



PHILADELPHIA GAS WORKS																																																																															
ENGINEERING DEPT.					PHILADELPHIA, PA.																																																																										
W.O.		PGW DWG. NO.			12-A-170																																																																										
APPROVED																																																																															
<p>LEGEND</p> <table border="1"> <tr> <td>COOLING WATER SUPPLY (CYCLIC)</td> <td>15" DEBRIS/BEARD STEAM</td> <td>STEAM CONDENSATE</td> <td>DRY OR DIRTY WATER SEWER</td> <td>PUMP/OUT</td> <td>COG START-UP GAS</td> <td>PROCESS CONDENSATE</td> <td>15" STEAM CONDENSATE</td> </tr> <tr> <td>COOLING WATER RETURN (CYCLIC)</td> <td>POTABLE WATER</td> <td>TREATED WATER</td> <td>CHEMICAL WASTES</td> <td>PURGE GAS (OUTGOING)</td> <td>PRELINE GAS (MATERIAL GAS)</td> <td>FUEL GAS (STREETFORD)</td> <td></td> </tr> <tr> <td>50% H.P. STEAM</td> <td>PLANT AIR</td> <td>FUEL OIL (NAPHTHA)</td> <td>SANITARY SEWER</td> <td>BLOWDOWN</td> <td></td> <td>GAS WATER</td> <td></td> </tr> <tr> <td>20% L.P. STEAM</td> <td>INSTRUMENT AIR</td> <td>FUEL GAS (NATURAL GAS)</td> <td>FIRE WATER</td> <td>FLARE</td> <td></td> <td>PRESSURIZATION AIR</td> <td></td> </tr> <tr> <td></td> <td></td> <td>CLEAN WATER SEWER</td> <td>FLUSHING OIL</td> <td>TO ATMOSPHERE</td> <td></td> <td></td> <td></td> </tr> </table>										COOLING WATER SUPPLY (CYCLIC)	15" DEBRIS/BEARD STEAM	STEAM CONDENSATE	DRY OR DIRTY WATER SEWER	PUMP/OUT	COG START-UP GAS	PROCESS CONDENSATE	15" STEAM CONDENSATE	COOLING WATER RETURN (CYCLIC)	POTABLE WATER	TREATED WATER	CHEMICAL WASTES	PURGE GAS (OUTGOING)	PRELINE GAS (MATERIAL GAS)	FUEL GAS (STREETFORD)		50% H.P. STEAM	PLANT AIR	FUEL OIL (NAPHTHA)	SANITARY SEWER	BLOWDOWN		GAS WATER		20% L.P. STEAM	INSTRUMENT AIR	FUEL GAS (NATURAL GAS)	FIRE WATER	FLARE		PRESSURIZATION AIR				CLEAN WATER SEWER	FLUSHING OIL	TO ATMOSPHERE																																	
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<p>ITEM NO. SERVICE SHELL DES. P.A.T. TUBE DES. P.A.T. MATH. SHELL MATL. TUBE INSULATION</p> <table border="1"> <tr> <td>P-201A</td> <td>CARBONATE</td> <td>195</td> <td>195</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> </tr> <tr> <td>P-201B</td> <td>SPARC</td> <td>38.85</td> <td>38.85</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> </tr> <tr> <td>P-203A</td> <td>SPARC</td> <td>111</td> <td>111</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> </tr> <tr> <td>P-203B</td> <td>SPARC</td> <td>133</td> <td>133</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> <td>375</td> </tr> <tr> <td>J-201</td> <td>CONDENSATE</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> </tr> <tr> <td></td> <td>FLUSHING OIL</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> </tr> <tr> <td></td> <td>FLUSHING OIL</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> <td>55</td> </tr> </table>										P-201A	CARBONATE	195	195	375	375	375	375	375	375	P-201B	SPARC	38.85	38.85	375	375	375	375	375	375	P-203A	SPARC	111	111	375	375	375	375	375	375	P-203B	SPARC	133	133	375	375	375	375	375	375	J-201	CONDENSATE	55	55	55	55	55	55	55	55		FLUSHING OIL	55	55	55	55	55	55	55	55		FLUSHING OIL	55	55	55	55	55	55	55	55
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<p>NOTES</p> <ol style="list-style-type: none"> <li>POWER CHECK VALVES CLOSE WHEN P-201A OR P-201B STOP.</li> <li>USE TWO 1/2" TRACERS (50% STEAM) FOR PART TO PSV 1449</li> <li>FOR GENERAL NOTES, ETC., SEE F.S. N°1.</li> </ol>																																																																															
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<p>PHILADELPHIA GAS WORKS ENGINEERING DEPT. PHILADELPHIA, PA. 12-A-170 ENGINEERING: FLOW DIAGRAM (CARBONATE RECOVERY) SECTION 201-CATALYTIC RICH GAS UNIT 6-CM SCFD SMC PLAN PHILADELPHIA GAS WORKS PHILADELPHIA, PENNSYLVANIA</p>																																																																															