



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



Control and shut down Logic Block Diagram

Document No. 17735-32

| Project No. | Vendor Doc. | P.O. No. | Department | Document Type | Serial No | Revision | Page |
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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Control and shut down Logic Block Diagram (K020)**

| 06 | 06-08-2024 | Issued for Approval | S.K. | S.K. | J.J. |
|------|------------|---------------------|-------|---------|----------|
| 05 | 18-07-2024 | Issued for Approval | A.Z. | S.K. | J.J. |
| 04 | 05-07-2024 | Issued for Approval | A.Z. | S.K. | J.J. |
| 03 | 01-05-2024 | Issued for Approval | A.Z. | S.K. | J.J. |
| 02 | 09-04-2024 | Issued for Approval | A.Z. | S.K. | J.J. |
| 01 | 08-03-2024 | Issued for Approval | A.Z. | S.K. | J.J. |
| REV. | DATE | DESCRIPTION | DRAWN | CHECKED | APPROVED |

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Control and shut down Logic Block Diagram

Document No. 17735-32

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|-------------|-------------|----------|------------|---------------|-----------|----------|--------------|
| N278 | VD | 6019 | EL | DIA | 0049 | 06 | Page 2 of 19 |

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|-----------|----|----|----|----|----|----|----|----|----|----|-----------|----|----|----|----|----|------------|----|----|----|----|----|
| 1 | X | X | X | X | X | X | | | | | 51 | | | | | | 76 | | | | | |
| 2 | X | X | X | X | X | X | | | | | 52 | | | | | | 77 | | | | | |
| 3 | X | X | X | X | X | X | | | | | 53 | | | | | | 78 | | | | | |
| 4 | X | X | X | X | X | X | | | | | 54 | | | | | | 79 | | | | | |
| 5 | X | X | X | X | X | X | | | | | 55 | | | | | | 80 | | | | | |
| 6 | X | X | X | X | X | X | | | | | 56 | | | | | | 81 | | | | | |
| 7 | X | X | X | X | X | X | | | | | 57 | | | | | | 82 | | | | | |
| 8 | X | X | X | X | X | X | | | | | 58 | | | | | | 83 | | | | | |
| 9 | X | X | X | X | X | X | | | | | 59 | | | | | | 84 | | | | | |
| 10 | X | X | X | X | X | X | | | | | 60 | | | | | | 85 | | | | | |
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| 12 | X | X | X | X | X | X | | | | | 62 | | | | | | 87 | | | | | |
| 13 | X | X | X | X | X | X | | | | | 63 | | | | | | 88 | | | | | |
| 14 | X | X | X | X | X | X | | | | | 64 | | | | | | 89 | | | | | |
| 15 | X | X | X | X | X | X | | | | | 65 | | | | | | 90 | | | | | |
| 16 | X | X | X | X | X | X | | | | | 66 | | | | | | 91 | | | | | |
| 17 | X | X | X | X | X | X | | | | | 67 | | | | | | 92 | | | | | |
| 18 | X | X | X | X | X | X | | | | | 68 | | | | | | ATTACHMENT | | | | | |
| 19 | X | X | X | X | X | X | | | | | 69 | | | | | | 1 | | | | | |
| 20 | X | | | | | | | | | | 70 | | | | | | 2 | | | | | |
| 21 | | | | | | | | | | | 71 | | | | | | 3 | | | | | |
| 22 | | | | | | | | | | | 72 | | | | | | 4 | | | | | |
| 23 | | | | | | | | | | | 73 | | | | | | 5 | | | | | |
| 24 | | | | | | | | | | | 74 | | | | | | 6 | | | | | |
| 25 | | | | | | | | | | | 75 | | | | | | 7 | | | | | |

| SYMBOL | FUNCTION | DESCRIPTION |
|--------|-----------------------------------|---|
| | AND | OUTPUT D EXISTS ONLY IF AND WHILE INPUTS A,B AND C EXIST. |
| | OR | OUTPUT D EXISTS ONLY IF AND WHILE ONE OR MORE OF INPUTS A,B OR C EXIST. |
| | XOR | OUTPUT D EXISTS ONLY IF AND WHILE ONE OF INPUTS A,B OR C EXIST. |
| | NOT | OUTPUT B EXISTS ONLY IF AND WHILE INPUT A DOES NOT EXIST. |
| | COMPARE | COMPARE FUNCTION THAT COMPARES THE VALUES IN X AND Y, AND IF THE COMPARISON INDICATED BY "TYPE" IS TRUE, OUTPUT A EXISTS. VALID COMPARISONS ARE: GREATER THAN(>), LESS THAN(<), EQUAL TO(==), GREATER THAN OR EQUAL TO (>=) AND LESS THAN OR EQUAL TO (<=). |
| | MOVE | IF INPUT A EXISTS, THE VALUE X IS ASSIGNED TO THE VARIABLE AT THE OUTPUT Y. TYPE IS INCLUDED TO INDICATE THE TYPE OF VARIABLE. B TERMINATES IMMEDIATELY WHEN A TERMINATES. |
| | TIMER (DELAY INITIATION) | THE CONTINUOUS EXISTENCE OF INPUT A FOR TIME T CAUSES OUTPUT B TO EXIST WHEN THE TIME T EXPIRES. B TERMINATES IMMEDIATELY WHEN A TERMINATES. |
| | TIMER (DELAY TERMINATION) | THE EXISTENCE OF INPUT A CAUSES OUTPUT B TO EXIST IMMEDIATELY. B TERMINATES WHEN A HAS TERMINATED AND HAS NOT AGAIN EXISTED FOR TIME T. |
| | PULSE OUTPUT | THE EXISTENCE OF INPUT A CAUSES OUTPUT B TO EXIST IMMEDIATELY. B EXISTS FOR TIME T, REGARDLESS OF THE STATE OF A. |
| | FLIP-FLOP MEMORY (SET PRIORITY) | OUTPUT C EXISTS AS SOON AS A EXISTS. C CONTINUES TO EXIST, REGARDLESS OF THE SUBSEQUENT STATE OF A, UNTIL THE MEMORY IS RESET (I.E; TERMINATED BY B EXISTING) C REMAINS TERMINATED, REGARDLESS OF THE SUBSEQUENT STATE OF B, UNTIL A CAUSES THE MEMORY TO BE SET. IF A AND B EXIST SIMULTANEOUSLY, A OVERRIDES B. |
| | FLIP-FLOP MEMORY (RESET PRIORITY) | OUTPUT C EXISTS AS SOON AS A EXISTS. C CONTINUES TO EXIST, REGARDLESS OF THE SUBSEQUENT STATE OF A, UNTIL THE MEMORY IS RESET (I.E; TERMINATED BY B EXISTING) C REMAINS TERMINATED, REGARDLESS OF THE SUBSEQUENT STATE OF B, UNTIL A CAUSES THE MEMORY TO BE SET. IF A AND B EXIST SIMULTANEOUSLY, B OVERRIDES A. |
| | RISING TRIGGER | THE EXISTENCE OF INPUT A CAUSES OUTPUT B TO EXIST IMMEDIATELY, AND FALL AWAY ON THE NEXT INSTRUCTION CYCLE. |
| | | LOGIC CONNECTION, BRANCH |
| | | NO CONNECTION, JUMP |
| | | MODBUS CONNECTION |

| SYMBOL | DESCRIPTION |
|--------|---|
| | EMERGENCY PUSHBUTTON, RED HEAD, STAY PUT. |
| | TWO WAY SWITCH |
| | THREE WAY SWITCH |
| | PUSHBUTTON MOMENTARILY MAKE |
| | PUSHBUTTON MOMENTARILY BREAK |
| | CONTACT NORMALLY OPEN |
| | CONTACT NORMALLY CLOSED |
| | HARDWIRED INPUT/OUTPUT |
| | SOLENOID VALVE, 3-WAY |
| | DCS CONTROL SYSTEM |
| | PLC CONTROL SYSTEM |
| | DCS AUXILIARY CONSOLE |
| | LAMP |
| | HMI |
| | AUDIBLE ALARM |
| | RELAY COIL |

GENERAL NOTES

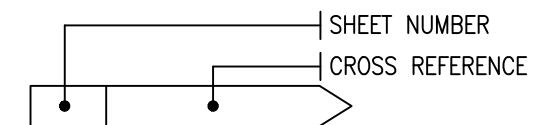
- THIS LOGIC DIAGRAM PROVIDES THE DETAILED OPERATION OF COMPRESSOR K020.
- SHUTDOWN CONDITION ;
0 = SHUTDOWN 1 = OPERATING
- ALARM/TRIP CONDITION ;
0 = ALARM 1=NORMAL
0 = TRIP 1=NORMAL

ABBREVIATIONS

DCS : DISTRIBUTED CONTROL SYSTEM
MCC : MOTOR CONTROL CENTER
LPS : LOCAL PANEL STATION
I/P : HARDWIRED INPUT
O/P : HARDWIRED OUTPUT

DEFINITION

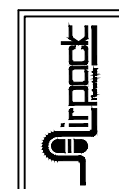
- AVAILABLE: COMPRESSOR READY TO START.
- RUNNING: PACKAGE RUNNING.
- LOGIC CONTINUATION FROM/TO OTHER SHEET



REFERENCE DOCUMENTS

- Piping & Instrument Diagram
- Cause & Effect Chart
- Control philosophy and Interlock Description
- I/O List

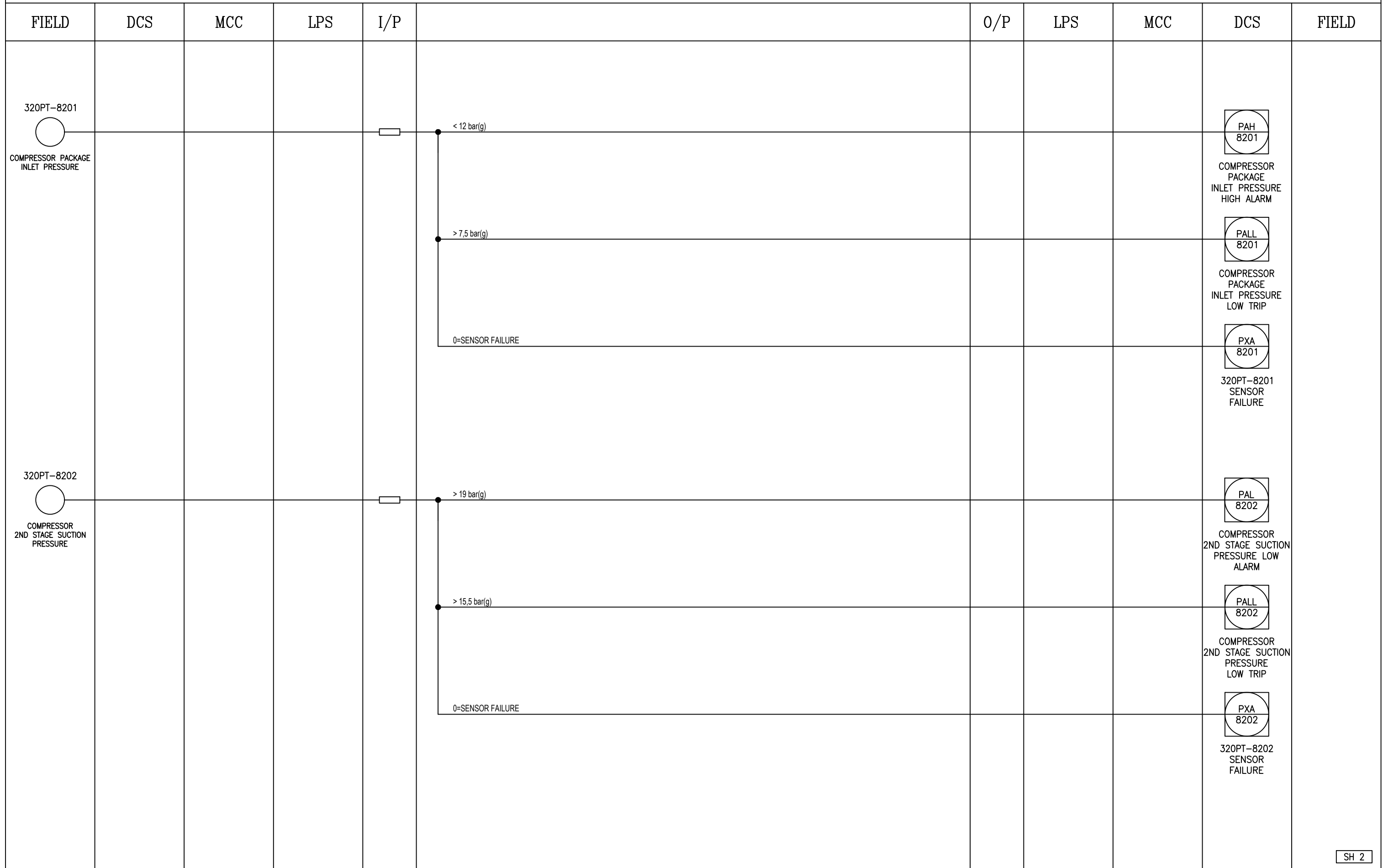
SH 1



| | | | | | | |
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| SUBJECT | LOGIC DIAGRAM | | DATE | 08-03-2024 | | |
| | HIGH PRESSURE AIR COMPRESSOR K020 | | DRAWN BY | AZ | | |
| CLIENT | Lavan Industry Development Company | | CHECKED BY | SK | | |
| | CLIENT REF | N-278-VD-6019-EL-DIA-0049 | PLANT LOCATION | IRAN, ONSHORE | | |
| AIRPACK REF | 17735-COM | | DRAWING NO. | 17735-32 | | |
| | | | SHEET NO. | 01 / 17 | | |

| | | | |
|--|----|------------|----|
| THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION | 06 | 06-08-2024 | SK |
| | 05 | 18-07-2024 | AZ |
| | 04 | 04-07-2024 | AZ |
| | 03 | 01-05-2024 | AZ |
| | 02 | 09-04-2024 | AZ |
| | 01 | 08-03-2024 | AZ |

LOGIC DIAGRAM



SH 2

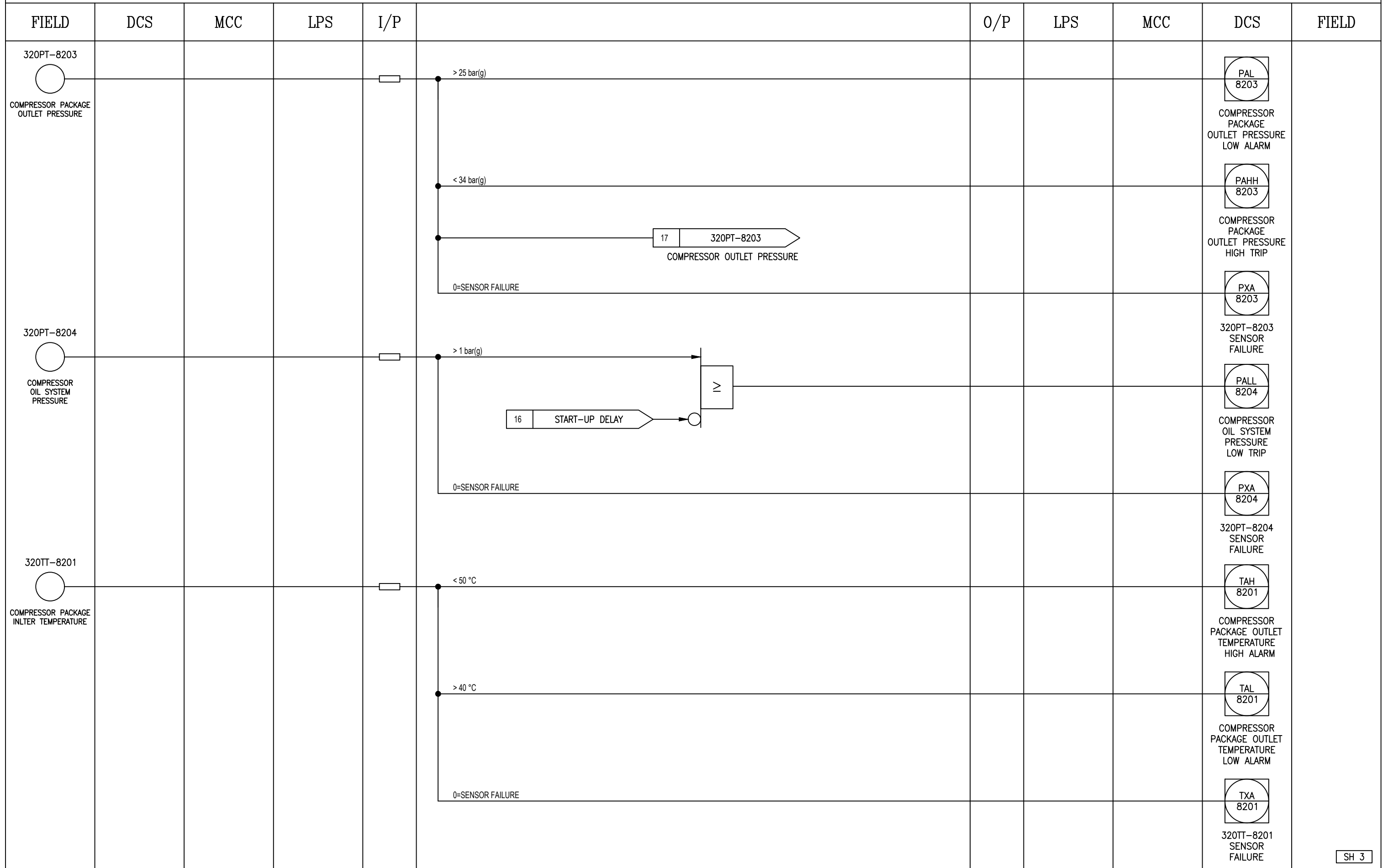
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| CLIENT | | Lavan Industry Development Company | | DRAWN BY | AZ | | 06 | 06-08-2024 | SK |
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LOGIC DIAGRAM



SH 3

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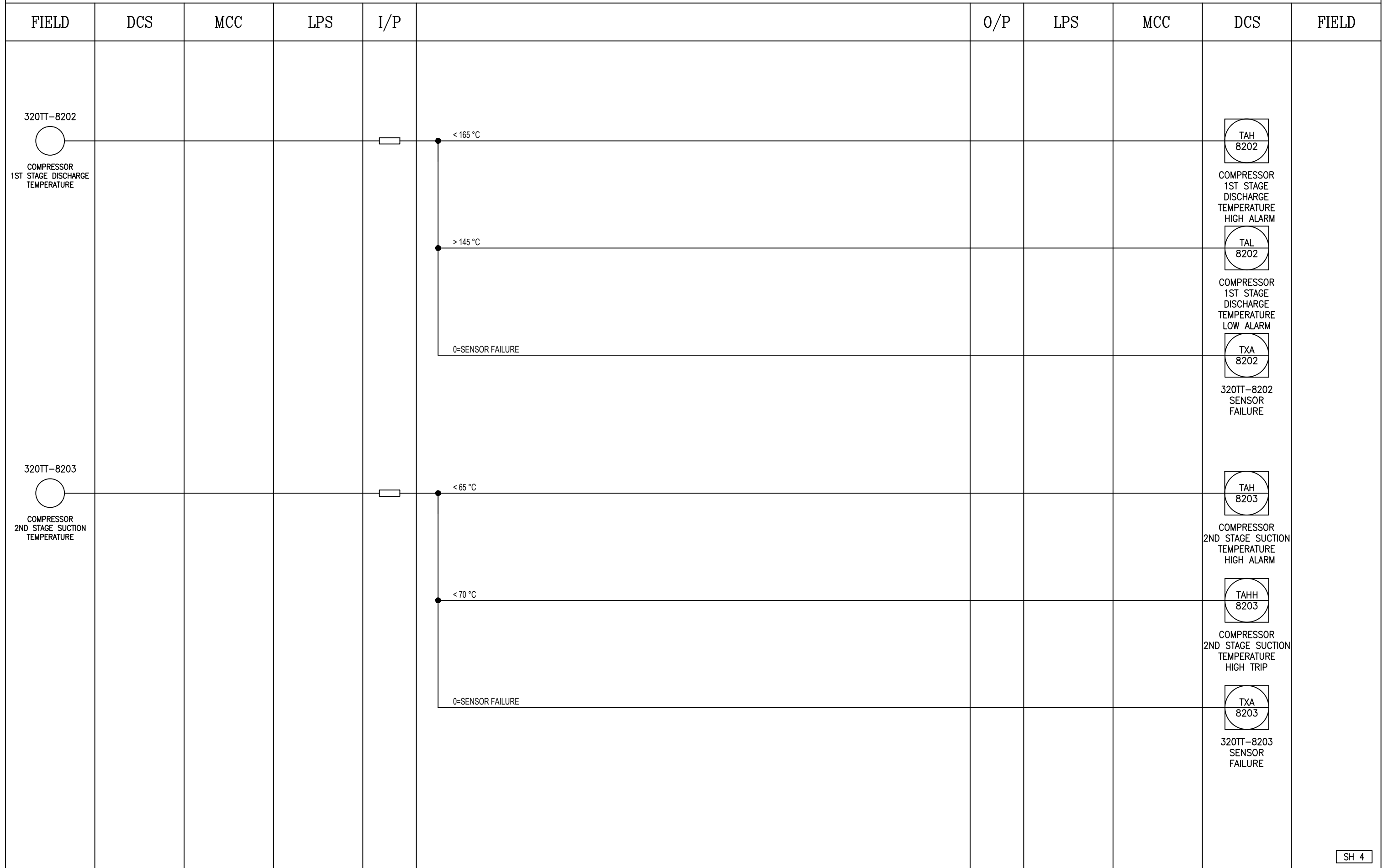


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THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION

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| 05 | 18-07-2024 | AZ |
| 04 | 04-07-2024 | AZ |
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| 01 | 08-03-2024 | AZ |

LOGIC DIAGRAM



SH 4

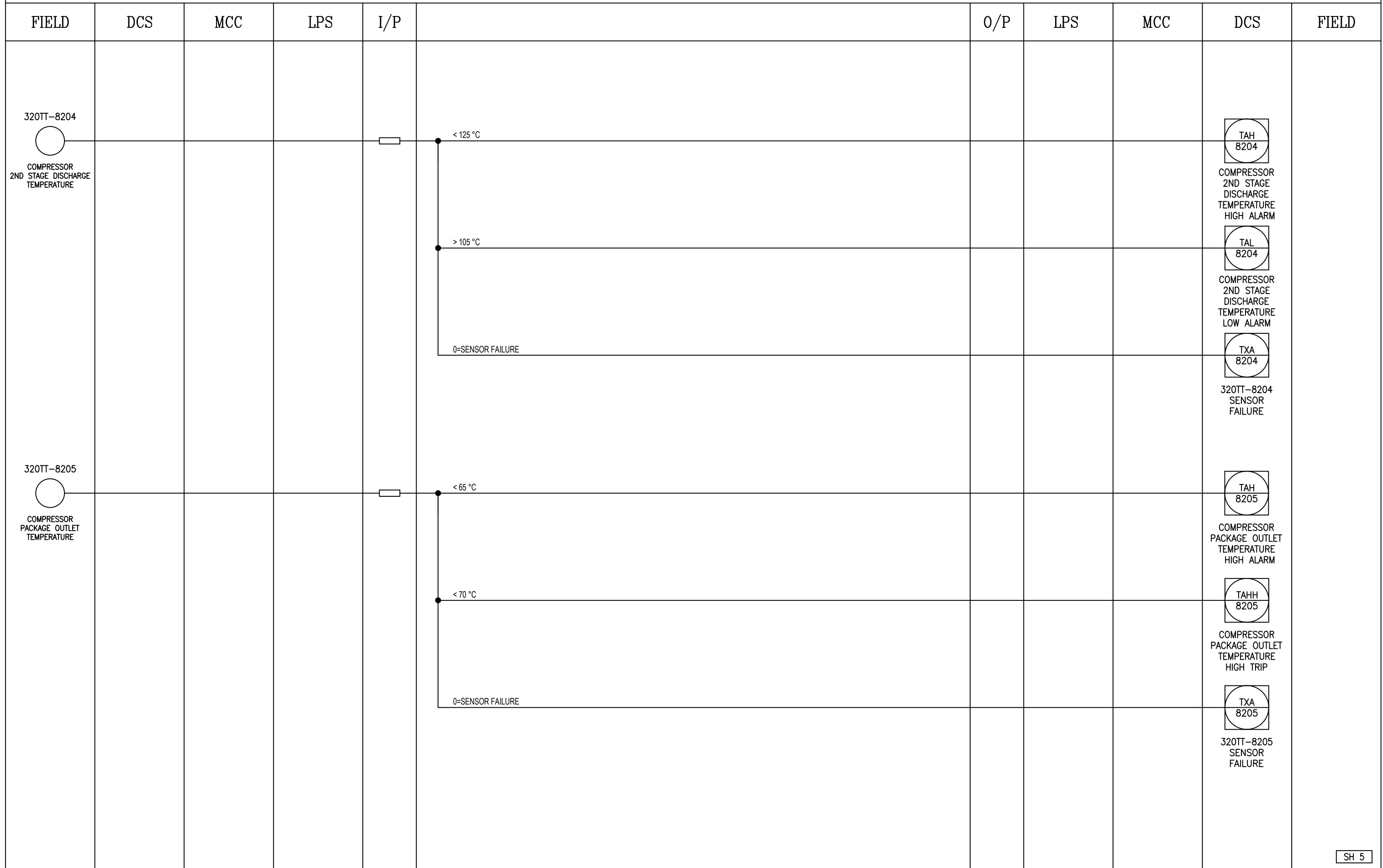
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LOGIC DIAGRAM



SH 5

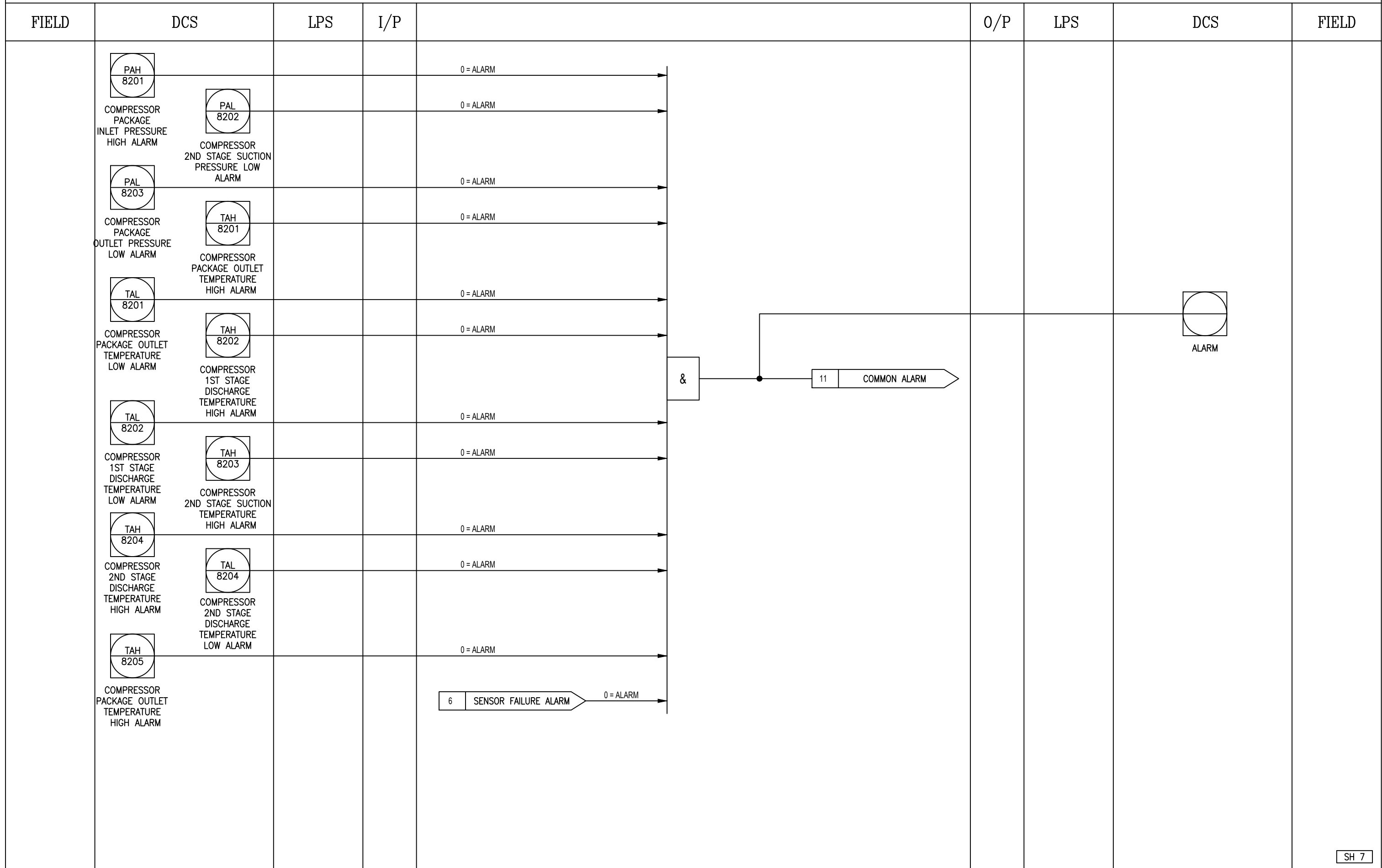
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| CLIENT | Lavan Industry Development Company | PLANT LOCATION | IRAN, ONSHORE | DRAWING NO. | 17735-32 | | 05 | 18-07-2024 | AZ |
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LOGIC DIAGRAM



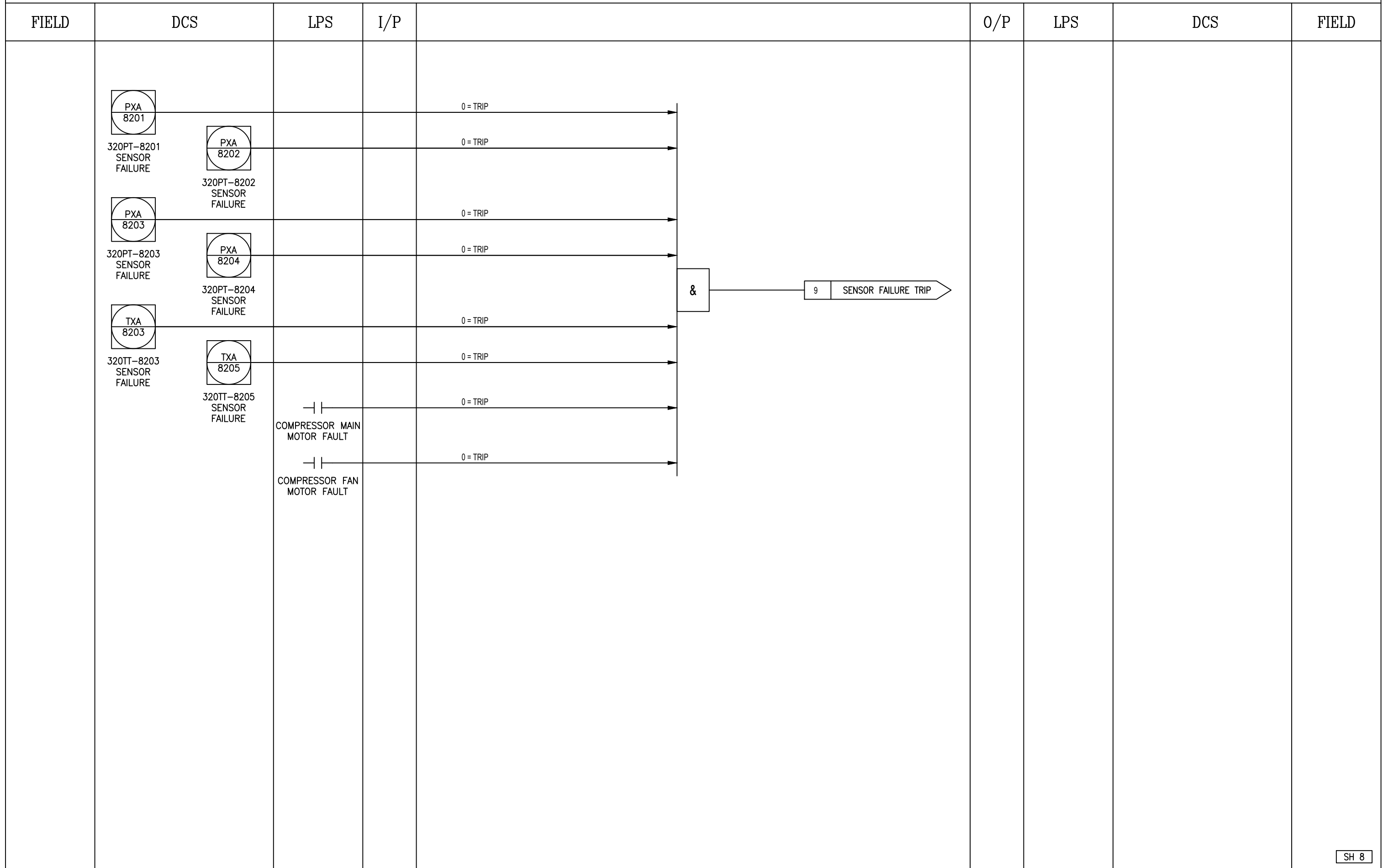
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LOGIC DIAGRAM



SH 8

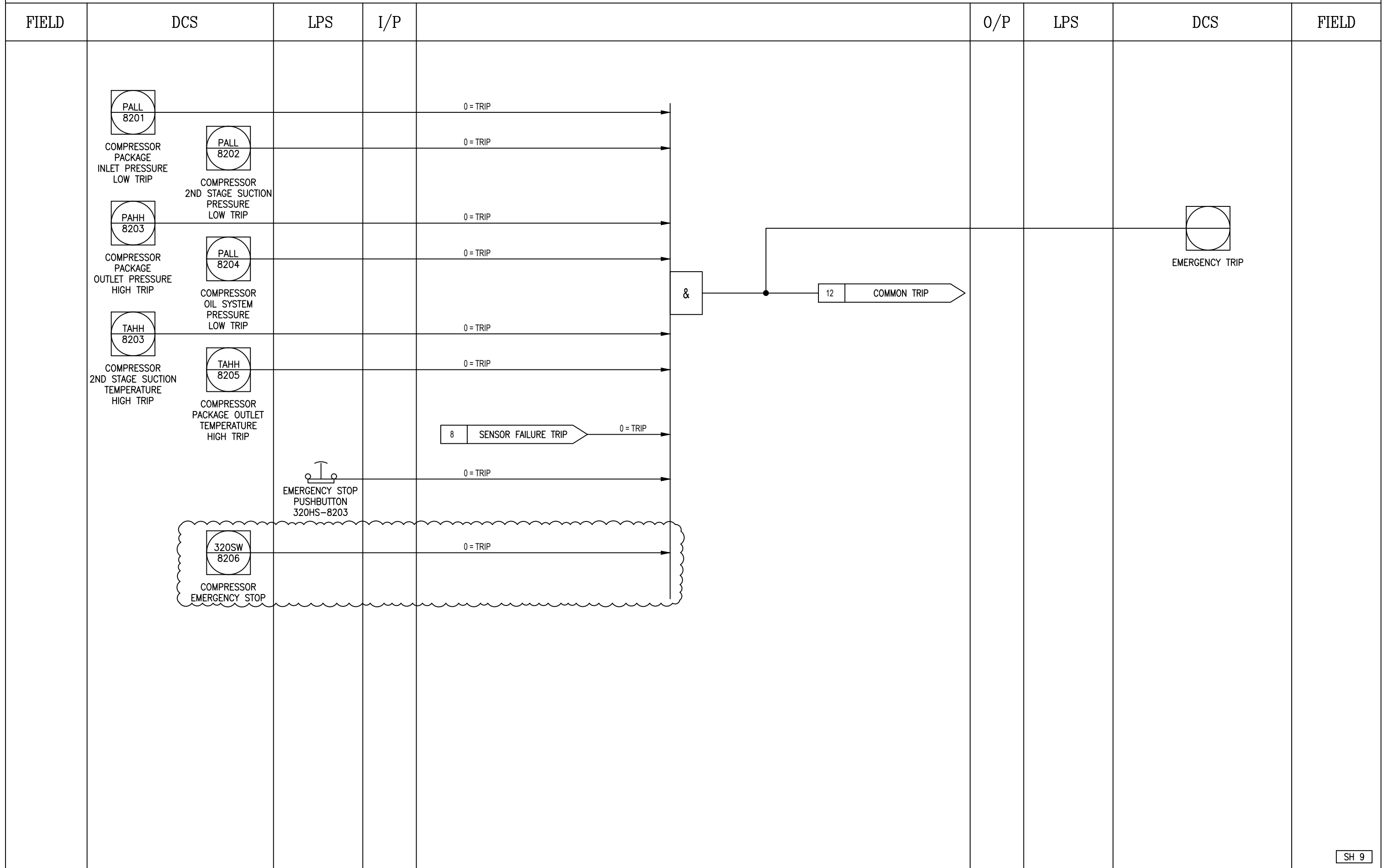
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LOGIC DIAGRAM



SH 9

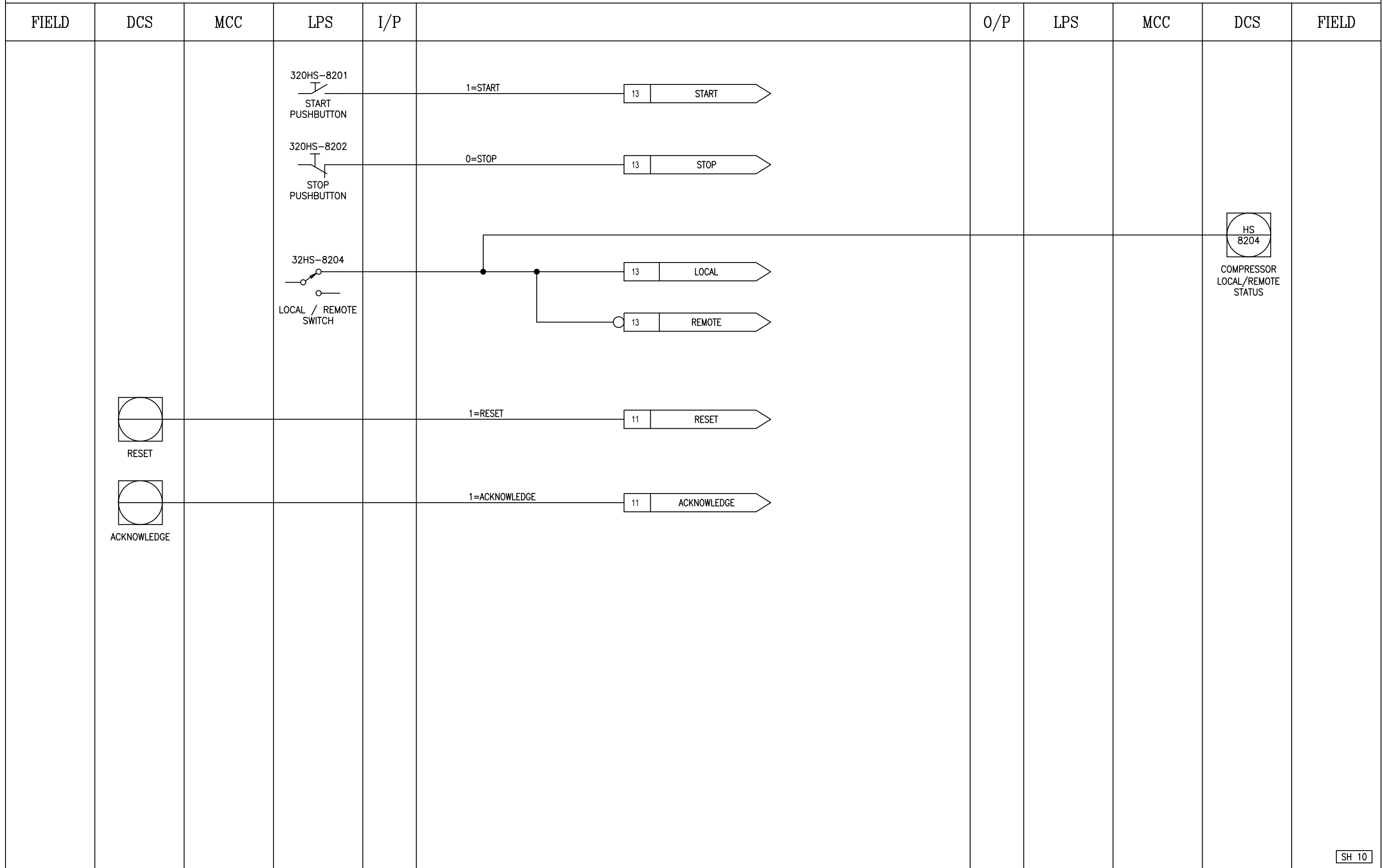
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LOGIC DIAGRAM



SH 10

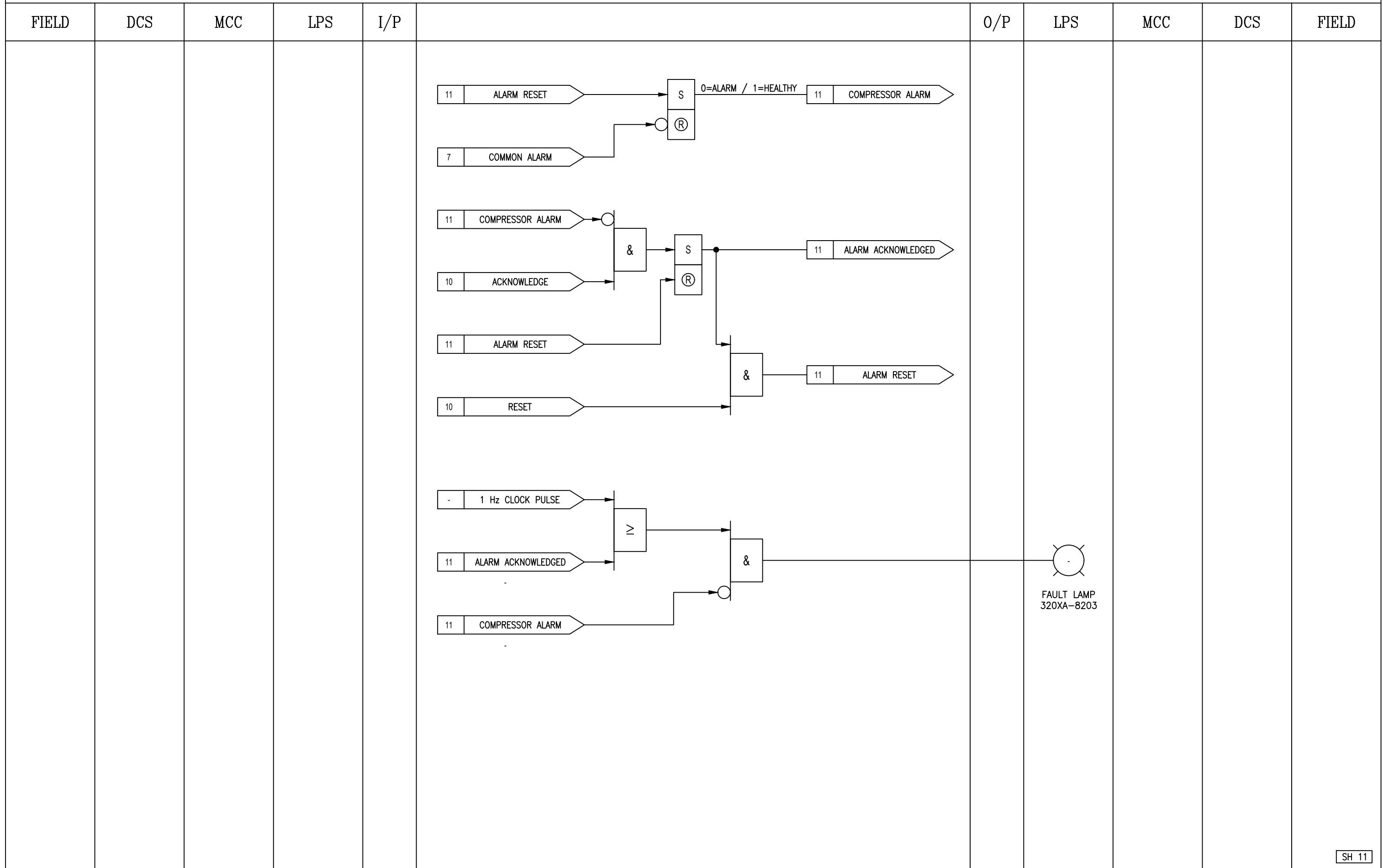
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| CLIENT | Lavan Industry Development Company | PLANT LOCATION | IRAN, ONSHORE | THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION | |
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LOGIC DIAGRAM



SH 11

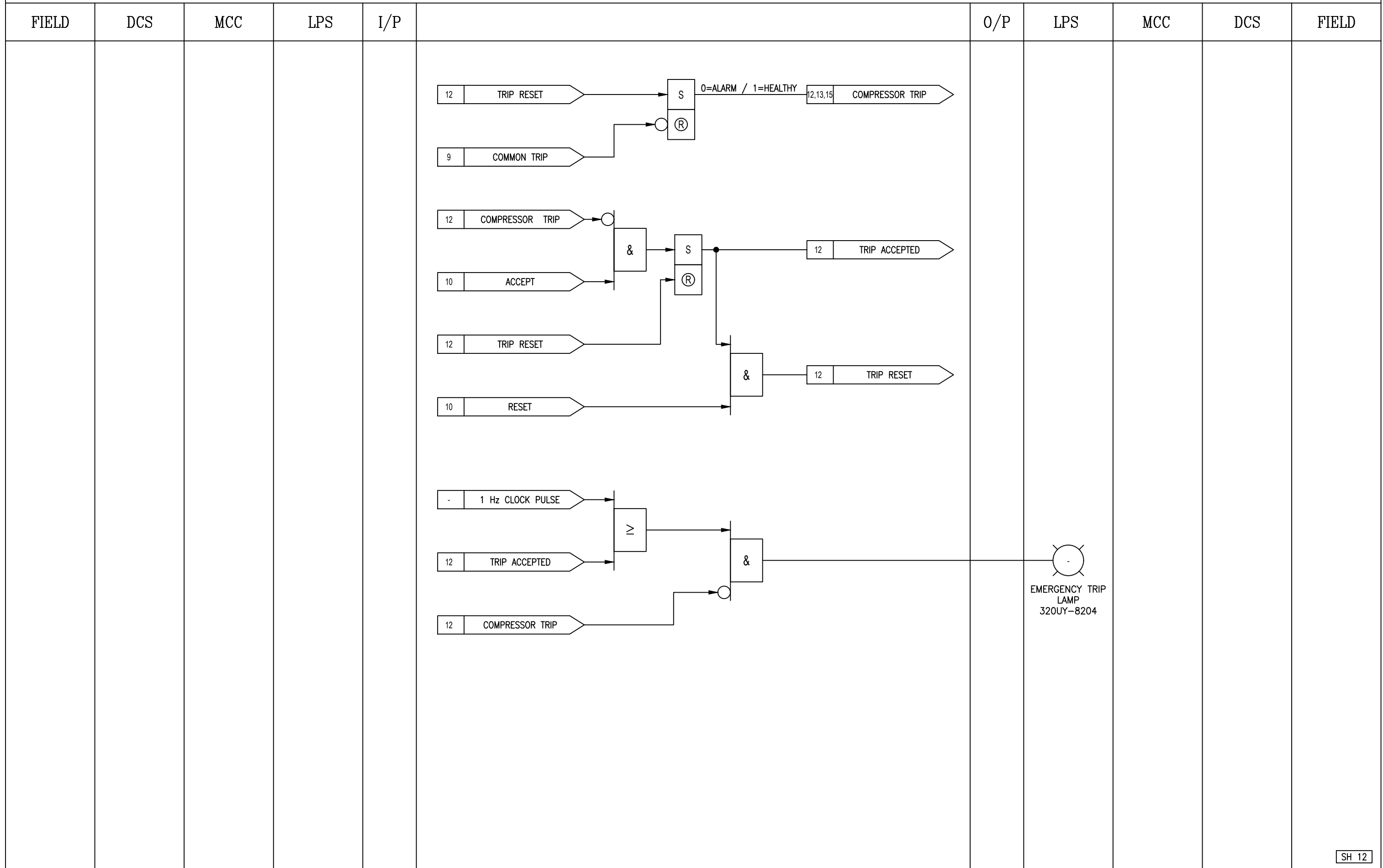
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| CLIENT | Lavan Industry Development Company | CHECKED BY | SK | | 05 | 18-07-2024 | AZ |
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LOGIC DIAGRAM



SH 12

NOTES:

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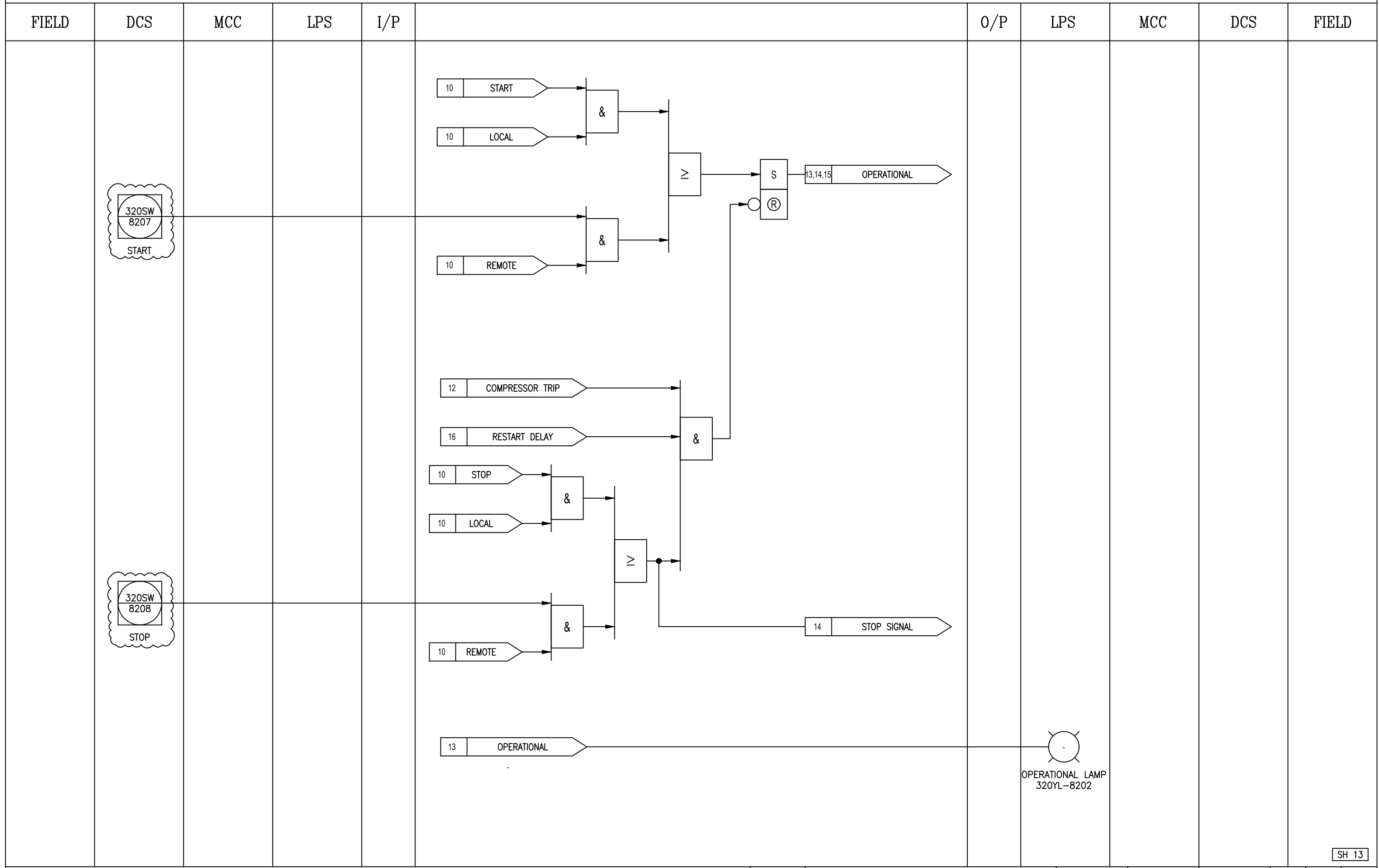


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| CLIENT | Lavan Industry Development Company | | | PLANT LOCATION | IRAN, ONSHORE |
| CLIENT REF | N-278-VD-6019-EL-DIA-0049 | | | DRAWING NO. | 17735-32 |
| AIRPACK REF | 17735-COM | | | SHEET NO. | 12 / 17 |

THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION

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| 04 | 04-07-2024 | AZ |
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| 02 | 09-04-2024 | AZ |
| 01 | 08-03-2024 | AZ |

LOGIC DIAGRAM



SH 13

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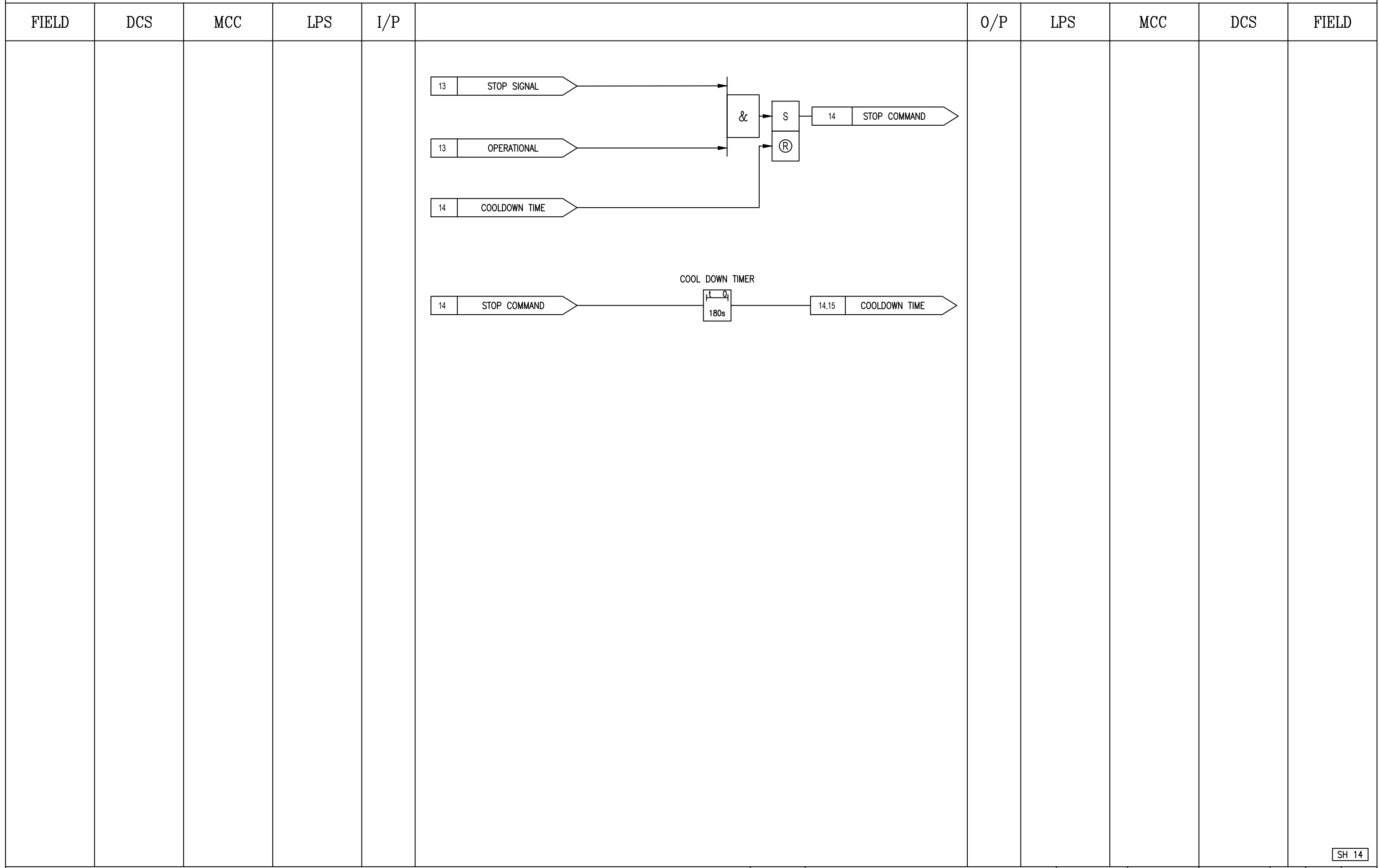
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| CLIENT REF | N-278-VD-6019-EL-DIA-0049 | DRAWN BY | AZ |
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| | | PLANT LOCATION | IRAN, ONSHORE |
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| | | SHEET NO. | 13 / 17 |

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| 04 | 04-07-2024 | AZ | |
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LOGIC DIAGRAM



SH 14

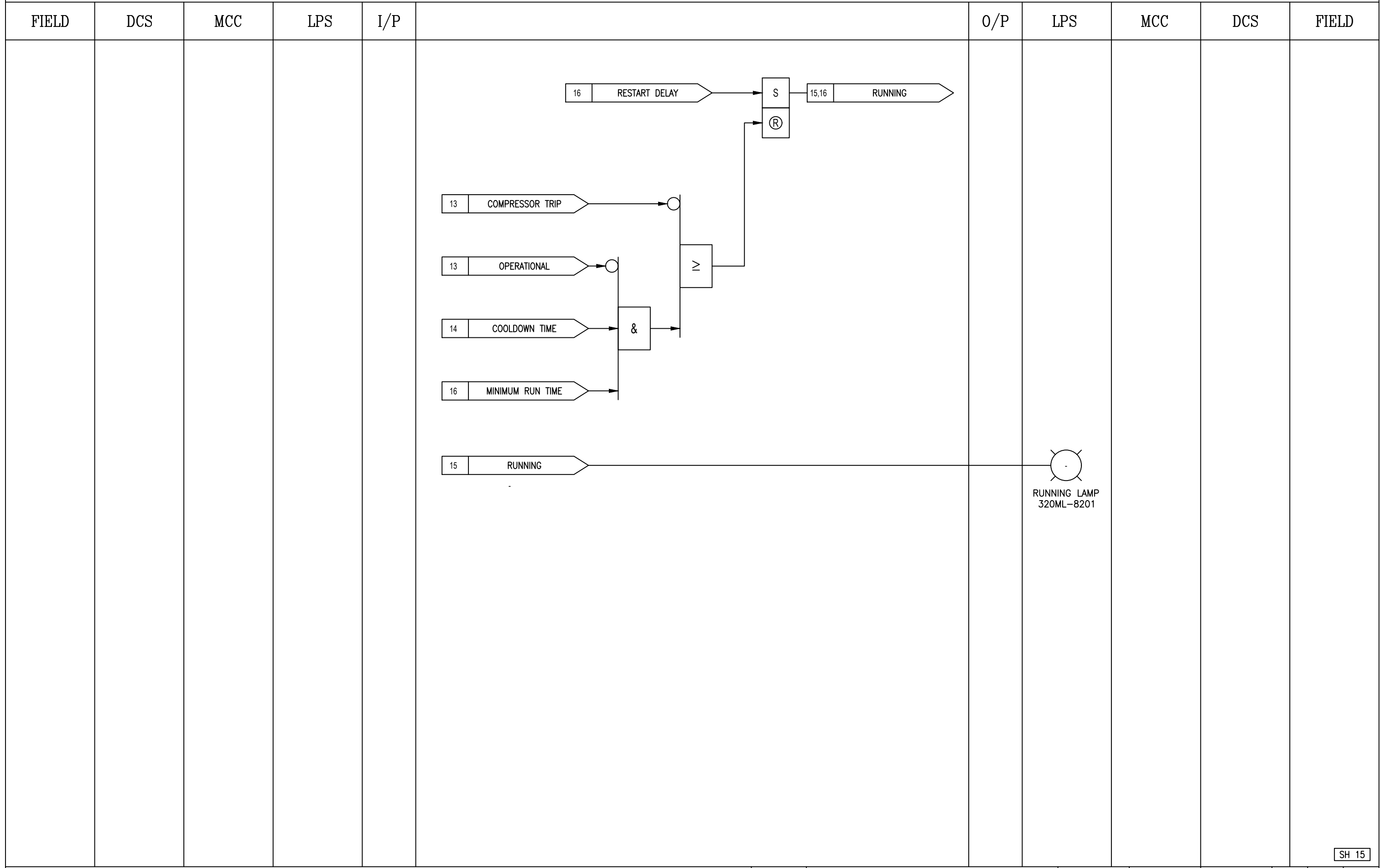
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| | | DRAWN BY | AZ | | 06 | 06-08-2024 | SK |
| CHECKED BY | SK | 05 | 18-07-2024 | | AZ | | |
| CLIENT | Lavan Industry Development Company | 04 | 04-07-2024 | | AZ | | |
| CLIENT REF | N-278-VD-6019-EL-DIA-0049 | 03 | 01-05-2024 | | AZ | | |
| AIRPACK REF | 17735-COM | 02 | 09-04-2024 | | AZ | | |
| | | 01 | 08-03-2024 | | AZ | | |
| | | | | | | | |

LOGIC DIAGRAM



SH 15

NOTES:

1. -

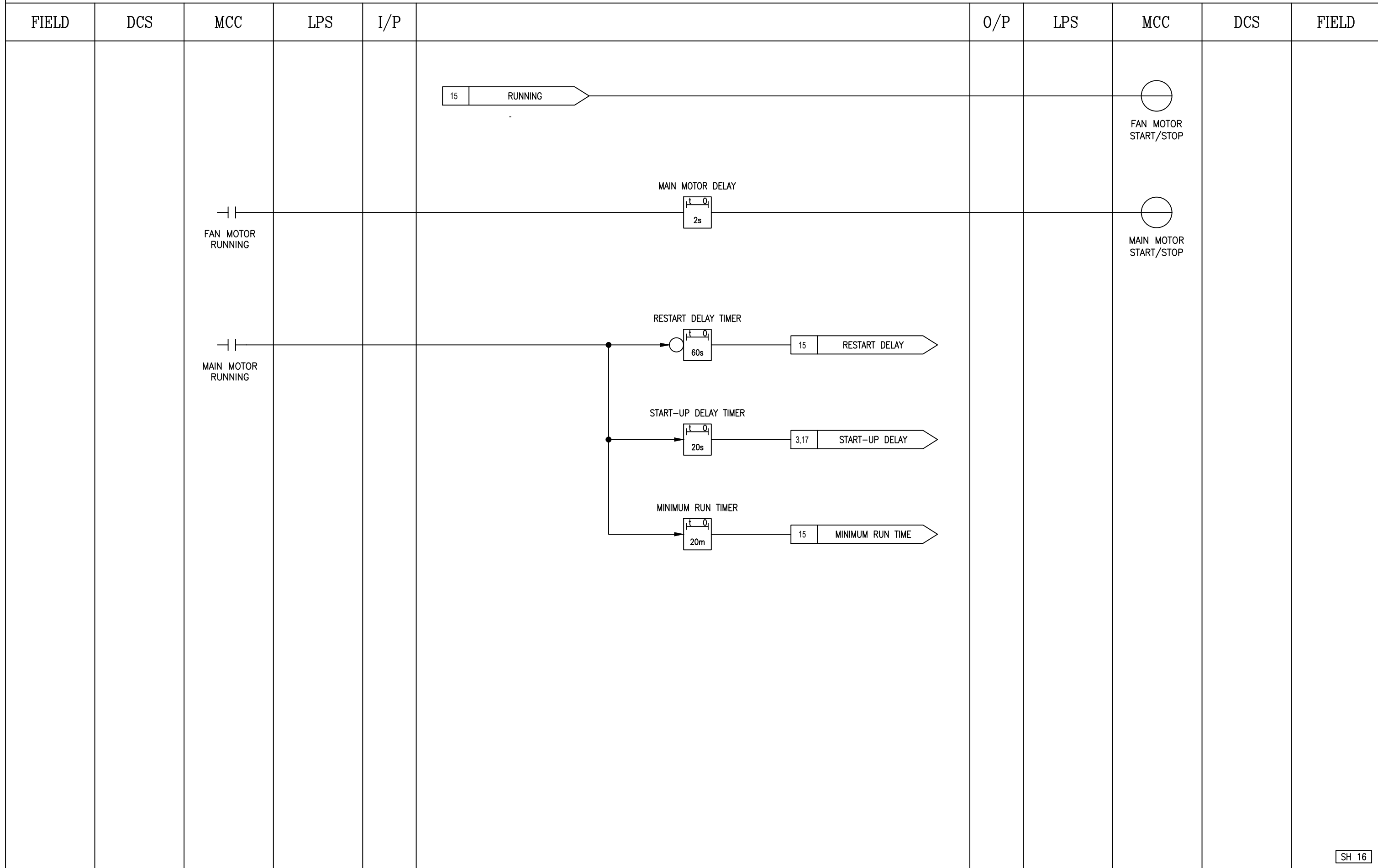


| | | | | | |
|-------------|--|---|--|----------------|---------------|
| SUBJECT | | LOGIC DIAGRAM HIGH PRESSURE AIR COMPRESSOR K020 | | DATE | 08-03-2024 |
| CLIENT | | Lavan Industry Development Company | | DRAWN BY | AZ |
| CLIENT REF | | N-278-VD-6019-EL-DIA-0049 | | CHECKED BY | SK |
| AIRPACK REF | | 17735-COM | | PLANT LOCATION | IRAN, ONSHORE |
| | | | | DRAWING NO. | 17735-32 |
| | | | | SHEET NO. | 15 / 17 |

THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION

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|--|----|------------|----|
| | 06 | 06-08-2024 | SK |
| | 05 | 18-07-2024 | AZ |
| | 04 | 04-07-2024 | AZ |
| | 03 | 01-05-2024 | AZ |
| | 02 | 09-04-2024 | AZ |
| | 01 | 08-03-2024 | AZ |

LOGIC DIAGRAM



SH 16

NOTES:

1. -



| | | | |
|-------------|------------------------------------|---|---------------|
| SUBJECT | | LOGIC DIAGRAM HIGH PRESSURE AIR COMPRESSOR K020 | |
| CLIENT | Lavan Industry Development Company | DATE | 08-03-2024 |
| CLIENT REF | N-278-VD-6019-EL-DIA-0049 | DRAWN BY | AZ |
| AIRPACK REF | 17735-COM | CHECKED BY | SK |
| | | PLANT LOCATION | IRAN, ONSHORE |
| | | DRAWING NO. | 17735-32 |
| | | SHEET NO. | 16 / 17 |

| | | | | | | |
|--|--|--|--|----|------------|----|
| THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION | | | | | | |
| | | | | 06 | 06-08-2024 | SK |
| | | | | 05 | 18-07-2024 | AZ |
| | | | | 04 | 04-07-2024 | AZ |
| | | | | 03 | 01-05-2024 | AZ |
| | | | | 02 | 09-04-2024 | AZ |
| | | | | 01 | 08-03-2024 | AZ |

LOGIC DIAGRAM

