

INSPECTION & TEST PLAN

PACKAGE Shed #15953			Date:	Revision #1	LEGEND						
			LSD: Wapiti Satellite Pad 06-07-67-8 W6		S Subcontractor			R Review Documents			
Client: HUSKY					W Witness			SU Surveillance			
Project Title: M022972014 item 00010			PO No.: 8400882368		H Hold Point			NA Not Applicable			
TASK No.	Task Description	QC Activity	Controlling Procedure or Instruction	Acceptance Criteria	Verifying Document	INSPECTION REQUIREMENTS					
						Vendor QC Inspector			Client Inspector		
						Legend	Sign	Date	Legend	Sign	Date
1	Review and Acceptance of ITP	Submission to HUSKY	Planned Quality Activities Meet HUSKY Requirements to Quality Assurance	HUSKY Specifications	Accepted ITP	R		Sept 5, 2014	H		DEC 05/14
2	Purchase of Major Equipment	Vendor	Equipment Ordered in Accordance with Design Criteria & HUSKY Specifications	HUSKY Specifications, Design Criteria, Approved Dwgs	Purchase Order	R		Sept 5, 2014	R		
3	Drawing Distribution and Review	Review, Verify Latest Revision of IFC Drawings for Assembly. And P & ID Verification	Vendor Quality Control Manual	HUSKY Specifications, IFC Drawings	This ITP	R		Sept 8, 2014	SU		DEC 05/14
4	Mounting of Vessel on Skid	Inspection Alignment, Orientation	Plan Drawing	Approved Drawing	This ITP	R		Nov 25, 2014	SU		DEC 02/14
5	Mounting of Spools on Skid	Verification of Dimensions, Workmanship, Materials, Check Against Mechanical Flow Sheet	QC Manual	ASME B31.3, Approved Drawings	This ITP, Inspection Completion	R		Nov 25/Dec 2, 2014	SU		DEC 02/14 VESSEL, HEADS: PIPING INSTALLED
6	Fit-Up Inspection	All Spools Cleaned Prior to Fit-Up	QC Manual	ASME B31.3	This ITP	SU/R		Nov 25/Dec 2, 2014	W		PIPING: SPOOLS INSTALLED AT TIME OF VISIT DEC 02/14
7	Fabrication and Installation of Welded piping	Inspect Verify, Monitor Welding, Welders, Materials, and Consumables	QC Manual WPS/PRQ's Applicable	Husky Specs. ASME B31.3, Approved Drawings	This ITP	SU/R		Nov 25/Dec 2, 2014	SU		DEC 02/14
8	Socket Weld MPI	100 % MPI of Fillet Welds (Sour Service), 10 % MPI of Fillet Welds (Sweet Service)	HUSKY Specs	HUSKY Specs	This ITP	R		N/A	R		
9	Hydro-Test	Refer to Pipe Spool Fabrication ITP and Vessel ITP / Travel Sheet	Penfabco Hydrotest Procedure; RJV Piping Line Hydrotest Procedure. List	ASME B31.3; ASME Sec. VII Div. 1 Husky Specs.	Pipe Spool Fabrication ITP; Vessel ITP/ Travel Sheet	W		Dec 2, 2014	W		DEC 02/14
10	Prepare for Sandblast	Visual Inspection Prior Sandblast	Sandblast Procedure	HUSKY Specs. Vendor Standard Approved Drawings	Vendor Sandblast inspection Summary	SU		Dec 2, 2014	SU		DEC 02/14
11	Painting	Visual Inspection After Paint	Manufactures Paint Specifications	Vendor Specs	Vendor Painting Inspection Report	SU		Dec 2, 2014	SU		DEC 05/14
12	Installation of Instruments	Verify with BOM, P & ID, Install as Per Drawing and Manufactures Specs.	Vendor P & ID Dwgs, HUSKY Specs	Approved P & ID Dwgs	This ITP	SU		Dec 3/5, 2014	SU		DEC 05/14
13	Process Tubing Installation	Verify with BOM, P & ID, Install as Per Drawing and Manufactures Specs.	Vendor Approved Dwg Check Tubing Material & Wall Thickness	Approved P & ID	This ITP	SU		Dec 3/5, 2014	SU		DEC 05/14

14	Instrumentation Air/Gas/Venting Tubing Installation	Verify with BOM, P & ID, Install as Per Drawing and Manufactures Specs.	HUSKY Approved Drawing	Approved P & ID	This ITP	SU	Ⓚ	Dec 3/5,2014	SU	Ⓚ	DEC 05/14
15	Wiring Installation	Verify with BOM, P & ID, Install as Per drawing and Manufactures Specs.	HUSKY Approved Drawing	HUSKY Specs, Approved Electrical Drawings	This ITP	SU	Ⓚ	Dec 3/5,2014	SU	Ⓚ	TO BE INSTALLED BY TECHMATION
16	Leak Test	Pressure test	RJV Pressure Test Procedure; P&ID	ASME B31.3 Husky Specs	Pipe Spool Fabrication ITP/ This ITP	SU	Ⓚ	Dec 5,2014	W	Ⓚ	DEC 05/14 INSTRUMENT AIR TEST
17	Functional Test	Verification of Package functionality, including instruments amd electric equipment/ components	Rjv Functional Test Procedure	HUSKY Specs, Approved P&IDs ; BOM	This ITP	W	Ⓚ	Dec 5,2014	H	Ⓚ	VERIFIED FUNCTIONALITY OF VALVES, IESD'S; DUMP VALVE
18	Package Completion Inspection	Verify Installation of piping component, instruments & Tubing. Check Completed Deficiency List and prepare Ship Loose list. Verify Piping/Tubing Support	This ITP	All Approved Dwgs, Equipment Manufactures Dwgs, HUSKY Specs	This ITP, Vendor Deficiency List	SU	Ⓚ	Dec 8/2014	SU	Ⓚ	DEC 05/14
19	Equipment Nameplates/ Instrumentation Tags Verification	Verify for clarity and correctness	Approved P&IDs; GA; BOM	HUSKY Specs	Approved P&IDs; GA; BOM	R			R	Ⓚ	DEC 05/14
20	Building Inspection	Verify All	Assemble to Dwgs to Ensure ease of Operation for Doors, Windows. & Louvers, Door Locks, Checked for Operation. Door Key Attached to Door. List of Ship Loose items, Door Canopies, Louver Hoods Removed For Shipping.	HUSKY Specs, Approved Drawings, This ITP	Vendor Deficiency List, This ITP	SU	Ⓚ	Dec 8/2014	H	Ⓚ	DEC 05/14
21	Additional Equipment Inspection	Metanol Tank, Methanol Tank Containment	This ITP	N/A	Marked Up GA Dwg, This ITP	SU/R	Ⓚ	Dec 9/2014	H		
22	Dimensional As-Built For Skid Edge Connections	Verify Skid Edge Connections Based on Latest General Arrangement Dwgs.	This ITP	N/A	Marked Up GA Dwg, This ITP	SU/R	Ⓚ	Dec 9/2014	H		
23	Quality Management System	Completed all ITPs & Supporting Documentation Complete, HUSKY Document Package Prepared.	HUSKY Instructions For Shipment (Package Completion) Release.	HUSKY Specs	This ITP	R	Ⓚ	Dec 9/2014	R		
24	Final Inspection, Verify all Loose Components are in pkg, Ready to Ship, All Open Nozzles Sealed (Ship PSVs Loose) Final Data Book Review	HUSKY Shipping Specs Met	HUSKY Specifications For Shipment	HUSKY Specs VDDR	This ITP Data Book Final	R	Ⓚ	Dec 9/2014	H		

Shipped Dec 9/2014