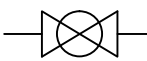

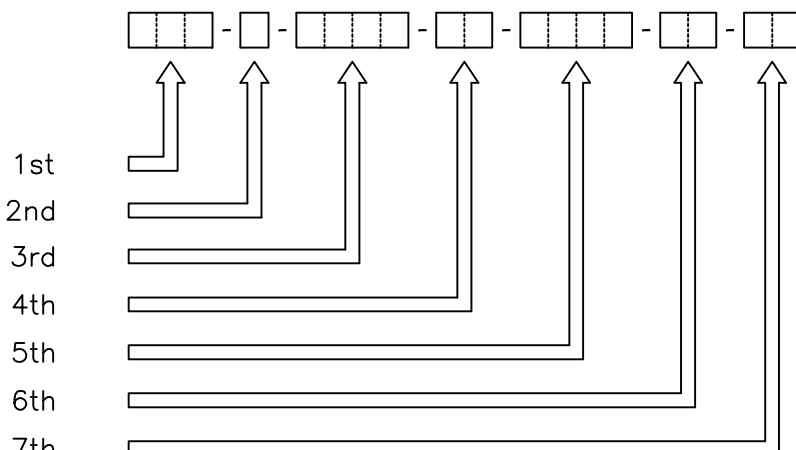
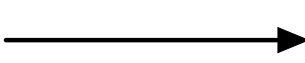
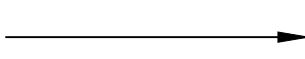
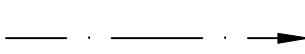
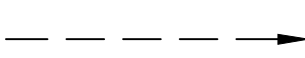
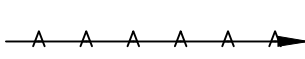
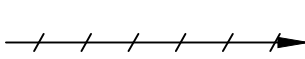
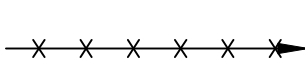
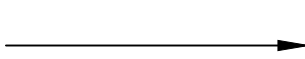
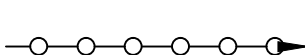

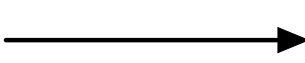
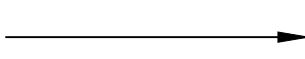
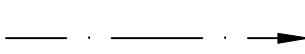
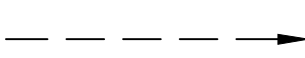
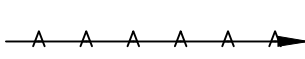
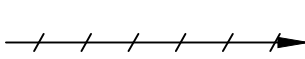
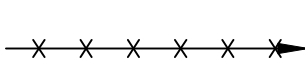
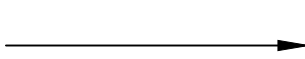
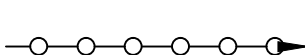

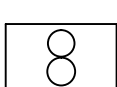
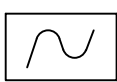
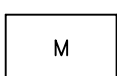
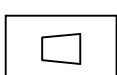
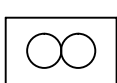
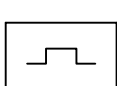







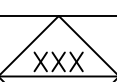
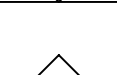

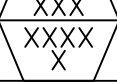
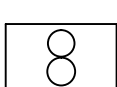
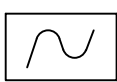
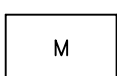
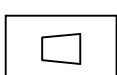
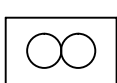
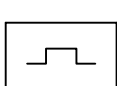







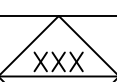
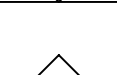

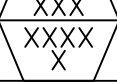
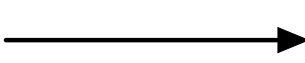
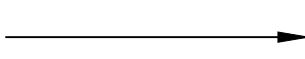
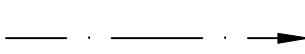
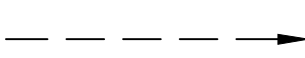
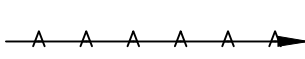
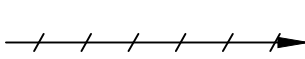
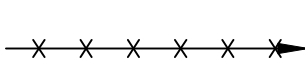
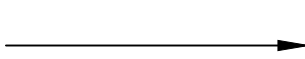
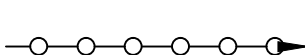

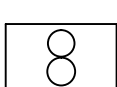
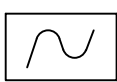
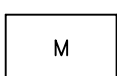
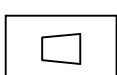
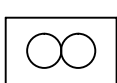
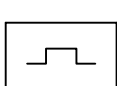







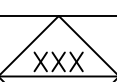
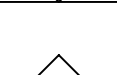

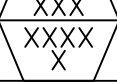

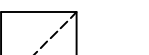

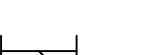



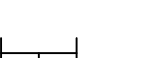

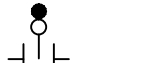
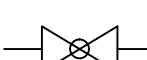
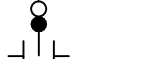
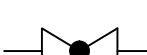




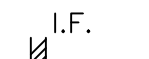


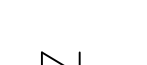



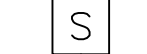





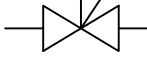







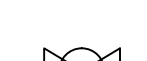




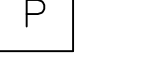
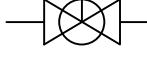
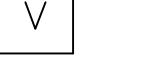
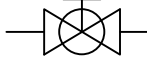

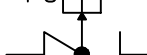

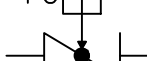

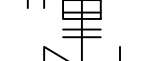

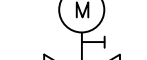
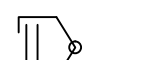

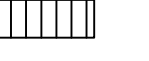


VALVE SYMBOLS		PIPING SYMBOLS		LINE DETAILS		LINE DETAILS CONT..		MISCELLANEOUS SYMBOLS		NOTES																																																											
	BALL OPEN		TRAP OR DRAINER	<p>THE LINE NUMBER IS TO BE MADE UP OF A BLOCK OF DIGITS AS FOLLOWS:</p> 		<p>1ST) THE TYPE CODE IS A LETTER IDENTIFIER AS FOLLOWS:</p> <table><tr><th>SYMBOL</th><th>DETAIL</th></tr><tr><td></td><td>MAJOR PROCESS/INSTRUMENT LINES (HEAVY LINE WEIGHT)</td></tr><tr><td></td><td>MINOR PROCESS/INSTRUMENT LINES (LIGHT LINE WEIGHT)</td></tr><tr><td></td><td>PACKAGE UNIT LIMIT</td></tr><tr><td></td><td>ELECTRICAL SIGNAL</td></tr><tr><td></td><td>PNEUMATIC LINES (GAS/AIR)</td></tr><tr><td></td><td>HYDRAULIC LINES</td></tr><tr><td></td><td>INSTRUMENT CAPILLARY TUBE</td></tr><tr><td></td><td>ELECTRICALLY TRACED LINE</td></tr><tr><td></td><td>DATA LINK</td></tr><tr><td></td><td>LINE BREAK ARROW (ONLY USED WHEN LINE BREAK IS NOT CLEAR)</td></tr></table>		SYMBOL	DETAIL		MAJOR PROCESS/INSTRUMENT LINES (HEAVY LINE WEIGHT)		MINOR PROCESS/INSTRUMENT LINES (LIGHT LINE WEIGHT)		PACKAGE UNIT LIMIT		ELECTRICAL SIGNAL		PNEUMATIC LINES (GAS/AIR)		HYDRAULIC LINES		INSTRUMENT CAPILLARY TUBE		ELECTRICALLY TRACED LINE		DATA LINK		LINE BREAK ARROW (ONLY USED WHEN LINE BREAK IS NOT CLEAR)	<p>INSTRUMENTATION SYMBOLS</p> <table><tr><td></td><td>TURBINE FLOW METER</td></tr><tr><td></td><td>ULTRASONIC FLOW METER</td></tr><tr><td></td><td>MAGNETIC FLOW METER</td></tr><tr><td></td><td>VORTEX FLOW METER</td></tr><tr><td></td><td>POSITIVE DISPLACEMENT FLOW METER</td></tr><tr><td></td><td>CORIOLOS FLOW METER</td></tr><tr><td></td><td>METER LOCAL TOTALIZING</td></tr><tr><td></td><td>ROTAMETER</td></tr><tr><td></td><td>FLOW ELEMENT (UNCLASSIFIED)</td></tr><tr><td></td><td>FIELD DEVICE</td></tr><tr><td></td><td>PANEL MOUNTED DEVICE</td></tr><tr><td></td><td>PCS SYSTEM</td></tr><tr><td></td><td>PLC CONTROL (VENDOR PACKAGE)</td></tr><tr><td></td><td>ESD SYSTEM</td></tr><tr><td></td><td>FLOW COMPUTER VENDOR PACKAGE</td></tr><tr><td></td><td>INTERLOCK</td></tr><tr><td></td><td>LOCAL CONTROL PANEL</td></tr></table>			TURBINE FLOW METER		ULTRASONIC FLOW METER		MAGNETIC FLOW METER		VORTEX FLOW METER		POSITIVE DISPLACEMENT FLOW METER		CORIOLOS FLOW METER		METER LOCAL TOTALIZING		ROTAMETER		FLOW ELEMENT (UNCLASSIFIED)		FIELD DEVICE		PANEL MOUNTED DEVICE		PCS SYSTEM		PLC CONTROL (VENDOR PACKAGE)		ESD SYSTEM		FLOW COMPUTER VENDOR PACKAGE		INTERLOCK		LOCAL CONTROL PANEL	<p>INSULATED PIPE</p> <p>TIE-IN POINT (INTERFACED)</p> <p>WT 50mm VESSEL INSULATION REQUIREMENTS</p> <p>FAN</p> <p>FALL</p> <p>PUMP</p> <p>LINE FLAG SYMBOL</p> <p>ELECTRIC HEATER</p> <p>SHELL AND TUBE EXCHANGER</p> <p>PLATE HEAT EXCHANGER</p> <p>SIDE ENTRY FILTER</p> <p>TOP ENTRY FILTER</p> <p>PIG TRAP</p> <p>WATER BATH HEAT EXCHANGER</p> <p>ORIFICE PLATE WITH TAPINS</p>		<p>REFERENCES:</p> <p>PROCESS P&ID'S – 10100111-P-0701-XXX</p> <p>001 – LEGEND</p> <p>002 – JETTY HEAD HIGH PRESSURE GAS LOADING ARM</p> <p>003 – JETTY HEAD SHIP CONNECTION ESD & VENTING SYSTEM</p> <p>004 – ONSHORE RECEPTION (PIG TRAP) AREA TO CUSTODY TRANSFER STATION</p> <p>005 – CUSTODY TRANSFER STATION FILTRATION & METERING</p> <p>006 – CUSTODY TRANSFER STATION PRE-HEATING SYSTEM</p> <p>007 – CUSTODY TRANSFER STATION BACK PRESSURE CONTROL SKID</p> <p>008 – FIRE WATER SYSTEM</p> <p>011 – JETTY HEAD HIGH PRESSURE GAS LOADING ARM 'B'</p>	
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	BUTTERFLY CLOSED		I.F. INSULATION FLANGE	<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																																																											
	DEAD WEIGHT RELIEF VALVE		INSULATION JOINT									<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																																																			
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	DIAPHRAGM OPERATED		DELUGE VALVE SET	<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																																																											
	MOTOR OPERATED BALL VALVE		SURFACE MOUNTED TEMPERATURE TRANSMITTER									<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																																																			
	MOTOR OPERATED BUTTERFLY VALVE		LINE CAP																	<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																																											
	DOUBLE BLOCK AND BLEED		SCREWED END																									<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																																			
	PISTON ACTUATED BALL VALVE OPENS ON FAILURE OF ACTUATING ENERGY		P PURGE																																	<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																											
	PISTON ACTUATED BALL VALVE CLOSES ON FAILURE OF ACTUATING ENERGY		V VENT																																									<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																			
	PISTON ACTUATED BALL VALVE FAILURE LAST POSITION (FAIL FREEZE) ON FAILURE OF ACTUATING ENERGY		SP SAMPLE POINT																																																	<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>											
	PISTON ACTUATED BUTTERFLY VALVE OPENS ON FAILURE OF ACTUATING ENERGY		D DRAIN	<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																																																											
	PISTON ACTUATED BUTTERFLY VALVE CLOSES ON FAILURE OF ACTUATING ENERGY		SP PIPING SPECIALITY ITEM									<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																																																			
	PISTON ACTUATED BUTTERFLY VALVE FAILURE LAST POSITION (FAIL FREEZE) ON FAILURE OF ACTUATING ENERGY		FLEXIBLE HOSE																	<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																																											
	VALVE HANDWHEEL SHOWN ON MOTOR OPERATED VALVE FOR ILLUSTRATION PURPOSES		S SILENCER																									<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																																			
	LOADING ARM QUICK CONNECT/DISCONNECT COUPLING		LOADING ARM QUICK CONNECT/DISCONNECT COUPLING																																	<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																											
	EXPANSION BELLOWS		EXPANSION BELLOWS																																									<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>																			
	CORROSION COUPON		(CC) CORROSION COUPON																																																	<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>											
LC	LOCKED CLOSED			<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p> <p>7th</p>		<p>1st</p> <p>2nd</p> <p>3rd</p> <p>4th</p> <p>5th</p> <p>6th</p>																																																															