

Project: P14474: Hydrostatic Test Apparatus

Rqmt. #	Importance	Engr. Requirement (metric)	Unit of Measure	Target Value/Range	Test (how are you going to verify satisfaction)
1	9	Withstand Max Pressure	PSI	0-10,000	Spec Sheet of Pressure Transducer
2	9	Deliver Max req'd Pressure	PSI	0-10,000	Run to Customer Pump
3	9	Deliver Min Red'd Pressure	PSI	~50	Run with pump
4	9	Detect and transmit peak pressure values	Binary	-	Trial run with no pecific guage
5	9	Be able to withstand harsh/water envn'mt	Binary	-	Spec Sheet of Pressure Transducer
6	6	Acceptable sensitivity for 10,000psi	mV/psi	12.5	Sensitivity Calculations
7	6	Acceptable sensitivity for 5,000psi	mV/psi	4	Sensitivity Calculations
8	6	Acceptable sensitivity for 1,000psi	mV/psi	4	Sensitivity Calculations
9	6	Voltage output from pressure transducer	volts	0-5Vdc	Read specifications
10	6	Reaction time of Pressure Transducer	Sec	<1	Time System
11	9	Compatible pressure transducer port with manifold	in	1/4 MNPT	Design manifold to pressure transducer
12	6	Compatible cable connection to DAQ	Binary		Look at connection ports of DAQ and pressure transducers