

CONTROL VALVES	ACTUATOR TYPES	GENERAL INSTRUMENT	TEMPERATURE	FLOW		NOTES:																
<ul style="list-style-type: none"> <li>GATE VALVE</li> <li>3-WAY GATE VALVE</li> <li>4-WAY GATE VALVE</li> <li>ANGLE GATE VALVE</li> <li>GLOBE VALVE</li> <li>3-WAY GLOBE VALVE</li> <li>ANGLE GLOBE VALVE</li> <li>BALL VALVE</li> <li>3-WAY BALL VALVE</li> <li>BUTTERFLY VALVE</li> <li>DIAPHRAGM VALVE</li> <li>SOLENOID VALVE</li> <li>3-WAY SOLENOID VALVE</li> <li>4-WAY SOLENOID VALVE</li> <li>ANGLE SOLENOID VALVE</li> <li>KNIFE GATE VALVE</li> <li>MULTIVANE 1 DAMP/LOUV CV</li> <li>MULTIVANE 2 DAMP/LOUV CV</li> <li>PLUG VALVE</li> <li>SINGLE VANE DAMP/LOUV CV</li> <li>SLIDE VALVE</li> <li>3-WAY PLUG VALVE</li> <li>3-WAY SLIDE VALVE</li> <li>4-WAY PLUG VALVE</li> </ul>	<ul style="list-style-type: none"> <li>DIAPHRAGM</li> <li>MOTOR</li> <li>DOUBLE ACTING CYLINDER</li> <li>SINGLE SOLENOID</li> <li>BALL FLOAT</li> <li>CAPACITANCE SENSOR</li> <li>PRESS-BALANCED DIAPHRAGM</li> <li>DIGITAL</li> <li>DISPLACEMENT FLOAT</li> <li>ELECTRO-HYDRAULIC</li> <li>MANUAL</li> <li>PADDLE WHEEL</li> <li>PILOT</li> <li>DOUBLE SOLENOID</li> <li>PILOT OPERATED CYLINDER</li> <li>SINGLE ACTING CYLINDER</li> <li>SPRING</li> <li>SINGLE SOLENOID WIRESET</li> <li>WEIGHT</li> </ul>	<ul style="list-style-type: none"> <li>SINGLE FUNCT INSTR Field</li> <li>SINGLE FUNCT INSTR Main Panel</li> <li>SINGLE FUNCT INSTRUMENT NOT ACCESSIBLE Main Panel</li> <li>SINGLE FUNCT INSTR Local Panel</li> <li>SINGLE FUNCT INSTRUMENT NOT ACCESSIBLE Local Panel</li> <li>PILOT LIGHT Field</li> <li>PILOT LIGHT Main Panel</li> <li>PILOT LIGHT Local Panel</li> <li>DCS FUNCTION DCS - Main Panel</li> <li>DCS FUNCTION NOT ACCESSIBLE DCS - Main Panel</li> <li>DCS FUNCTION DCS - Field HMI</li> <li>DCS FUNCTION NOT ACCESSIBLE DCS - Field HMI</li> <li>PLC FUNCTION PLC - Main Panel</li> <li>PLC FUNCTION NOT ACCESSIBLE PLC - Main Panel</li> <li>PLC FUNCTION PLC - Field</li> <li>PLC FUNCTION NOT ACCESSIBLE PLC - Field</li> <li>SIS FUNCTION SIS - Main Panel</li> <li>SIS FUNCTION SIS - Field Display</li> <li>LOGIC/INTERLOCK FUNCTION Interlock</li> <li>SOLENOID VALVE - 3-WAY Field</li> <li>SOLENOID VALVE 4-WAY SINGLE Field</li> <li>THERMOWELL FLANGED Field</li> <li>THERMOWELL SCREWED Field</li> </ul>	<ul style="list-style-type: none"> <li>ANGLE FILLED SYSTEM TEMP REG</li> <li>3-WAY FILLED SYSTEM TEMP REG</li> <li>FILLED SYSTEM TEMP REG</li> <li>LOCAL TEMP INDICATOR WITH THERMOWELL FLANGED</li> <li>LOCAL TEMP INDICATOR WITH THERMOWELL SCREWED</li> <li>THERMOWELL (ONLY FOR TEST)</li> <li>THERMOWELL-SURFACE OR SKIN</li> <li>SKIN OR T/C-K</li> </ul>	<ul style="list-style-type: none"> <li>ORIFICE PLATE &amp; FLANGES</li> <li>RESTRICTION ORIFICE</li> <li>ORIFICE PLATE &amp; QK CHANGE FITTING</li> <li>MAGNETIC FLOW</li> <li>FLOW NOZZLE</li> <li>VORTEX FLOW INSTR</li> <li>CORIOLIS</li> <li>ANNUBAR</li> <li>FORWARD REVERSE PITOT TUBE</li> <li>AVERAGING PITOT TUBE</li> <li>WEIR</li> </ul>	<ul style="list-style-type: none"> <li>IN-LINE INSTRUMENT</li> <li>VAR AREA FLOW INSTR</li> <li>VAR AREA FLOW INSTR W/UPSTR VLV</li> <li>VAR AREA FLOW INSTR W/DWNSTR VLV</li> <li>VAR AREA FLOW INSTR W/UPSTR REG</li> <li>VAR AREA FLOW INSTR W/DWNSTR REG</li> <li>FLOW STRAIGHTENING VANE</li> <li>VENTURI TUBE</li> <li>TURBINE/PROPELLER FLOW INSTR</li> <li>POS DISPLACEMENT FLOW</li> <li>SINGLE PORT PITOT TUBE</li> <li>FLUME</li> <li>ULTRASONIC FLOW</li> <li>TARGET FLOW</li> </ul>	<p>NOTES:</p>																
<h3>SIGNAL LINES</h3> <ul style="list-style-type: none"> <li>CONNECTION TO PROCESS</li> <li>PNEUMATIC SIGNAL</li> <li>ELECTRIC SIGNAL</li> <li>CAPILLARY TUBING</li> <li>HYDRAULIC SIGNAL</li> <li>MECHANICAL LINK</li> <li>DCS SOFTWARE LINK</li> <li>SERIAL/DIGITAL</li> <li>FOUNDATION FIELD BUS</li> <li>HART SIGNAL</li> <li>ELECTROMAGNETIC OR SONIC SIGNAL</li> </ul>	<h3>MISCELLANEOUS</h3> <ul style="list-style-type: none"> <li>POSITIONER</li> <li>HANDWHEEL</li> <li>CHEMICAL SEAL</li> </ul>	<ul style="list-style-type: none"> <li>SOLENOID VALVE - 3-WAY Field</li> <li>SOLENOID VALVE 4-WAY SINGLE Field</li> <li>THERMOWELL FLANGED Field</li> <li>THERMOWELL SCREWED Field</li> </ul>	<h3>ITEM TAG FORMAT</h3> <p>INSTRUMENT FUNCTION TYPE UNIT IDENTIFICATION NUMBER INSTRUMENT SEQUENCE NUMBER INSTRUMENT SUFFIX</p> <p>PT-UUXXXX</p>	<h3>FLOW ORIFICE-TRANSMITTER</h3> <p>TYPICAL INSTALLATION P&amp;ID SCHEMATIC REPRESENTATION</p> <p>TYPICAL INSTALLATION P&amp;ID SCHEMATIC REPRESENTATION</p> <p>MIN 300# MIN 300#</p> <p>SHOWN ON P&amp;ID</p> <p>CERTIFIED METER RUN</p>		<table border="1"> <tr> <td>REV</td> <td>DATE</td> <td>DESCRIPTION</td> <td>BY</td> <td>CHK</td> <td>ENG</td> <td>PEM</td> <td>PM</td> </tr> <tr> <td>A</td> <td>26-Jul-12</td> <td>ISSUE FOR REVIEW</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	REV	DATE	DESCRIPTION	BY	CHK	ENG	PEM	PM	A	26-Jul-12	ISSUE FOR REVIEW					
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<h3>VALVE FAILURE</h3> <ul style="list-style-type: none"> <li>FAIL ACTION</li> <li>FO - FAIL OPEN</li> <li>FC - FAIL CLOSED</li> <li>FI - FAIL INDETERMINATE</li> <li>FL - FAIL LOCKED LAST POSITION</li> <li>FLO - FAIL LOCKED VALVE OPENS ON DECREASING CONTROL</li> <li>FLC - FAIL LOCKED VALVE CLOSSES ON DECREASING CONTROL</li> <li>TIGHT SHUT-OFF (ON/OFF VALVES) DEFAULT IS CLASS V. IF DIFFERENT, INDICATE WITH A NOTE.</li> </ul>	<h3>INSTRUMENT TAGGING</h3> <p>INSTRUMENT FUNCTION TYPE (ISA CODE)</p> <p>INSTRUMENT SUFFIX (ALPHANUMERIC CHARACTERS)</p> <p>INSTRUMENT SEQUENCE NUMBER (4 DIGITS)</p> <p>UNIT IDENTIFICATION NUMBER (2 DIGITS)</p>	<h3>ANALYZER DETAIL</h3> <p>PIPE 2" OR SMALLER</p> <p>TYPICAL INSTALLATION</p> <p>AE UU</p> <p>SAMPLE PROBE 1.5" FLANGE</p> <p>INSTR PIPING 1/2" 0.75" NPT</p> <p>SHOWN ON P&amp;ID</p> <p>P&amp;ID SCHEMATIC REPRESENTATION</p> <p>AE UU</p> <p>INSTR PIPING 1/2" 0.75" NPT</p>		<h3>FLOW ORIFICE-TRANSMITTER</h3> <p>TYPICAL INSTALLATION P&amp;ID SCHEMATIC REPRESENTATION</p> <p>TYPICAL INSTALLATION P&amp;ID SCHEMATIC REPRESENTATION</p> <p>MIN 300# MIN 300#</p> <p>SHOWN ON P&amp;ID</p> <p>CERTIFIED METER RUN</p>		<p>CLIENT/PROJECT TITLE</p> <p><b>WORLEYPARSONS</b> resources &amp; energy</p> <p>MIMOSA</p> <p>PROJECT NO.</p> <p>PIPING AND INSTRUMENT DIAGRAM LEGEND SHEET INSTRUMENT SYMBOLS SHEET 1</p> <p>SCALE</p> <p>NONE</p> <p>DWG. NO.</p> <p>LEGEND-005</p> <p>REVISION</p> <p>A</p> <p>FILE NAME: IGeneral\UU\LEGEND-005.ppt</p> <p>A1 841x534</p>																