

Activity ID	EVM Rep Code	Planning Package	Activity Name	Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	BL Project Labor Units	Physical % Complete	Earned Value Labor Units	Earned Value Cost	BL Project Total Cost	Schedule Variance	Variance to last mo Finish Date	FY2019 FY2020 FY2021																																							
																	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F																						
ESR2 FY19 Preliminary design May Progress																																																								
1.M Milestones																																																								
Level 1 Milestones																																																								
Level 2 Milestones																																																								
2-1M			Conduct PDR Review	0		19-Jun-19	19-Jun-19	19-Jun-19	387	0.00	0%	0.00	\$0.00	\$0.00	\$0.00	0																																								
2-2M			Conduct Procurement Review	0		03-Jul-19		03-Jul-19	377	0.00	0%	0.00	\$0.00	\$0.00	\$0.00	0																																								
2-3M			Conduct FDR Review	0		19-Jan-21		19-Jan-21*	0	0.00	0%	0.00	\$0.00	\$0.00	\$0.00	0																																								
2-4M			2K coldbox installation in CHL-1 (reference task)	153	18-May-20	23-Dec-20	18-May-20*	23-Dec-20	10	0.00	0%	0.00	\$0.00	\$0.00	\$0.00	0																																								
1.1 Project Management																																																								
1.1.1 Initial Project Management																																																								
111000			Project Management FY19	222	06-Nov-18	30-Sep-19	06-Nov-18 A	30-Sep-19	238	480.00	62.16%	298.37	\$22,507.89	\$36,209.60	(\$0.78)	0																																								
111010			Project Management FY20	78	01-Oct-19	31-Jan-20	01-Oct-19	31-Jan-20	238	144.00	0%	0.00	\$0.00	\$10,862.88	\$0.00	0																																								
1.1.2 Initial Facility Preparations																																																								
112000			Procure trolley crane (Pending funding)	15	07-Jan-20	28-Jan-20	07-Jan-20*	28-Jan-20	241	0.00	0%	0.00	\$0.00	\$10,000.00	\$0.00	0																																								
112010			Design a material handling system For ESR2	94	18-Feb-19	25-Jun-19	18-Feb-19 A	28-Jun-19	380	0.00	30%	0.00	\$21,000.00	\$70,000.00	(\$39,846.15)	-3																																								
1.2 Preliminary Design																																																								
1.2.1 Preliminary System Engineering																																																								
121000			Complete Process Studies	65	06-Nov-18	05-Feb-19	06-Nov-18 A	18-Feb-19 A		316.00	100%	316.00	\$24,630.88	\$24,630.88	\$0.00	-9																																								
121010			Create & refine P&I Diagrams	113	20-Feb-19	11-Jun-19	02-Jan-19 A	11-Jun-19	393	528.00	95%	501.60	\$35,638.68	\$37,514.40	\$1,448.34	0																																								
121020			Prepare Equipment Specifications	107	06-Nov-18	16-Apr-19	02-Jan-19 A	03-Jun-19	399	528.00	85%	448.80	\$31,887.24	\$37,514.40	(\$5,627.16)	-33																																								
121030			Complete Preliminary Equipment Layout	122	03-Dec-18	17-May-19	03-Dec-18 A	03-Jun-19	399	816.00	90%	734.40	\$49,514.98	\$55,016.64	(\$5,501.66)	-10																																								
121040			Complete Initial Equipment Assessment	114	24-Apr-19	12-Jun-19	02-Jan-19 A	12-Jun-19	392	528.00	90%	475.20	\$33,101.64	\$36,779.60	\$4,728.81	0																																								
121050			Complete Preliminary Electrical Schematics	139	06-Nov-18	08-May-19	06-Nov-18 A	03-Jun-19	399	528.00	85%	448.80	\$31,593.28	\$37,168.56	(\$5,575.28)	-17																																								
121060			Preliminary FMEA Analysis	28	24-Apr-19	08-May-19	24-Apr-19 A	03-Jun-19	399	240.00	82%	196.80	\$15,339.58	\$18,706.80	(\$3,367.22)	-17																																								
121070			Prepare for PDR review	78	03-Jun-19	12-Jun-19	01-Mar-19 A	19-Jun-19	377	320.00	87%	278.40	\$19,209.60	\$22,080.00	\$19,209.60	-5																																								
121080			Conduct PDR Review	1	19-Jun-19	19-Jun-19	19-Jun-19	19-Jun-19	377	0.00	0%	0.00	\$0.00	\$0.00	\$0.00	0																																								
121090			Prepare for Procurement review	9	20-Jun-19	02-Jul-19	20-Jun-19	02-Jul-19	377	320.00	0%	0.00	\$0.00	\$21,632.80	\$0.00	0																																								
121100			Conduct Procurement Review	1	03-Jul-19	03-Jul-19	03-Jul-19	03-Jul-19	377	0.00	0%	0.00	\$0.00	\$0.00	\$0.00	0																																								
1.2.2 System Design & Coldbox Investigation																																																								
1.2.2.1 Initial Building Design																																																								
1221000			Define and locate mezzanine cranes	89	04-Feb-19	08-Feb-19	04-Feb-19 A	07-Jun-19	380	38.00	85%	32.30	\$2,165.97	\$2,548.20	(\$382.23)	-84																																								
1221005			Specify Trolley crane	3	13-Mar-19	19-Mar-19	11-Feb-19 A	13-Feb-19 A	30.00	100%	30.00	\$2,131.50	\$2,131.50	\$0.00	24																																									
1221010			Design fall protection equipment	3	13-Mar-19	19-Mar-19	11-Feb-19 A	13-Feb-19 A	34.00	100%	34.00	\$2,292.36	\$2,292.36	\$0.00	24																																									
1221020			Define and locate the Control Room	88	24-Apr-19	25-Jun-19	04-Feb-19 A	06-Jun-19	396	528.00	100%	528.00	\$36,779.60	\$36,779.60	\$14,210.30	13																																								
1.2.2.2 Coldbox investigation & Design																																																								
1222000			Assess vacuum jacket & design Blank Offs & fittings	72	06-Nov-18	19-Nov-18	06-Nov-18 A	27-Feb-19 A		76.00	100%	76.00	\$5,096.40	\$5,096.40	\$0.00	-62																																								
1222010			Pumpdown vacuum jacket, pods & pressurize internal pipir	14	03-Jun-19	20-Jun-19	03-Jun-19	20-Jun-19	380	563.00	0%	0.00	\$0.00	\$32,676.94	\$0.00	0																																								
1222020			Drop coldbox & pods, shells, cover pit & assess condition	6	21-Jun-19	28-Jun-19	21-Jun-19	28-Jun-19	380	770.00	0%	0.00	\$0.00	\$43,637.30	\$0.00	0																																								
1222030			Design internal modifications	39	10-Sep-19	11-Feb-20	03-Jun-19 A	26-Jul-19	361	688.00	40%	275.20	\$18,588.29	\$46,470.72	\$18,588.29	130																																								
1.2.2.3 Cold Piping System Design																																																								
1.2.2.4 Main Compressor Design																																																								
1.2.2.5 Controls System Design																																																								
1.2.2.6 Utility System Design																																																								
1.3 GPP Program rollup																																																								
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1.4.1 Project Management																																																								
1.4.1.1 Project Management																																																								

— Project Baseline Bar
 — Remaining Work
 — Critical Remaining Work
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																	F	F	F	F	F	F	F	F	F
1.4.2 System Design & Coldbox Investigation				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.2.1 System Engineering				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.2.2 System Design				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.2.2.1 Building design				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.2.2.2 Coldbox Design				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.2.2.3 Cold Piping Design				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.2.2.4 Main Compressor Design				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.2.2.5 Controls Design				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.2.2.6 Utility Design				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.3 Equipment Procurement and Fabrication				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.3.1 ESR Equipment Procurement				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.3.2 4K Coldbox Refurbishment				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.3.3 ESR Equipment Fabrication				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.3.3.1 Cold Piping Fabrication				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.3.3.2 Compressor System Fabrication				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.3.3.3 Controls System Fabrication				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.3.3.4 Utility System Fabrication				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4 Facility Prep, System Installation and Test				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.1 Facility Modifications				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.1.1 Control Room Construction				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.1.2 Building Modifications				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.2 Subsystem Installation				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.2.1 Install Coldbox Systems				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.2.2 Install Cold Piping Systems				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.2.3 Install Main Compressor Systems				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.2.4 Install Control Systems				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.2.5 Install Utility Systems				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.2.6 System Integration				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.3 System Test & Commissioning				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.3.1 Subsystem Testing				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										
1.4.4.3.2 System Commissioning				0					0	0.00		0.00	\$0.00	\$0.00	\$0.00										

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