

Advanced Procurement & Fabrication

DOE Authorization Required to Position us for success

Begin the procurement process leading to the award of the following critical path procurements;

1. TF Conductor-Copper Extrusions *Early procurement assumed in current plan! Delaying to CD-3 would impact project by 4 months.*
 2. Machining contract for TF Conductors
 3. TF Lead Extensions
 4. Fabrication of CS CFC Material *On critical path. Early procurement mitigates risk of vendor delays/uncertain deliveries impacting the project.*
- Early procurement mitigates risk of vendor delays/uncertain deliveries.*

Begin high leverage, well defined fabrication and assembly tasks;

1. Refurbishment of NB components – *Personnel and facilities in place following the decontamination efforts. Would provide flexibility in assigning staff.*
2. Begin facility set-up of a CS winding/fabrication area. *This would provide a clean & controlled work area for receiving hardware and provide potential for accelerating the critical path.*

- ***DOE Approval of critical procurements in advanced of CD-3 approval are vital to meeting the current schedule, mitigate vendor delivery uncertainties, and posture the project to accelerate schedule***
- ***DOE Approval to begin fabrication provides PPPL flexibility to manage staff***

Task #	Description	Award	Amount	Lead Time (months)	Job Number	Responsible
1304-0600	Manufacture TF Conductor-Copper Extrusions (80)	December-2010	\$242,000	4	1304	CHRZANOWSK
1304-0790	Fab & Del TF Lead Extensions	March-2011	\$50,000	5	1304	CHRZANOWSK
1304-0750	Machine TF Conductors (Cng Grooves, Lead Areas)	May-2011	\$250,000	3	1304	CHRZANOWSK
1001-0066	Fabricate and Deliver - CFC Material	July-2011	\$900,000	12	1001	TRESMER
1304-0850	Friction Stir-Weld Coil Leads to Conductors	August-2011	\$250,000	3	1304	CHRZANOWSK
2480-0052	Fabricate / Delivery - 40" Bellows Section	October-2011	\$208,000	6	2480	PRINISKI
1305-2104	Fab & Deliver Braze Station	November-2011	\$100,000	4	1305	CHRZANOWSK
2480-0057	Fabricate / Delivery-Rectangular Bellows Section	December-2011	\$415,000	19	2480	PRINISKI
1306-4030	Fab & Deliver SS Supp for PF1A/B	December-2011	\$100,000	4	1306	CHRZANOWSK
1001-0066A	Fabricate/Machine 800 tiles	April-2012	\$150,000	13	1001	TRESMER
2480-0063	Fabricate / Delivery - Vessel Cap & Port Extensn	June-2012	\$100,000	9	2480	PRINISKI
MPS-103	DCP -Hardware (procure & Install)	July-2012	\$420,000	10	5008	RAKI
1307-2030	Fabricate CS Casing	July-2012	\$230,000	7	1307	CHRZANOWSK
1305-2320	Fab & Deliver Winding Machine for OH	July-2012	\$125,000	4	1305	CHRZANOWSK
1306-5050	Fab & Deliver Inner PF Coils	August-2012	\$180,000	10	1306	CHRZANOWSK
1305-0950	Manufacture OH Copper Conductor	August-2012	\$105,600	3	1305	CHRZANOWSK
2475-0031	Fabricate or delivery--NBI-Controls & Instrument	August-2012	\$392,000	4	2475	CROPPER
531-013	531- FCPC DC Systems -Procure 1000MCM Cable & Tr	August-2012	\$157,500	9	5005	RAKI
531-021	531- FCPC DC Systems -Procure OH Reactors	August-2012	\$100,000	9	5005	RAKI
1201-0048A	Fabricate Components - Outer TF Structure	September-2012	\$143,832	5	1201	SMITH
2480-0047	Fabricate / Delivery - 40" VAT Valves (2)	October-2012	\$250,000	9	2480	PRINISKI
247000510	Procurement - NBI Cables	November-2012	\$422,200	6	2470	RAKI
541-009	541 - Electrical Interlocks -Procurement PLC	December-2012	\$102,000	4	5006	RAKI
2450-0036	Fabricate or delivery - Cyro parts	May-2013	\$200,000	4	2450	DENAUULT
2450-0042	Fabricate or delivery - Pipe & misc.	May-2013	\$485,000	3	2450	DENAUULT
545-009	545 - Instrumentation -Procure Transducers	June-2013	\$229,000	6	5006	RAKI
531-029	531- FCPC DC Systems - Instl cable & misc h/w	July-2013	\$535,000	4	5005	RAKI
1304-1174	Fab & Deliver Super Nuts	July-2013	\$150,000	5	1304	CHRZANOWSK
247000750	Installation - 2nd NBI Raceway	October-2013	\$480,000	4	2470	RAKI
6100-0049D	CAMAC Replacement equipment	November-2013	\$120,000	3	6100	TCHILIN
545-013	545 - Instrumentation -Installation		\$80,000	2	5006	RAKI
2485-0026	Fabricate or delivery - 3200i/s TMPx2		\$65,000	4	2485	PRINISKI
2450-0102	Platform Mods		\$75,000	3	2450	DENAUULT
24911800	Procuremnt 42 Ckt Panel NTC/30 Ckt Panel Gallery		\$60,000	0	2490	STEVENSON
247000730	Installation - Cable		\$50,000	5	2470	RAKI
1205-0108	Receipt of Hardware		\$98,085	0	1205	SMITH
24200150	Fabricate or delivery		\$66,000	2	2420	STEVENSON
1304-1124	Fab & Deliver Flex Bus		\$65,000	3	1304	CHRZANOWSK
541-013	541 - Electrical Interlocks -Installation		\$75,000	4	5006	RAKI
2475-0043	Beam Line Cabling - Installation		\$80,000	4	2475	CROPPER
2450-0053B	Engineering Support for 2nd NBI Services		\$80,000	17	2450	DENAUULT
1205-0049	Fab & Deliver incl Vendor Oversight		\$98,085	5	1205	SMITH
1001-0075	Fabricate and Deliver - hardware, other material		\$170,000	8	1001	CHRZANOWSK
1307-2240	Fab & Deliver Ceramic Insulators		\$80,000	3	1307	CHRZANOWSK
1301-0060	Manufacture (1) OTF Coil		\$90,000	7	1301	CHRZANOWSK
1304-1134	Fab & Del Cu-Cr-Zr for OTF Lead Ext		\$78,000	3	1304	CHRZANOWSK
1208-0049	Fab & Deliver incl Vendor Oversight		\$76,440	5	1208	SMITH
2480-0076	Fabricate / Delivery-Other Mtrl f/Duct		\$100,000	5	2480	PRINISKI
2460-0035	Fabricate / Delivery - Armor Tiles		\$95,000	9	2460	PRINISKI
1304-3604	Fab & Deliver Full TF Coil Mold		\$85,000	3	1305	CHRZANOWSK
1305-2620	Fab & Deliver OH Mold		\$85,000	4	1305	CHRZANOWSK
8200-0017	MISC M&S \$250 per day* 2 crews		\$150,000	28	8200	VIOLA
1304-3554	Fab & Deliver TF Quadrant Mold		\$70,000	3	1305	CHRZANOWSK
2440-0017A	Radiation Supplies (M&S)		\$250,000	34	2440	DENAUULT
1303-002	Materials Testing		\$60,000	12	1303	KOZUB
24300400	Decon Procurement Support - Material & Supplies		\$52,000	5	2430	STEVENSON
1304-0950	Machine TF Conductors (Fnl Lead Areas & Inserts)		\$50,000	2	1304	CHRZANOWSK
1304-1144	Fab & Del OTF Lead Ext (OTF to Flex)		\$50,000	4	1304	CHRZANOWSK
1304-1154	Fab/Deliver Supports for OTF Jumpers		\$50,000	3	1304	CHRZANOWSK
1304-1244	Fab & Deliver Up/Lwr Teeth Interf Struct		\$50,000	3	1304	CHRZANOWSK
2440-0031	Modify to New style		\$50,000	2	2440	DENAUULT

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8200-0099	TF Install New Coil		\$50,000	0	8200	VIOLA
1304-0050	Perform Add'l Friction Stir Weld Trials-Phase II		\$49,000	4	1304	CHRZANOWSK
2425-0037	Fabricate or delivery - Steel and Parts		\$48,000	1	2425	STEVENSON
8250-122	Purchase passive plate bolts		\$48,000	3	8250	TECHS M2
1306-2050	Fab & Deliver Inner PF Conductor		\$46,400	3	1306	CHRZANOWSK
531-025	531- FCPC DC Systems -OH React Instl		\$46,000	4	5005	RAKI
1307-2270	Fab & Deliver CB SS Structure		\$45,000	3	1307	CHRZANOWSK
2460-0041	Fabricate / Delivery - Armor Support		\$45,000	3	2460	PRINISKI
551-001	551 - System Design -design support, analysis, c		\$45,000	51	5007	RAKI
2440-0030	Refurbish Calorimeter		\$40,000	10	2440	DENAUULT
2475-0039	Penetrations - Fab/Assembly		\$40,000	0	2475	CROPPER
2480-0068	Fabricate / Delivery - Spool Piece		\$40,000	6	2480	PRINISKI
4100-0042	Coils w/mandrels - Fabricate or delivery		\$40,000	6	4100	KAITA
MPS-111	DCP -Cabling and Raceways		\$40,000	5	5008	RAKI
531-017	531- FCPC DC Systems Cabling Changes		\$36,000	4	5005	RAKI
247000285	Design & Install Transmission Line		\$35,000	11	2470	RAKI
1305-1050	Fab & Deliver Belleville Washer Assembly		\$35,000	2	1305	CHRZANOWSK
1305-1100	Fab & Deliver G-10 Filers		\$35,000	3	1305	CHRZANOWSK
1307-2060	Fab & Deliver Inconel Bellows		\$35,000	3	1307	CHRZANOWSK
1307-2330	Fab & Deliver Organ Pipe Adapters & Feedthrus		\$35,000	2	1307	CHRZANOWSK
3300-125	Bakeout-Procure Hardware		\$35,000	6	3300	RAKI
247000560	Procurement/Fab/Assembly - Raceway		\$30,000	3	2470	RAKI
1304-1214	Fab & Del Up/Lwr OH to TF Supp Struct		\$30,000	3	1304	CHRZANOWSK
1305-1150	Fab & Deliver Lead Blocks & Cooling Fittings		\$30,000	4	1305	CHRZANOWSK
1307-2150	Fab & Deliver CS Casing Support Structure		\$30,000	4	1307	CHRZANOWSK
2485-0044	Fabricate or delivery - Misc Mtrl/Comp for Ducts		\$30,000	3	2485	PRINISKI
532-013	532- PCTS Changes -Installation		\$30,000	4	5004	RAKI
CS7000031	FY2011 Project Management		\$30,000	12	7100	STRYKOWSKY
6100-0051	Networking equipment & fiber optics		\$28,000	2	6100	HENDERS
1206-0050	Receipt of Hardware		\$27,450	0	1206	SMITH
247000245	211-AC Auxiliaries PP's etc		\$25,000	6	2470	RAKI
1304-1114	Fab & Deliver C151 for Flex Bus		\$25,000	2	1304	CHRZANOWSK
1304-1184	Fab & Deliver Joint Hardware		\$25,000	1	1304	CHRZANOWSK
1304-1194	Fab & Deliver Copper Lead Ext for Upper ITF		\$25,000	3	1304	CHRZANOWSK
1304-1234	Fab/Del Tooling for Inst Flex Bus Segments		\$25,000	2	1304	CHRZANOWSK
1304-3904	Fab & deliver Lift Beam for Coil		\$25,000	2	1305	CHRZANOWSK
1305-1000	Fab & Deliver Kapton/Glass Insulation		\$25,000	2	1305	CHRZANOWSK
1305-1250	Fab & deliver OH Lwr Lead & Suppt Struct		\$25,000	3	1305	CHRZANOWSK
1305-1904	Fab & Deliver Taping Machines		\$25,000	3	1305	CHRZANOWSK
2485-0044A	Fabricate or delivery - All Other Mtrl/Component		\$25,000	4	2485	PRINISKI
8200-0123	Heating Manifold Reconfigure		\$25,000	0	8200	VIOLA
1304-1164	Fab & Deliver Lower TF Coil to Bus Jump & Supp		\$24,000	2	1304	CHRZANOWSK
1001-0068	Machine Tiles for Diagnostics		\$23,000	2	1001	TRESEMER
2485-0032	Fabricate or delivery - New VAT Valves		\$22,000	4	2485	PRINISKI
247000245	211-AC Auxiliaries PP's etc		\$20,000	6	2470	RAKI
1001-0069	Tile Bakeout		\$20,000	2	1001	TRESEMER
1302-1500	Assemble CS (OH Diag, Microtherm, Casing PFCs)		\$20,000	6	1302	CHRZANOWSK
1303-003	Component Testing		\$20,000	12	1303	KOZUB
1304-3454	Fab & Del TF Conductor Stands for Insulating		\$20,000	3	1305	CHRZANOWSK
1304-3704	Fab & Deliver VPI Delivery System		\$20,000	3	1305	CHRZANOWSK
1305-2520	Fab & Deliver OH Winding Clamps 4 sets		\$20,000	3	1305	CHRZANOWSK
1305-2704	Fab & deliver Misc Tools & Fixtures		\$20,000	4	1305	CHRZANOWSK
1305-2904	Fab & Deliver Insulation		\$20,000	3	1305	CHRZANOWSK
1305-3510	Fab & Deliver Misc Supplies		\$20,000	3	1305	CHRZANOWSK
1306-3030	Fab & Deliver Kapton/Glass Insulation		\$20,000	2	1306	CHRZANOWSK
2425-0043	Fabricate or delivery - Lifting Equipment		\$20,000	1	2425	STEVENSON
2460-0047	Delivery - New Backing Plates		\$20,000	1	2460	PRINISKI
CS7000020	FY2010 Project Management		\$20,000	5	7100	STRYKOWSKY
CS7000031R	FY2011 Project Reviews		\$20,000	12	7100	STRYKOWSKY
CS7000041R	FY2012 Project Reviews		\$20,000	12	7100	STRYKOWSKY
CS7000053R	FY2013 Project Reviews		\$20,000	12	7100	STRYKOWSKY

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MPTS-0032	Bay L Wire Seal Flange & Nozzle w/Weld Prep		\$20,000	6	4500	LABIK
MPTS-0035	Misc Materials		\$20,000	6	4500	LABIK
2425-0064	Duct Install - Path		\$19,000	0	2425	STEVENSON
4100-0036	Wire/Cables-Fabricate or delivery		\$19,000	6	4100	KAITA
MPS-111	DCP -Cabling and Raceways		\$18,000	5	5008	RAKI
1307-2090	Fab & Deliver Rotatable Flanges		\$17,100	3	1307	CHRZANOWSK
24910660	Dsgn rack reinstall-Reconf AC & Diagnostic Trays		\$16,000	2	2490	STEVENSON
1307-2120	Fab & Deliver CHI copper Leads U&L		\$16,000	3	1307	CHRZANOWSK
5501-0088	SS Hardware, Fittings, Materials Total		\$16,000	4	5501	SMITH
6100-0049C	CAMAC Replacement proto		\$16,000	3	6100	TCHILIN
247000250	212 grounding		\$15,000	6	2470	RAKI
247000700	Installation - Penetrations		\$15,000	0	2470	RAKI
1001-0032	Order Samples for testing (6 wks lead)		\$15,000	2	1001	TRESEMER
1301-0120	Fab & Del Al Supp Castings & SS Supp Clamps		\$15,000	2	1301	CHRZANOWSK
1301-0160	Fab & Del Epoxy/Glass		\$15,000	2	1301	CHRZANOWSK
1304-0065	New Insulation Primer R&D Test		\$15,000	1	1304	CHRZANOWSK
1304-3804	Fab & Deliver Lift Beam for Conductor		\$15,000	2	1305	CHRZANOWSK
1305-1200	Fab & Deliver Misc Parts		\$15,000	3	1305	CHRZANOWSK
1305-2654	Fab & Deliver Sandblast Unit		\$15,000	4	1305	CHRZANOWSK
1305-3004	Fab & Deliver Epoxy-CTD-101		\$15,000	3	1305	CHRZANOWSK
2450-0097	Legs		\$15,000	1	2450	DENAULT
2450-0099	HVAC		\$15,000	3	2450	DENAULT
2475-0040	Control Rack Cage - Fab/Assembly		\$15,000	0	2475	CROPPER
532-009	532- PCTS Changes -Procurement		\$15,000	7	5004	RAKI
542-009	542 - Kirk Key Interlocks -Procurement		\$15,000	3	5006	RAKI
5501-0086	Copper Total		\$15,000	4	5501	SMITH
MPTS-0034	Port Milling Mach, Line Bore/Mod Bridgeport Hd		\$15,000	6	4500	LABIK
24911970	Proc EQ Reinst New Pmp Duct-Tank Farm/TMB Sys/Ga		\$14,000	0	2490	STEVENSON
1202-0050	Receipt of Hardware		\$13,505	0	1202	SMITH
520-009	52 - AC/DC Converters -Procurement		\$13,000	3	5002	RAKI
247000256	Surge Room- Reactivation		\$12,000	2	2470	RAKI
2425-0086	Metrology - Box Movements		\$12,000	0	2425	STEVENSON
2480-0070	Fabricate / Delivery - RWM Coil Mtrl (cooper)		\$12,000	5	2480	PRINISKI
MPTS-0033	Bay L Port Cover		\$12,000	6	4500	LABIK
6100-0050	CAMAC Memory module		\$11,000	4	6100	WERTENB
24910080	Dsgn rack 431-435 reinstallatn-VV T/C/magnetics		\$10,000	2	2490	STEVENSON
247000250	212 grounding		\$10,000	6	2470	RAKI
740000110	FY2011 NBI Decon HP Technical Support		\$10,000	12	7400	STEVENSON
740000120	FY2012 NBI Decon HP Technical Support		\$10,000	12	7400	STEVENSON
1208-0011	Mockups:PF4/5 Vert Supp Struct Real Estate Issue		\$10,000	3	1208	SMITH
1302-0080	Modify CS Assembly Fixture		\$10,000	1	1302	CHRZANOWSK
1302-0090	Setup CS Assembly Area		\$10,000	1	1302	CHRZANOWSK
1305-2004	Fab & Deliver Tension Unit		\$10,000	3	1305	CHRZANOWSK
1305-2220	Fab & Deliver Braze Fixture for Work Coil		\$10,000	3	1305	CHRZANOWSK
1305-2420	Fab & Deliver Mold for OH-TF Spacer		\$10,000	3	1305	CHRZANOWSK
1305-2820	Fab & Deliver Aquapour		\$10,000	3	1305	CHRZANOWSK
1305-3720	Fab & Deliver Valves-Fittings (VPI)		\$10,000	2	1305	CHRZANOWSK
1305-3820	Fab & deliver High & Low Temp Vac Tube (VPI)		\$10,000	2	1305	CHRZANOWSK
2440-0011	Calorimeter TC wiring		\$10,000	5	2440	DENAULT
2480-0078	Installation Material - Duct & VV Mods		\$10,000	1	2480	PRINISKI
8200-0058	Design & build lifting method		\$10,000	1	8200	SMITH
8250-124	Fab Lift Fixture for new centerstack pedestal		\$10,000	3	8250	TECHS M2
MPTS-0036	Tooling		\$10,000	6	4500	LABIK
247000285	Design & Install Transmission Line		\$9,000	11	2470	RAKI
510-009	51- AC Power -Procurement		\$9,000	3	5001	RAKI
24910330	Design rack 449 re-installation - Glow Discharge		\$8,000	2	2490	STEVENSON
24910630	Design rack re-installation - IR Camera at Bay K		\$8,000	1	2490	STEVENSON
24911440	Procure Equipment reinstallatn New Pump Duct-RGA		\$8,000	0	2490	STEVENSON
24911720	Fab 5 sections of Platform El 118' W Side NTC		\$8,000	1	2490	STEVENSON
247000255	Switchyard- Reactivation		\$8,000	2	2470	RAKI
1201-0011	Mockups:outer link, real estate issues(# of it 4		\$8,000	3	1201	SMITH

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2460-0058	Armor Support Installation		\$8,000	0	2460	PRINISKI
546-009	546 - Coil Protection -Procurement		\$8,000	5	5006	RAKI
5501-0087	Insulation & Protection Total		\$8,000	4	5501	SMITH
6100-0052	GIS rack-move I&C fiber optics & equip.		\$8,000	1	6100	MASSRY
2425-0102	Metrology - Lid Movement		\$7,000	0	2425	STEVENSON
5501-0089	G10 FR4 Total		\$7,000	4	5501	SMITH
24911850	Remove Misc. EQ - NW Sect 109' Platform		\$6,000	0	2490	STEVENSON
247000257	Mod- reg- Reactivation		\$6,000	2	2470	RAKI
2460-0023	Tile Material Evaluation		\$6,000	2	2460	PRINISKI
2485-0047	Pre-Assemble Duct Legs 1 and 2		\$6,000	1	2485	PRINISKI
1203-0050	Receipt of Hardware		\$5,280	0	1203	SMITH
24910230	Dsgn rack 441-445 re-installatn-VV ion gages/RGA		\$5,000	2	2490	STEVENSON
247000460	Procurement/Fab/Assembly - Penetrations		\$5,000	3	2470	RAKI
740000125	FY2013 NBI Decon HP Technical Support		\$5,000	20	7400	STEVENSON
1301-0300	Fab Drill Jig for add'l holes in all OTF Flags		\$5,000	0	1301	CHRZANOWSK
1304-0060	Fabricate Flex Bus Assy's for Testing (2)		\$5,000	1	1304	CHRZANOWSK
1304-1224	Fab & Deliver Cooling Fittings		\$5,000	1	1304	CHRZANOWSK
1304-3354	Fab & Del TF Conductor Stands for Soldering		\$5,000	2	1305	CHRZANOWSK
1305-3104	Fab & Deliver pre-tinned tubing		\$5,000	1	1305	CHRZANOWSK
1305-3410	Fab & Deliver Safety & PPE		\$5,000	2	1305	CHRZANOWSK
1305-3610	Fab & Deliver RTV & Silicone for Mold Sealing		\$5,000	1	1305	CHRZANOWSK
1305-3900	Fabricate - VPI manifolds		\$5,000	2	1305	CHRZANOWSK
1307-2180	Fab & Deliver Weld Material		\$5,000	3	1307	CHRZANOWSK
1307-2210	Fab & deliver Misc M&S		\$5,000	3	1307	CHRZANOWSK
1307-2300	Fab & Deliver Viton O Rings		\$5,000	1	1307	CHRZANOWSK
2425-0093	Metrology - Source Platform		\$5,000	0	2425	STEVENSON
2425-0150	Placement - HVE 3 Movement		\$5,000	0	2425	STEVENSON
2440-0007	Exit spool piece parts		\$5,000	4	2440	DENAULT
2440-0012	Ion Dump TC wiring		\$5,000	5	2440	DENAULT
2480-0036	Installation Prototype		\$5,000	0	2480	PRINISKI
2485-0038	Fabricate or delivery - Vacuum Instrumentation		\$5,000	4	2485	PRINISKI
3200-0055	Bus Work Cooling		\$5,000	0	3200	DENAULT
3200-0057	Flow Sensors		\$5,000	0	3200	DENAULT
3200-0059	Modify Manifold		\$5,000	0	3200	DENAULT
3200-0061	Fab & Connect Lines		\$5,000	0	3200	DENAULT
5501-0090	Fab & Safety Consumables Total		\$5,000	4	5501	SMITH
6100-0065	CAMAC Memory module fab.		\$5,000	3	6100	WERTENB
CS7000041	FY2012 Project Mangement		\$5,000	12	7100	STRYKOWSKY
CS7000053	FY2013 Project Management		\$5,000	12	7100	STRYKOWSKY
CS7000054	FY2014 Project Management		\$4,380	10	7100	STRYKOWSKY
740000130	FY2014 NBI Decon HP Technical Support		\$4,345	10	7400	STEVENSON
740000100	FY2010 NBI Decon HP Technical Support		\$4,166	5	7400	STEVENSON
24910790	re-install Equipment Bay J - Reflector		\$4,000	1	2490	STEVENSON
24910840	re-install Equipment Bay J - Bolometer		\$4,000	1	2490	STEVENSON
24910890	re-install Equipment Bay J - RF Prove		\$4,000	1	2490	STEVENSON
24910940	re-install Equipment Bay J - S-Flip		\$4,000	1	2490	STEVENSON
24910990	re-install Equipment Bay J - SSNPA		\$4,000	1	2490	STEVENSON
24911240	reinstall Equip NB2 Duct-Transm Grating Spectro		\$4,000	1	2490	STEVENSON
24911290	reinstall EQ New pump duct-VV Ion Gages/Filament		\$4,000	1	2490	STEVENSON
24911380	re-install Bay L - SPRED		\$4,000	1	2490	STEVENSON
24911450	Re-install New Pump Duct - RGA		\$4,000	1	2490	STEVENSON
24911520	re-install Bay L - LOWEUS		\$4,000	1	2490	STEVENSON
24911620	re-install Bay L - Glow Discharge		\$4,000	1	2490	STEVENSON
24911730	instl 5 sections of Platform EI 118' W Side NTC		\$4,000	0	2490	STEVENSON
24911740	Fin Dsgn Power/Ground/Light @ Platform WSide NTC		\$4,000	1	2490	STEVENSON
24911760	Procurements Power/Ground/Light @ Platform W NTC		\$4,000	0	2490	STEVENSON
24911810	Install 42 Ckt Panel NTC/30 Ckt Panel Gallery		\$4,000	1	2490	STEVENSON
247000258	Arc/Filament/magnet- Reactivation		\$4,000	2	2470	RAKI
247000259	LCC- Reactivation		\$4,000	2	2470	RAKI
2425-0111	Calorimeter - Component Movement		\$4,000	0	2425	STEVENSON
2425-0120	Align 3 - Source Movement		\$4,000	0	2425	STEVENSON

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2440-0009	BL Box parts		\$4,000	4	2440	DENAULT
5501-0098	Documentn: Fab/Assy Procedure-OH BUS		\$4,000	0	5501	SMITH
1207-0050	Receipt of Hardware		\$3,860	3	1207	SMITH
24910350	re-install rack 449 - Glow Discharge		\$3,000	1	2490	STEVENSON
24910650	re-install rack - IR Camera at Bay K		\$3,000	1	2490	STEVENSON
24911910	Remove Misc. EQ-Lights/E-stops/Fire Alarm		\$3,000	1	2490	STEVENSON
2470000729	decontmination of east wall		\$3,000	2	2470	RAKI
2425-0071	Lay out - Metrology		\$3,000	0	2425	STEVENSON
2440-0020	Refurbish BL Lid		\$3,000	2	2440	DENAULT
5501-0091	Struc Support Material Total		\$3,000	4	5501	SMITH
8250-125	Install new centerstack pedestal		\$3,000	0	8250	TECHS M2
24200200	Build Probe tips (10 Long, 20 short)		\$2,000	3	2420	STEVENSON
24910030	Dsgn rack 419 re-installation - UCLA Reflectomer		\$2,000	1	2490	STEVENSON
24910180	Design rack 440 re-installation - SPRED		\$2,000	1	2490	STEVENSON
24910280	Design rack 447-448 re-installation-Fiber Optics		\$2,000	1	2490	STEVENSON
24910400	Dsgn rack 488 reinstal-Dep monitr/fast xray		\$2,000	1	2490	STEVENSON
24910420	re-install rack 488-Dep monitor/fast xray		\$2,000	0	2490	STEVENSON
24910470	Design rack re-installation - PSI Camera		\$2,000	1	2490	STEVENSON
24910490	re-install rack - PSI Camera		\$2,000	0	2490	STEVENSON
24910520	Dsgn rack reinstallation-Ultra Fast X-ray Camera		\$2,000	1	2490	STEVENSON
24910540	re-install rack - Ultra Fast X-ray Camera		\$2,000	0	2490	STEVENSON
24910580	Prp procd rack reinstall-Transm Grating Spectrom		\$2,000	0	2490	STEVENSON
24910600	Design rack re-installation -IR Camera at Bay L		\$2,000	1	2490	STEVENSON
24910740	re-install Equipment Bay J - Two gas injectors		\$2,000	0	2490	STEVENSON
24911360	Procure Equipment re-installatn Bay L - SPRED		\$2,000	0	2490	STEVENSON
24911550	Procure Equip re-installatn Bay L- IR Camera		\$2,000	0	2490	STEVENSON
24911570	re-install Bay L - IR Camera		\$2,000	1	2490	STEVENSON
24911600	Procure EQ re-installatn Bay L-Glow Discharge		\$2,000	0	2490	STEVENSON
24911770	Install Power/Ground/Light @ Platform W Side NTC		\$2,000	0	2490	STEVENSON
24911890	Remove Misc. EQ - Cat 3 & Cat 4 Bus		\$2,000	0	2490	STEVENSON
1305-3310	Fab & Deliver Conductor Primer		\$2,000	2	1305	CHRZANOWSK
1307-2350	Fabricate Fixture for Stud Installation		\$2,000	1	1307	CHRZANOWSK
1307-3010	Assemble & Test Ceramic Breaks incl PF1C Coil		\$2,000	1	1307	CHRZANOWSK
2440-0004	Ion Dump parts		\$2,000	4	2440	DENAULT
2440-0013	Magnet TC wiring		\$2,000	4	2440	DENAULT
2440-0014	90 inch flange and neutralizer TC wiring		\$2,000	2	2440	DENAULT
2440-0015	Exit spool piece TC wiring (refurb & relocate)		\$2,000	5	2440	DENAULT
2440-0022	Refurbish 90 inch flange and neutralizer		\$2,000	2	2440	DENAULT
2440-0026	Refurbish spool piece		\$2,000	1	2440	DENAULT
8200-0048	Umbrella Lid Remove existing		\$2,000	0	8200	VIOLA
8250-137	Install new flex bus (3 times w/2 re-machinings)		\$2,000	1	8250	TECHS M2
24910200	re-install rack 440 - SPRED		\$1,500	0	2490	STEVENSON
1301-0180	Purchase Copper Fittings		\$1,500	1	1301	CHRZANOWSK
24910590	re-install rack-Transmission Grating Spectrometr		\$1,400	0	2490	STEVENSON
2440-0008	BL Lid parts		\$1,200	4	2440	DENAULT
24910100	re-install rack 431-435 - VV T/C & magnetics		\$1,000	1	2490	STEVENSON
24910250	re-install rack 441-445 - VV ion gages, RGA		\$1,000	1	2490	STEVENSON
24910620	re-install rack - IR Camera at Bay L		\$1,000	0	2490	STEVENSON
24910680	re-install rack-Reconfigure AC & Diagnostic tray		\$1,000	1	2490	STEVENSON
24911830	Remove Misc. EQ. - Gas Delivery System		\$1,000	0	2490	STEVENSON
24911870	Remove Misc. EQ - Convenience Outlets		\$1,000	0	2490	STEVENSON
24911930	Remove Misc. EQ-Glow Disch Splice Box/Disc		\$1,000	0	2490	STEVENSON
1002-0025	Procure 100 718 bolts		\$1,000	10	1002	TITUS
1305-0915	Additional R&D For "Aquapour"		\$1,000	1	1305	CHRZANOWSK
1305-3200	G-10 Filler modifications		\$1,000	2	1305	CHRZANOWSK
2425-0130	Placement - HVE 1 Movement		\$1,000	0	2425	STEVENSON
2425-0140	Placement - HVE 2 Movement		\$1,000	0	2425	STEVENSON
2440-0003	Calorimeter parts		\$1,000	4	2440	DENAULT
2440-0006	90 inch flange and neutralizer parts		\$1,000	4	2440	DENAULT
2440-0018	Refurbish BL Box		\$1,000	2	2440	DENAULT
2440-0024	Refurbish Bending Magnet		\$1,000	1	2440	DENAULT

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2440-0028	Refurbish Ion Dump		\$1,000	10	2440	DENAULT
24910300	re-install rack 447-448 - Fiber Optics		\$500	0	2490	STEVENSON
2440-0005	Magnet parts		\$500	4	2440	DENAULT
24911190	re-install Equipment NB2 Duct-IR Window f/Camera		\$300	0	2490	STEVENSON
24910050	re-install rack 419 - UCLA Reflectometer		\$200	0	2490	STEVENSON
24911646	Remove Bay L pump duct-Pump Duct		\$200	0	2490	STEVENSON
24910020	Remove rack 419 - UCLA Reflectometer		\$100	0	2490	STEVENSON
24910170	Remove rack 440 - SPRED and VIPS		\$100	0	2490	STEVENSON
24910220	Remove rack 441-445 - VV ion gages, RGA		\$100	1	2490	STEVENSON
24910270	Remove rack 447-448 - Fiber Optics		\$100	0	2490	STEVENSON
24910320	Remove rack 449 - Glow Discharge		\$100	0	2490	STEVENSON
24910370	Remove rack 456 --Xray Crystal Spectr		\$100	0	2490	STEVENSON
24910390	Remove rack 488 - Depositn monitor/fast xray/NPA		\$100	0	2490	STEVENSON
24910440	Remove rack 489 - NPA		\$100	0	2490	STEVENSON
24910460	Remove rack - PSI Camera		\$100	0	2490	STEVENSON
24910510	Remove rack - Ultra Fast X-ray Camera		\$100	0	2490	STEVENSON
24910560	Remove rack - Transmission Grating Spectrometer		\$100	0	2490	STEVENSON
24910710	Remove Bay J - Two gas injectors		\$100	0	2490	STEVENSON
24910760	Remove Bay J - Reflectomer		\$100	0	2490	STEVENSON
24910810	Remove Bay J - Bolometer		\$100	0	2490	STEVENSON
24910860	Remove Bay J - RF Prove		\$100	0	2490	STEVENSON
24910910	Remove Bay J - S-Flip		\$100	0	2490	STEVENSON
24910960	Remove Bay J - SSNPA		\$100	0	2490	STEVENSON
24911010	Remove Bay J - Re-entrant Window		\$100	0	2490	STEVENSON
24911040	re-install Equipment Bay J - Re-entrant Window		\$100	0	2490	STEVENSON
24911060	Remove Bay K - High K Scattering		\$100	0	2490	STEVENSON
24911080	Remove Bay K - FireTips		\$100	0	2490	STEVENSON
24911100	Remove Bay K - PSI Camera		\$100	0	2490	STEVENSON
24911120	Remove Bay K - NPA		\$100	0	2490	STEVENSON
24911140	Remove Bay K - Ultra Fast X-ray Camera		\$100	0	2490	STEVENSON
24911160	Remove Bay K - IR Window for Camera		\$100	0	2490	STEVENSON
24911210	Remove Bay K - Transmission Grating Spectrometer		\$100	0	2490	STEVENSON
24911260	Remove Bay Bay L pump duct-VV Ion Gages/Filament		\$100	0	2490	STEVENSON
24911310	Remove Bay Bay L pump duct--X-ray Crystal Spectr		\$100	0	2490	STEVENSON
24911330	Remove Bay L pump duct-SPRED		\$100	0	2490	STEVENSON
24911400	Remove Bay L pump duct-RGA		\$100	0	2490	STEVENSON
24911470	Remove Bay L pump duct - LOWEUS		\$100	0	2490	STEVENSON
24911640	Remove Bay L pump duct-MPTS Beam Dump Window		\$100	0	2490	STEVENSON
3300-105	Bakeout- Prelim Design		\$0	2	3300	RAKI
510-013	51- AC Power -Installation		\$0	1	5001	RAKI
546-013	546 - Coil Protection -Installation		\$0	1	5006	RAKI
6100-0055	Wait for I&C Fabrication Start (per		\$0	0	6100	SICHTA
6100-0056	I&C Peer Review		\$0	0	6100	MASTROV