HYDROSTATIC TEST PACKAGE

- 1. HYDROSTATIC TEST REPORT.
- 2 . P&ID, ISO'S, SKETCHES OR DRAWINGS. (BOUNDARIES, HIGH POINT VENTS AND DRAINS).
- 3. HYDROSTATIC TEST CREW ACKNOWLEDGEMENT FORM
- 4 . PIPING PRE-TEST
- 5 . PIPING POST-TEST
- 6 . HYDROSTATIC TEST LEGENDS
- 7 . HYDROSTATIC TEST FLOW CHART
- 8 . PRESSURE GAUGE CALIBRATION CERTIFICATION.



Performance Mechanical, Inc. PNEUMATIC TEST REPORT

B NAME/NUMBER:				DAT	E:	
STEM / TEST NAME OR NUMBE	R:					
ST PRESSURE:	PSI					
ST MEDIUM:			HOLD TIM	IE:		
ST VESSEL/LINE IN COMPLIANC	E WITH:					
ELD ENGINEERING TEST PACK	GE REVIEW FOR FIE	LD USE	:			_
RESSURE TEST PROCEDURES			Foreman	PMI QCI	Client Rep	
Verify test boundary		-		_		
Verify PSV setting		_				
Verify pipe restrained		_				
NDE / Visual Exam Complete.		_		_		
PWHT Complete.		-		_		
Fill vessel/line and bleed air fro	m high point vents	-		_		
Notify Safety and secure the are	a prior to pressurizir	ng -		_	<u> </u>	
Gauge #1 Time Start: Pressure Gauge Range: Serial No.:	Time Finish:		Pressure Gauç Serial No.:			
Release pressure, test complet	e:					
Test Results:	Satisfactory		Unsatisfactor	y		
formance Mechanical, Inc.	Date	Clien	<u> </u>		Date	
DMMENTS:						
	STEM / TEST NAME OR NUMBER ST PRESSURE: ST MEDIUM: ST VESSEL/LINE IN COMPLIANCE ELD ENGINEERING TEST PACKAR RESSURE TEST PROCEDURES Verify test boundary Verify PSV setting Verify pipe restrained NDE / Visual Exam Complete. PWHT Complete. Fill vessel/line and bleed air from Notify Safety and secure the area Actual vessel/line test gauge processed from Secure Cauge #1 Time Start: Pressure Gauge Range: Serial No.: Calibration Date:	STEM / TEST NAME OR NUMBER: ST PRESSURE: PSI ST MEDIUM: ST VESSEL/LINE IN COMPLIANCE WITH: ELD ENGINEERING TEST PACKAGE REVIEW FOR FIE RESSURE TEST PROCEDURES Verify test boundary Verify PSV setting Verify pipe restrained NDE / Visual Exam Complete. PWHT Complete. Fill vessel/line and bleed air from high point vents Notify Safety and secure the area prior to pressurizing Actual vessel/line test gauge pressure Gauge #1 Time Start: Time Finish: Pressure Gauge Range: Serial No.: Calibration Date: Release pressure, test complete: Test Results: Satisfactory	STEM / TEST NAME OR NUMBER: ST PRESSURE: PSI ST MEDIUM: ST VESSEL/LINE IN COMPLIANCE WITH: ELD ENGINEERING TEST PACKAGE REVIEW FOR FIELD USE RESSURE TEST PROCEDURES Verify test boundary Verify PSV setting Verify pipe restrained NDE / Visual Exam Complete. PWHT Complete. Fill vessel/line and bleed air from high point vents Notify Safety and secure the area prior to pressurizing Actual vessel/line test gauge pressure PSI Gauge #1 Time Start: Time Finish: Pressure Gauge Range: Serial No.: Calibration Date: Release pressure, test complete: Test Results: Satisfactory Client	STEM / TEST NAME OR NUMBER: ST PRESSURE: PSI ST MEDIUM: HOLD TIMEST VESSEL/LINE IN COMPLIANCE WITH: ELD ENGINEERING TEST PACKAGE REVIEW FOR FIELD USE: RESSURE TEST PROCEDURES Foreman Verify test boundary Verify PSV setting Verify pipe restrained NDE / Visual Exam Complete. PWHT Complete. Fill vessel/line and bleed air from high point vents Notify Safety and secure the area prior to pressurizing Actual vessel/line test gauge pressure PSI Gauge #1 Gauge #2 Time Start: Time Finish: Pressure Gauge Range: Serial No.: Serial No.: Calibration Date: Calibration Date: Satisfactory Unsatisfactory rformance Mechanical, Inc. Date Client	STEM / TEST NAME OR NUMBER: ST PRESSURE: PSI ST MEDIUM: HOLD TIME: ST VESSEL/LINE IN COMPLIANCE WITH: ELD ENGINEERING TEST PACKAGE REVIEW FOR FIELD USE: RESSURE TEST PROCEDURES Foreman PMI QCI Verify test boundary Verify PSV setting Verify pipe restrained NDE / Visual Exam Complete. PWHT Complete. Fill vessel/line and bleed air from high point vents Notify Safety and secure the area prior to pressurizing Actual vessel/line test gauge pressure PSI Gauge #1 Gauge #2 Time Start: Time Finish: Pressure Gauge Range: Serial No.: Calibration Date: Release pressure, test complete: Test Results: Satisfactory Unsatisfactory	IST PRESSURE: PSI IST MEDIUM: HOLD TIME: IST VESSEL/LINE IN COMPLIANCE WITH: ELD ENGINEERING TEST PACKAGE REVIEW FOR FIELD USE: ELESSURE TEST PROCEDURES Foreman PMI QCI Client Rep Verify test boundary Verify pSV setting Verify pipe restrained NDE / Visual Exam Complete. PWHT Complete. Fill vessel/line and bleed air from high point vents Notify Safety and secure the area prior to pressurizing Actual vessel/line test gauge pressure PSI Gauge #1 Gauge #2 Time Start: Time Finish: Pressure Gauge Range: Serial No.: Calibration Date: Release pressure, test complete: Test Results: Satisfactory Unsatisfactory Formance Mechanical, Inc. Date Client Date



Performance Mechanical, Inc. HYDROSTATIC TEST REPORT

JOB NAME/NUMBER:			DA ⁻	TE:
SYSTEM / TEST NAME OR NUMB	ER:			
TEST PRESSURE:	PSI			
TEST MEDIUM:		HOLI	D TIME:	
TEST VESSEL/LINE IN COMPLIAN	NCE WITH:			
FIELD ENGINEERING TEST PACK	(AGE REVIEW FOR FIE	ELD USE:		
PRESSURE TEST PROCEDURES		Foreman	PMI QCI	Client Rep
1. Verify test boundary				
2. Verify pipe restrained				
3. NDE / Visual Exam Complete.				
4. PWHT Complete.				
5. Fill vessel/line and bleed air fr	om high point vents			
6. Notify Safety and secure the a	rea prior to pressurizin	ng		
0 111 11 5 1		Serial No.	Gauge Range: : on Date:	
Release pressure, test comple Test Results:	ete: Satisfactory	Unsatisfa	actory	
Performance Mechanical, Inc.	Date	Client		Date
COMMENTS:				



Performance Mechanical, Inc. STATIC HEAD TEST REPORT

JOB NAME/NUMBER: DATE:				
SYSTEM / TEST NAME OR NUMBER:				
TEST PRESSURE: PSI	PSV SETTING):	PSI	
TEST MEDIUM:	HOLD TIME	i:		
TEST VESSEL/LINE IN COMPLIANCE WITH:				
FIELD ENGINEERING TEST PACKAGE REVIEW FOR FIELD	USE:			
PRESSURE TEST PROCEDURES	Foreman	PMI QCI	Client Rep	
Verify test boundary				
2. Verify pipe restrained				
3. Fill vessel/line and bleed air from high point vents				
4. Verify PSV setting				
5. Notify Safety and secure the area prior to pressurizing				
6. Actual vessel/line test gauge pressure Gauge #1	PSI			
Time Start: Time Finish:	Gauge #2			
Pressure Gauge Range:	Pressure Gauge	Range:		
Serial No.: Calibration Date:	Serial No.: Calibration Date	e:		
7. Release pressure, test complete: Test Results: Satisfactory Unsatisfactory				
Performance Mechanical, Inc. Date 0	Client		Date	
COMMENTS:				



Performance Mechanical, Inc. General Engineering Contractor

An EMCOR Company

California License No. 475516

HYDROSTATIC TEST CREW ACKNOWLEDGEMENT FORM

	Date:		
		Package Number:	
pressure requi	ired and have verified the test bound	ve read and understand the procedures, Faries. The requirment test pressure is of acknowledgement on the lines below.	know the testpsi.
Foreman:	Touce parties and the second		
<u>Craft:</u>			
	Print	Signature	Date
1.			
2.			
3		_	
4 .			
5		_	
6.			
Review by:			
Quality Contro	ol:		
General Foren			
	Print Name	Signature	Date



PERFORMANCE MECHANICAL, INC.

PIPING PRE-TEST CHECKLIST

CC	NTRACT NO.:	Date:	
CLI	ENT:	Tag No.:	
LO	CATION:		
UN	IT:		
	ITEMS TO	VERIFY	APPROVAL
PIP	ING AND FITTINGS	INSTRUMENTATION	74 1 110 1712
I	Piping schedule, material and size is correct	☐ Connections for instruments installed &	
	Piping is in proper location		
		isolated as required	
	Piping has required clearance	☐ Orifice flanges tap valves at correct angles,	
	Fittings have correct ratings and are proper material	☐ seal welded & jackscrews in place	
	Installation is straight and plumb or slope per drawings	☐ Orifice flanges have correct meter runs,	
		smooth bores; orifice plates removed	
	Reducer orientation is correct	☐ All thermowells installed	
	Cold spring is per drawing	PIPING BRANCHES	
		☐ All branches reinforced per job specifications	
VAI	_VES	☐ All reinforcing pads have weep holes	
Ш	Check all valve tags for compliance with piping,		
_	material specification	FLANGE MAKE-UP (BOLTING, FLANGES & GASKETS)	
	Assure control, globe, angle and check valves have	☐ Flanges mapped & tracking completed	
1	correct flow direction	☐ Torque valves per Spec.	
	Valves should be in open position	☐ Thread compound applied per Spec.	
	Direction of handles should be as per ISO	Proper diameter & length installed	
	All vents and drains are installed including those	☐ Gasket material verified	
		Dalkier was tadal wad find	
	required for testing	Bolting material verified	
	DODTO CUIDEO AND ANGUIODO	☐ Torquing requirements per Spec.	
	PPORTS, GUIDES AND ANCHORS	SCREWED PIPING	
	Property installed per details	☐ Has proper fillings and compounded on threads	
	All temporary erection supports have been removed	☐ Installed with proper thread engagement	
	Spring hangers chocked against movement		
	Small bore supports installed per the specifications,	RELIEF VALVES	
	in sufficient quantities and in proper locations	☐ Nameplate data verified	
	Shoes installed and welded per detail	☐ Are isolated from the system	
ME	CHANICAL EQUIPMENT	PIPING SPECIALTY ITEMS	
	All equipment not included in test has been	□ Verify direction of flow for filters, strainers,	
	isolated/removed	traps and expansion joints	
		Expansion joints have stops installed	
QΑ	/ QC	All blinds are sized correctly and installed as	
	All welding completed	required by the drawings	
	PWHT requirements fulfilled	roquired by the drawings	
	Authorization from Welding Dept. obtained	HYDROSTATIC TEST	
	Corporate QA-QC Manager notified for any	☐ Boundaries have been identified	
_	pneumatic testing at or above 100 psi.	☐ Blinds installed	
KE	MARKS	☐ Crew acknowledgement sheet completed	
		SAFETY	
		☐ Barriers in Place	
1		☐ Safety Procedures established	
AC	CEPTANCE:		
	Performance Mechanical, Inc.	 Date	
	·		
	Client	 Date	

L.A. Office: 17925 Broadway, Gardena, CA 90248



PERFORMANCE MECHANICAL, INC.

PIPING POST-TEST CHECKLIST

CONTRACT NO.:	_ Date		,
CLIENT:	Tag No	u:	
LOCATION:	_		
UNIT:	-		
	ITEMS TO VERIFY		APPROVAL
VALUES	TIEMO TO VERTI		ALLINOVAL
All process vents and drains have been particles. All hydrotest vents and drains have been Control valves / other valves removed has have been mechanically checked for tight	n completed per Project requirements ave been reinstalled and flow directions	s verified. Bolts	
SUPPORTS			
All temporary supports have been remove Remove spring hanger stops and set to a All struts and special supportss set per management.	a cold position		
BLINDS			
All test blinds have been removed All Figure 8 blinds rolled to position per P	& ID's		
INSTRUMENTATION			
All tube and piping connections installed Orifice plates installed in proper direction Gauges installed			
BOLTS AND GASKETS			
Proper type and material installed per sport Sized as required	ec		
PIPING SPECIALTY ITEMS			
Pipe Cleaning / Picking has been comple Shipping stops and restarts removed from Verify flow direction for fites, strainers, tra	n expansion joints		
MECHANICAL EQUIPMENT			
Pump suction strainers are in place and in Pump and comperssor flange bolthing in		gnment	
REMARKS			
ACCEPTANCE:			
Performance Mechanical, Inc.		Date	
Client		Date	

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Performance Mechanical, Inc. General Engineering Contractor

HYDROTEST LEGENDS

 EX **EXCLUDE FROM TEST** NDE NDE IN LIEU OF HYDROTEST **TEST BLIND** TB* TS * ONLY HP TEST TEST SPOOL **BLINDS WILL BE NUMBERED** TO BF **TEST OPEN BLIND FLANGE** TC SB **TEST CLOSED** USE EXISTING SPEC BLIND (CLOSED) TEST PLUG ΤP

