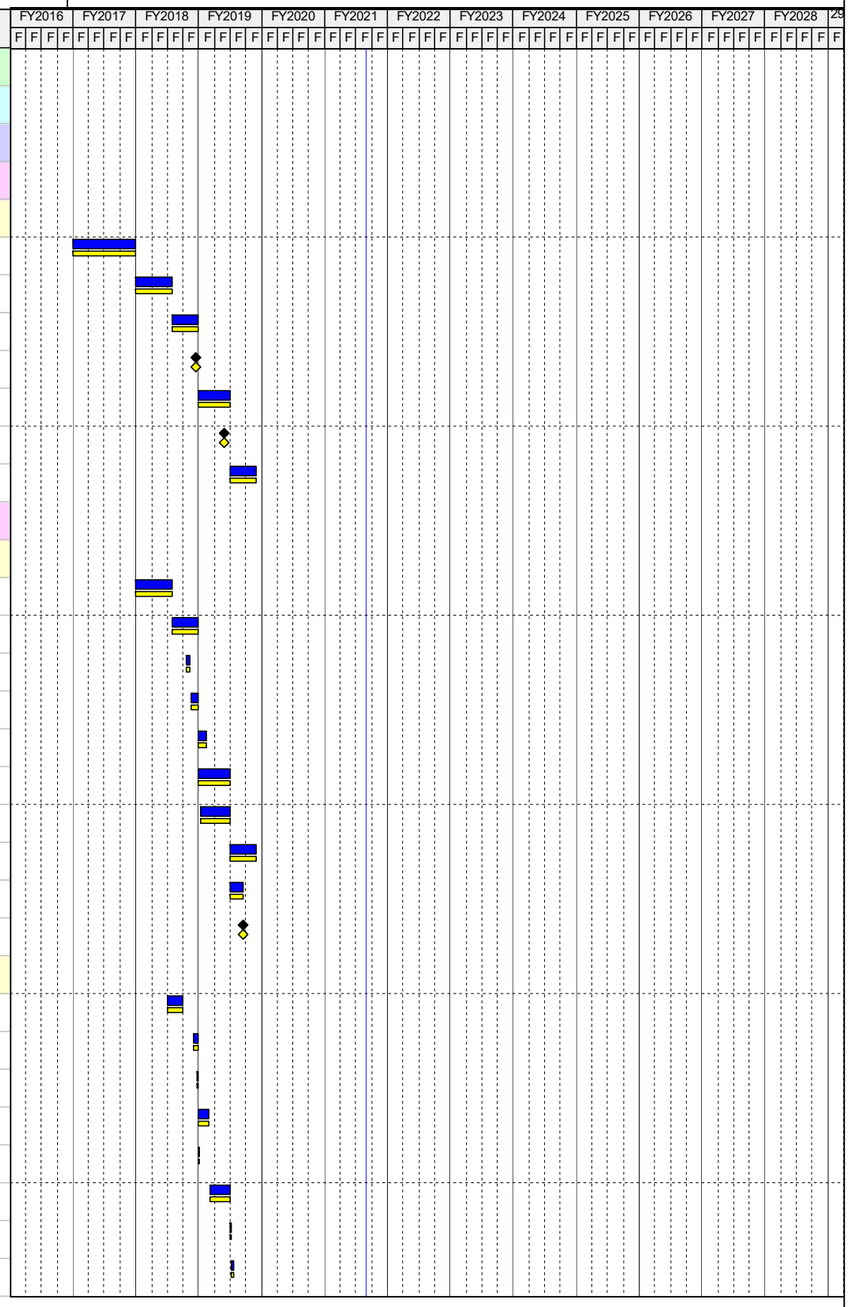
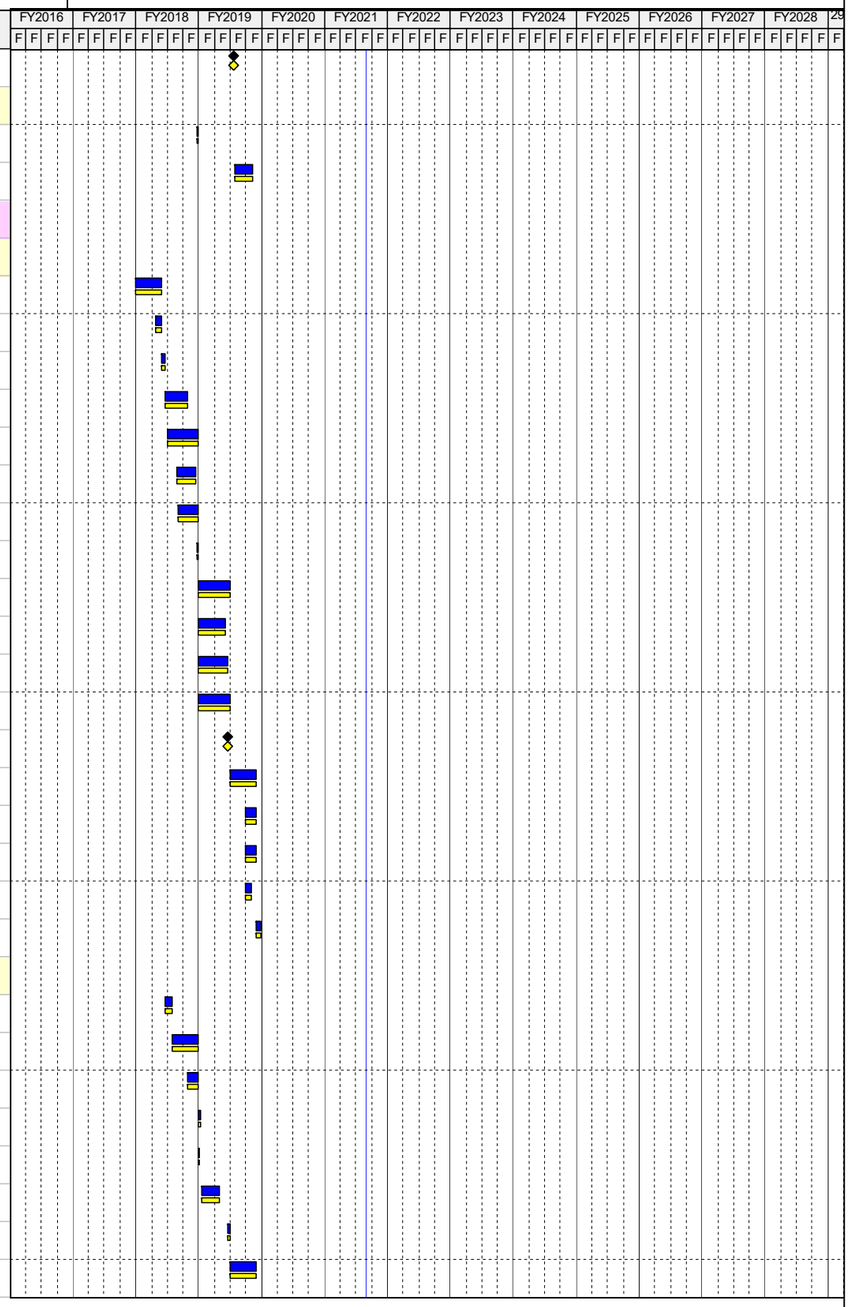
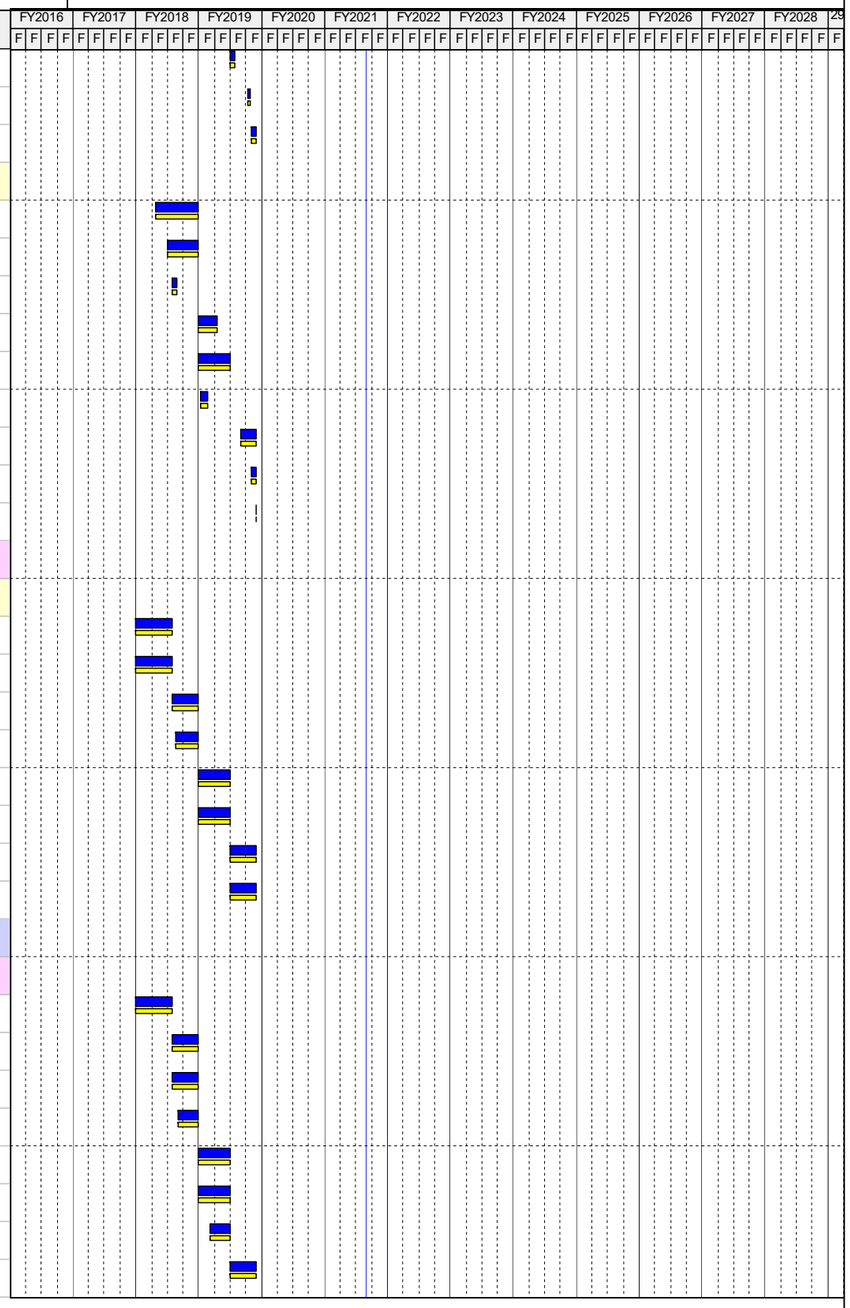
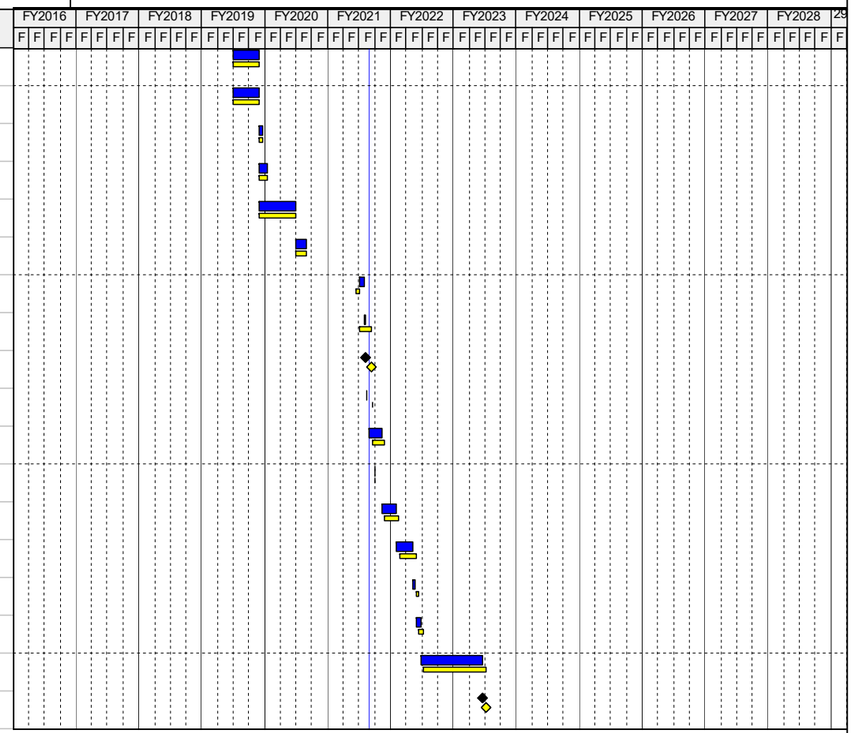
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM
P May FY2021 Status Schedule		03-Oct-16 A	22-Mar-23	03-Oct-16	06-Apr-23		445	$209,092	
P.07 R&D		03-Oct-16 A	22-Mar-23	03-Oct-16	06-Apr-23		445	$209,092	
P.07.01 Gas Injection Development		03-Oct-16 A	30-Sep-19 A	03-Oct-16	30-Sep-19		0	$0	
P.07.01.01 Management and System Integration		03-Oct-16 A	30-Aug-19 A	03-Oct-16	30-Aug-19		0	$0	
P.07.01.01.01 Management and System Integration - Gas Injection Development		03-Oct-16 A	30-Aug-19 A	03-Oct-16	30-Aug-19		0	$0	
P711M1	L3 Management FY 17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	$0	Charlotte Barbier
P711M6a	L3 Management FY 18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	$0	Charlotte Barbier
P711M6	L3 Management FY 18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P711MS02	Preliminary gas wall nozzle geometry and parameters		14-Sep-18 A		14-Sep-18	100%	0	$0	Charlotte Barbier
P711M11	L3 Management FY 19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	$0	Charlotte Barbier
P711MS04	Preliminary geometry and flow conditions for the GLS		28-Feb-19 A		28-Feb-19	100%	0	$0	Charlotte Barbier
P711M11b	L3 Management FY 19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	$0	Charlotte Barbier
P.07.01.02 Gas Injection in Water		02-Oct-17 A	30-Aug-19 A	02-Oct-17	30-Aug-19		0	$0	
P.07.01.02.02 Design - Gas Injection in Water		02-Oct-17 A	30-Aug-19 A	02-Oct-17	30-Aug-19		0	$0	
P712D5	VT: design a modular VJFT with small bubble gas injection and wall gas layer (Oct through Apr FY18)	02-Oct-17 A	30-Apr-18 A	02-Oct-17	30-Apr-18	100%	0	$0	Charlotte Barbier
P712D25	VT: Keep CAD drawings updated to provide accurate geometry to numerical simulations & prepare an rpts	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P712D40	Design a GLS prototype to be tested in water	23-Jul-18 A	13-Aug-18 A	23-Jul-18	13-Aug-18	100%	0	$0	Charlotte Barbier
P712D1	VT: design a modular VJFT with small bubble gas injection and wall gas layer (Aug through Sep)	15-Aug-18 A	28-Sep-18 A	15-Aug-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P712D55	VT: design a modular VJFT with small bubble gas injection and wall gas layer (Oct-Remain)	01-Oct-18 A	15-Nov-18 A	01-Oct-18	15-Nov-18	100%	0	$0	Charlotte Barbier
P712D30	VT: Keep the CAD drawings updated to provide accurate geometry to numerical simulations and prepare annual reports- FY19	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	$0	Charlotte Barbier
P712D45	run experiments in water with the prototype GLS	12-Oct-18 A	31-Mar-19 A	12-Oct-18	31-Mar-19	100%	0	$0	Charlotte Barbier
P712D30b	VT: Keep CAD drawings updated to provide accurate geometry to numerical simulations&prepare annual reports- FY19 Cont	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	$0	Charlotte Barbier
P712D45b	run experiments in water with the prototype GLS Continued	01-Apr-19 A	18-Jun-19 A	01-Apr-19	18-Jun-19	100%	0	$0	Charlotte Barbier
P712MS001	GLS Prototype experiments in water complete		18-Jun-19 A		18-Jun-19	100%	0	$0	Charlotte Barbier
P.07.01.02.03 Procure/Fab - Gas Injection in Water		05-Apr-18 A	22-Apr-19 A	05-Apr-18	22-Apr-19		0	$0	
P712P21	Upgrade PIV system	05-Apr-18 A	28-Jun-18 A	05-Apr-18	28-Jun-18	100%	0	$0	Charlotte Barbier
P712P25	Procure GLS Prototype (Aug through Sep)	31-Aug-18 A	28-Sep-18 A	31-Aug-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P712P6	VT: Procure Acrylic Target+3d printed bubbler (Sep)	19-Sep-18 A	28-Sep-18 A	19-Sep-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P712P35	VT: Procure Acrylic Target+3d printed bubbler (Oct through Remain)	01-Oct-18 A	30-Nov-18 A	01-Oct-18	30-Nov-18	100%	0	$0	Charlotte Barbier
P712P30	Procure GLS Prototype (Oct through Remain)	01-Oct-18 A	05-Oct-18 A	01-Oct-18	05-Oct-18	100%	0	$0	Charlotte Barbier
P712P16	VT: Build Acrylic Target with 3D Printed Bubbler	03-Dec-18 A	31-Mar-19 A	03-Dec-18	31-Mar-19	100%	0	$0	Charlotte Barbier
P712P16b	VT: Build Acrylic Target with 3D Printed Bubbler Continued	01-Apr-19 A	05-Apr-19 A	01-Apr-19	05-Apr-19	100%	0	$0	Charlotte Barbier
P712P11	VT: Receive and Check Acrylic Target+3d printed bubbler	08-Apr-19 A	22-Apr-19 A	08-Apr-19	22-Apr-19	100%	0	$0	Charlotte Barbier



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM
P712MS002	Acrylic Target + 3d printed bubbler received and checked		22-Apr-19 A		22-Apr-19	100%	0	$0	Charlotte Barbier
P.07.01.02.04	Installation - Gas Injection in Water	24-Sep-18 A	12-Aug-19 A	24-Sep-18	12-Aug-19		0	$0	
P712I005	Install GLS prototype in the therma lab	24-Sep-18 A	28-Sep-18 A	24-Sep-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P712I26	VT: Install Acrylic Target with 3D Printed Bubbler	01-May-19 A	12-Aug-19 A	01-May-19	12-Aug-19	100%	0	$0	Charlotte Barbier
P.07.01.03	Gas Injection in Mercury	02-Oct-17 A	30-Sep-19 A	02-Oct-17	30-Sep-19		0	$0	
P.07.01.03.02	Design - Gas Injection in Mercury	02-Oct-17 A	30-Sep-19 A	02-Oct-17	30-Sep-19		0	$0	
P713D120	TTF: design a JFT with gas injection and gas wall layer (Oct through Feb)	02-Oct-17 A	28-Feb-18 A	02-Oct-17	28-Feb-18	100%	0	$0	Charlotte Barbier
P713D125	TTF: design the Gas Wall Layer Experiments (G-WaLE) (Jan through Feb)	25-Jan-18 A	01-Mar-18 A	25-Jan-18	01-Mar-18	100%	0	$0	Charlotte Barbier
P713D110	TTF: design the Gas Wall Layer Experiments (G-WaLE) (Mar)	01-Mar-18 A	21-Mar-18 A	01-Mar-18	21-Mar-18	100%	0	$0	Charlotte Barbier
P713D115	TTF: Modify piping of mercury loop to make it more prototypical to SNS loop	22-Mar-18 A	31-Jul-18 A	22-Mar-18	31-Jul-18	100%	0	$0	Charlotte Barbier
P713D21	TTF: design a gas-liquid separator (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P713D130	TTF: Running the Gas Wall Layer Experiments (G-WaLE)	30-May-18 A	14-Sep-18 A	30-May-18	14-Sep-18	100%	0	$0	Charlotte Barbier
P713D1	TTF: design a JFT with gas injection and gas wall layer (Jun through Sep)	01-Jun-18 A	28-Sep-18 A	01-Jun-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P713D135	Report: write a report on the TTF experiments (compressor, flow sensor, gas injection, GLS) (Sep)	24-Sep-18 A	28-Sep-18 A	24-Sep-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P713D140	Contract with UMich (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	$0	Charlotte Barbier
P713D150	TTF: design a JFT with gas injection and gas wall layer (Oct through Remain)	01-Oct-18 A	05-Mar-19 A	01-Oct-18	05-Mar-19	100%	0	$0	Charlotte Barbier
P713D145	TTF: design a gas-liquid separator (Oct through Remain)	01-Oct-18 A	18-Mar-19 A	01-Oct-18	18-Mar-19	100%	0	$0	Charlotte Barbier
P713D155	Report: write a report on the TTF experiments (compressor, flow sensor, gas injection, GLS) (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	$0	Charlotte Barbier
P713MS001	Gas-liquid separator design complete		18-Mar-19 A		18-Mar-19	100%	0	$0	Charlotte Barbier
P713D140b	Contract with UMich (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	$0	Charlotte Barbier
P713D155b1	Report: write a report on the TTF experiments (compressor, flow sensor, gas injection, GLS) for CD2	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	$0	Charlotte Barbier
P713D160	Design a new cone to decrease mercury volume left in the GLS after draining the loop	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	$0	Charlotte Barbier
P713D165	Make a drawing of the porous test stand	01-Jul-19 A	31-Jul-19 A	01-Jul-19	31-Jul-19	100%	0	$0	Charlotte Barbier
P713D140c	Contract with UMich (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	$0	Charlotte Barbier
P.07.01.03.03	Procure/Fab - Gas Injection in Mercury	22-Mar-18 A	30-Aug-19 A	22-Mar-18	30-Aug-19		0	$0	
P713P130	TTF: Procure and build the Gas Wall Layer Experiments (G-WaLE)	22-Mar-18 A	30-Apr-18 A	22-Mar-18	30-Apr-18	100%	0	$0	Charlotte Barbier
P713P66	TTF: Find and award contract for two potential new flow sensors for SNS loop (coriolis or/and deltaM) (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P713P135	TTF: Procure piping components to update TTF mercury loop (Aug through Sep)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P713P140	TTF: Find and award contract for two potential new flow sensors for SNS loop (coriolis or/and deltaM) (Oct through Rem)	01-Oct-18 A	12-Oct-18 A	01-Oct-18	12-Oct-18	100%	0	$0	Charlotte Barbier
P713P145	TTF: Procure piping components to update TTF mercury loop (Oct through Remain)	01-Oct-18 A	08-Oct-18 A	01-Oct-18	08-Oct-18	100%	0	$0	Charlotte Barbier
P713P71	Receive two potential new flow sensors for SNS loop (coriolis or/and deltaM)	22-Oct-18 A	30-Jan-19 A	22-Oct-18	30-Jan-19	100%	0	$0	Charlotte Barbier
P713P26	TTF: Procure and build a gas-liquid separator	18-Mar-19 A	31-Mar-19 A	18-Mar-19	31-Mar-19	100%	0	$0	Charlotte Barbier
P713P26b1	TTF: Procure and build a gas-liquid separator Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	$0	Charlotte Barbier



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM
P713P6	Solicit bids and award contract for fabrication of JFT with gas injection and gas wall layer	01-Apr-19 A	30-Apr-19 A	01-Apr-19	30-Apr-19	100%	0	$0	Charlotte Barbier
P713P155	Fabrication of a test stand to test porous filter	17-Jul-19 A	31-Jul-19 A	17-Jul-19	31-Jul-19	100%	0	$0	Charlotte Barbier
P713P11b1	TTF: Build and Receive a JFT with gas injection and gas wall layer Continued	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	$0	Charlotte Barbier
P.07.01.03.04 Installation - Gas Injection in Mercury		23-Jan-18 A	30-Aug-19 A	23-Jan-18	30-Aug-19		0	$0	
P713I61	TTF: test gas compressor (Jan through Sep)	23-Jan-18 A	28-Sep-18 A	23-Jan-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P713I41	TTF: test gas injection strategy on current TTF Target (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P713I120	TTF: install the Gas Wall Layer Experiments (G-WaLE)	01-May-18 A	29-May-18 A	01-May-18	29-May-18	100%	0	$0	Charlotte Barbier
P713I130	TTF: test gas compressor (Oct through Remain)	01-Oct-18 A	17-Jan-19 A	01-Oct-18	17-Jan-19	100%	0	$0	Charlotte Barbier
P713I135	TTF: test gas injection strategy on current TTF Target (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	$0	Charlotte Barbier
P713I125	TTF: install new piping for mercury loop	09-Oct-18 A	19-Nov-18 A	09-Oct-18	19-Nov-18	100%	0	$0	Charlotte Barbier
P713I135b	TTF: test gas injection strategy on current TTF Target Continued	03-Jun-19 A	30-Aug-19 A	03-Jun-19	30-Aug-19	100%	0	$0	Charlotte Barbier
P713I140	TTF: installation of the porous filter test stand	01-Aug-19 A	28-Aug-19 A	01-Aug-19	28-Aug-19	100%	0	$0	Charlotte Barbier
P713I145	TTF: run experiments on the porous stand	29-Aug-19 A	30-Aug-19 A	29-Aug-19	30-Aug-19	100%	0	$0	Charlotte Barbier
P.07.01.04 Numerical Simulations		02-Oct-17 A	30-Aug-19 A	02-Oct-17	30-Aug-19		0	$0	
P.07.01.04.02 Design - Numerical Simulations		02-Oct-17 A	30-Aug-19 A	02-Oct-17	30-Aug-19		0	$0	
P714D5	Provide relevant geometries to the analyst (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	$0	Charlotte Barbier
P714D10	Num.: perform & rpt CFD and structural simulations to spt design of GI & GLS & write semi-annual rpts FY18 (Oct - Apr)	02-Oct-17 A	30-Apr-18 A	02-Oct-17	30-Apr-18	100%	0	$0	Charlotte Barbier
P714D1	Provide relevant geometries to the analyst (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P714D15	Num.: perform & rpt CFD and structural simulations to spt design of GI & GLS & write semi-annual rpts FY18 (May - Sep)	24-May-18 A	28-Sep-18 A	24-May-18	28-Sep-18	100%	0	$0	Charlotte Barbier
P714D20	Num.: perform and report CFD and structural simulations to support design of GI and GLS and write semi-annual rpts FY19	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	$0	Charlotte Barbier
P714D30	Provide relevant geometries to the analyst (Oct through Remain) (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	$0	Charlotte Barbier
P714D30b1	Provide relevant geometries to the analyst (Oct through Remain) (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	$0	Charlotte Barbier
P714D20b1	Num.: perform&report CFD&structural simulations to support design of GI and GLS&write semi-annual rpts FY19 Cont	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	$0	Charlotte Barbier
P.07.02 Foil Development		02-Oct-17 A	22-Mar-23	02-Oct-17	06-Apr-23		445	$209,092	
P.07.02.02 Design - Foil Development - (NPPU7220)		02-Oct-17 A	22-Mar-23	02-Oct-17	06-Apr-23		445	$209,092	
P72M16	Measure temperature of one spot on the foil now in Ring using two-wavelength telescope system (Oct17 to Apr18)	02-Oct-17 A	30-Apr-18 A	02-Oct-17	30-Apr-18	100%	0	$0	Nick Evans
P72M21	Prepare design/equipment specs for 2D two-wavelength pyrometer - Part 1	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	$0	Nick Evans
P72M16G	Measure temperature of one spot on the foil now in Ring using two-wavelength telescope system (May18 to Feb19) - Part 1	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	$0	Nick Evans
P72M1	Test stripper foils on foil test stand at PPU beam intensity FY18	01-Jun-18 A	28-Sep-18 A	01-Jun-18	28-Sep-18	100%	0	$0	Nick Evans
P72M16GB	Measure temperature of one spot on the foil now in Ring using two-wavelength telescope system (May18 to Feb19) - Part B	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	$0	Nick Evans
P722D100	Test stripper foils on foil test stand at PPU beam intensity FY19 - Part A	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	$0	Nick Evans
P722D21B	Prepare design/equipment specs for 2D two-wavelength pyrometer - Part B	03-Dec-18 A	31-Mar-19 A	03-Dec-18	31-Mar-19	100%	0	$0	Nick Evans
P72M16GC	Measure temperature of one spot on the foil now in Ring using two-wavelength telescope system - Part C	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	$0	Nick Evans



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM
P722D100B	Test stripper foils on foil test stand at PPU beam intensity FY19 - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	$0	Nick Evans
P722D21C	Prepare design/equipment specs for 2D two-wavelength pyrometer - Part C	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	$0	Nick Evans
P72M16GD	Measure temperature of one spot on the foil now in Ring using two-wavelength telescope system - Part D	03-Sep-19 A	20-Sep-19 A	03-Sep-19	20-Sep-19	100%	0	$0	Nick Evans
P722D100C	Test stripper foils on foil test stand at PPU beam intensity FY19 - Part C	03-Sep-19 A	15-Oct-19 A	03-Sep-19	15-Oct-19	100%	0	$0	Nick Evans
P722D21D	Prepare Design/Equipment Specs for Two Wavelength Pyrometer - Part D	03-Sep-19 A	31-Mar-20 A	03-Sep-19	31-Mar-20	100%	0	$0	Nick Evans
P722D21E	Prepare Equipment Specs for Two Wavelength Pyrometer - Part E	01-Apr-20 A	29-May-20 A	01-Apr-20	29-May-20	100%	0	$0	Nick Evans
P722D110	Procure Two Wavelength Pyrometer	08-Apr-21 A	30-Apr-21 A	15-Mar-21	05-Apr-21	100%	0	$477	Nick Evans
P722D1541	Fabricate Two Wavelength Pyrometer	03-May-21 A	12-May-21 A	06-Apr-21	15-Jun-21	100%	0	$0	Nick Evans
P722DMS1	Fabrication of Two Wavelength Pyrometer Complete		12-May-21 A		15-Jun-21	100%	0	$0	Nick Evans
P722D1551	Receive Two Wavelength Pyrometer	13-May-21 A	13-May-21 A	16-Jun-21	16-Jun-21	100%	0	$48,184	Nick Evans
P722D150	Set Up 2D Two Wavelength Pyrometer in the Lab and Calibrate Equipment for Testing	02-Jun-21*	11-Aug-21	17-Jun-21	26-Aug-21	0%	50	$29,583	Nick Evans
P722D1552adj	Procure/Receive Calibration Equipment	01-Jul-21*	01-Jul-21	01-Jul-21	01-Jul-21	0%	1	$10,390	Nick Evans
P722D140-1	Test Stripper Foils on Foil Test Stand at PPU Beam Intensity - Phase 1	12-Aug-21	04-Nov-21	27-Aug-21	19-Nov-21	0%	60	$19,661	Nick Evans
P722D140-2	Test Stripper Foils on Foil Test Stand at PPU Beam Intensity - Phase 2	05-Nov-21	10-Feb-22	22-Nov-21	25-Feb-22	0%	60	$20,063	Nick Evans
P722D120	Install 2D Two Wavelength Pyrometer in the Ring - Outage not required	11-Feb-22	24-Feb-22	28-Feb-22	11-Mar-22	0%	10	$7,590	Nick Evans
P722D130	Complete Set-up of the 2D Two Wavelength Pyrometer	25-Feb-22	24-Mar-22	14-Mar-22	08-Apr-22	0%	20	$16,573	Nick Evans
P722D1531	Test Foils at PPU Intensity in the Ring (LOE)	25-Mar-22	22-Mar-23	11-Apr-22	06-Apr-23	0%	245	$56,571	Nick Evans
P722DMS01	Foil Development Documentation Complete		22-Mar-23		06-Apr-23	0%	0	$0	Nick Evans