





OWNER:  شرکت سست و سویی گیس ایرپاک (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	LOGIC DIAGRAMS-PROGRAM OF UCP - COMPRESSOR SHUTDOWN LOGIC DRAWING FOR NITROGEN GAS BOOSTER						 Netherlands		
MC :  شرکت سست و سویی گیس ایرپاک (سهامی خاص)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-32A	BU	20	VD	303	IN	DIG	0035	Rev.:	Page
								03	1 of 15

LOGIC DIAGRAMS-PROGRAM OF UCP - COMPRESSOR SHUTDOWN LOGIC DRAWING FOR NITROGEN GAS BOOSTER

Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
03	18/03/2022	Approved for Construction	AS	KP	JR	
02	06/01/2022	Approved for Construction	WZ	KP	JR	
01	30/11/2021	For approval	WZ	KP	JR	
00	24/11/2020	For approval	TJ	RB	JR	
				Class: 1		Phase: P

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

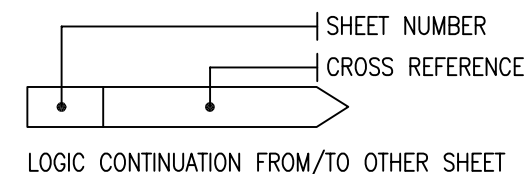
SYMBOL	DESCRIPTION
	EMERGENCY PUSHBUTTON, RED HEAD, STAY PUT.
	TOGGLE SWITCH
	PUSHBUTTON MOMENTARILY MAKE
	PUSHBUTTON MOMENTARILY BREAK
	CONTACT NORMALLY OPEN
	CONTACT NORMALLY CLOSED
	HARDWIRED INPUT/OUTPUT
	SOLENOID VALVE, 3-WAY
	DISTRIBUTED CONTROL SYSTEM
	PLC CONTROL SYSTEM
	DCS AUXILIARY CONSOLE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

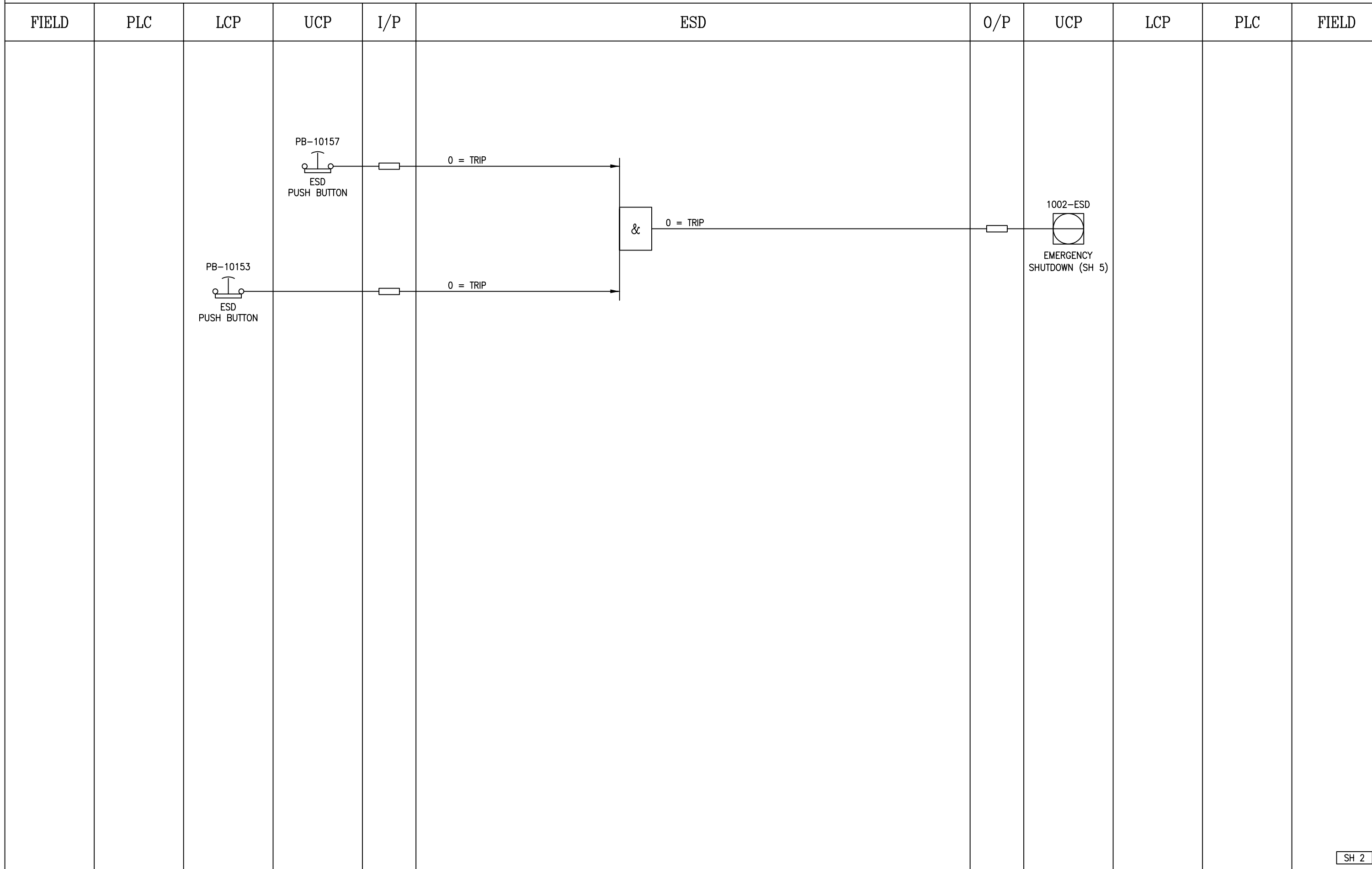


SH 1



SUBJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR	DATE	20-11-2020	THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION				
	CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	DRAWN BY		TJ	REV 03	18-03-2022	AS
CLIENT REF	20-C-1002	CHECKED BY	KP	PLANT LOCATION	IRAN	REV 02	03-01-2022	AS
AIRPACK REF	17811	DRAWING NO.	17811-32A	SHEETNO.	01 /13	REV 01	29-11-2021	WZ
						REV 00	20-11-2020	TJ

LOGIC DIAGRAM

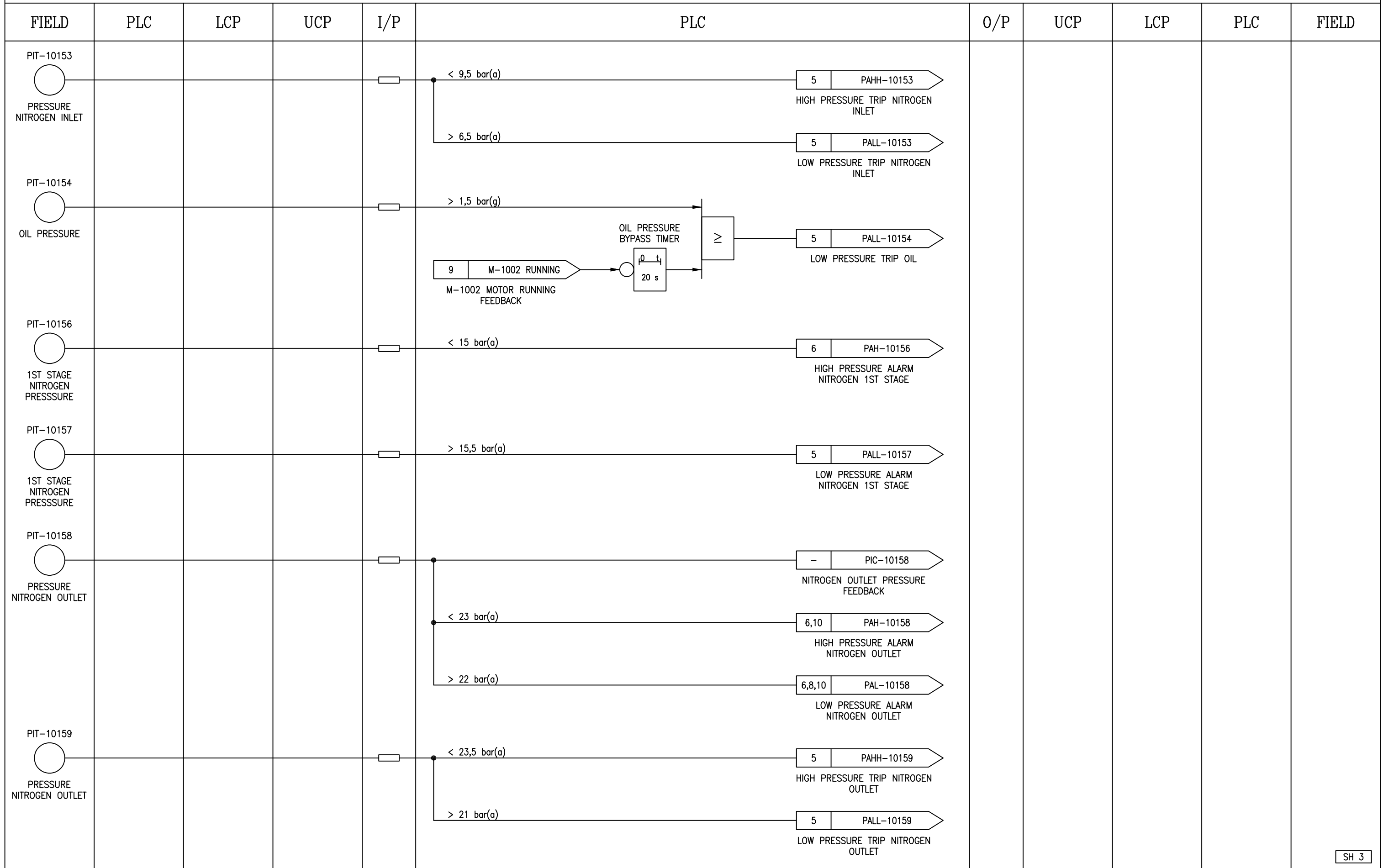


SH 2

NOTES:

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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.	17811-32A	REV 03	18-03-2022	AS
			SHEETNO.	02 /13	REV 02	03-01-2022	AS
					REV 01	29-11-2021	WZ
					REV 00	20-11-2020	TJ

LOGIC DIAGRAM



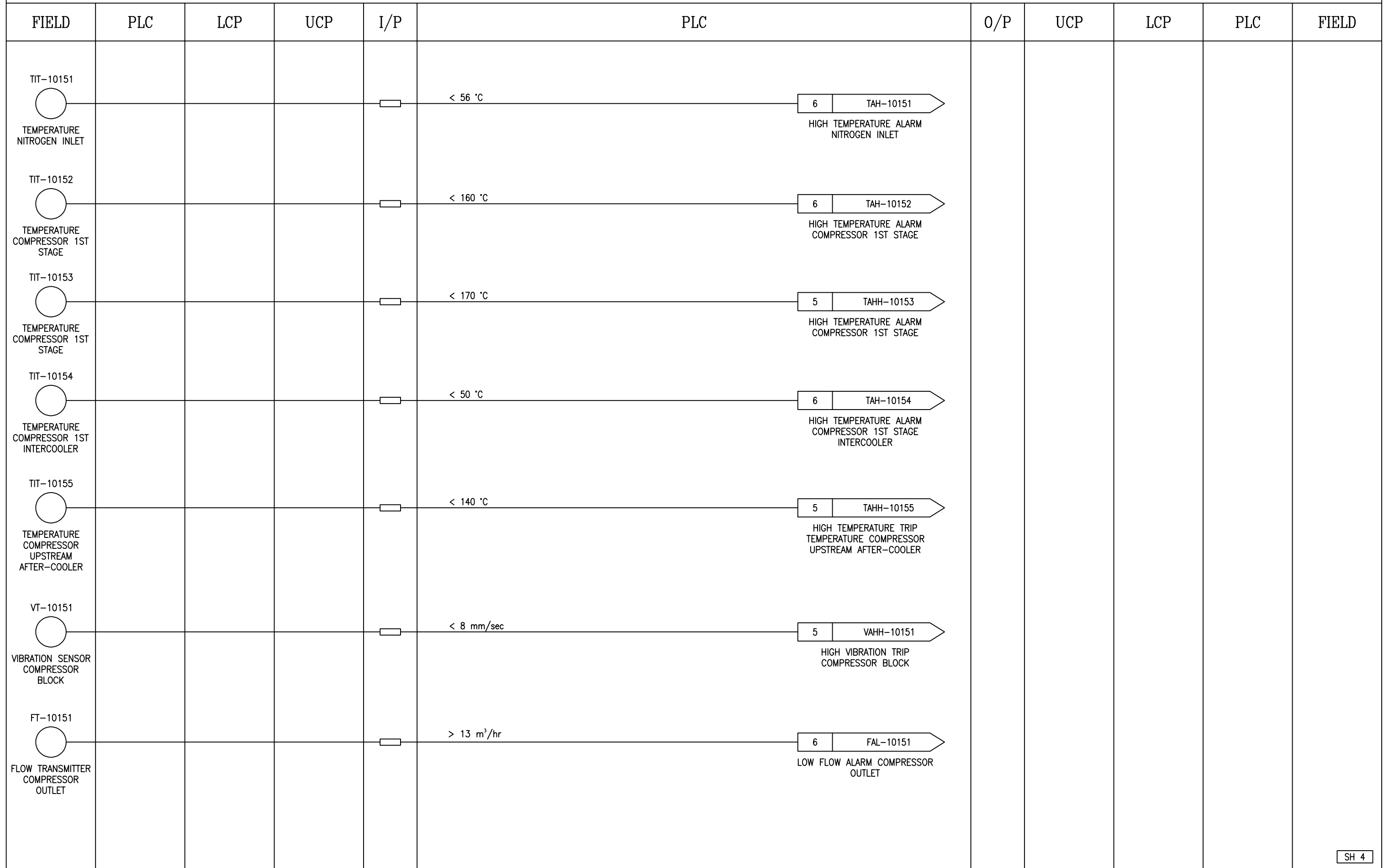
SH 3

NOTES:



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CLIENT BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION IRAN	REV 03 18-03-2022 AS	
CLIENT REF 20-C-1002	DRAWING NO. 17811-32A	REV 02 03-01-2022 AS	
AIRPACK REF 17811	SHEETNO. 03 /13	REV 01 29-11-2021 WZ	
		REV 00 20-11-2020 TJ	

LOGIC DIAGRAM

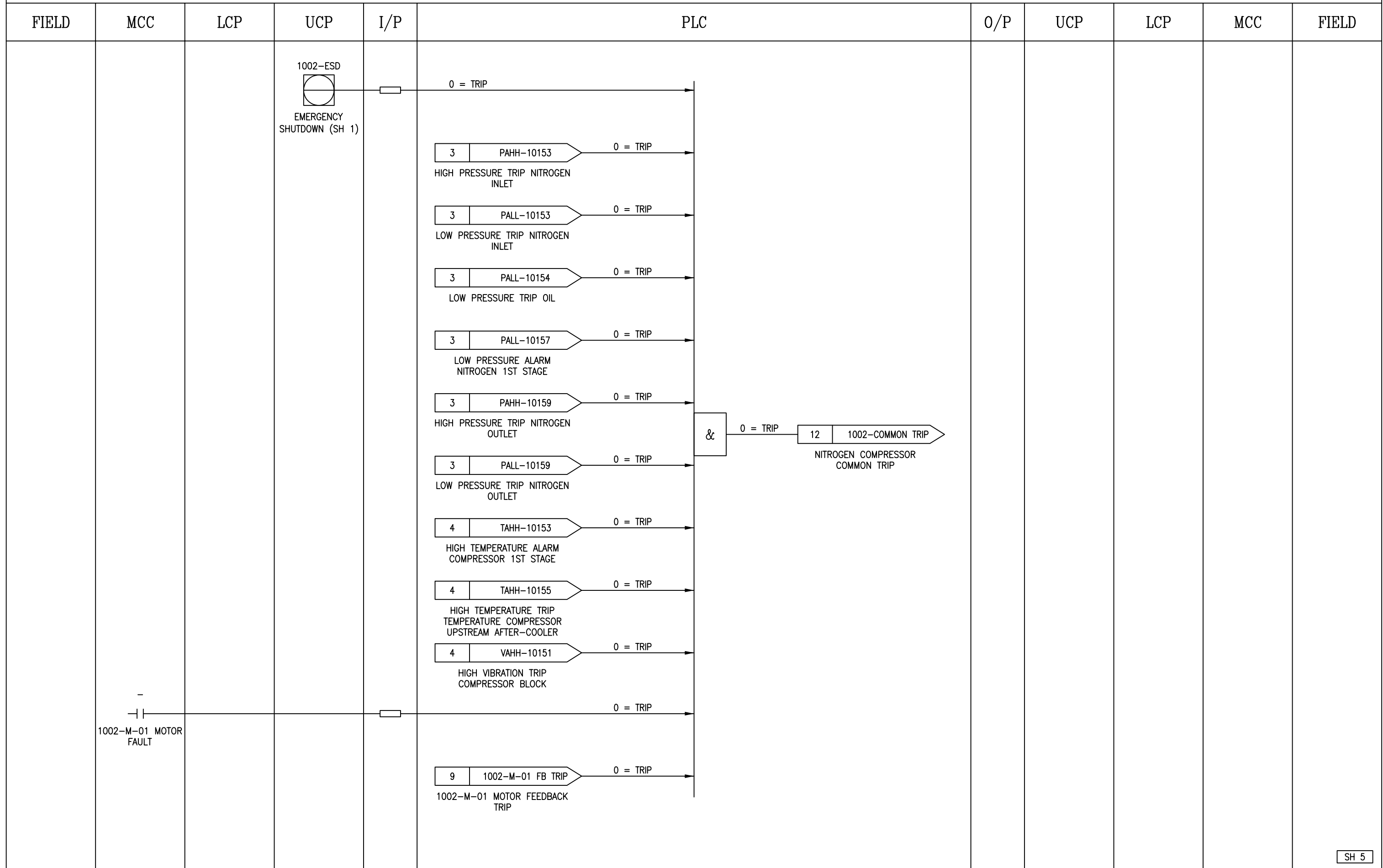


SH 4

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	CLIENT BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION IRAN	DRAWN BY TJ	
CLIENT REF 20-C-1002	DRAWING NO. 17811-32A	CHECKED BY KP	REV 03 18-03-2022 AS	
AIRPACK REF 17811	SHEETNO. 04 /13		REV 02 03-01-2022 AS	
			REV 01 29-11-2021 WZ	
			REV 00 20-11-2020 TJ	

LOGIC DIAGRAM

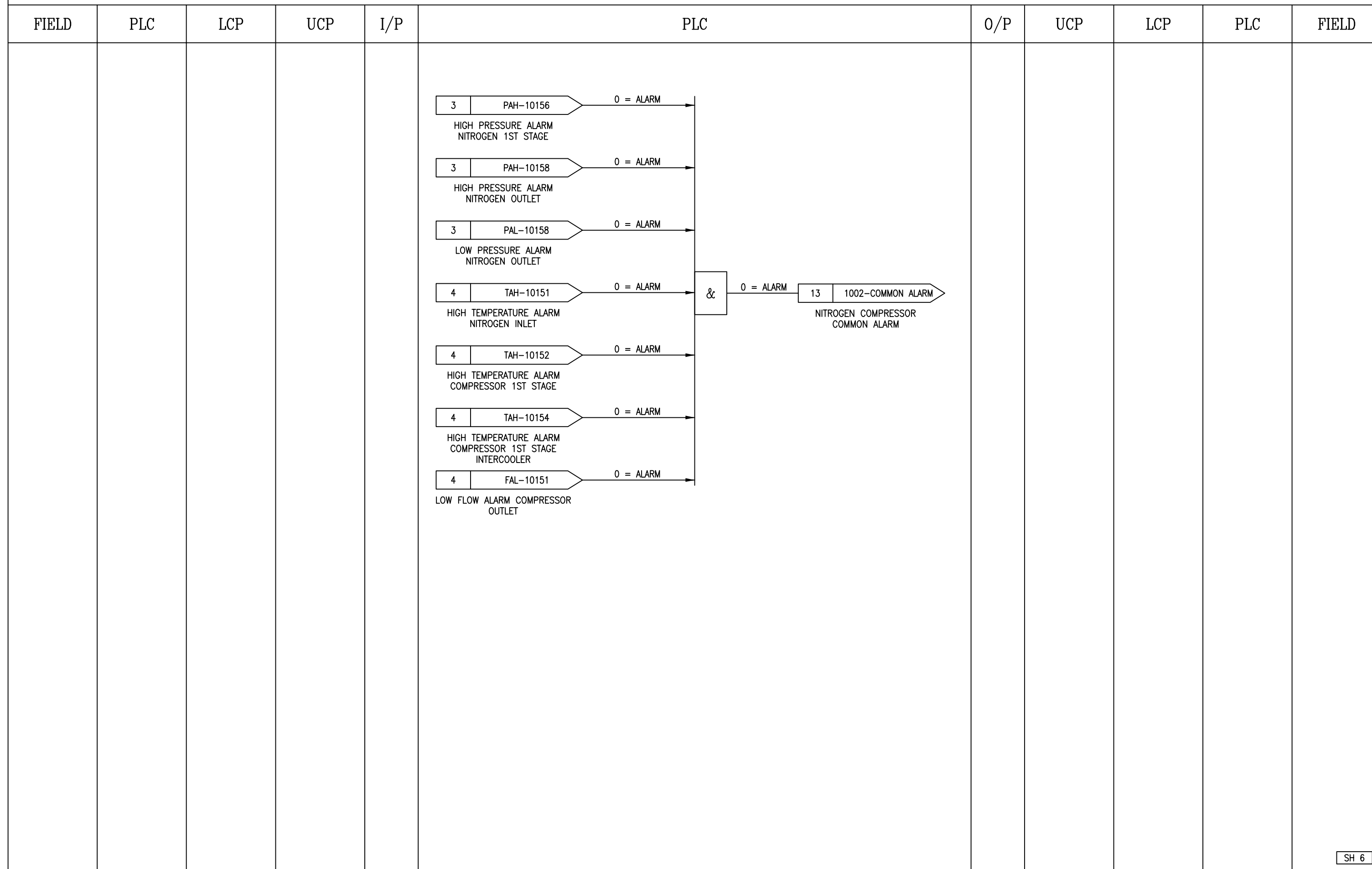


SH 5

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CLIENT REF 20-C-1002	DRAWING NO. 17811-32A	CHECKED BY KP	REV 03 18-03-2022 AS	
AIRPACK REF 17811	SHEETNO. 05 /13		REV 02 03-01-2022 AS	
			REV 01 29-11-2021 WZ	
			REV 00 20-11-2020 TJ	

LOGIC DIAGRAM

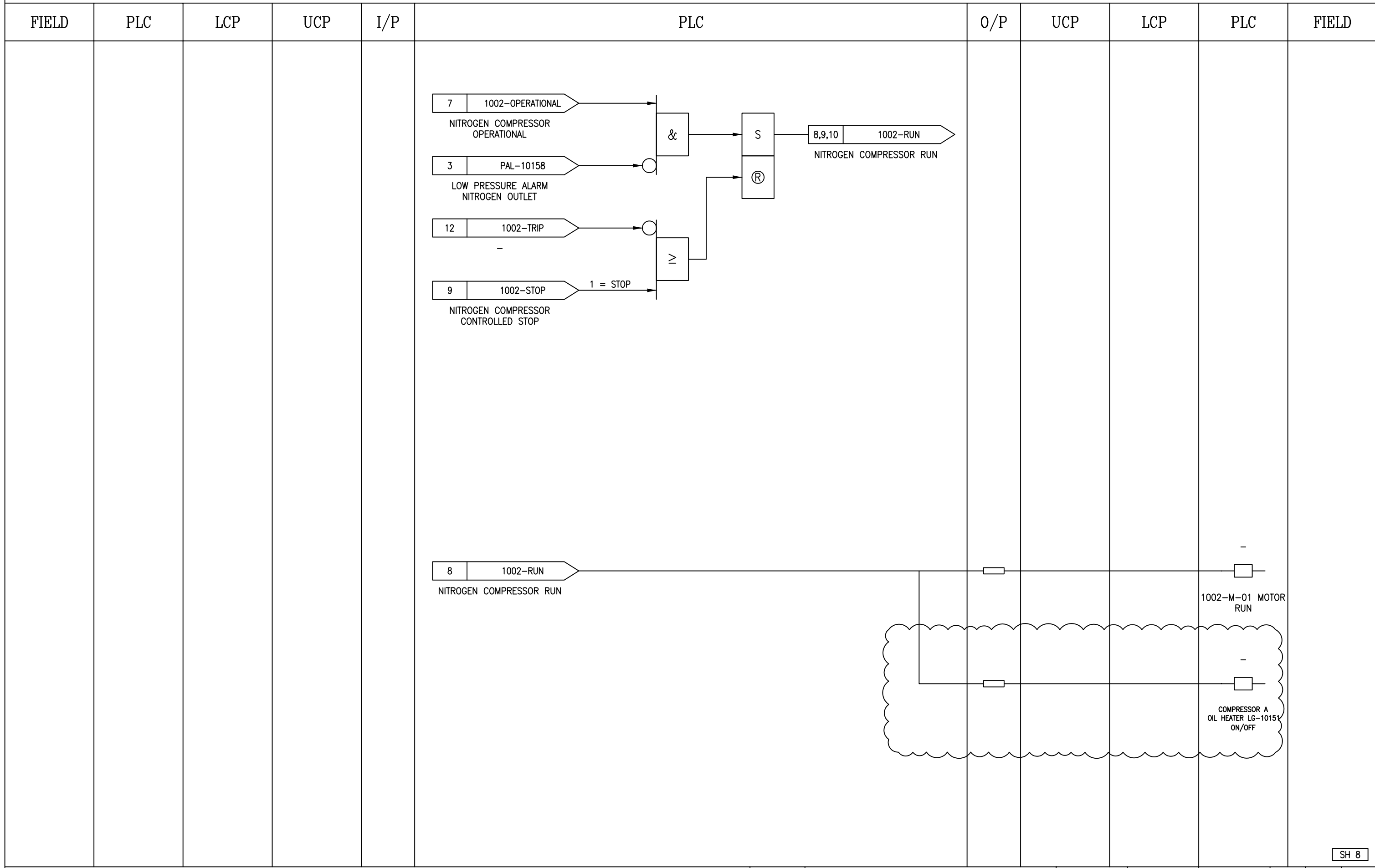


SH 6

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CLIENT REF 20-C-1002	DRAWING NO. 17811-32A	CHECKED BY KP	REV 03 18-03-2022 AS	
AIRPACK REF 17811	SHEETNO. 06 /13		REV 02 03-01-2022 AS	
			REV 01 29-11-2021 WZ	
			REV 00 20-11-2020 TJ	

LOGIC DIAGRAM

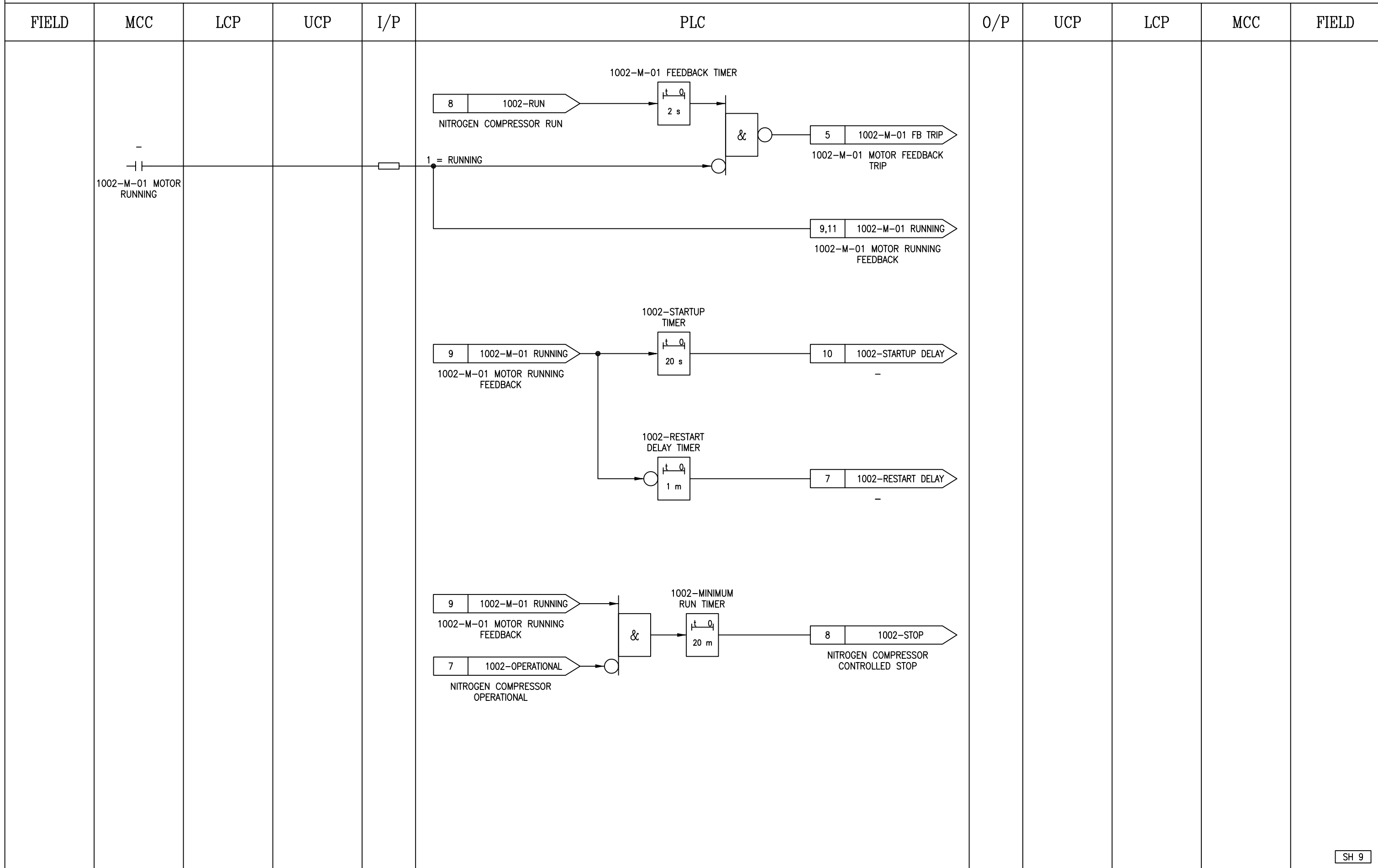


SH 8

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	CLIENT REF	20-C-1002	DRAWING NO.	17811-32A	REV 02	03-01-2022	AS	
	AIRPACK REF	17811	SHEETNO.	08 /13	REV 01	29-11-2021	WZ	
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LOGIC DIAGRAM

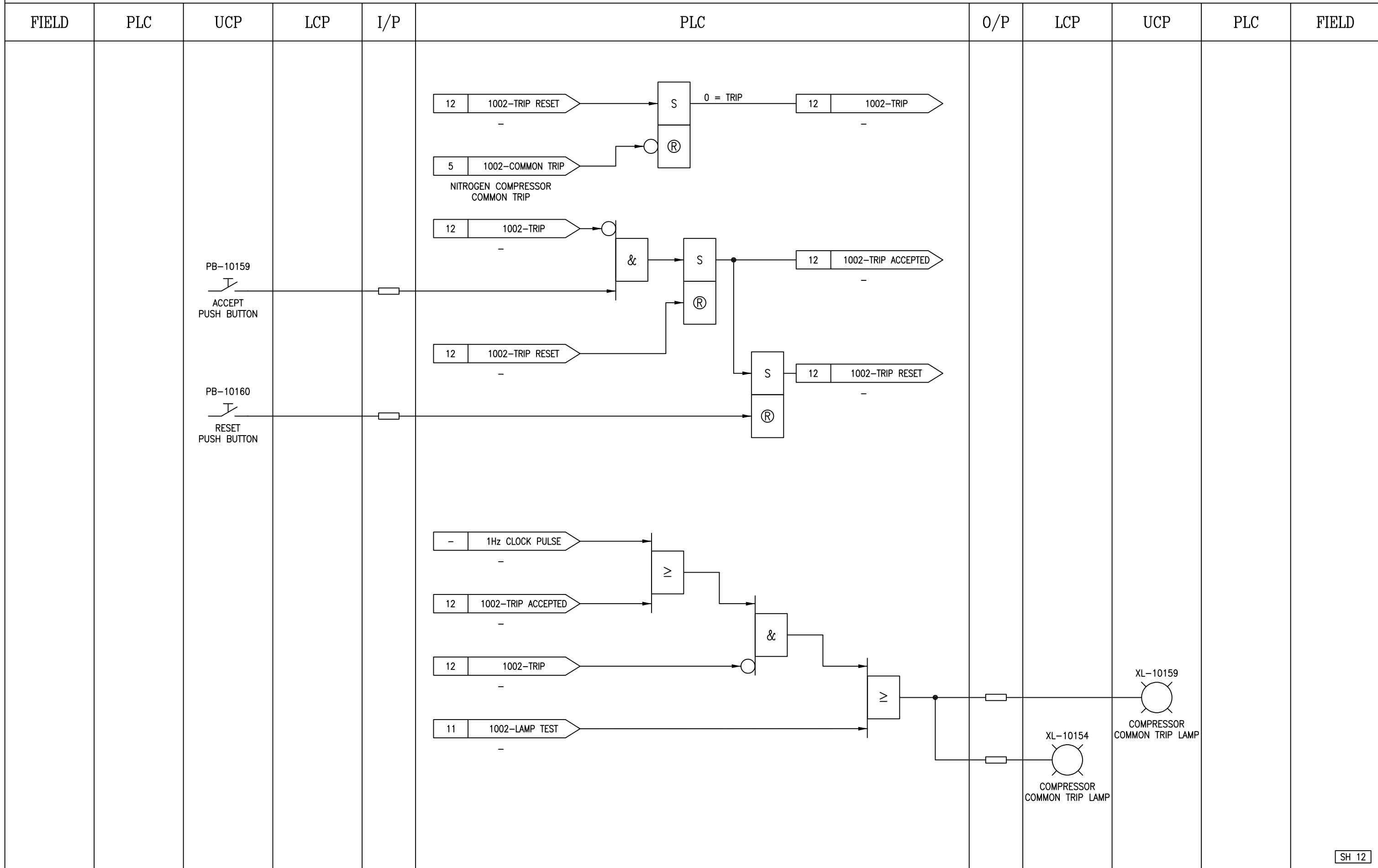


SH 9

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	CLIENT BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION IRAN	DRAWN BY TJ	
CLIENT REF 20-C-1002	DRAWING NO. 17811-32A	CHECKED BY KP	REV 03 18-03-2022 AS	
AIRPACK REF 17811	SHEETNO. 09 /13		REV 02 03-01-2022 AS	
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			REV 00 20-11-2020 TJ	

LOGIC DIAGRAM



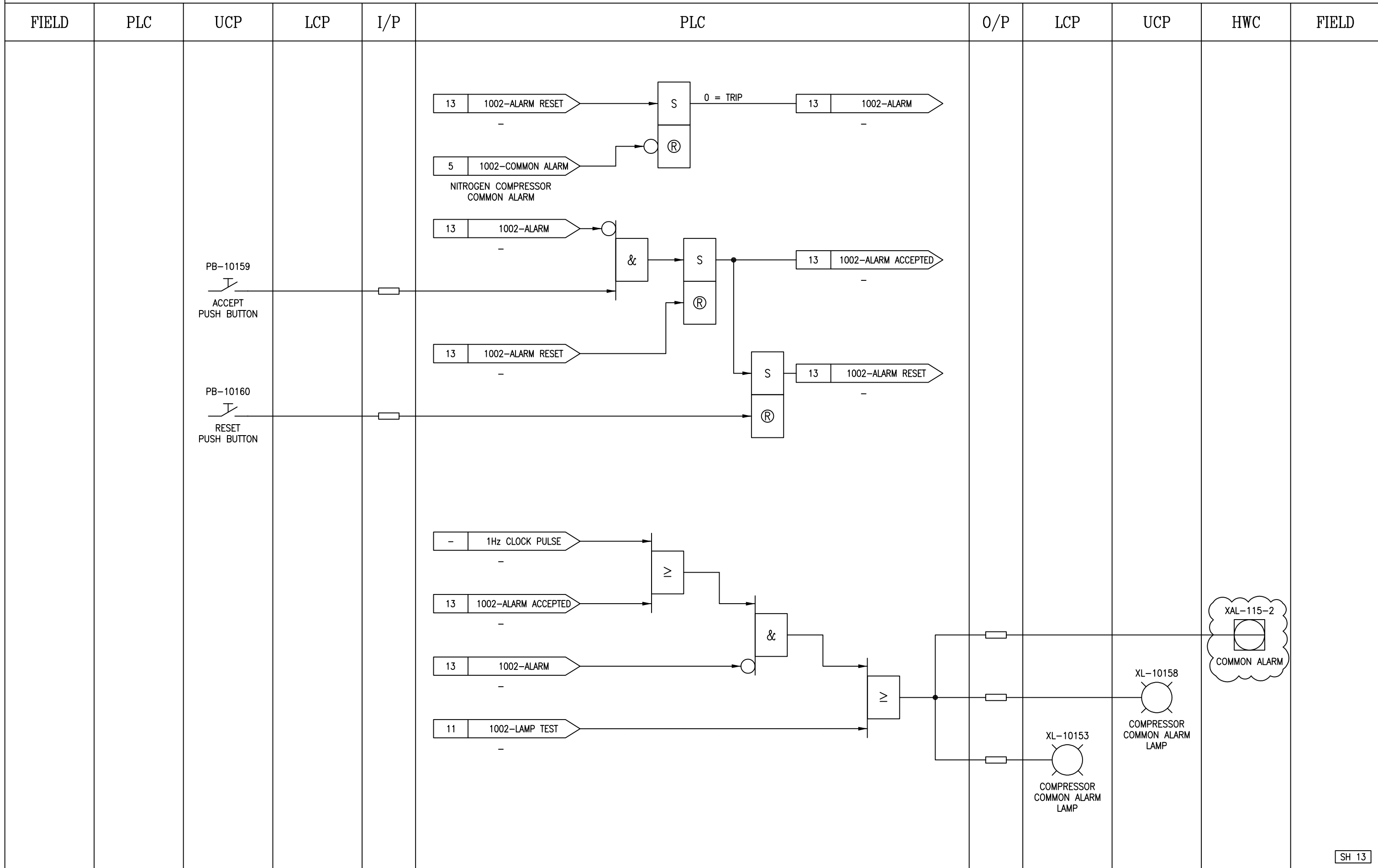
SH 12

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		CHECKED BY	KP	
		PLANT LOCATION	IRAN	
	CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	DRAWING NO.	17811-32A
	CLIENT REF	20-C-1002	SHEETNO.	12 / 13
	AIRPACK REF	17811		

REV 03	18-03-2022	AS
REV 02	03-01-2022	AS
REV 01	29-11-2021	WZ
REV 00	20-11-2020	TJ

LOGIC DIAGRAM



SH 13

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AIRPACK REF 17811	DRAWING NO. 17811-32A	SHEETNO. 13 /13	REV 02 03-01-2022 AS
			REV 01 29-11-2021 WZ
			REV 00 20-11-2020 TJ