

**SYSTEM PARAMETER VALUES**

PARAMETER	VALUE	TOLERANCE	UNITS
41	0.36	+0.02	SEC
42	0.16	+0.02	SEC
43	0.48	+0.02	SEC
44	3.28	+0.02	SEC
45	3.28	+0.02	SEC
46	4.63	+0.02	SEC
47	0.73	+0.02	SEC
48	0.16	+0.02	SEC
49	0.48	+0.02	SEC
50	1.08	+0.02	SEC
51	1.18	+0.02	SEC
52	2.62	+0.02	SEC
53	2.52	+0.02	SEC
54	8.62	+0.02	SEC

**LEGEND**

- ⊙ = SWITCHGEAR DEVICE FUNCTION NUMBER ANSI SPEC C37.2
- RW = 1/20 WORTH MINIMIZER
- LP = LOCAL POWER RANGE MONITOR
- RPS = ROD POSITION INFORMATION SYSTEM
- IRMS = INTERMEDIATE RANGE MONITOR
- NMS = NEUTRON MONITORING SYSTEM
- APRM = AVERAGE POWER RANGE MONITOR
- RSM = ROD BLOCK MONITOR
- SRI = SELECT ROD INSERT
- SS = SOLID STATE

**NOTES:**

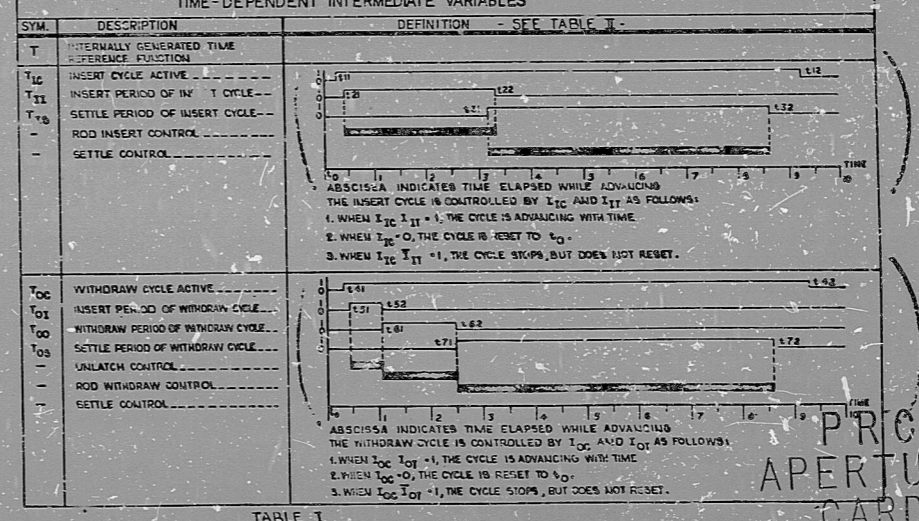
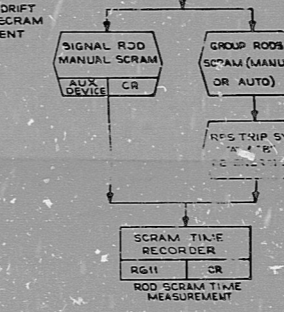
- EACH CONTROL ROD, AS IT TRAVELS UP (INSERTED) OR DOWN (WITHDRAWN) PASSES A NUMBER OF SWITCHES. THE TOP TWO POSITION SWITCHES ARE CALLED "OVERTRAVEL" AND THE BOTTOM TWO POSITION SWITCHES ARE CALLED "WITHDRAWN" (CHECKED AT PROBABILITY). SWITCHES IN BETWEEN ARE DIVIDED INTO "ODD (DRIFT)" AND "EVEN" (LATCH) POSITIONS. AS THE ROD TRAVELS OVER ANY SWITCH AN INDIVIDUAL SIGNAL IS ACTIVATED. ANY CYCLE SWITCH WILL INDICATE NUMERIC POSITION (0, 00, 000, ... 40) AND ANY ODD SWITCH WILL INDICATE "ODD".
- WIRING FROM HCU (SCRAM VALVES AND ACCUMULATOR) TO CONTROL ROOM FOR ANNUNCIATION SHALL BE IN SERIAL CONNECTION FOR ALL HCUs.
- WIRING FROM HCU (ROD SCRAM TEST SWITCH IN TEST POSITION AND DISPLAY OF THOSE CONTROL ROD CHANNELS FOR "SELECT" AND "ROD INSERT FUNCTION") SHALL BE IN SERIAL CONNECTION FOR ALL HCUs.
- EACH ACCUMULATOR FAILURE WILL INITIATE AN ANNUNCIATION (ANNUNCIATION HORN & FLASHING ANNUNCIATOR WINDOW) AND AN INDIVIDUAL FLASHING INDICATOR (PART OF THE WHOLE CORE DISPLAY). OPERATIONAL OF THE ACCUMULATOR TROUBLE ACKNOWLEDGE SWITCH WILL CLEAR THE INPUT TO THE ANNUNCIATOR AND CHANGE THE INDIVIDUAL INDICATOR FROM FLASHING TO STEADY. CLEARING THE ACCUMULATOR TROUBLE WILL CLEAR THE INDIVIDUAL INDICATOR.

**INSERT CYCLE**

- t<sub>11</sub> - t<sub>10</sub> = DELAY UNTIL ROD MOTION BEGINS
- t<sub>12</sub> - t<sub>11</sub> = DRIVE IN TIME
- t<sub>13</sub> - t<sub>12</sub> = SETTLE TIME
- t<sub>14</sub> < t<sub>13</sub> = TIME WHEN CONTINUOUS INSERT CAN BE REQ'D.
- t<sub>15</sub> < t<sub>14</sub> = CYCLE STOP POINT FOR CONTINUOUS INSERT.

**WITHDRAW CYCLE**

- t<sub>21</sub> - t<sub>20</sub> = DELAY UNTIL ROD MOTION BEGINS
- t<sub>22</sub> - t<sub>21</sub> = DRIVE IN TIME (LATCH)
- t<sub>23</sub> - t<sub>22</sub> = DELAY AFTER UNLATCH
- t<sub>24</sub> - t<sub>23</sub> = DRIVE OUT TIME
- t<sub>25</sub> - t<sub>24</sub> = SETTLE TIME
- t<sub>26</sub> < t<sub>25</sub> = TIME WHEN CONTINUOUS WITHDRAW CAN BE REQUESTED
- t<sub>27</sub> < t<sub>26</sub> = CYCLE STOP POINT FOR CONTINUOUS WITHDRAW



**PRC APERTURE CARD**

**DESIGNED DRAWING REVIEW**

COMMENTS CHECKED BELOW

A  No comments.

B  Comments as indicated, for NEED'S information and use only. No reply required.

C  Comments as indicated, when directly affecting product responsibility. Reply required if not incorporated by NED.

FORWARDED BY DATE  
Ron M... 1/14/68

RECORDED BY DATE  
M... 1/14/68

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