

P3K-AL-0366-A01  
CONT ON SHEET 2 SH NO. 1

TITLE  
TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
(REMOTE OPERATION CONTROL INTERFACE)  
FIRST MADE FOR EHC MARK II (PLANT COMMUNICATIONS)

REVISIONS

# I. SCOPE

This instruction outlines the specifications for testing the Plant Communications Logic board 1PC2-DO01.

CIRCUIT BOARD 118D1579 -- REMOTE OPERATION CONTROL INTERFACE

# II. CIRCUIT DESCRIPTION

1. When the power to the EHC control system is initially turned on, the unit will be in a TRIPPED condition with the circuit breaker open.

When the REMOTE OPERATION option is purchased by the customer this board is furnished to provide the interface input connections from the customer to EHC. All customer inputs to this board are 125 VDC and all outputs to EHC circuitry are 24 VDC.

2. The 125 VDC is furnished to the customer via this board when REMOTE OPERATION mode is selected at the EHC control panel.
3. The customer can revert the control back to the EHC (manual) via the GO MANUAL input line.

# III. CIRCUIT SPECIFICATIONS

1. This board contains only relays -- both 24 VDC and 125 VDC coil ratings.
2. All functional tests shown in the Logic Testing Table can be made with the board coated as well as uncoated.
3. The symbols used in the Logic Testing Table are as follows:

## TABLE SYMBOLS

0 = No voltage applied, or absence of voltage at output terminals and test points.

1 = Power applied to power input terminals, or presence of power at output terminals and test points.

J = Jumper the two terminals indicated.

Omission = No change from previous test condition.

4. Before applying power to the circuit board, perform the following continuity checks:

ACTIVE

FOR

BY

DATE

7/11/97

ET-273

273-2

273-12

273-138

273-71

PRINTS TO

MADE BY  
D. Mone Jan. 15, 1975  
ISSUED  
JAN 15 1975

APPROVALS

Steam Turbine

DIV OR

DEPT.

Schenectady, N.Y.

LOCATION

P3K-AL-0366-A01

CONT ON SHEET

2

SH NO.

1

|                 |  |                 |          |
|-----------------|--|-----------------|----------|
| REV. NO. 1      | TITLE  | CONT ON SHEET 3 | SH NO. 2 |
| P3K-AL-0366-A01 | TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC<br>(REMOTE OPERATION CONTROL INTERFACE) |                 |          |
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III. CIRCUIT SPECIFICATIONS (continued)

4. (continued)

CONTINUITY: Terminals 1 to 14 to 23 to 32

3 to 4

11-TP51

9 to 10

25 to 26

27 to 28

29 to 30

OPEN CIRCUIT: TP50 to 3

5

6

7

8

TP51 to 9

12

13

TP52 to 1

15

16

17

18

TP53 to 25

27

TP54 to 29

31

TP55 to 1

33

34

35

36

REVISIONS

PRINTS TO

|                                  |           |                   |              |                          |
|----------------------------------|-----------|-------------------|--------------|--------------------------|
| MADE BY<br>D. Mone Jan. 15, 1975 | APPROVALS | Steam Turbine     | DIV OR DEPT. | P3K-AL-0366-A01          |
| ISSUED<br>Jan 15 1975            |           | Schenectady, N.Y. | LOCATION     | CONT ON SHEET 3 SH NO. 2 |

REV NO. 0  
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TITLE  
TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
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REVISIONS

III. CIRCUIT SPECIFICATIONS (continued)

4. (continued)

OPEN CIRCUIT: (continued)

1 to 22

24

38

39

45 to 46

47 to 48

5. All relays have case grounds that are connected to terminal 19.

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CONT ON SHEET

4

SH NO.

3

REV NO. 0  
P3K-AL-0366-A01  
CONT ON SHEET 5 SH NO. 4

TITLE  
TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
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REMOTE OPERATION CONTROL INTERFACE LOGIC TESTING TABLE

(TEST IN SEQUENCE SHOWN)

REVISIONS

| Step No. | FUNCTION UNDER TEST | POWER INPUTS |             |                |              |          | JUMPER | POWER OUTPUTS |                                   |
|----------|---------------------|--------------|-------------|----------------|--------------|----------|--------|---------------|-----------------------------------|
|          |                     | +24 VDC      | 24 VDC Com. | RO mode select | 125 VDC Com. | +125 VDC |        | GO MANUAL     | CONTROL POWER AVAILABLE GO MANUAL |
|          |                     | 1            | 2           | 40             | 45           | 47       |        | 48<br>58      | 22 39                             |
| 1        | All power off       | 0            | 0           | 0              | 0            | 0        |        | 0             |                                   |
| 2        | 24 VDC power on     | 1            | 1           |                |              |          |        |               |                                   |
| 3        | 125 VDC power on    |              |             |                | 1            | 1        |        | 1             |                                   |
| 4        | Select RO mode      |              |             | 1              |              |          |        |               |                                   |
| 5        | Select GO MANUAL    |              |             |                |              |          | J      |               | 1                                 |
| 6        | Clear               |              |             | 0              |              |          | 0      |               | 0                                 |

Leave power as shown in step 6 and proceed to step 7. These conditions should hold their status quo for the remaining tests.

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1975 1 13 1975

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CONT ON SHEET 5

SH NO. 4

REV. NO. 1  
P3K-AL-0366-A01  
CONT ON SHEET 6 SH NO. 5

TITLE  
TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
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REVISIONS

SPEED CONTROL

|          |                     | POWER INPUTS                  |   |    |              |    |    |    |    |    |    |    |             |    |    |    |    |    |    |    | JUMPERS           |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |                 |    |    | POWER OUTPUTS |    |    |    |    |                  |    |    |    |    |    |    |    |                |    |    |    |    |    |    |    |                |    |    |    |    |    |    |    |                |    |    |    |    |    |    |    |                        |    |    |    |    |    |    |    |              |    |    |    |    |    |    |    |            |    |    |    |    |    |    |    |            |    |    |    |    |    |    |    |             |    |    |    |    |    |    |    |                         |    |    |    |    |    |    |    |           |    |    |    |    |    |    |    |           |    |    |    |    |    |    |    |           |    |    |    |    |   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-|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Step No. | FUNCTION UNDER TEST | System reset & Ckt. Ekr. Open |   |    | System reset |    |    |    |    |    |    |    | RO selected |    |    |    |    |    |    |    | Sel. close valves |    |    |    |    |    |    |    | Sel. med. speed |    |    |    |    |    |    |    | Sel. high speed |    |    |               |    |    |    |    | Sel. rated speed |    |    |    |    |    |    |    | Sel. slow rate |    |    |    |    |    |    |    | Sel. med. rate |    |    |    |    |    |    |    | Sel. fast rate |    |    |    |    |    |    |    | Manual mode speed sel. |    |    |    |    |    |    |    | Close valves |    |    |    |    |    |    |    | Med. speed |    |    |    |    |    |    |    | High speed |    |    |    |    |    |    |    | Rated speed |    |    |    |    |    |    |    | Manual mode. Accl. Rel. |    |    |    |    |    |    |    | Slow rate |    |    |    |    |    |    |    | Med. rate |    |    |    |    |    |    |    | Fast rate |    |    |    |    |    |    |    | TEST POINTS |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|          |                     | 3                             | 9 | 40 | 48           | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48          | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48                | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48              | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48              | 48 | 48 | 48            | 48 | 48 | 48 | 48 | 48               | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48             | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48             | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48             | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48                     | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48           | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48         | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48         | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48          | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48                      | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48        | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48        | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48        | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48          | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Leave power as shown in step 6 and proceed to step 18. These conditions should hold their status quo for the remaining tests.

PRINTS TO:

|                                  |           |                   |              |                          |
|----------------------------------|-----------|-------------------|--------------|--------------------------|
| MADE BY<br>D. Mone Jan. 15, 1975 | APPROVALS | Steam Turbine     | DIV OR DEPT. | P3K-AL-0366-A01          |
| ISSUED<br>JAN 15 1975            |           | Schenectady, N.Y. | LOCATION     | CONT ON SHEET 6 SH NO. 5 |

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P3K-AL-0366-A01

CONT ON SHEET

7

SH NO.

6

TITLE

TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
(REMOTE OPERATION CONTROL INTERFACE)

FIRST MADE FOR EHG MARK II (PLANT COMMUNICATIONS)

LOAD CONTROL

REVISIONS

| Step No. | FUNCTION UNDER TEST                 | POWER INPUTS   |                |             | JUMPERS   |          |              |              |                |               |                |
|----------|-------------------------------------|----------------|----------------|-------------|-----------|----------|--------------|--------------|----------------|---------------|----------------|
|          |                                     | Transfer to PA | Transfer to FA | RO selected | SPL "OFF" | SPL "ON" | SPL decrease | SPL increase | Transfer to PA | Transfer hold | Transfer to FA |
|          |                                     | 25             | 29             | 40          | 48<br>59  | 48<br>60 | 48<br>61     | 48<br>62     | 48<br>63       | 48<br>64      | 48<br>65       |
| 18       | As left from step 17                | 0              | 0              | 0           | 0         | 0        | 0            | 0            | 0              | 0             | 0              |
| 19       | Provide inputs                      | 1              | 1              |             |           |          |              |              |                |               |                |
| 20       | Select RO mode                      |                |                | 1           |           |          |              |              |                |               |                |
| 21       | Select steam pressure limiter "OFF" |                |                |             | J         |          |              |              |                |               |                |
| 22       | Select SPL "ON"                     |                |                |             | 0         | J        |              |              |                |               |                |
| 23       | Select SPL "DECREASE"               |                |                |             |           | 0        | J            |              |                |               |                |
| 24       | Select SPL "INCREASE"               |                |                |             |           |          | 0            | J            |                |               |                |
| 25       | Select transfer to PA               |                |                |             |           |          |              | 0            | J              |               |                |
| 26       | Select transfer to PA hold          |                |                |             |           |          |              |              |                | J             |                |
| 27       | Select transfer to FA               |                |                |             |           |          |              |              | 0              | 0             | J              |
| 28       | Clear                               | 0              | 0              | 0           |           |          |              |              |                |               | 0              |

(TABLE CONTINUED ON NEXT PAGE)

Leave power as shown in step 6 and proceed to step 29.  
These conditions should hold their status quo for the  
remaining tests.

PRINTS TO

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D.Mone Jan. 15, 1975

APPROVALS

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SH NO. 6

REV NO. 0

TITLE

P3K-AL-0366-A01

CONT ON SHEET 8 SH NO. 7

TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
(REMOTE OPERATION CONTROL INTERFACE)  
FIRST MADE FOR EHC MARK II (PLANT COMMUNICATIONS)

REVISIONS

LOAD CONTROL

| POWER OUTPUTS          |           |          |                |                |                        |                 |             |                 |                   |             |                 | TEST POINTS |      |      | Step No. |
|------------------------|-----------|----------|----------------|----------------|------------------------|-----------------|-------------|-----------------|-------------------|-------------|-----------------|-------------|------|------|----------|
| Manual mode SPL select | SPL "OFF" | SPL "ON" | SPL "DECREASE" | SPL "INCREASE" | Manual mode FA/PA rate | FA/PA fast rate | PA selected | RO trans. to PA | Trans. to PA hold | FA selected | RO trans. to FA | TP52        | TP53 | TP54 |          |
| 14                     | 15        | 16       | 17             | 18             | 23                     | 24              | 26          | 27              | 28                | 30          | 31              | 52          | 53   | 54   | 18       |
| 1                      | 0         | 0        | 0              | 0              | 1                      | 0               | 0           | 0               | 0                 | 0           | 0               | 0           | 0    | 0    | 19       |
|                        |           |          |                |                |                        |                 | 1           |                 |                   | 1           |                 |             |      |      | 20       |
| 0                      |           | .        |                |                | 0                      | 1               | 0           |                 |                   | 0           |                 | 1           | 1    | 1    | 21       |
|                        | 1         |          |                |                |                        |                 |             |                 |                   |             |                 |             |      |      | 22       |
|                        | 0         | 1        |                |                |                        |                 |             |                 |                   |             |                 |             |      |      | 23       |
|                        |           | 0        | 1              |                |                        |                 |             |                 |                   |             |                 |             |      |      | 24       |
|                        |           |          | 0              | 1              |                        |                 |             |                 |                   |             |                 |             |      |      | 25       |
|                        |           |          |                | 0              | 1                      |                 |             |                 | 1                 | 1           |                 |             |      |      | 26       |
|                        |           |          |                |                | 0                      |                 |             |                 |                   | 0           |                 |             |      |      | 27       |
|                        |           |          |                |                |                        |                 |             | 0               |                   |             | 1               |             |      |      | 28       |
| 1                      |           |          |                |                | 1                      | 0               |             |                 |                   |             | 0               | 0           | 0    | 0    |          |

PRINTS 10

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CONT ON SHEET 8

SH NO. 7

CODE IDENT NO

REV. NO.

TITLE

P3K-AL-0366-A01

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TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
(REMOTE OPERATION CONTROL INTERFACE)  
FIRST MADE FOR EHC MARK II (PLANT COMMUNICATIONS)

## TRIP AND MONITORING

REVISIONS

| Step NO. | FUNCTION UNDER TEST                          | JUMPERS     |             |                     |                           |                              |                       | POWER OUTPUTS |                            |                           |                              |                       |       | TEST POINT |              |    |
|----------|--|-------------|-------------|---------------------|---------------------------|------------------------------|-----------------------|---------------|----------------------------|---------------------------|------------------------------|-----------------------|-------|------------|--------------|----|
|          |  | RO selected | POWER INPUT | Select master reset | Start mech. O/S trip test | Start mech. trip piston test | Start elec. trip test | Reset         | Manual mode trip test sel. | Start mech. O/S trip test | Start mech. trip piston test | Start elec. trip test | Reset |            | Master reset |    |
|          |  | 40          |             | 48                  | 48                        | 48                           | 48                    | 48            |                            | 32                        | 33                           | 34                    | 35    | 36         | 38           | 55 |
| 29       | As left from step 28                         | 0           |             | 0                   | 0                         | 0                            | 0                     | 0             |                            | 1                         | 0                            | 0                     | 0     | 0          | 0            | 0  |
| 30       | Select RO mode                               | 1           |             |                     |                           |                              |                       |               |                            | 0                         |                              |                       |       |            |              | 1  |
| 31       | Start mechanical O/S test                    |             |             |                     | J                         |                              |                       |               |                            |                           | 1                            |                       |       |            |              |    |
| 32       | Start mechanical trip piston <sup>test</sup> |             |             |                     | 0                         | J                            |                       |               |                            |                           | 0                            | 1                     |       |            |              |    |
| 33       | Start electrical trip test                   |             |             |                     |                           | 0                            | J                     |               |                            |                           |                              | 0                     | 1     |            |              |    |
| 34       | Select test reset                            |             |             |                     |                           |                              | 0                     | J             |                            |                           |                              |                       | 0     | 1          |              |    |
| 35       | Select master reset                          |             |             |                     | J                         |                              |                       | 0             |                            |                           |                              |                       |       | 0          | 1            |    |
| 36       | Clear  | 0           |             | 0                   |                           |                              |                       |               |                            | 1                         |                              |                       |       |            | 0            | 0  |

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JAN 15 1975

APPROVALS

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LOCATION

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REV.  
NO. 0

TITLE

CONT ON SHEET

10

SH NO. 9

P3K-AL-0366-A01

TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
(REMOTE OPERATION CONTROL INTERFACE)  
FIRST MADE FOR EHC MKII (Plant Communications)

CONT ON SHEET

10

SH NO. 9

REVISION:

TEST INSTRUCTIONS 1PC2-DO01

Assembly 118D1579

Schematic 117D9807

PROCEDURE:

1. Connect the circuit under test as described in the setup instructions.
2. Test the logic circuitry using Table A.

PRINTS TO

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APPROVALS

Steam Turbine

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JAN 15 1975


Schenectady

LOCATION

CONT ON SHEET

10

SH NO. 9

|  |           |  |                            |           |
|--|-----------|--|----------------------------|-----------|
| REV. NO.   | TITLE     |  | CONT ON SHEET 11           | SH NO. 10 |
| P3K-AL-0366-A01  |           | TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC<br>(REMOTE OPERATION CONTROL INTERFACE) |                            |           |
| CONT ON SHEET 11   | SH NO. 10 | FIRST MADE FOR EHC MKII  |                            |           |
| <p><u>SETUP INSTRUCTIONS - FMCC 1PC2-DO01</u></p> <ol style="list-style-type: none"><li>1. The loads to be applied to the circuit under test are <u>+1%</u> tolerance.</li><li>2. Unless otherwise specified, all voltages to be applied and to be measured (signified by an "X" on the logic test table) are <u>+24.00VDC</u> (tolerance <u>+100MV</u>)</li><li>3. This circuit card has 76 pins total with 73 pin in use. The terminal board configuration is 2 - 22 pt. and 2 - 16 pt.</li><li>4. Connect pins 2 and 19 to ground.</li><li>5. Va = +62.5 VDC<br/>Vb = -62.5 VDC</li></ol> |           |  | REVISION                   |           |
|  |           |  |                            |           |
|  |           |  |                            |           |
|  |           |  |                            |           |
|  |           |  |                            |           |
|  |           |  |                            |           |
|  |           |  |                            |           |
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|  |           |  |                            |           |
| MADE BY D. Mone Jan. 15, 1975  |           |  | APPROVALS                  |           |
| ISSUED JAN 15 1975   |           |  | Steam Turbine DIV OR DEPT. |           |
|  |           |  | Schenectady LOCATION       |           |
|  |           |  | P3K-AL-0366-A01            |           |
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|  |           |  | PRINTS TO                  |           |

REV. 00

TITLE

CONT ON SHEET 12 SH NO. 11

P3K-AL-0366-A01

TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
(REMOTE OPERATION CONTROL INTERFACE)

CONT ON SHEET 12 SH NO. 11

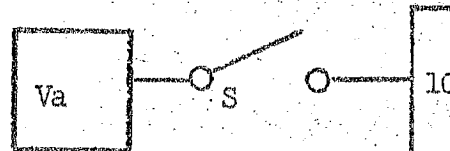
FIRST MADE FOR EHC MKII

INSTRUCTIONS FOR USE OF LOGIC TABLE

A. s 10 Va = set 10 to Va.

Close S to apply Va to Pin 10

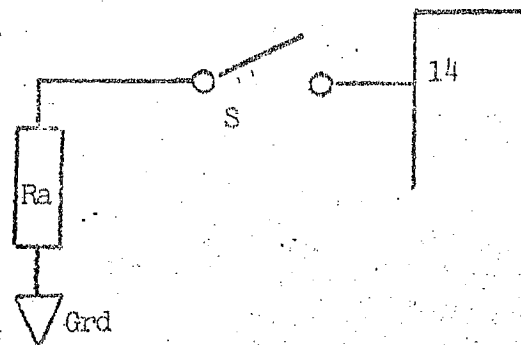
If Va is not specified, assume +24.0 VDC.



B. r 10 Va = reset 10 to Va

open S

C. s 14 Ra = set 14 to Ra



Close S to apply load Ra to Pin 14.

- D. An "X" in the logic table indicates a voltage measurement of +24.00VDC. A letter (ie "C") in the logic table indicates a voltage measurement, the voltage being equal to that specified by the subscript letter (ie "Vc"). A blank space indicates a 0 VDC measurement.
- E. The voltage at all pins and all test points will be measured at each step of the logic table.

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TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
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TABLE A

| PROCEDURE |                   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-----------|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|
| 1         | Initial Condition |   |   |   |   |   |   |   |   |   |    |    |    |
| 2         | s 1, s 45 Vb      | X |   |   |   |   |   |   |   |   |    |    |    |
| 3         | s 47 Va           | X |   |   |   |   |   |   |   |   |    |    |    |
| 4         | s 40              | X |   |   |   |   |   |   |   |   |    |    |    |
| 5         | s 58 Va           | X |   |   |   |   |   |   |   |   |    |    |    |
| 6         | r 58 Va, r 40     | X |   |   |   |   |   |   |   |   |    |    |    |
| 7         | s 3, s 9          | X | X | X | X |   |   |   |   | X | X  |    |    |
| 8         | s 40              | X | X | X |   |   |   |   |   | X | X  | X  |    |
| 9         | s 49 Va           | X | X | X |   | X |   |   |   | X | X  | X  |    |
| 10        | r 49 Va, s 50 Va  | X | X | X |   | X |   |   |   | X | X  | X  |    |
| 11        | r 50 Va, s 51 Va  | X | X | X |   |   | X |   |   | X | X  | X  |    |
| 12        | r 51 Va, s 52 Va  | X | X | X |   |   |   |   | X | X | X  |    |    |
| 13        | r 52 Va, s 53 Va  | X | X | X |   |   |   |   |   | X |    |    |    |
| 14        | r 53 Va, s 54 Va  | X | X | X |   |   |   |   |   | X | X  | X  |    |
| 15        | r 54 Va, s 55 Va  | X | X | X |   |   |   |   |   | X | X  | X  |    |
| 16        | r 55 Va           | X | X | X |   |   |   |   |   | X | X  | X  |    |

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|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|
| 32 |   | X | X |   |   | X | X |   |   |    |    |    |    |    |    |    |    |    |    |
| 31 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 30 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 29 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 28 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 27 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 26 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 25 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 24 |   |   |   |   | X | X |   |   | X | X  | X  | X  | X  | X  | X  | X  | X  | X  | X  |
| 23 |   | X | X |   |   | X | X |   |   |    |    |    |    |    |    |    |    |    |    |
| 22 |   |   | X | X | X | X | X | X | X | X  | X  | X  | X  | X  | X  | X  | X  | X  | X  |
| 21 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 20 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 19 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 18 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 17 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 16 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 15 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| 14 |   | X | X |   |   | X | X |   |   |    |    |    |    |    |    |    |    |    |    |
| 13 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    | X  |    |    |
|    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1  |    |    |    |    |    |    |    |    |    |    |    |    | B  |    |    |    |    |    |    |    |
| 2  |    |    |    |    |    |    |    |    |    |    |    |    | B  |    |    |    |    |    |    |    |
| 3  |    |    |    |    |    |    |    |    |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 4  |    |    |    |    |    |    |    | X  |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 5  |    |    |    |    |    |    | X  | X  |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 6  |    |    |    |    |    |    |    |    |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 7  |    |    |    |    |    |    |    |    |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 8  |    |    |    |    |    |    |    | X  |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 9  |    |    |    |    |    |    |    | X  |    |    |    |    | B  |    | A  |    | A  |    |    |    |
| 10 |    |    |    |    |    |    |    | X  |    |    |    |    | B  |    | A  |    | A  |    |    |    |
| 11 |    |    |    |    |    |    |    | X  |    |    |    |    | B  |    | A  |    |    | A  |    |    |
| 12 |    |    |    |    |    |    |    | X  |    |    |    |    | B  |    | A  |    |    |    | A  |    |
| 13 |    |    |    |    |    |    |    | X  |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 14 |    |    |    |    |    |    |    | X  |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 15 |    |    |    |    |    |    |    | X  |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 16 |    |    |    |    |    |    |    | X  |    |    |    |    | B  |    | A  |    |    |    |    |    |

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|    |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  | X                         | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 2  |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3  |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4  |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5  |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6  |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8  |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9  |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10 |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 11 |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12 |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 17 | r 40, r 9, r 3            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 18 | s 25, s 29                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 19 | s 40                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 20 | s 59 Va                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 21 | r 59 Va, s 60 Va          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 22 | r 60 Va, s 61 Va          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 23 | r 61 Va, s 62 Va          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 24 | r 62 Va, s 63 Va          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 25 | s 64 Va                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 26 | r 63 Va, r 64 Va, s 65 Va |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 27 | r 65 Va                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 28 | r 40, r 29, r 25          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 29 | s 40                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 30 | s 66 Va                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 31 | r 66 Va, s 67 Va          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 32 | r 67 Va, s 68 Va          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
| 17 |    |    |    |    |    |    |    |    |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 18 |    |    |    |    |    |    |    |    |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 19 |    |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 20 |    |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 21 |    |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 22 |    |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 23 |    |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 24 |    |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 25 |    |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 26 |    |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 27 |    |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 28 |    |    |    |    |    |    |    |    |    |    |    |    | B  |    | A  |    |    |    |    |    |
| 29 |    |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 30 | X  |    |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 31 |    | X  |    |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |
| 32 |    |    | X  |    |    |    |    | X  |    |    |    |    | B  | B  | A  | A  |    |    |    |    |

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## APPROVALS

## Steam Turbine

DIV OR  
DEPT.

Schneeflocken

LOCATION

P3K-AL-0366-A01

CONT ON SHEET

• **MRSA**

[illegible]

P3K-AL-0366-A01

CONT ON SHEET: 27 SK NO. 26

**TITLE**

TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC  
(REMOTE OPERATION CONTROL INTERFACE)

FIRST-MADE FOR

REVISIC

[illegible]

PRINTS

MADE BY  
D. Mone Jan. 15, 1975

ISSUED JAN 15 1975

## APPROVALS

## Steam Turbine

Schenectady

DIV OR  
DEPT.

P3K-AL-0366-A01.

LOCATION

CONT ON SHEET 27

424 110

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|--|--|---------------------------|-----------|
| P3K-AL-0366-A01<br>CONT ON SHEET — SH NO. 27 | TITLE<br>TEST INSTRUCTIONS FOR PLANT COMMUNICATIONS LOGIC<br>(REMOTE OPERATION CONTROL INTERFACE)<br>FIRST MADE FOR EHC MARK II (PLANT COMMUNICATIONS) | CONT ON SHEET — SH NO. 27 | SH NO. 27 |
|--|--|---------------------------|-----------|

REVISIONS

PREPARED BY George W. Kessler DATE 6/4/73  
 G.W. Kessler  
 EHC DESIGN ENGINEERING

APPROVED BY P.C. Callan DATE 1-13-75  
 P.C. Callan - MANAGER  
 EHC DESIGN ENGINEERING

TEST PROCEDURE  
 PREPARED BY Carl K. Bugg DATE 12/3/74  
 C. Bugg  
 EHC TEST ENGINEER

TEST PROCEDURE  
 APPROVED BY George W. Kessler DATE 1/6/75  
 G.W. Kessler  
 EHC DESIGN ENGINEERING

PRINTS IC

|   |           |                                    |                          |  |
|---|-----------|------------------------------------|--------------------------|--|
| MADE BY<br>J. Mone Jan. 15, 1975<br>ISSUED<br>JAN 15 1975 | APPROVALS | Steam Turbine<br>Schenectady, N.Y. | DIV OR DEPT.<br>LOCATION | P3K-AL-0366-A01<br>CONT ON SHEET — SH NO. 27 |
|---|-----------|------------------------------------|--------------------------|--|