

OWNER:



**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**

EPC CONTRACTOR:



MC:



شرکت سفت و سوی
توسعه ایران‌گاز

**Logic diagrams – program of UCP-
compressor shutdown logic drawing for
reciprocating compressor**






Owner Document Number: 17811-32	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
	Rev.:	Page							
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نقشه ها باید مطابق با تایتل
بلاک پروژه باشد

**Logic diagrams – program of UCP-compressor shutdown logic
drawing for reciprocating compressor**

00	24/11/2020	For Approval		TJ	RB	KP	
Rev.	Date	Purpose of Issue		Prepared	Checked	Approved	AC Code
				Class: 1	Phase: 1p		

OWNER  شرکت پتروشیمی بوتهر	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR: 	
	Logic diagrams – program of UCP- compressor shutdown logic drawing for reciprocating compressor								
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								00	2 of 14

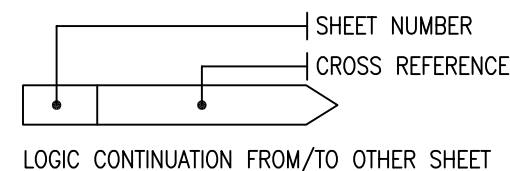
TABULATION OF REVISED PAGES

Page	D00	D01	D02	D03	D04
1.	X				
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4.	X				
5.	X				
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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.
	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.
		LOGIC CONNECTION
		NO CONNECTION
		SERIAL LINK / FOUNDATION FIELDBUS PROTOCOL

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



ABBREVIATIONS

DCS : DISTRIBUTED CONTROL SYSTEM
 UCP : UNIT CONTROL PANEL
 LCP : LOCAL CONTROL PANEL
 PLC : PROGRAMMABLE LOGIC CONTROLLER
 I/P : INPUT
 O/P : OUTPUT
 ESD : EMERGENCY SHUTDOWN
 MCC : MOTOR CONTROL CENTRE

GENERAL NOTES

- SHUTDOWN CONDITION ;
0 = SHUTDOWN 1 = OPERATING
- ALARM/TRIP CONDITION ;
0 = ALARM 1=NORMAL
0 = TRIP 1=NORMAL
- REMOTE/LOCAL CONDITION ;
0 = LOCAL 1=REMOTE

DEFINITION

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-

SH 1

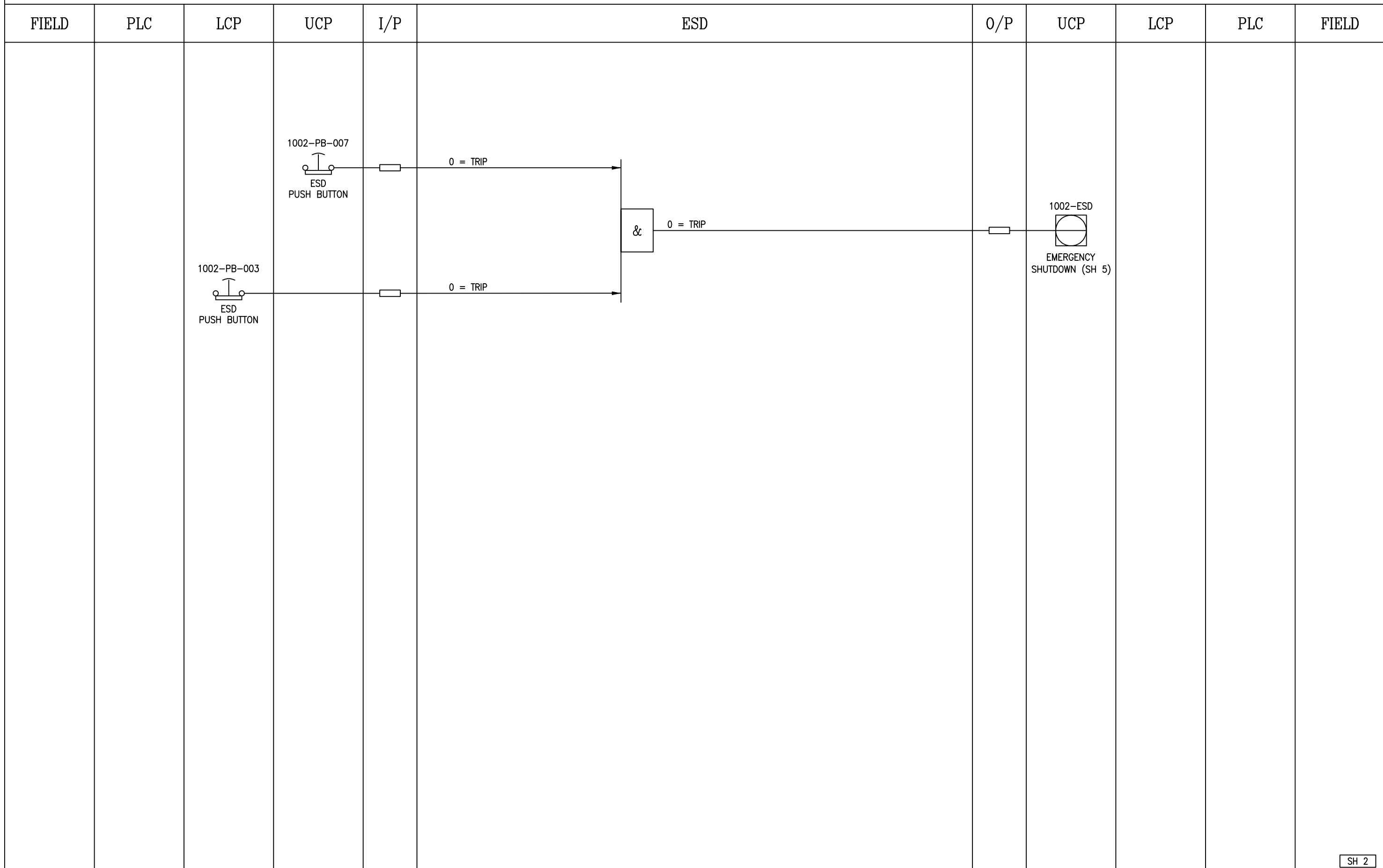


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CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	DRAWN BY	TJ
CLIENT REF	20-C-1002	CHECKED BY	KP
AIRPACK REF	17811	PLANT LOCATION	IRAN
		DRAWING NO.	17811-32
		SHEETNO.	01 / 12

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REV 00 20-11-2020 TJ

LOGIC DIAGRAM



SH 2

NOTES:



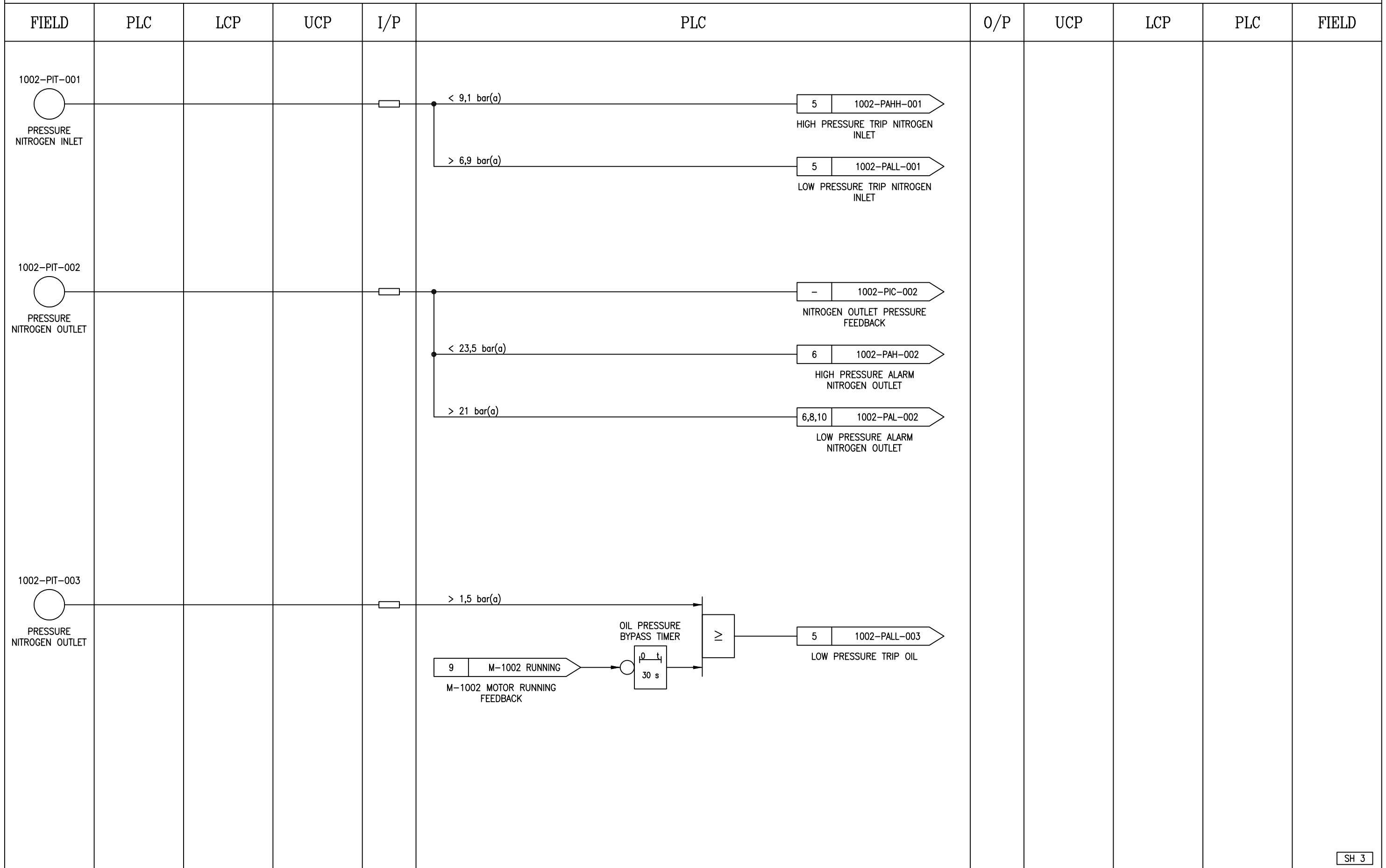
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AIRPACK REF	17811	SHEETNO.	02 / 12

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LOGIC DIAGRAM

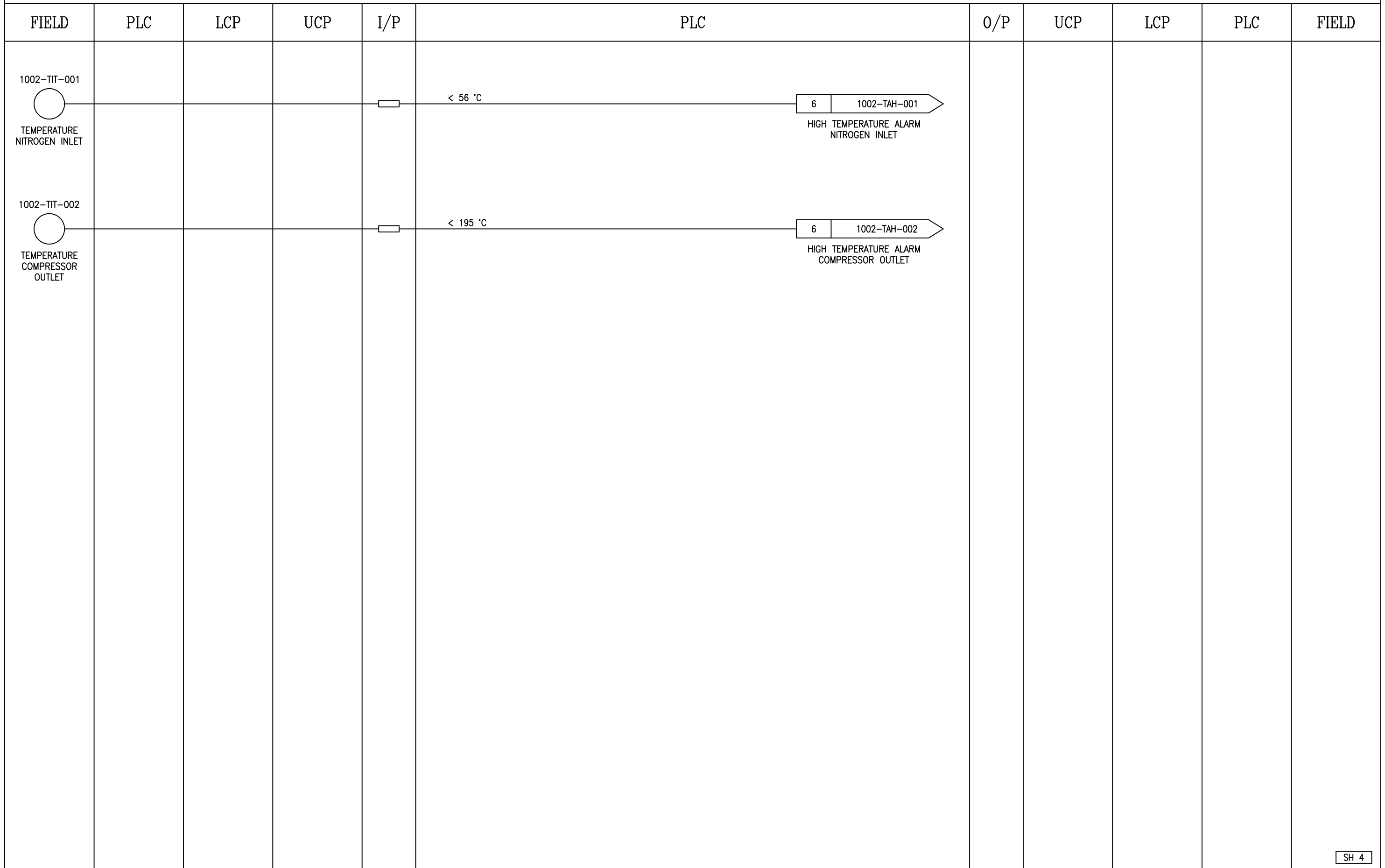


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LOGIC DIAGRAM



SH 4

NOTES:



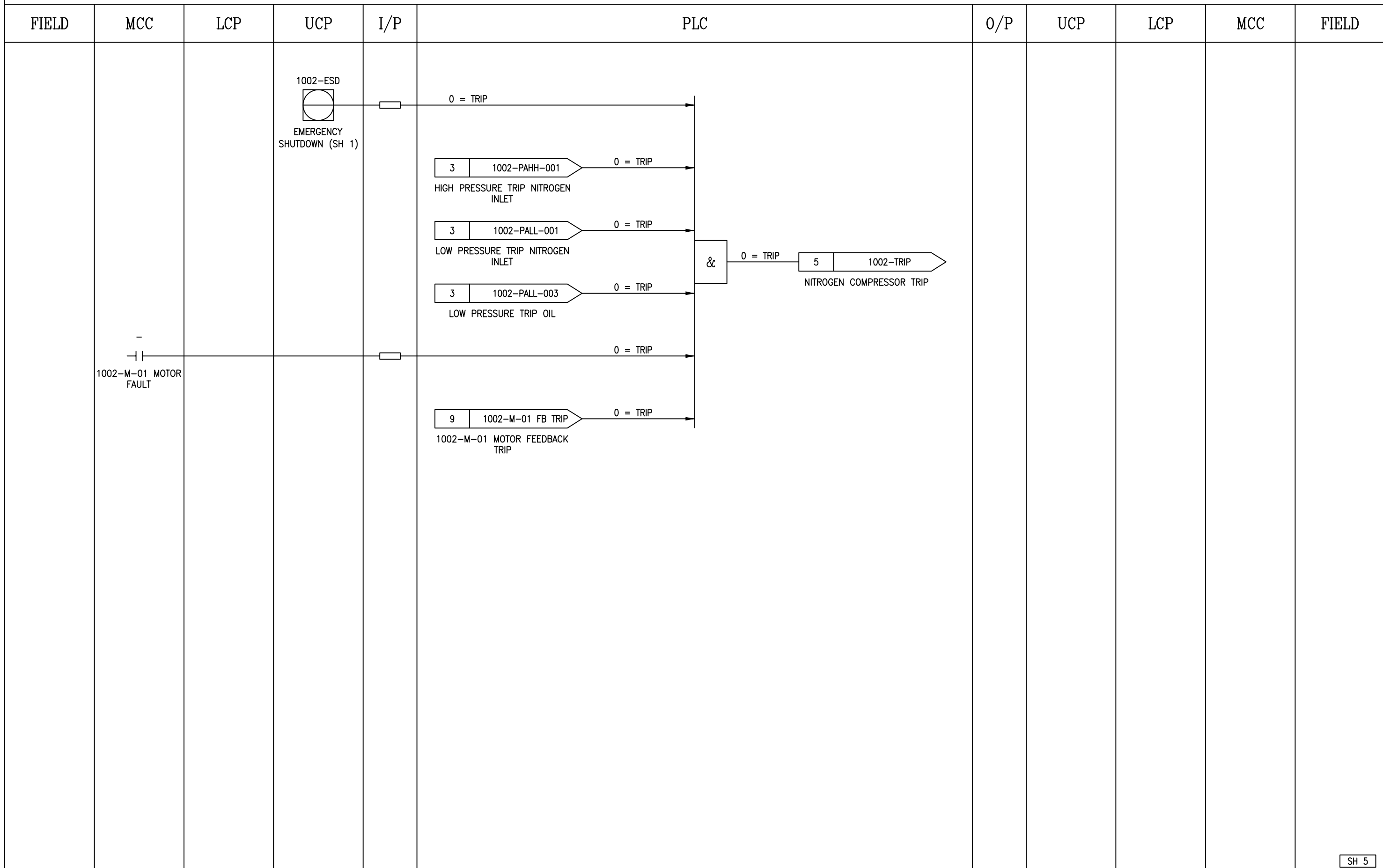
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CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)
CLIENT REF	20-C-1002
AIRPACK REF	17811

DATE	20-11-2020
DRAWN BY	TJ
CHECKED BY	KP
PLANT LOCATION	IRAN
DRAWING NO.	17811-32
SHEETNO.	04 / 12

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LOGIC DIAGRAM



SH 5

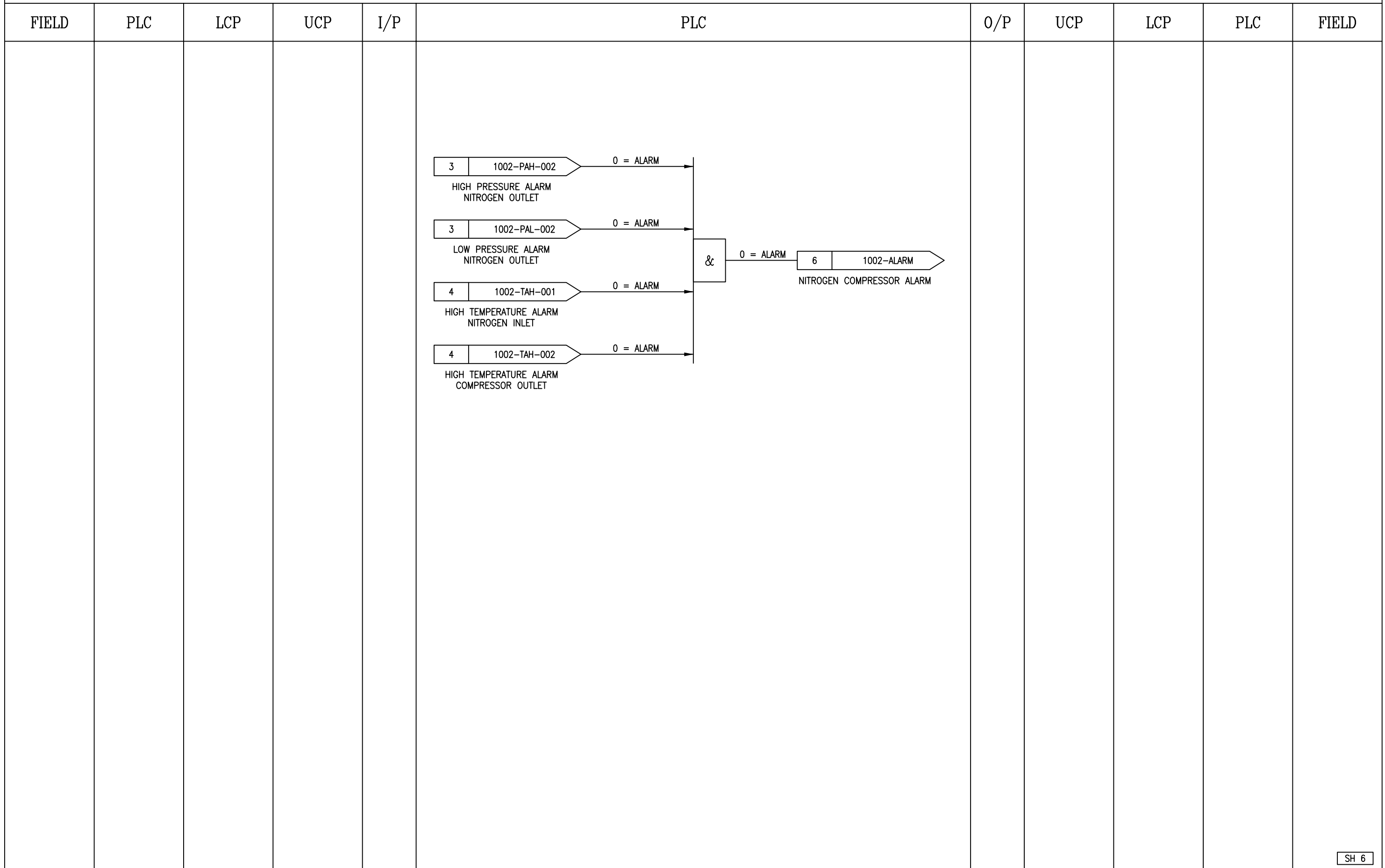
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LOGIC DIAGRAM



SH 6

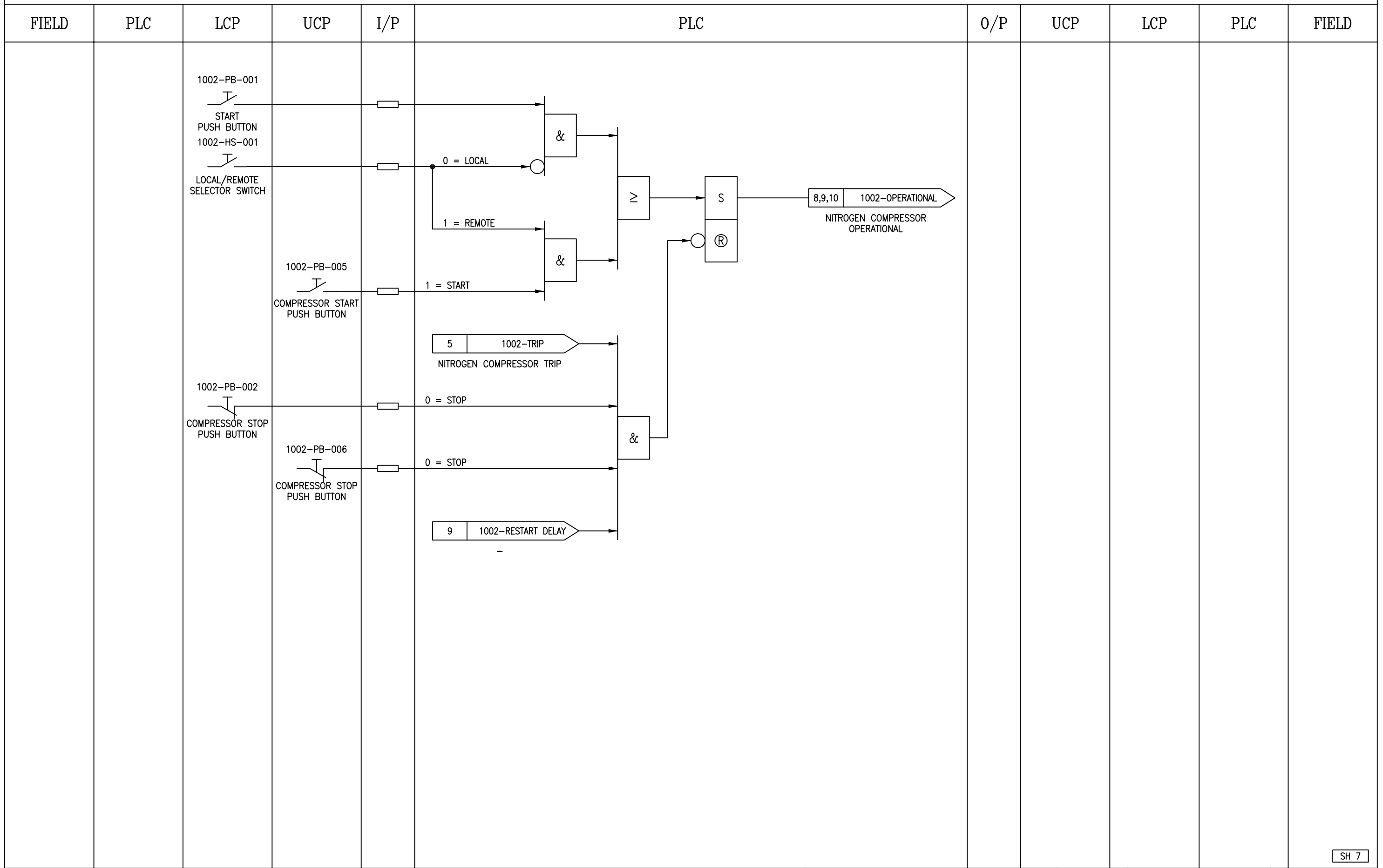
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LOGIC DIAGRAM

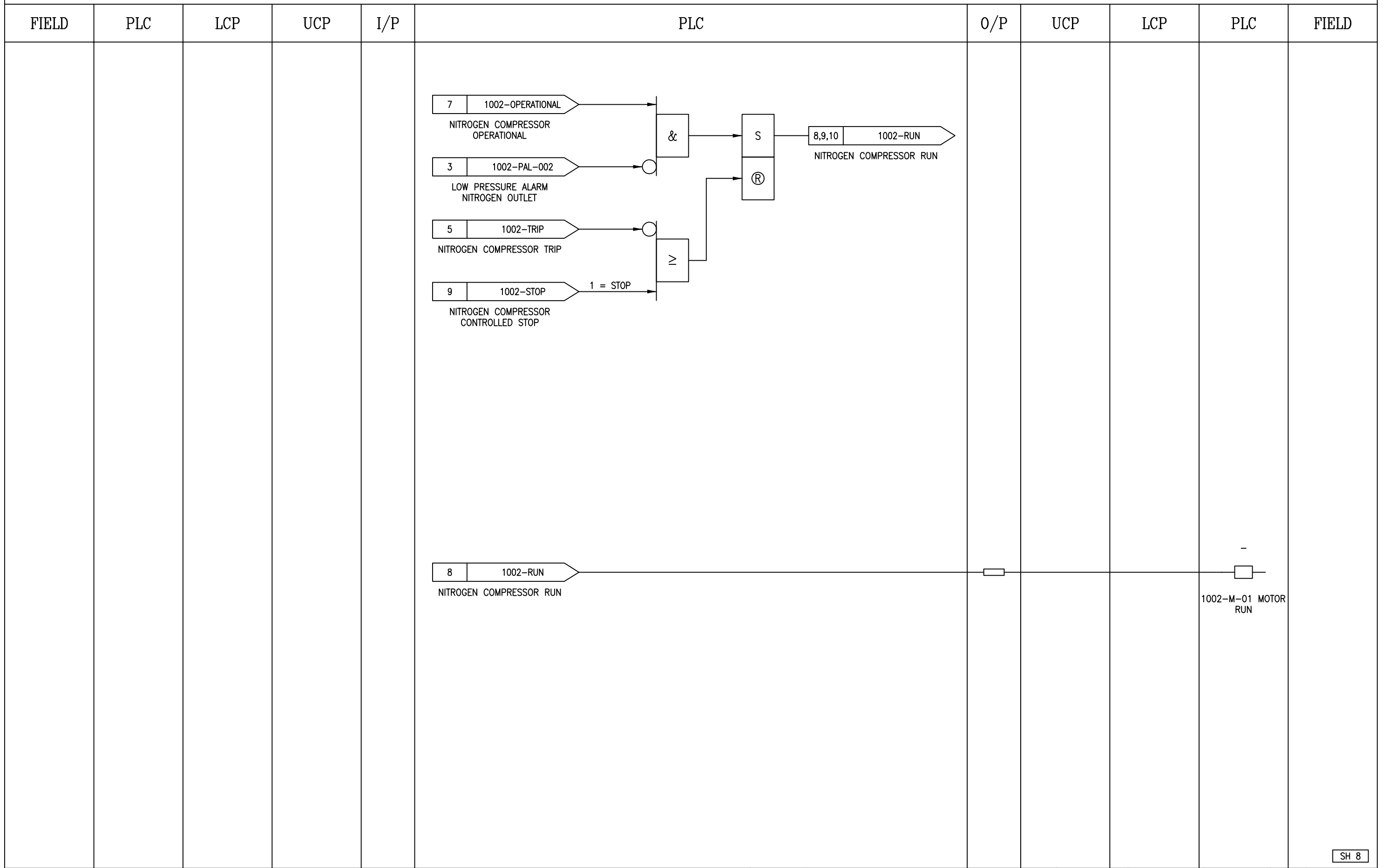


SH 7

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LOGIC DIAGRAM

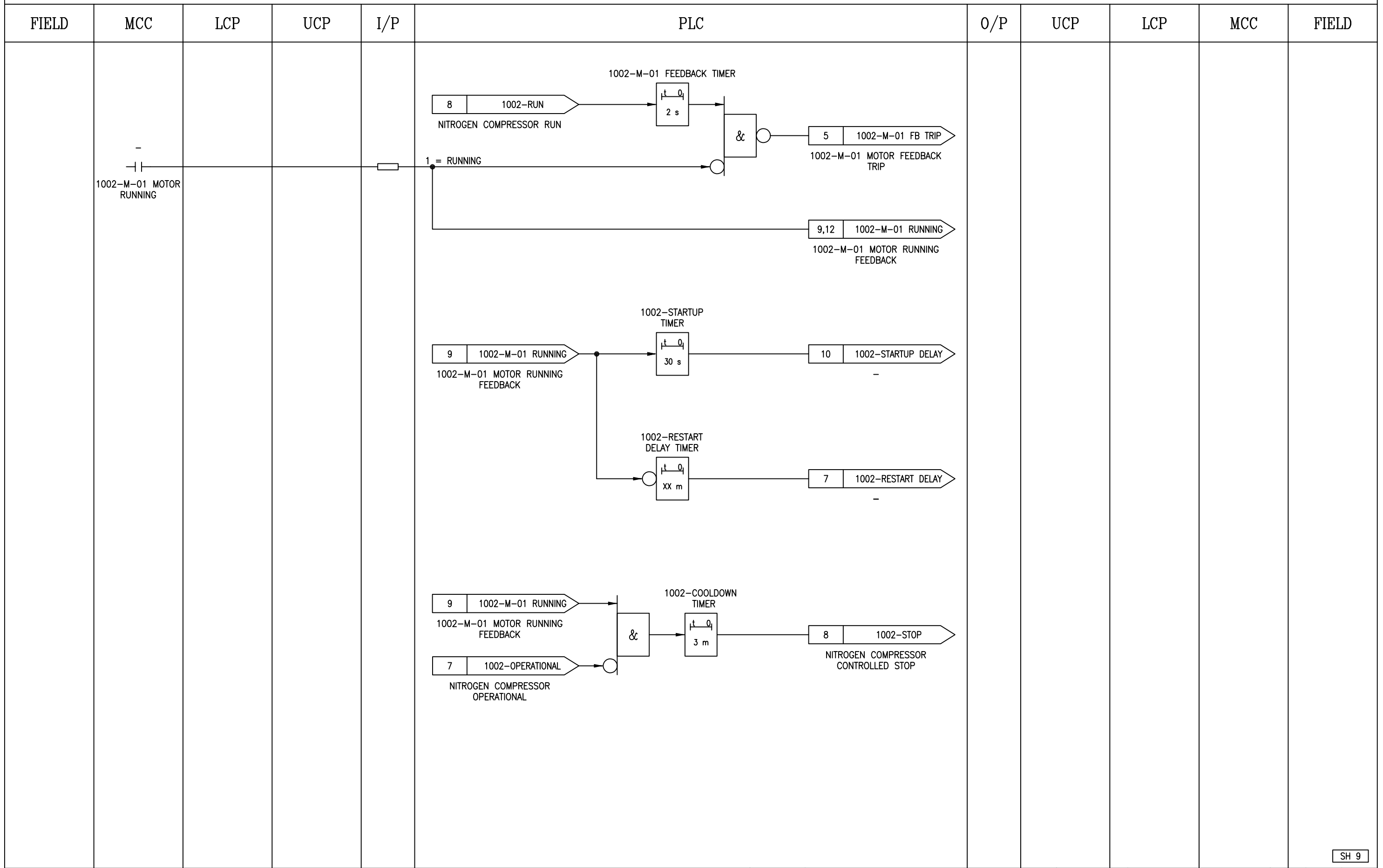


SH 8

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LOGIC DIAGRAM

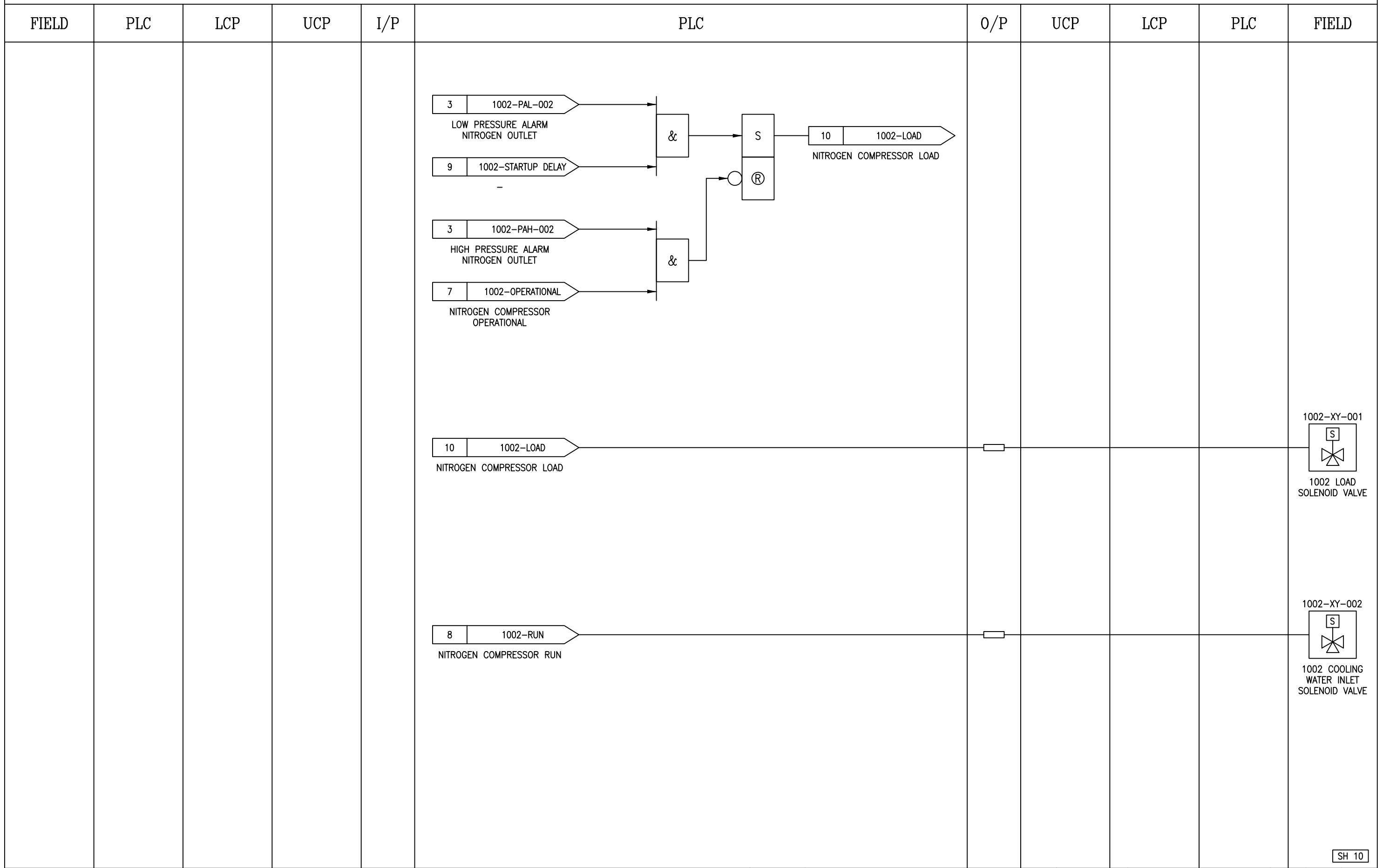


SH 9

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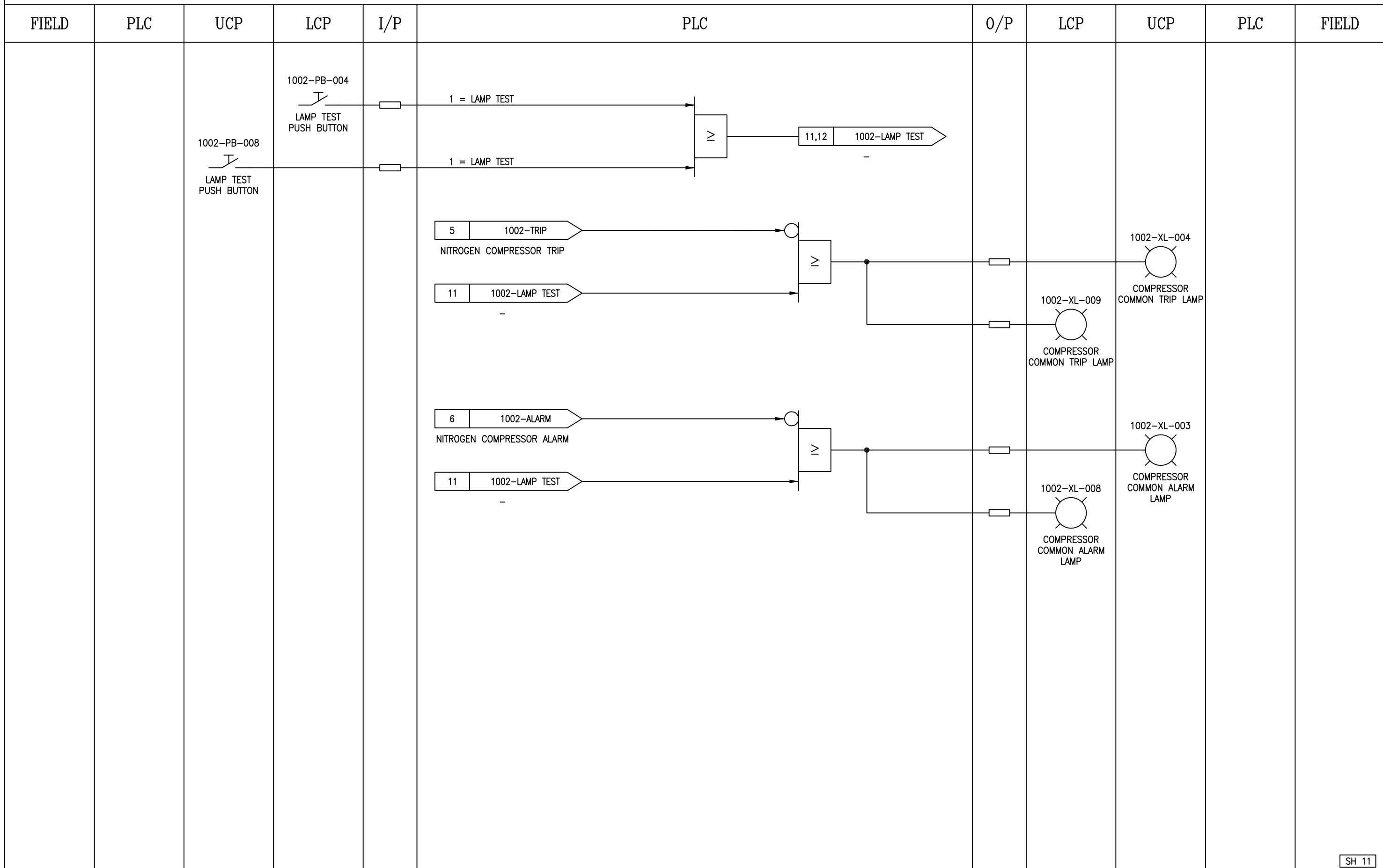
LOGIC DIAGRAM



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LOGIC DIAGRAM

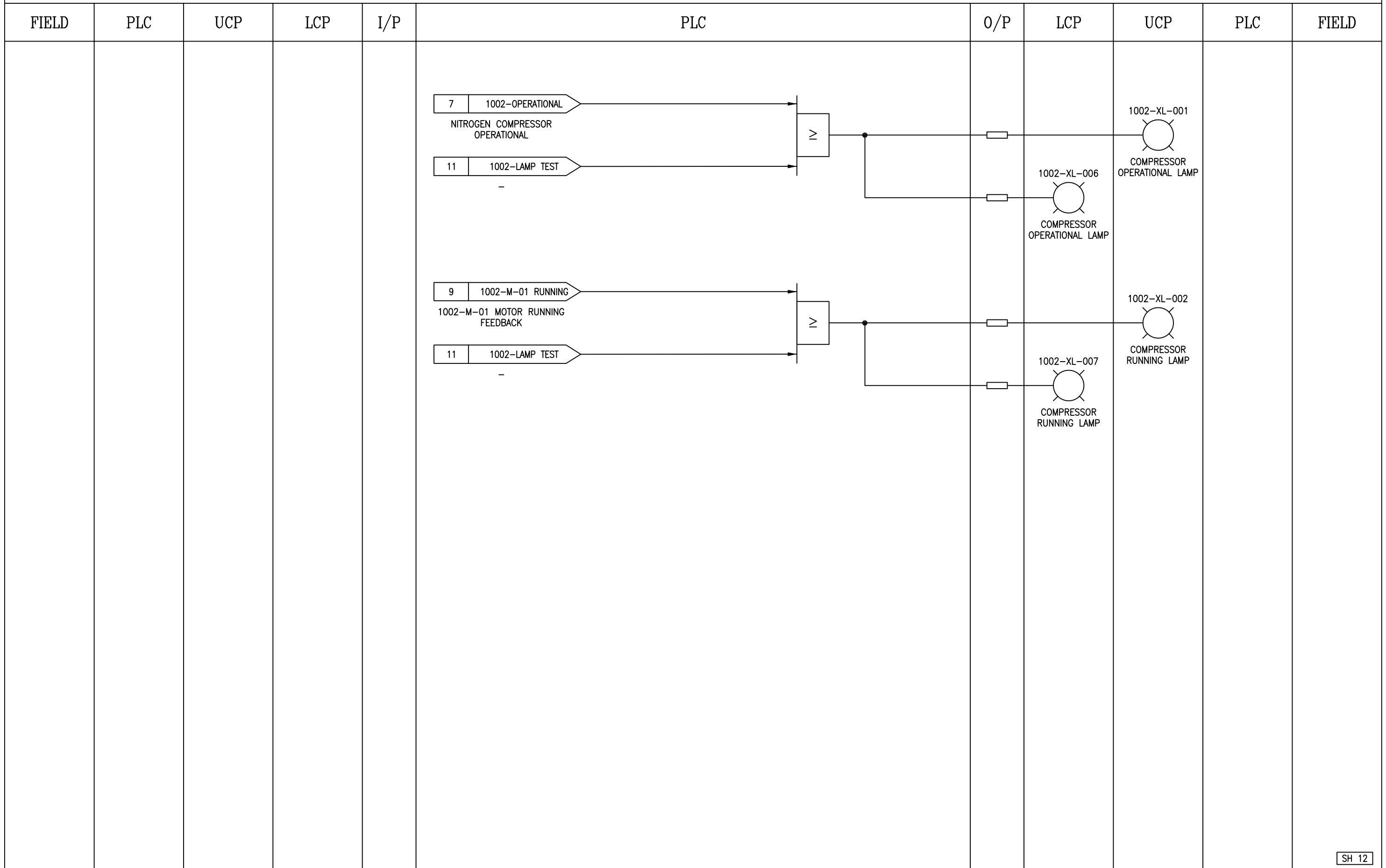


SH 11

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LOGIC DIAGRAM



SH 12

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