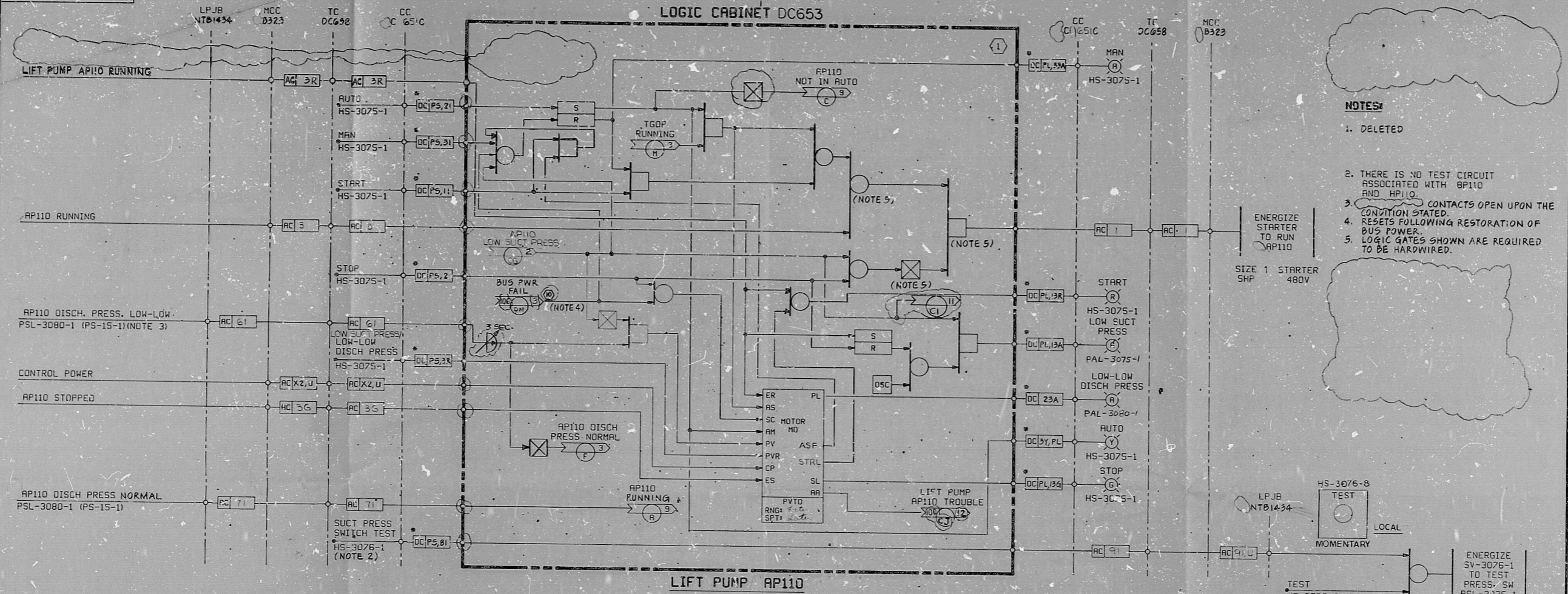


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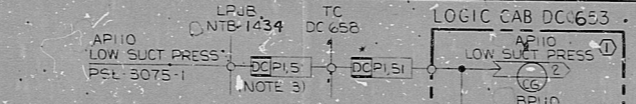
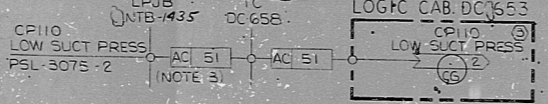


- NOTES:**
1. DELETED
 2. THERE IS NO TEST CIRCUIT ASSOCIATED WITH BP110 AND HP110
 3. CONTACTS OPEN UPON THE CONDITION STATED
 4. RESETS FOLLOWING RESTORATION OF BUS POWER.
 5. LOGIC GATES SHOWN ARE REQUIRED TO BE HARDWIRED.

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| PUMP | HAND SWITCH | BUS PWR FAIL | DISCH. PRESS | REMOTE TEST | TEST SOL-ENOID | SDT | TGDP | MCC | TC | LC | LPJB | CIRCUIT NO. | LOCAL TEST SWITCH | NON-CLASSIFIED DESIG. GEN. BUS |
|-------|-------------|--------------|--------------|-------------|----------------|-----------|---------------|------|--------|--------|----------|-------------|-------------------|--------------------------------|
| AP110 | HS-3075-1 | DN | PSL-3080-1 | HS-3076-1 | SV-3076-1 | TSH-7077A | ARROW M SHT 3 | B323 | DC 658 | DC 653 | NTB 1434 | 1 | HS-3076-2 | B |
| BP110 | HS-3075-2 | DD | PSL-3080-2 | NOTE 2 | NOTE 2 | TSH-7077B | ARROW N SHT 3 | | | | | 2 | HS-3076-3 | |
| CP110 | HS-3075-3 | DP | PSL-3080-3 | HS-3076-2 | SV-3076-2 | TSH-7078 | ARROW O SHT 3 | | | | | 3 | HS-3076-4 | |
| DP110 | HS-3075-4 | DP | PSL-3080-4 | HS-3076-3 | SV-3076-3 | TSH-7079 | ARROW P SHT 3 | | | | | 4 | HS-3076-10 | |
| EP110 | HS-3075-5 | DA | PSL-3080-5 | HS-3076-4 | SV-3076-4 | TSH-7080 | ARROW Q SHT 3 | | | | | 5 | HS-3076-11 | |
| FP110 | HS-3075-6 | DS | PSL-3080-6 | HS-3076-5 | SV-3076-5 | TSH-7081 | ARROW R SHT 3 | | | | | 6 | HS-3076-12 | |
| GP110 | HS-3075-7 | DT | PSL-3080-7 | HS-3076-6 | SV-3076-6 | TSH-7082A | ARROW S SHT 3 | | | | | 7 | HS-3076-13 | |
| HP110 | HS-3075-8 | DV | PSL-3080-8 | NOTE 2 | NOTE 2 | TSH-7082B | ARROW T SHT 3 | | | | | 8 | HS-3076-14 | |
| JP110 | HS-3075-9 | DY | PSL-3080-9 | HS-3076-7 | SV-3076-7 | TSH-7083 | ARROW U SHT 3 | | | | | 9 | HS-3076-14 | |

| | |
|---------------------------|---|
| LOW-LOW DISCH PRESS (A) | PAL-3080-1 |
| LOW SUCT PRESS (A) | PAL-3075-1 |
| SUCTION PRESS SW TEST (W) | HS-3076-1 COLOR SWITCH IS FOR NON-ILLUMINATED LENS CAP |
| MAN (A) | |
| AUTO (Y) | PART OF HS-3075-1 |
| AP110 START (A) | |
| STOP (G) | DC651C |



| PUMP | SUCT PRESS SW | LPJB | TC | LC | CKT. NO. |
|-------|---------------|------|--------|--------|----------|
| CP110 | PSL-3075-2 | 1435 | DC 658 | DC 653 | 3 |
| DP110 | PSL-3075-3 | 1436 | DC 658 | DC 653 | 4 |
| EP110 | PSL-3075-4 | 1437 | DC 658 | DC 653 | 5 |
| FP110 | PSL-3075-5 | 1438 | DC 658 | DC 653 | 6 |
| GP110 | PSL-3075-6 | 1439 | DC 658 | DC 653 | 7 |

| PUMPS | SUCT PRESS SW | LPJB | TC | LC | CKT. NO. |
|-------|---------------|----------|--------|--------|----------|
| AP110 | PSL-3075-1 | NTB 1434 | DC 658 | DC 653 | 1 |
| BP110 | PSL-3075-2 | NTB 1434 | DC 658 | DC 653 | 2 |
| CP110 | PSL-3075-3 | NTB 1434 | DC 658 | DC 653 | 3 |
| DP110 | PSL-3075-4 | NTB 1434 | DC 658 | DC 653 | 4 |
| EP110 | PSL-3075-5 | NTB 1434 | DC 658 | DC 653 | 5 |
| FP110 | PSL-3075-6 | NTB 1434 | DC 658 | DC 653 | 6 |
| GP110 | PSL-3075-7 | NTB 1434 | DC 658 | DC 653 | 7 |

REVISIONS

| NO. | DATE | REVISIONS | BY | CHKD | DESIGN | ENGR | INSTR | APP'D |
|-----|---------|---------------------------------------|----|------|--------|------|-------|-------|
| 1 | 9/21/78 | DESIGN FREEZE ISSUE | TP | 2.0 | SES | DM | GLE | |
| 2 | 11/1/78 | REVISED BAILEY INTERFACE AND AS NOTED | CH | JPB | DM | DM | DM | |
| 3 | 9/17/78 | REVISED AS NOTED | CH | JPB | DM | DM | DM | |
| 4 | 11/1/78 | REVISED AS NOTED | CH | JPB | DM | DM | DM | |
| 5 | 11/1/78 | REVISED AS NOTED | CH | JPB | DM | DM | DM | |
| 6 | 11/1/78 | REVISED AS NOTED | CH | JPB | DM | DM | DM | |
| 7 | 9/27/78 | ISSUED FOR CONSTRUCTION | CH | JPB | DM | DM | DM | |

BECHTEL
SAN FRANCISCO

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
HOPE CREEK GENERATING STATION

LOGIC DIAGRAM
LUBE OIL
LIFT PUMPS

SCALE: NONE DESIGNED: CHS DRAWN: REG

JOB No. 10655 DRAWING No. J-19-0 SHT 2 REV. 6

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