset, distorting the hose.	ISA-03 ADU Conversion	Chemical side, ADU Line 1, Elevator Discharge Chute weldment to the Duplex Valve

2017 CCF Approved by Engineer for Startup

Name	Title	Description	Justification	ISA ID	Location
17199	Additional valve at line 1 N2 spring return valve	Install a valve (059-3) downstream of the spring return valve.	Provide consistency between the 5 ADU lines and procedures.	ISA-03 ADU Conversion	ADU line 1 near the bag filters FL-112A/B
17200	ECG Room Hoist	Install electric hoist to lift the lid from the electrolyte reservoir and a beam on the existing structural steel from which to hang the hoist.	The electrolyte reservoir lid weighs about 200# and is difficult to handle by hand.	Components	Near column 15A, inside ECG room.
17201	2C Sintering Furnace Cooling Gland Installation	Replace existing ADU Sintering furnace element leg cooling glands with new, improved cooling glands.	New cooling glands will be able to compensate for alignment issues associated with warped furnace floors, provide improved sealing and provide improved cooling. The braided hose interconnection will provide a flexible connection to alleviate alignment issues between the gland cooling coils.	ISA-08 Pelleting	ADU Pelleting / 2C Furnace
17206	Scrubber Replacement	Replace line scrubber on Conversion Line 3 with universal scrubber.	Installation of new scrubber.	ISA-03 ADU Conversion	Line 3 Conversion
17207	Change to Pneumatic Clamp Door on Laser Welder #5 Chamber A	Change the mechanical hand wheel clamp on chamber A door to be a pneumatic clamp door similar to chamber B.	The pneumatic clamp design eliminates the chance for operator injury from muscle strain by eliminating the source of the problem, the mechanical hand wheel.	Components	Grid Area
17208	Change to Pneumatic Clamp Door on Laser Welder #3 Chamber B	Change the laser 3 weld chamber doors from the mechanical hand wheel clamp to the pneumatic clamp design.	The pneumatic clamp design eliminates the chance for operator injury from muscle strain by eliminating the source of the problem, the mechanical hand wheel.	Grounds	Grid Area
17210	Change Laser Welder 4 weld chamber Doors to Pneumatic Clamp Design.	Change the weld chamber doors from the hand wheel clamp design to the pneumatic clamp design.	The pneumatic clamp design eliminates the chance for operator injury from muscle strain by eliminating the source of the problem, the mechanical hand wheel.	Components	Grid Area
17211	Change the Laser Welder 6 Weld Chamber Doors to the Pneumatic Clamp Design	Change the doors from the hand wheel clamp design to the pneumatic clamp design.	The pneumatic clamp design eliminates the chance for operator injury from muscle strain by eliminating the source of the problem, the mechanical hand wheel.	Components	Grid area

Name	Title	Description	Justification	ISA ID	Location
17212	ABAR #1 VRT Cooling Water Modification and Protection	Modify the cooling water flow for the furnace heater transformers from a series to parallel scheme.	The existing system has no over temperature or flow failure protection and the flow path for the transformers is vulnerable to a single point of failure in cooling water flow and is difficult to control.	Components	Grid ABAR furnace #1
17213	Flowmeter for DI Water Addition to Ammonia Storage Tanks	Replace the existing spring-loaded manual valve.	Remove the need for having to hold a spring-loaded valve open for a long period of time to lower the ammonia concentration in T-2/3/4.	ISA-06 Chemicals Receipt, Handling and Storage	URRS Outside / Tank Farm
17218	Replace Display Monitor	Replace model with new 7" model.	The 8056 display is obsolete and no longer available.	Grounds	Plant Wide
17219	Abandoned ECG Machine and Associated Piping Demolition	Demolish machine and the DI water and compressed air piping that is associated with it.	The old ECG machine has been removed from service.	Components	Room housing abandoned ECG machine
17221	Wheel Chair Lift Equipment Repurposing	Decommission the existing wheel chair lift and reconfigure the components to serve as an unmanned equipment/dock lift for the development and metallurgical labs.	An equipment/dock lift is needed to prevent personnel injury when conveying heavier object to the labs.	ISA-18 Laboratories	CFFF, Development and Metallurgical Lab Entry
17227	Oxide Coater 2 Industrial Vacuum Sound Enclosure	Fabricated an enclosure to house the industrial vacuum that runs during the polishing cycle on oxide coater 2.	This enclosure will reduce the noise level in the area.	Clean Side Rod Area	Oxide Coater 2
17230	HF Tank (T-1174/1191) Replacement - Mechanical Scope	Replace T-1174 HF Storage Tank and T-1191 HF Overflow Tank.	The tanks are near end of life. The upgrades improve safety and reflect current best practices for HF acid storage.	ISA-06 Chemicals Receipt, Handling and Storage	HF Storage Pad
17235	Coater 7 Controller Replacement	Replace controller with an up-to-date version controller.	Controllers are obsolete.	ISA-14 IFBA Processing	Coater 6
17236	Met Lab Renovation - Phase II, Stage 1	Provide demolition and rerouting of equipment in the met lab area in preparation of the major renovation effort for June 2017.	These areas must be cleared by 2 June 2017 to allow for asbestos floor abatement and demo and installation of new composite floor.	ISA-18 Laboratories	CFFF Metallurgical Lab
17237	FL-9405B Inlet Duct Elbow Repair	Seal crack on FL-9405B inlet duct elbow(galvanized material).	The elbow has a stress crack that can suck water in, if not sealed.	ISA-01 Plant Ventilation System	FL-9405B Elbow
17239	Disconnect Electrical for T-1174 and T-1191 Replacement	Disconnect the electrical instrumentation, control and motor wiring so that tanks can be removed.	HF tanks H-1174 and T-1191 are at their end of life and require replacement.	ISA-06 Chemicals Receipt, Handling and Storage	HF Storage Pad
17240	Install HF T-1174 Electrical Controls	Install SSC hardwired controls for level and pressure on T-1174 and two new valves, one on the inlet fill line and one on the outlet of the tank.	The existing tank is at the end of its useful life and requires replacement.	ISA-06 Chemicals Receipt, Handling and Storage	HF Pad
17241	IFBA Scrap Mezzanine Egress Lighting Installation	Install 3 new battery backup lights and rework existing lighting and receptacle circuits for feeds to those lights at the stairs in the IFBA scrap mezzanine area.	There is a lack of emergency lighting in the IFBA scrap mezzanine area.	ISA-14 IFBA Processing	IFBA Scrap Mezzanine Area
17242	Secure Handle on Tube Cart	Replace the handle attaching components with ones that allow for the handle to be more secure.	The handle attaching components will be changed out to allow for more secure handle on the tube carts.	ISA-10 ADU Rods	Tube Prep
17245	Liquid Scrap Tanks Temporary Fire Retardant	Install temporary wrap around liquid scrap tanks.	Prevents spray in the case of a leak.	ISA-11 Scrap Uranium Processing	Conversion Scrap Cage
17247	Degreaser Heater Replacement	Replace degreaser tank heater from 6 KW to 7.3 KW heater.	The degreaser heater has failed and is no longer available.	Miscellaneous	RAMCO

2017 CCF Approved by Engineer for Startup

Name	Title	Description	Justification	ISA ID	Location
17248	Fuse Addition to Secondary of 5KVA Transformer	Add fuse to secondary of 5KVA transformer on west wall of Equipment room 2.	Currently the transformer has no secondary protection.	Miscellaneous	West wall of equipment room 2 below the disconnect
17249	Bulk Blending Man Door Exit Sign	Install new tritium illuminated exit sign at the man door in the Bulk Blending room.	There is no exit sign above the man door in the Bulk Blending room.	ISA-05 ADU Bulk Powder Blending	ADU Bulk Blending room
17250	Line 4 Panel Rest on Line 4 Pellet Tray Enclosure	Modify line 4 the panel rest on line 4 pellet tray enclosure to automatically close like rod lines 1-3.	The lid on the enclosure does not close properly like lines 1-3.	ISA-10 ADU Rods	ADU rod line 4
17251	Non Fuel Line 12 Industrial Vacuum Receptacle Circuit	This CCF is to add a 120VAC receptacle next to non fuel line 12 welder for the industrial vacuum.	The existing receptacle used for the vacuum is difficult to access and should have it's own circuit.	Clean Side Rod Area	Non fuel line 12
17252	Met Lab Renovation - Phase II, Stage 2	Provide demolition, rerouting, installation and fabrication of equipment in the met lab area in preparation of the major renovation effort for June 2017.	This lab renovation project is centered around the abatement of current asbestos-containing floor tiles and replacement with a composite flooring.	ISA-18 Laboratories	CFFF Metallurgical Lab
17253	Suction Piping on West II Lagoon Pumps	Change carbon steel suction piping on west II lagoon pumps to stainless steel.	Stainless steel is a better fit for the lagoon and nitric acid compatibility.	Grounds	West II Lagoon
17254	LR-230 Off Load Dike Curb Modification	Add a new slope to the outside of the roll-over curb.	Will give the truck driver more control as he backs over the dike containment roll-over curb.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	LR-230 Off load area outside URRS
17255	Modifications for New 5S Work Table	Move a pole and a rail in the skeleton assembly area.	This is to allow room for the 5S work table.	ISA-17 Final Assembly	Skeleton fixture # 2
17256	Heat Shrink Station Lockout Valve Addition	Add lockout valve to heat shrink station.	The current valve is not easily accessible and isn't lockable without a cover.	Components	Non fuel Heat Shrink Station
17257	Inspection Pit Monorail Stop Change	Change the original fixed "hard stop" and current adjustable clamp stops to a fixed stop that can be positioned and adjusted for each inspection station through the use of spacer shims.	The clamp stops need to be reset from time to time and due to the new platforms ready to be installed, some additional adjustment to the station centerlines might be needed.	ISA-17 Final Assembly	CFFF, Final Assembly, Inspection Pit Stand
17258	Rod Weigh Conveyor Air Valve Addition	Add air valve to rod weigh conveyor.	The current air valve is far underneath the equipment. Add another lockable valve in a more convenient location.	ISA-10 ADU Rods	Rod weigh in tube prep
17259	Line 1 Powder Lift Level Probe Replacement	Replace the obsolete level probe with new probe.	Level probe is no longer manufactured.	ISA-08 Pelleting	Pellet Line 1 Powder Lift Level Probe
17262	Critical Lift Plan for S-1030 Cleanout/Inspection	This CCF documents the lift plan for the 4th iteration of the S-1030 Scrubber cleanout/inspection.	A crane is required to perform the cleanout/inspection.	ISA-01 Plant Ventilation System	Building exterior over Conversion and the UF6 Bay; Also affect area outside of building around UN Tank, UN unloading, UF Tank, and Boiler House
17263	Weld Chamber End Stop helium line Addition	Install a helium line for the weld chamber end stop.	This installation will help eliminate discoloration of the bottom end plugs during the weld cycle.	Components	Line 7 Thimble Line

Name	Title	Description	Justification	ISA ID	Location
17264	O2 Monitor for Product Development Lab Viper Loop	Replace obsolete O2 monitor with current model O2 monitor in the viper loop pit.	The current O2 monitor in the product development lab viper loop pit has failed and is obsolete.	ISA-18 Laboratories	Product Development Lab Viper Loop
17265	MET Lab	Remove old asbestos tile and install new decorative flake floor system with approximately 3/16" thick epoxy motor base.	Old tile has caused tripping hazards due to deterioration and buckling.	ISA-18 Laboratories	Autoclave, Office Area, SEM Rm, Sample Prep Rm
17266	Addition of Panel for Erbia Pick and Place Assembly	Replace the existing plastic curtain at the Erbia tray loader.	To provide a physical separation between the grinder operator and the pick and place.	ISA-20 ERBIA	At the tray loader in ERBIA
17267	Installation of new MCC on Thermal Stability Platform	Install new MCC, feed from Substation 2 800A breaker (Brkr 223).	Buss Duct is difficult to reach and parts are obsolete	ISA-08 Pelleting	Substation 2 is on Mechanical Side, New MCC will be on Chemical Side on mezzanine between Pelleting and ADU Rods
17268	Installation of new MCC between ADU Sintering Furnace 3C and 4A	Install new MCC, feed from Substation 2 800A Breaker (Brkr 215).	Buss Duct is difficult to reach and parts are obsolete.	ISA-08 Pelleting	Substation 2 is on Mechanical Side, New MCC will be on the Chemical Side between ADU Sintering Furnaces 3C and 4A
17269	Final Assembly High Bay LED lighting Modification	Install high bay light diffusers over crane way and 3 additional high bay fixtures over the inspection pit.	The new high bay LED lighting is causing glare issues with operators running cranes.	ISA-17 Final Assembly	Final assembly crane way and inspection pit
17270	Plating Room Condenser Removal	Remove condenser for the plating room from the roof.	Demolition efforts.	Components	Mechanical Roof Area above the plating room mezzanine
17271	Model 396 pH Probe Usage	Allow use of Model 396 pH Probe.	Replacement of current EPA building pH probe.	Grounds	Aerator and River pump out pH meters, outside in the EPA Building
17272	Installation of a Clean Out Access Door for the IFBA Dry Room Duct Section	Install a clean out access door for the IFBA dry room section of duct from the rod loading table to FL9425.	Better access to inspect and clean out duct.	ISA-01 Plant Ventilation System	IFBA near Oven 3
17273	Manual Skeleton Fixtures 4 and 6 T-Pin Sensor Project	Install a new sensor to detect if the T-Pin is in location and to install a Class 2 Laser to detect position.	A skeleton was scrapped due to an operator pulling a top nozzle yoke pin too soon.	ISA-17 Final Assembly	Final Assembly - Manual Skeleton area
17276	IFBA Drying Ovens 1 & 2 PLC Address Change	Change the IP addresses for the PLCs on the IFBA drying ovens 1 and 2 from business network addresses to Process Control Network addresses.	The new computer is on the PCN so the PLCs have to be on the PCN also.	ISA-12 IFBA Fuel Rod Manufacturing	IFBA drying ovens 1 and 2
17278	Add 3 Hold Down Bolts to C401B Vaporizer Lid and Replace the Other 6 Hold Down Bolts with the New Style Tabs	Add three hold down bolts to the lid to decrease the distance between hold down bolts and replace the old hold down tabs with the new style to prevent the eye bolt from coming out while we are tightening it down.	This modification will bring the total amount of hold down bolts to 9 which is similar to 10 on the lines 1 & 2 vaporizers.	ISA-03 ADU Conversion	Line 4 UF6 Bay
17281	Existing Frequency Drive and Guard Railing Relocation on IFBA Coater #4	Replace existing frequency drive and relocate guard railing on IFBA Coater #4.	The existing drive has failed and the railing must be moved to meet the clearances required by the National Electrical Code.	ISA-14 IFBA Processing	IFBA Coater #4

2017 CCF Approved by Engineer for Startup

Name	Title	Description	Justification	ISA ID	Location
17289	Auto Dashpot Fab System Vacuum Chip Collection Collar Redesign	Redesign the vacuum chip collection collar around the lathe chuck to reduce the weight of the part.	The current part is a very heavy stainless steel ring causing dings in the chuck body.	Clean Side Rod Area	Mechanical side between the tool room and the skeleton area
17290	In Line Helium Leak Check Entry and Exit Door Lockouts, Holding Pump Electrical Plug	Install new lockable valves on air lines to the entry and exit doors for chamber 1 and 2 and an electrical plug and receptacle for the holding pumps.	The lockable valves with provide a safe lockout means for servicing the entry and exit doors and the electrical plug will provide a safe disconnecting means to service the holding pumps.	ISA-10 ADU Rods	In Line Helium Leak Check 1 and 2
17291	Pellet Sintering Furnace 5A Power Feeder Installation	Install new 480V power feed to pellet sintering Furnace 5A.	Replacement of damaged (arc-traced) and obsolete bus plug service.	ISA-08 Pelleting	Pellet Line 5A furnace and Thermal Stability furnace platform
17292	ECG Machine Tube Delivery Ramp Modification	Modify the ECG machine tube delivery ramp frame to allow the drip collection reservoir used during electrolyte fluid change to be stored under the frame when not in use to save floor space in the room.	A location is needed to store the drip collection reservoir when not in use to save floor space and reduce tripping hazards.	Components	Inside the new ECG room at column 15A
17293	4A Sintering Furnace Cooling Water Modification	Route cooling water piping to have a separate manifold for the exit muffle and element cooling glands/thermocouple cooling water jackets and install a circuit sentry and manual bypass on each manifold supply line.	The manual bypass to the supply lines to each manifold will provide a method to redirect flow should there be issues with the Circuit Sentry(s).	ISA-08 Pelleting	ADU Pelleting \ 4A Sintering Furnace
17297	LR-230 Offload Air Reel Relocation, Bollard Post Removal and Angle Bracket Installation	Locate air reels for better access, remove damaged bollards and install angle bracket behind existing concrete truck stops for additional support.	Relocation of air reels or accessibility, bollards have been replaced and are not needed, angle to improve impact on concrete truck stops.	ISA-02 Uranyl Nitrite Bulk Storage Tanks	LR-230 offload pad
17298	Fan change out on Scrubber 4025	Replace the new fan with old fan. This is a direct replacement back to the fan from the original installation of the Scrubber.	The new replacement fan installed on the Plating Room Scrubber System is not acceptable due to severe vibration issues.	ISA-01 Plant Ventilation System	Plating Room Mezzanine
17299	X-Ray Index Camera and Chamber Lights	Replace the existing x-ray index camera and monitor in the QC Rods area and replace failed fluorescent chamber lights with LED fixtures.	The existing camera has failed and the mounting was insufficient.	ISA-10 ADU Rods	QC Rods x-ray
17300	Grid Laser 3, 4, 5 and 6 Vision Camera	Add alternate camera model #.	Current camera is obsolete.	Components	Grid Lasers 3, 4, 5 and 6
17302	Install Pin on Pellet Line # 5 Boat Loader Vacuum Head Assembly	Install a removable 3/8" pin of the boat loader vacuum head assembly to eliminate potential energy and possible pinch points resulting from a loss of air supply to the boat loader pneumatics.	The installation of a removable pin which will be utilized in future maintenance activities will eliminate the need to rely on supplied air to keep the vacuum boat loader head in the safe raised position.	ISA-08 Pelleting	ADU Pelleting Line #5, Vacuum Boat Loader
17303	Thermal Stability Furnace Target Change	Add thermal stability furnace pyrometer calibration target details and allow use as production target.	To make the pyrometer calibration target and the production target the same to improve temperature measurement reliability.	ISA-08 Pelleting	ADU Pelleting / Thermal Stability Furnace
17304	Install Pin on Pellet Line # 3 Boat Loader Vacuum Head Assembly	Install a removable 3/8" pin of the boat loader vacuum head assembly to eliminate potential energy and possible pinch points resulting from a loss of air supply to the boat loader pneumatics.	The installation of a removable pin which will be utilized in future maintenance activities will eliminate the need to rely on supplied air to keep the vacuum boat loader head in the safe raised position.	ISA-08 Pelleting	ADU Pelleting Line #3, Vacuum Boat Loader

Name	Title	Description	Justification	ISA ID	Location
17305	Install Pin on Pellet Line #4 Boat Loader Vacuum Head Assembly	Install a removable 3/8" pin on the boat loader vacuum head assembly to eliminate potential energy and possible pinch points resulting from a loss of air supply to the boat loader pneumatics.	The installation of aremovable pin which will be utilized in future maintenance activities will eliminate the need to rely on supplied air to keep the vacuum boat loader head in the safe raised position.	ISA-08 Pelleting	Pelleting Line 4, Vacuum Boat Loader
17306	Install Pin on Pellet Line #1 Boat Loader Vacuum Head Assembly	Install a removable 3/8" pin on the boat loader vacuum head assembly to eliminate potential energy and possible pinch points resulting from a loss of air supply to the boat loader pneumatics.	The installation of a removable pin which will be utilized in future maintenance activities will eliminate the need to rely on supplied air to keep the vacuum boat loader head in the safe raised position.	ISA-08 Pelleting	Pellet Line 1, Vacuum Boat Loader
17307	Installation of new Muffle Furnace (Lines Room)	Replace obsolete muffle furnace in chem lab (Lines Room) with similar and replace breaker (20A for 30A). Disconnecti socket in the lab.	Furnace is in poor condition and requires replacement.	ISA-18 Laboratories	Chem Lab - Lines Room
17308	Remove Abandoned in Place Drain Line	Remove an abandoned in place 1/2" drain line attached to the 6" roof drain pipe at column 15D next to ABAR #1.	This 1/2" drain line is unused and abandoned in place; its removal will eliminate a potential leak point for the roof drain.	Grounds	Column 15D next to ABAR #1
17313	Chemical Storage Building (Oil House) Roll Up Door	Replace chemical storage building roll up door.	Existing door has failed and needs to be replaced	ISA-06 Chemicals Receipt, Handling and Storage	North End of Plant (was the Paint Booth).
17315	PLN4 Tray Conveyor Modified Pans	Install modified pans on the pellet line #4 tray conveyor to allow for improved back end ECOs.	Eliminate pinch points and improve effectiveness of line ECOs.	ISA-08 Pelleting	Pellet Line #4 at Pellet Tray Conveyor between Grinder and D&V Station
17317	Pellet Line #2 Boat Loader Vacuum Head Assembly Pin Installation	Install a removable 3/8" pin on the boat loader vacuum head assembly to eliminate potential energy and possible pinch points resulting from a loss of air supply to the boat loader pneumatics.	The installation of a removable pin will eliminate the need to rely on supplied air to keep the vacuum boat loader head in the safe raised position.	ISA-08 Pelleting	Pellet Line 2, Vacuum Boat Loader
17318	Erbia Boat Loader Vacuum Head Assembly Pin Installation	Install a removable 3/8" pin on the boat loader vacuum head assembly to eliminate potential energy and possible pinch points resulting from a loss of air supply to the boat loader pneumatics.	The installation of a removable pin will eliminate the need to rely on supplied air to keep the vacuum boat loader head in the safe raised position.	ISA-08 Pelleting	Erbia Area, Vacuum Boat Loader
17319	Line 9 UT testing upgrade	Replace the current ultrasonic inspection electronics with new inspections electronics.	Replacement parts and services are obsolete.	ISA-10 ADU Rods	UT line 9
17320	UT2 testing upgrade	Replace the current ultrasonic inspection electronics with new inspections electronics.	Repair parts and services are obsolete.	ISA-10 ADU Rods	UT2 above the test tank
17323	V-1085 recovery water to V-1476A Piping and Valve Addition	Add valves and pipe to allow V-1085 recovery water to go to V-1476A.	To allow the flow to be diverted to SOLX II.	ISA-07 Solvent Extraction	SOLX
17324	I/O Cards Prefix TC vs TK	Allow use of prefix TC and TK cards interchangeably on non-SSC systems.	TC prefixed I/O modules are no longer available.	ISA-03 ADU Conversion	Storeroom spare parts for the Honeywell Experion system

Name	Title	Description	Justification	ISA ID	Location
17326	CE Weld chamber repair	Replace the cracked glass with an acrylic substitute.	The glass looking port of the CE weld chamber cracked and needs to be replaced.	ISA-17 Final Assembly	CE skeleton area
17329	Grinder Line 6 Temporary Ram Bed Replacement	Replace the stepper motor driven ram bed assembly with a manual, hand-wheel driven ram bed assembly.	Installation of the manual, hand-wheel driven ram bed assembly like those used on Grinder Line 1 - 5 will allow use of the Grinder Line 6 until the replacement arrives and is installed.	ISA-08 Pelleting	ADU Pelleting / Grinder Line 6
17330	#1 Cooling Water Return	Replace the #1 cooling water return trough with an improved version.	The existing #1 cooling water return trough is inadequate and needs to be replaced.	Components	Age hardening ABAR #1
17331	Laser A Grid Build, Fixturing, and Marking Stations	Install Grid Build Station, Fixturing Table, Marking Station, and Laser A mezzanine in the grid area.	Part of SU Grid Expansion.	Components	Grid Area / Laser A
17334	Flow control for Sleeve Slotting Machine Part Knock Out Cylinders	Add pneumatic flow controls to the part knock out cylinder on the sleeve slotting machines.	The part knock out cylinder operates very quickly (one can hardly see it move) and doesn't need to operate at that speed.	Grounds	Machine shop
17335	V-1167 Hose Modification	Install a stainless steel wand at the end of the hose used to collect material from DSU600 drums as feed to the warm caustic process.	The metal wand will be easier to clean than the chemical hose, lessening the potential for external uranium contamination.	ISA-15 URRS Wastewater Treatment System	URRS Outside/Waterglass
17338	Plating Room HVAC Duct Work Smoke Detector Installation	Install a smoke detector in the plating room HVAC duct work.	This a NFPA requirement.	Components	Plating Room Mezzanine
17339	Lower Viscosity Halocarbon Oil to Fill Sealed Instrument	Allow use of lower viscosity Halocarbon Oil to fill sealed instrument.	The replacement oil is a lighter oil designed for filling instrument systems.	ISA-15 URRS Wastewater Treatment System	This oil is designed for use as an instrument "fill"
17340	Ladder for CL1 Platform	Replace the ladder on CL1.	The current ladder has an L-bracket at the top, which makes ascending and descending the ladder difficult and unsafe.	ISA-03 ADU Conversion	CL1 Platform
17341	Fire Pump House #1 Alarm Additions	Modifiy the Fire Pump #1 Common Trouble Alarm and the Fire Water Tank T-8205 low level alarm from the Fire Pump House #1 so that they will be tied into the CFFF Simplex Fire Alarm System and upgrade the four (4) existing obsolete monitoring devices (ZAMS) being used on the Fire Pump #1 system.	Fire Protection Improvements	Grounds	Fire Pump House #1
17342	PLN1 Tray Conveyor Modified Pan Installation	Install modified pans on the pellet line #1 tray conveyor to allow for improved back end ECOs.	Eliminate pinch points and improve effectiveness of line ECOs.	ISA-08 Pelleting	Pellet Line #1 at pellet tray conveyor between grinder and D&V station
17343	PLN2 Tray Conveyor Modified Pan Installation	Install modified pans on the pellet line #2 tray conveyor to allow for improved back end ECOs.	Eliminate pinch points and improve effectiveness of line ECOs.	ISA-08 Pelleting	Pellet Line #2 at Pellet Tray Conveyor between Grinder and D&V Station

Name	Title	Description	Justification	ISA ID	Location
17347	Control changes on Production Engineering Lab rotating conveyor	Perform control changes on the P.E. lab rotating conveyor.	The current VFD has no line reactor and this can cause "noise" on our power grid.	ISA-18 Laboratories	Conveyor outside of the P.E. Lab roll up door on the East side of the building (controls are inside the building)
17350	Simplex Fire Alarm System Programming Changes	Set the requirements of a Pre-Approved Level 2 Modification that allows future programming modifications to the Simplex Fire Alarm System with an appropriate graded level of review and approval.	The CFFF configuration management process allows for an appropriate graded level of review and approval for certain types of modifications.	Grounds	Site-wide
17352	UPS 120vac Receptacle for Plant Network Switch in HP	Install a 120vac UPS receptacle in the IT closet located in Health Physics.	It was discovered during the recent scheduled Power Outage in June 2017, that this IT rack of Network Switches is not on UPS power.	Miscellaneous	Data Center and Health Physics
17354	Power and Control Transformer/ Transformer with Power Conditioning Substitution	This CCF describes the equivalency criteria that allows Substitution against future power and control transformers, including transformers with power conditioning. This CCF applies to only non-SSC systems that requires substitutions.	Replacement of parts or equipment with components that meet the equivalency criteria for form, fit, and function.	Grounds	Plant Services
17355	Pellet Line 6 Vibratory Bowl Feeder Modification	Modify the bowl on pellet line 6's vibratory bowl feeder to eliminate hold up points where rogue pellets can become stuck.	Modifications are being implemented to address a customer observation in which a rogue annular pellet was found stuck in one of the void spaces while the customer contract was running a solid pellet.	ISA-08 Pelleting	Vibratory Bowl Feeder for Pellet Grinding Line #6
17356	Tube Prep Area Modifications	Set the requirements for a Pre-Approved Level 2 Modification that allows future work to be performed in the Tube Prep area with an appropriate graded level of review and approval.	The CFFF configuration management process allows for an appropriate graded level of review and approval for certain types of modifications.	Components	Tube Prep area as marked on attached drawing
17359	Boiler Water Treatment Chemical Replacement	Replace the current chemical with a similar product from specified vendor to scavenge oxygen that remains after deaeration and replace current chemical with product from specified vendor to serve as a scale and corrosion inhibitor.	The two chemicals currently in use have been replaced by updated products in the vendor's product portfolio, and are due for short term phase out.	Grounds	Boiler Houses

2017 CCF Approved by Engineer for Startup

Name	Title	Description	Justification	ISA ID	Location
17363	Pre-approved Level 2 Mod Fire Alarm System Speaker/Horn Changes	This CCF is to set the requirements for a Pre-Approved Level 2 Modification that allows future speaker/horn modifications to the fire alarm system with an appropriate graded level of review and approval. Modifications include additions, subtractions, and upgrades.	The CFFF configuration management process allows for an appropriate graded level of review and approval for certain types of modifications.	Grounds	Site-wide
17365	Fuel Oil Tank Dike Sealant	Seal dike with epoxy based material per attachment.	Concrete in dike area is cracked in different places.	ISA-06 Chemicals Receipt, Handling and Storage	Fuel Oil Tank Area
17366	Create ability to cut Polycords to length as needed on Grinder Line 1	Allow the ability to cut/splice the Polycord as needed to allow for stretching, therefore, the actual length will be adjusted to maintain proper tension on the cord.	The polycord stretches overtime. The pellet area needs the ability to adjust length as needed to maintain proper tension.	ISA-08 Pelleting	Pellet Grinder Line 1 Polycord Conveyor
17369	Rental Chiller for Equipment Room #3	Procure a rental 400 ton air cooled chiller and generator to provide chilled water for equipment room #3 customers. Locate rental chiller and generator adjacent to EG-9 outside of equipment room #3. Install chilled water supply and return hoses from the rental chiller, and connect hoses into the plant chilled water system using the connections on the primary loop pump for chiller #7. Fill the rental chiller and hoses with city water, and purge the air at the system high point.	Chiller #7 is a 500 ton centrifugal chiller utilizing R134a that is not economical to repair.	Grounds	Equipment Room #3 / Building Exterior Adjacent Equipment Room #3
17372	Critical Lift Plan for the S-1030 Cleanout/Inspection	This CCF documents the lift plan for the Aug-2017 PM cycle for the S-1030 cleanout & inspection.	Mobile crane is required to remove and replace baskets during the S-1030 PM.	ISA-01 Plant Ventilation System	Chemical area roof above conversion/UF6 bay
17381	TPBAR X-Ray unit upgrade to New Imaging Unit	The current X-Ray inspection electronics (GE Unit 225 KV power supply) is to be replaced with an North Star Imaging Unit (150 KV power supply).	The current GE Unit does not operate as reliably as required for the TPBAR inspection process.	Clean Side Rod Area	TPBAR X-Ray Cabinet
17382	Erbia Clean Scrap Oven Door (OV9286) I Beam Lift Installation	Install I-beam for lifting of Erbia Clean Scrap Oven Door (OV9286).	A lifting device is needed to safely lift the oven's door in order to make the required door seal repair.	ISA-20 ERBIA	Structural steel above the Erbia Clean Scrap Blue-M Oven (OV9286)
17383	N.A. Boiler Modifications	Add valves, drains, vents and modify sight glass and piping.	Modification needed to comply with ASME Code and ARISE Jurisdictional Report.	Grounds	Boiler House
17384	#1 Boiler Modifications	Add valves, drains, vents and modify sight glass and piping. Repair leaking valve. Replace spool piece and remove steam supply.	Modification needed to comply with ASME Code and ARISE Jurisdictional Report and general repairs needed.	Grounds	Boiler House
17385	Boiler #2 Modifications	Add valves, drains, vents and modify sight glass and piping. Repair leaking valve. Replace spool piece and remove steam supply.	To comply with ASME Code and ARISE jurisdictional report and NFPA Code.	Grounds	Boiler #2 Boiler House
17387	Furnace Area Filter House FL-2277, filter differential pressure measurements upgrade	Replace the existing differential pressure gauge/switches with the functional equivalent Dwyer gauge/switches.	The existing gauges cannot be read in the sunlight.	ISA-01 Plant Ventilation System	Sintering Furnace Filter House FL-2277 on the Roof
17388	Install Alfa Laval Condenser On CL4 Like CL3 Completed On CCF-12212	The condenser on CL4 is obsolete and this CCF will install the new model like line 3.	Obsolescence	ISA-03 ADU Conversion	Conversion Line 4

Name	Title	Description	Justification	ISA ID	Location
17393	Oxide Coater #1 & 2 Helium and Argon Station Vacuum Pump Replacement Pre Approved Modification	This CCF is to replace the existing 60HD vacuum pump at the Oxide Coater #1 & 2 Helium and Argon backfill station with an Edwards NXDS10I dry scroll pump. This is to be a pre approved modification.	The pump is obsolete.	Components	Mechanical, Oxide Coater #1 & 2 Helium and Argon backfill station
17395	Furnace Area Filter House FL-2275 Filter Differential Pressure Measurements Upgrade.	Replace the existing Sensocon differential pressure gauge/switches with the functional equivalent Dwyer gauge/switches.	The existing Sensocon gauges cannot be read in the sunlight.	ISA-01 Plant Ventilation System	Sintering Furnace Filter House FL-2275 on the roof
17399	Laser Welder 5, Chamber A, Door Handle Replacement	Replace door handle with knob on laser welder 5, chamber A.	To facilitate door opening.	Components	Grid area
17400	Asbestos Removal on City and Chilled Water	Remove asbestos on city water and chilled water piping.	Asbestos known to cause chronic health issues.	Grounds	Locations include the MRO stock room, and above pelleting in conversion
17401	Sealant Addition To 4C/4D Filter Houses.	Add sealant to 4C/4D filter houses prior to insulating.	Due to the degradation of the housings the sealant would provide a barrier to prevent ingress of rain water.	ISA-01 Plant Ventilation System	Roof filter housings
17402	Oxide Coater 1 V-block on prep lift	Add V-blocks with rollers to be more consistent with soft handling on Oxide Coaters.	The current style V-blocks do not have rollers.	Components	Tube Prep Oxide Coater 1 near MRO storeroom
17406	ECG Electrolyte Pump Relief Valve Change	Replace current brass body solenoid valve with new stainless steel body valve and change out the coupling pipe parts with stainless steel parts simulataneously.	Manufacturer has changed the specification of the supplied part.	Grounds	Near column 15A, in the ECG room
17409	PSV-S-1174A - Upgrade from PVC to PVDF	Upgrade PSV-S-1174A on T-1174 HF Storage Tank from PVC to PVDF to satisfy CAPAL 100476479.	PVDF has better long-term resistance to HF Acid.	ISA-06 Chemicals Receipt, Handling and Storage	HF Acid Storage Tank
17410	Perforated Sheet on PLN2 Pellet Drying Oven Extension	Replace the existing 16 GA, 304 ss perforated sheet (holes: 1/4" round, staggered. hole centers: 5/16") installed on PLN2 with a longer perforated sheet of the same material and perforation type.	Eliminate gaps which allow pellets to fall into bottom of online dryer beneath perforated sheet in the existing configuration.	ISA-08 Pelleting	Pellet Line 2 Online Pellet Tray Drying Oven between Grinding and D&V station.
17413	Site Access Alpha Gate relocation	Relocate existing alpha gate closer to the plant on the south side of SCE&G Substation.	The current location of the alpha gate restricts SCE&G's access to its substation located on the Columbia site.	Grounds	Plant grounds Alpha Road at the entrance from Bluff Road
17414	Pellet Line 1 Ribbon Blender Rotation Sensor Arc Repair	Replace the existing 120Vac prox switch with a 24Vdc prox switch.	The existing prox switch does have a quick connect however the pins over time are susceptible to being bent.	ISA-08 Pelleting	Pellet Line 1 Auto Feed Prep Ribbon Blender

Name	Title	Description	Justification	ISA ID	Location
17417	Substitution for Motor Starters and Associated Components	This CCF will allow substitution of non-SSC electrical motor starters and associated components.	Manufacturers constantly make motor starter components obsolete.	Components	Plant wide
17419	Pellet Line 2 Ribbon Blender Rotation Sensor Arc Repair	Replace the existing 120Vac prox switch with a 24Vdc prox switch.	The existing prox switch does have a quick connect. However, the pins over time are susceptible to being bent.	ISA-08 Pelleting	Pellet Line 2 Auto Feed Prep Ribbon Blender
17420	Pellet Line 3 Ribbon Blender Rotation Sensor Arc Repair	Replace the existing 120Vac prox switch with a 24Vdc prox switch.	The existing prox switch does have a quick connect. However, the pins over time are susceptible to being bent.	ISA-08 Pelleting	Pellet Line 3 Auto Feed Prep Ribbon Blender
17421	Pellet Line 4 Ribbon Blender Rotation Sensor Arc Repair	Replace the existing 120Vac prox switch with a 24Vdc prox switch.	The existing prox switch does have a quick connect. However, the pins over time are susceptible to being bent.	ISA-08 Pelleting	Pellet Line 4 Auto Feed Prep Ribbon Blender
17423	IFBA Cooling Tower Repairs	Repair the leaking seams in the 2 cell IFBA cooling tower cold water basins.	The cold water basin seams are leaking in both IFBA cooling tower cells.	ISA-14 IFBA Processing	IFBA Cooling Towers - Roof Above IFBA Equipment Room
17424	Replace Entrance Turnstiles	Replace the existing turnstiles with new turnstiles.	The old entrance portals are obsolete and parts for repair cannot be obtained.	Miscellaneous	Plant Entrance at Guards Kiosk
17431	Provide one or more Skeleton/Assembly Area Industrial-VACs for Zirc Replacement	Will replace the old model of industrial VACS with the new model.	This is a new model and has a different dimensions then the previous model.	ISA-17 Final Assembly	Skeleton/final assembly area
17432	Overhead Cover on BARCODE Reader 3 Gamma Scanner to Minimize Ambient Lighting and to add black background to viewing window to increase Contrast	Install an overhead cover to block the plant lighting and to use black UHMW inserts to give a greater contrast to the barcodes.	This will minimize the amount of no-read errors the BCR has.	ISA-10 ADU Rods	Barcode reader on gamma scanner 3
17433	Zone 1 Office Fire Alarm Speakers	Install a fire alarm system speaker in each of the (6) new glass offices in Zone 1 office area.	The occupants of each office will not be able to hear the emergency announcement made to the Plant when the office doors are closed.	Grounds	The new glass offices in Zone 1
17435	New Zone 1 Offices Smoke Detectors Installation	Install a smoke detector in each of the new west side glass offices in Zone 1 and connect to the plant fire alarm system.	It is a NFPA code requirement that these offices contain a fire detection device.	Grounds	Zone 1 Office Area
17436	Add new offices in Zone 1 Office Area	Add (6) new offices in the Zone 1 Office area to include 120vac receptacles, lighting, data and telephone lines and modifications to the existing Comfort Air ducts.	There is a shortage of office space in the Plant.	Grounds	Zone 1 Office Area
17438	Grid strap wash part substitution for solenoid due to obsolescence	Substitute grid strap wash part for solenoid due to obsolescence.	This CCF will allow us to use either model interchangeably.	ISA-03 ADU Conversion	Hermie

Name	Title	Description	Justification	ISA ID	Location
17450	Oxide Coater #2 Helium Station Pump Replacement	Replace the existing 60HD vacuum pump at the Oxide Coater #2 Helium backfill station with a dry scroll pump.	New pump needed.	Components	Oxide Coater #2
17452	S-2A/2B 4" Drain Line Installation	Provide a 4" drain line in duct from S-2A/2B.	Ensure solution does not accumulate in duct.	ISA-01 Plant Ventilation System	Near conversion line 5
17455	S2A/S2B Dry side duct clean out hatch doors	Install two 10" x 10" opening clean-out hatch doors immediatly down stream of transition box after roof penetration. A RAB waiver was obtained.	Clean-out hatch duct doors will aid monitoring and clean-out of material settling in the in the transition box.	ISA-01 Plant Ventilation System	S2A/S2B Duct on roof
17458	S-2A and S-2B Duct Repairs	Perform repairs to Scrubber S-2A and S-2B ductwork using external.	The galvanized ductwork has deterioration (no holes were found) on external locations identified during preparation for testing of the scrubbers.	ISA-01 Plant Ventilation System	Conversion
17460	Temporary Low Point Drains for City Water Draining	Tap drains to assist in draining water from low points and isolated lines for the creation of new tie in locations.	Several locations on the city water lines are low point pocketed or will be independently isolated which may not be able to be drained prior to cutting into lines to add new tie points.	Grounds	Conversion, Pelleting
17461	Temporary FME Barriers and Fire Blankets for Hot Work/Construction Activities on City Water	Hang fire retardent plastic to prevent sparks/FME from contaminating local equipment and processes and place fire blanketing on the ground.	Barriers will need to be in place to prevent fire and potential FME contamination in local processes.	Grounds	MAP, Conversion, Pelleting, MRO Stockroom
17462	Scrubber 2A and 2B Recirculation Pipe Orifice Plate & Gauges	Resize and replace the orifice plate in the Scrubber S-2A and S-2B recirculation pipe. Also, replace the gauges with a differential pressure transmitter that can be read locally.	The current orifice plate on 2B is 1-1/2" and the 2A orifice plate hole is not centered.	ISA-01 Plant Ventilation System	Conversion Area 2A 2B scrubber recirculation piping
17465	Penthouse network switch power	Add a power outlet in the penthouse to power two new network switches and a new PC.	Roof contractor access to the roof readings application.	Grounds	Penthouse
17468	Removal of BWR Magazine Track and Cart Guides	Remove the BWR track and rod channels for carts due to no longer being used and store on-site for future business.	The obsolete equipment should be removed to prevent a possible tripping injury.	ISA-17 Final Assembly	Bay E-F & 11-12 BWR Rod Loading
17474	Automatic Transfer Switch 5ATS1 Controller Repair	Replace the damaged controller on automatic transfer switch 5ATS1.	The controller (CPU) for this ATS is obsolete and needs to be replaced with the recommended replacement already identified by vendor.	Miscellaneous	3rd Floor IFBA Equipment Room
17489	Pre-Approved Level 2 Mod - Tool Room Area (Replaces CCF 17231)	This is a generic level 2 pre-approved modification form for performing review, demolition, construction, and startup of plant modifications within the Tool Room Area.	Tool Room equipment and arrangements are constantly changing to meet the needs of the plant.	Components	Tool Room Area
17492	Plating Room Scrubber Fan Replacement	Replace existing carbon steel fan at FN-5025 with fan purchased specifically for this scrubber.	Fan specific to scrubber.	Components	Above Plating Room

2017 CCF Approved by Engineer for Startup

Name	Title	Description	Justification	ISA ID	Location
17496	Update PM8300 Scan Gun Parts In the Storeroom to PM9300	Update parts 294015 thru 294021 and parts 294097 thru 294099 in the store room.	Part Obsolescence	ISA-03 ADU Conversion	Conversion
17501	IFBA Vacuum Oven 2: Zone 2 Temp Transmitter Replacement	Replace obsolete transmitter in IFBA vacuum overn 2.	The transmitter is also obsolete and cannot be found.	ISA-12 IFBA Fuel Rod Manufacturing	Vacuum Furnace #2
17502	Critical Lift Plan for S-1030 Cleanout/Inspection	This CCF documents the lift plan for the November 27, 2017 iteration of the S-1030 Scrubber cleanout/inspection.	A crane is required to perform the cleanout/inspection.	ISA-01 Plant Ventilation System	Building exterior over Conversion and the UF6 Bay. Also affect area outside of building around UN Tank, UN unloading, UF Tank, and Boiler House
17507	Critical Lift Plan for S-1056 Drip Pan	This CCF documents a lift plan addendum to the S-1030 Scrubber cleanout/inspection critical lift plan. This critical lift will involve the T-1056 drip pan only.	The same crane used for the S-1030 inspection and cleanout will be used to remove the S-1056 drip pan from the roof.	ISA-01 Plant Ventilation System	Building exterior over Conversion and the UF6 Bay. Also affect area outside of building around UN Tank, UN unloading, UF Tank, and Boiler House.
17508	Pelleting Furnace 3B BPCS Door Interlock Modification	Modify BPCS programming and wiring to add an interlock to prevent actuation of the manual door valves when overridden by the Safety PLC.	This work will prevent the switching of those valves while the Safety PLC has overridden them so that unexpected position change will not occur when the Safety System is reset.	ISA-08 Pelleting	Pellet Sintering Furnace 3B
17511	CAAS Stations Isolation Circuit Breaker Installation	Install isolation circuit breakers at individual criticality monitoring stations that do not currently have a means of electrical protection and isolation.	The current configuration leaves the system vulnerable to a single electrical failure at an individual station causing the system to fail.	Grounds	Criticality Monitoring System
17519	Final Assembly Rinse Tanks Steam Supply Modification	Add a shut off valve to the Final Assembly rinse tank steam supply and a steam trap on the incoming side of the new valve.	The modification will shut off steam prior to the regulator during process demand idle and allow downstream pressure to naturally bleed off.	ISA-17 Final Assembly	Final Assembly rinse tanks
17551	Pelleting Pilot Line Blue M Oven Door Cable Options	This CCF would allow either the current configuration or a similar configuration to that used on the Pelleting Blue M ovens. The cable fastener design is different between the 2 options.	Exact replacements can't be sourced according to the oven manufacturer.	ISA-08 Pelleting	Pilot Line Oxidation