

<p>74X ALARM (CPO04)</p> <p>74X ALARM (CPO04)</p> <p>74X PCV-201 (1-E-4530)</p> <p>74X GAB. FAULT ALARM (CPO04)</p> <p>74X ALARM - PHASE B OVERCURRENT (CPO04)</p> <p>74X 55-ZLP ALARM - LOCAL CONTROL INITIATED (CPO04)</p>	<p>52 CUBICLE SLP. COOLER FAN (1-E-530B)</p> <p>74X COMPUTER (1-E-4530)</p>	<p>CS-ZLP (ZLP-100)</p> <table border="1"> <tr><th>CONTACTS (HANDLE-END)</th><th>POSITION</th><th>USE</th></tr> <tr><td>1 IC 2C 2 I</td><td>START</td><td>X CONT</td></tr> <tr><td>2 IC 2C 2 I</td><td>NORM</td><td>X CONT</td></tr> <tr><td>3 IC 2C 2 I</td><td>STOP</td><td>X CONT</td></tr> <tr><td>4 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> <tr><td>5 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> </table> <p>SPRING RETURN TO NORMAL X-DENOTES CONTACT CLOSED GE TYPE SBM</p>	CONTACTS (HANDLE-END)	POSITION	USE	1 IC 2C 2 I	START	X CONT	2 IC 2C 2 I	NORM	X CONT	3 IC 2C 2 I	STOP	X CONT	4 IC 2C 2 I	STOP	X SP	5 IC 2C 2 I	STOP	X SP	<p>CS-ELP (ELP-100)</p> <table border="1"> <tr><th>CONTACTS (HANDLE-END)</th><th>POSITION</th><th>USE</th></tr> <tr><td>1 IC 2C 2 I</td><td>START</td><td>X CONT</td></tr> <tr><td>2 IC 2C 2 I</td><td>NORM</td><td>X CONT</td></tr> <tr><td>3 IC 2C 2 I</td><td>STOP</td><td>X CONT</td></tr> <tr><td>4 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> <tr><td>5 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> </table> <p>SPRING RETURN TO NORMAL X-DENOTES CONTACT CLOSED GE TYPE SBM</p>	CONTACTS (HANDLE-END)	POSITION	USE	1 IC 2C 2 I	START	X CONT	2 IC 2C 2 I	NORM	X CONT	3 IC 2C 2 I	STOP	X CONT	4 IC 2C 2 I	STOP	X SP	5 IC 2C 2 I	STOP	X SP	<p>CS-MB (CPO04)</p> <table border="1"> <tr><th>CONTACTS (HANDLE-END)</th><th>POSITION</th><th>USE</th></tr> <tr><td>1 IC 2C 2 I</td><td>START</td><td>X CONT</td></tr> <tr><td>2 IC 2C 2 I</td><td>NORM</td><td>X CONT</td></tr> <tr><td>3 IC 2C 2 I</td><td>STOP</td><td>X CONT</td></tr> <tr><td>4 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> <tr><td>5 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> </table> <p>SPRING RETURN TO NORMAL X-DENOTES CONTACT CLOSED GE TYPE SBM</p>	CONTACTS (HANDLE-END)	POSITION	USE	1 IC 2C 2 I	START	X CONT	2 IC 2C 2 I	NORM	X CONT	3 IC 2C 2 I	STOP	X CONT	4 IC 2C 2 I	STOP	X SP	5 IC 2C 2 I	STOP	X SP	<p>CS-MD (CPO04)</p> <table border="1"> <tr><th>CONTACTS (HANDLE-END)</th><th>POSITION</th><th>USE</th></tr> <tr><td>1 IC 2C 2 I</td><td>START</td><td>X CONT</td></tr> <tr><td>2 IC 2C 2 I</td><td>NORM</td><td>X CONT</td></tr> <tr><td>3 IC 2C 2 I</td><td>STOP</td><td>X CONT</td></tr> <tr><td>4 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> <tr><td>5 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> </table> <p>SPRING RETURN TO NORMAL X-DENOTES CONTACT CLOSED GE TYPE SBM</p>	CONTACTS (HANDLE-END)	POSITION	USE	1 IC 2C 2 I	START	X CONT	2 IC 2C 2 I	NORM	X CONT	3 IC 2C 2 I	STOP	X CONT	4 IC 2C 2 I	STOP	X SP	5 IC 2C 2 I	STOP	X SP	<p>SS-ZLP (ELP-100)</p> <table border="1"> <tr><th>CONTACTS (HANDLE-END)</th><th>POSITION</th><th>USE</th></tr> <tr><td>1 IC 2C 2 I</td><td>START</td><td>X CONT</td></tr> <tr><td>2 IC 2C 2 I</td><td>NORM</td><td>X CONT</td></tr> <tr><td>3 IC 2C 2 I</td><td>STOP</td><td>X CONT</td></tr> <tr><td>4 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> <tr><td>5 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> </table> <p>SPRING RETURN TO NORMAL X-DENOTES CONTACT CLOSED GE TYPE SBM</p>	CONTACTS (HANDLE-END)	POSITION	USE	1 IC 2C 2 I	START	X CONT	2 IC 2C 2 I	NORM	X CONT	3 IC 2C 2 I	STOP	X CONT	4 IC 2C 2 I	STOP	X SP	5 IC 2C 2 I	STOP	X SP	<p>SS-ELP (ELP-100)</p> <table border="1"> <tr><th>CONTACTS (HANDLE-END)</th><th>POSITION</th><th>USE</th></tr> <tr><td>1 IC 2C 2 I</td><td>START</td><td>X CONT</td></tr> <tr><td>2 IC 2C 2 I</td><td>NORM</td><td>X CONT</td></tr> <tr><td>3 IC 2C 2 I</td><td>STOP</td><td>X CONT</td></tr> <tr><td>4 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> <tr><td>5 IC 2C 2 I</td><td>STOP</td><td>X SP</td></tr> </table> <p>SPRING RETURN TO NORMAL X-DENOTES CONTACT CLOSED GE TYPE SBM</p>	CONTACTS (HANDLE-END)	POSITION	USE	1 IC 2C 2 I	START	X CONT	2 IC 2C 2 I	NORM	X CONT	3 IC 2C 2 I	STOP	X CONT	4 IC 2C 2 I	STOP	X SP	5 IC 2C 2 I	STOP	X SP	<p>CS/TEST</p> <table border="1"> <tr><th>CONTACTS (HANDLE-END)</th><th>POSITION</th><th>USE</th></tr> <tr><td>1 IC 2C 2 I</td><td>CLOSE NORM</td><td>X CONT</td></tr> <tr><td>2 IC 2C 2 I</td><td>TRIP</td><td>X CONT</td></tr> <tr><td>3 IC 2C 2 I</td><td>TRIP</td><td>X CONT</td></tr> <tr><td>4 IC 2C 2 I</td><td>TRIP</td><td>X CONT</td></tr> <tr><td>5 IC 2C 2 I</td><td>TRIP</td><td>X CONT</td></tr> </table> <p>SPRING RETURN TO NORMAL X-DENOTES CONTACT CLOSED GE TYPE SBM</p>	CONTACTS (HANDLE-END)	POSITION	USE	1 IC 2C 2 I	CLOSE NORM	X CONT	2 IC 2C 2 I	TRIP	X CONT	3 IC 2C 2 I	TRIP	X CONT	4 IC 2C 2 I	TRIP	X CONT	5 IC 2C 2 I	TRIP	X CONT	<p>REFERENCE DRAWINGS</p> <p>D-E-0105 - ELECT. WIRING STANDARDS & SYMBOLS.</p> <p>I-2-3460 341 - CENTRIFUGAL CHARGING PUMPS CONTROL LOGIC.</p> <p>I-E-4530 - CONTROL WIRING DIAGRAM CENTRIFUGAL CHARGING PUMP IA.</p> <p>© 271C.333 SH.37-CENTRIFUGAL CHARGING PUMP</p>	<p>LEGEND</p> <p>80/PIS201A - CENTRIFUGAL CHARGING PUMP IA FLOW CONTROL FLOW SWITCH BELOW SETPOINT.</p> <p>IRR-04 - SS/PS SAFETY INJECTION SIGNAL.</p> <p>2 - TIME DELAY PICK-UP RELAY.</p> <p>74, 74X - ALARM RELAY.</p> <p>69X - PERMISSIVE STOP RELAY.</p> <p>69 - PERMISSIVE START RELAY.</p> <p>4 - 4160V SWGR 818 COMPT. (L.L.) MECH. EQUIP. NO. 2R17INPA101A</p>
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ISSUED FOR REVIEW/COMPONENT	DATE	DESCRIPTION	BY	CHK	ENG	PROJ	OUT	DATE	DESCRIPTION	BY	CHK	ENG	PROJ	OUT	DATE

NUCLEAR SAFETY RELATED CLASS 1E

PKG 034 | SUFF 102 | ACT 581

SOUTH TEXAS PROJECT

DRAWING TITLE: ELECTRICAL
CONTRACT NO. SCALE: CR-0241 NONE

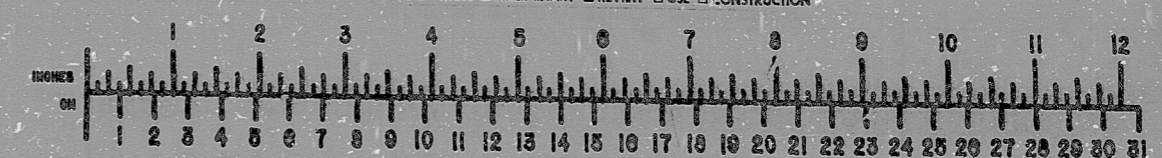
ELEMENTARY DIAGRAM
DRAWING NO. 5-R-17

CENTRIFUGAL CHARGING PUMP IA
I-E-4530-A

INFORMATION PRELIMINARY REVIEW USE CONSTRUCTION

BROWN & ROOT INC.
MICROFILM SERVICES

THURSDAY, MAR. 19 1978



TERA APERTURE CARD

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