







OWNER:  شرکت سست و سویی توپدا ایرانیان (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 توپدا ایرانیان (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
								01	1 of 15

- Following items are missed, please consider in logic :
- HS-108-SD-1 Emergency Shutdown Command from ESD System
 - XAL-108-2 Common Alarm to ESD System
 - Heater

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

 شرکت سست و سویی توپدا ایرانیان (سهامی خاص)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	AN	
Next Status : IFC,IFA,IFI,AFC,AB	AFC	
Responsible Department	MECHANICAL	
Commented Date	Dec/16/2021	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

01	30/11/2021	For approval	WZ	KP	JR	
00	24/11/2020	For approval	TJ	RB	JR	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					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

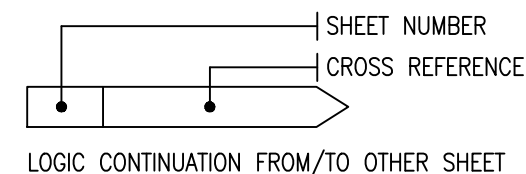
SYMBOL	DESCRIPTION
	EMERGENCY PUSHBUTTON, RED HEAD, STAY PUT.
	TOGGLE SWITCH
	PUSHBUTTON MOMENTARILY MAKE
	PUSHBUTTON MOMENTARILY BREAK
	CONTACT NORMALLY OPEN
	CONTACT NORMALLY CLOSED
	HARDWIRED INPUT/OUTPUT
	SOLENOID VALVE, 3-WAY
	DISTRIBUTED CONTROL SYSTEM
	PLC CONTROL SYSTEM
	DCS AUXILIARY CONSOLE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

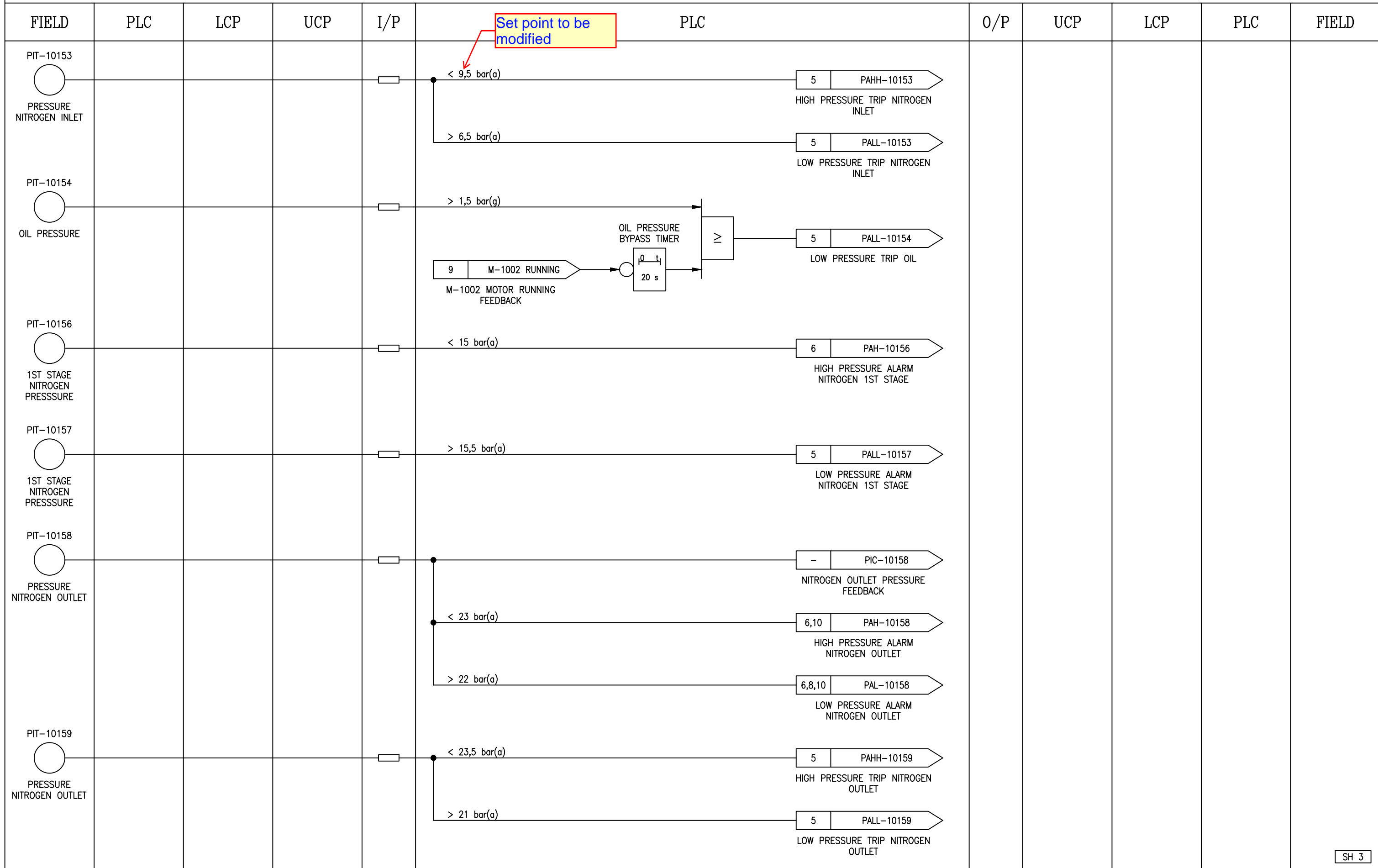


SH 1



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

LOGIC DIAGRAM



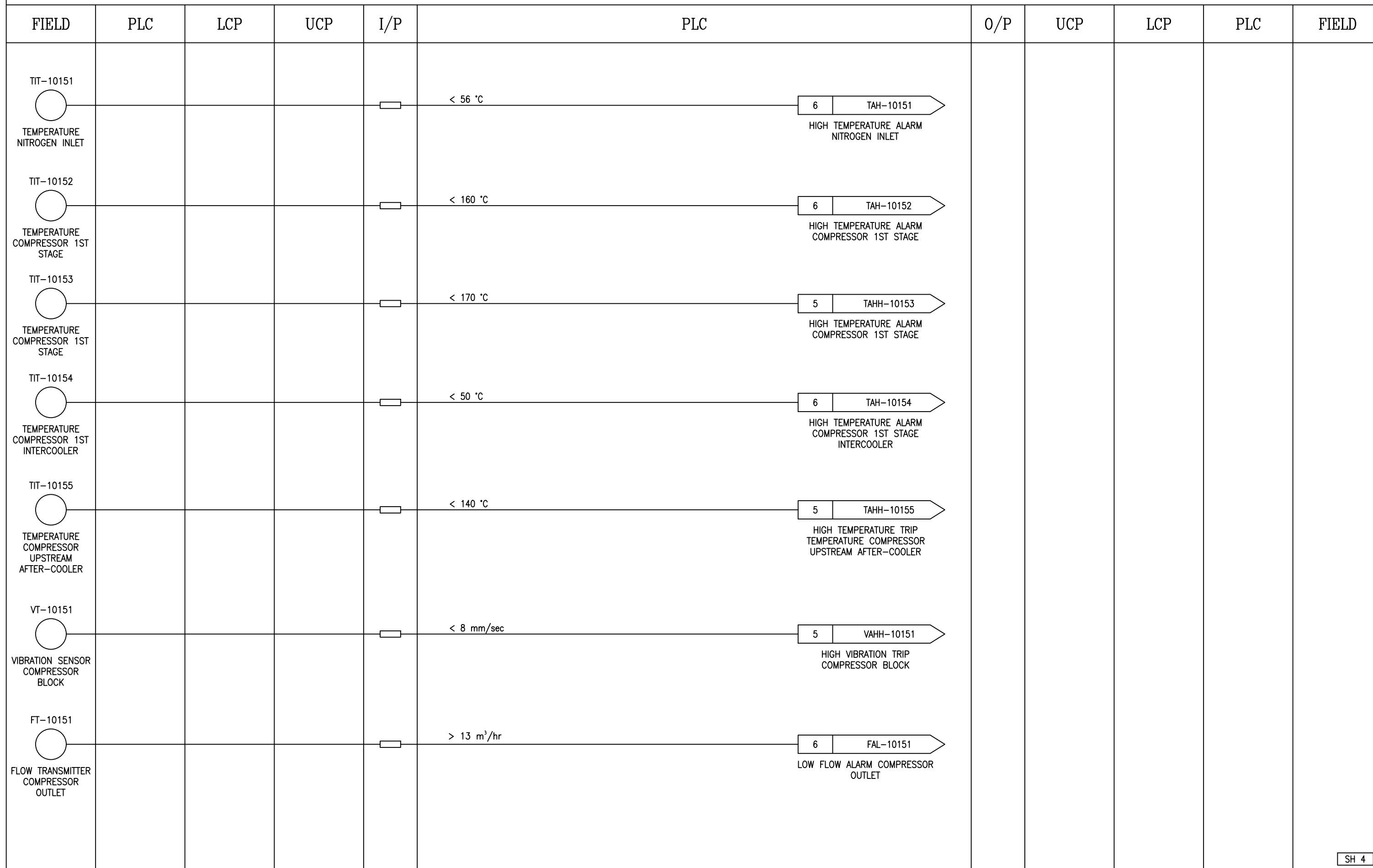
SH 3

NOTES:



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

LOGIC DIAGRAM

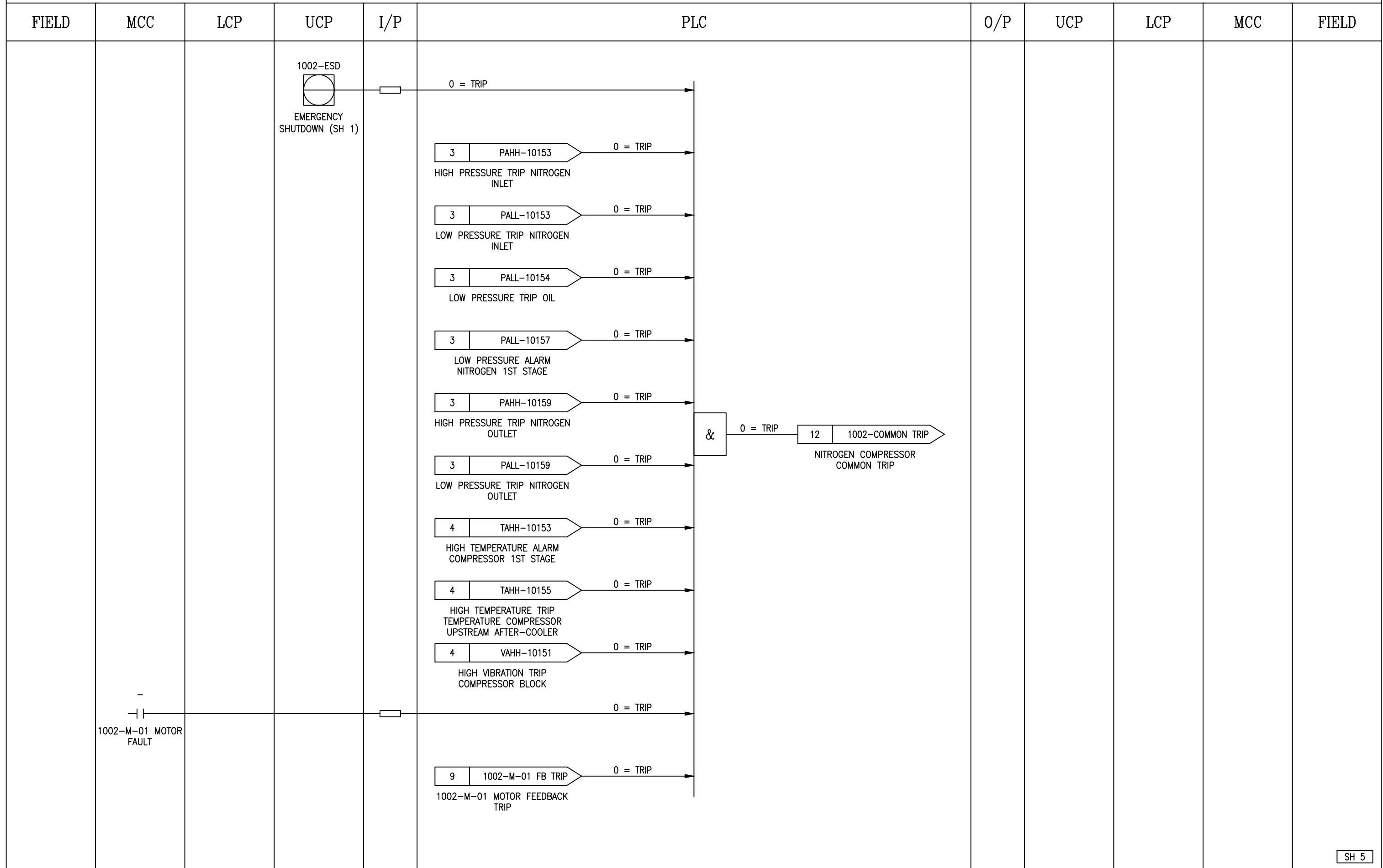


SH 4

NOTES:


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

LOGIC DIAGRAM

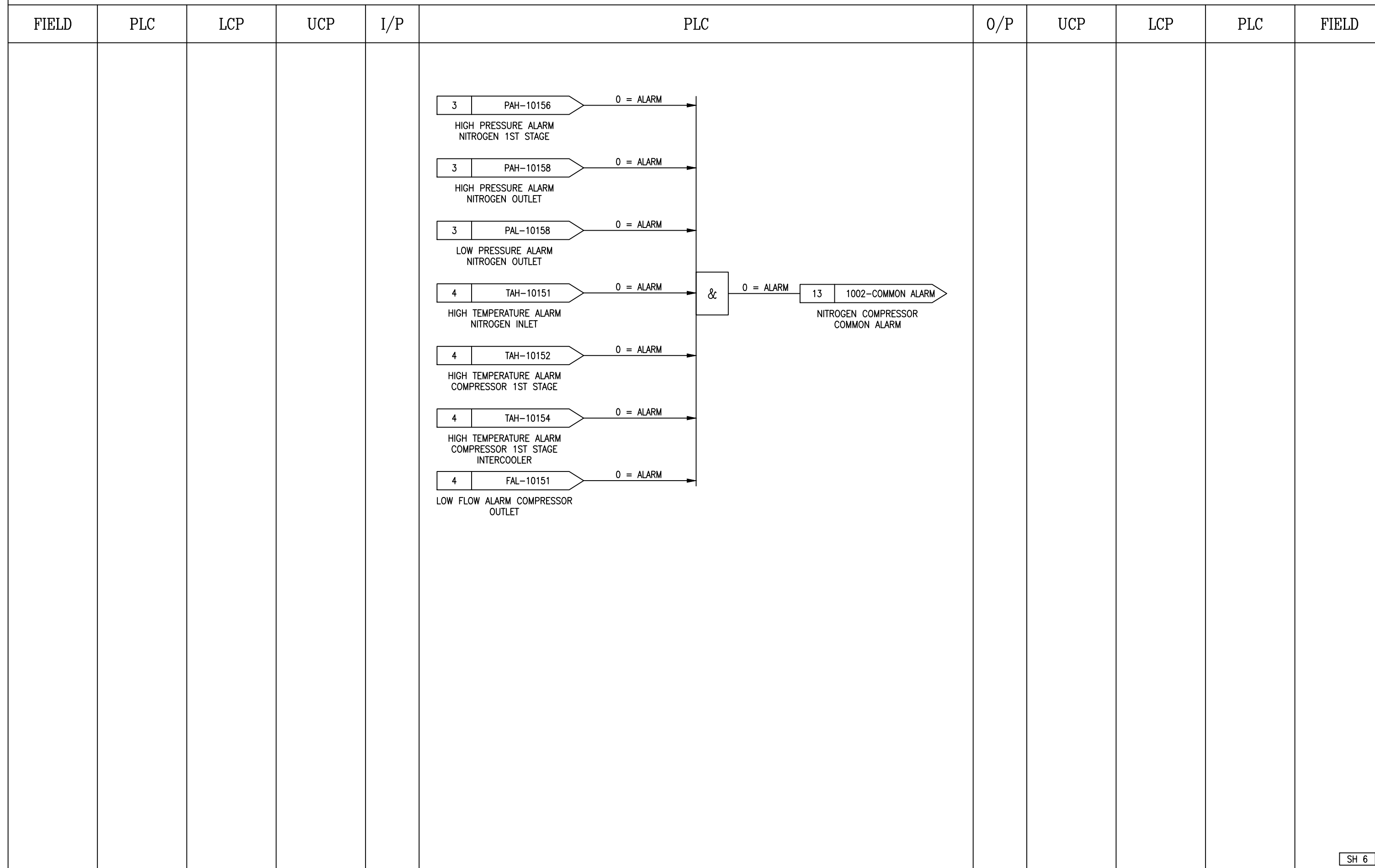


SH 5

NOTES:

	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)	PLANT LOCATION IRAN	DRAWN BY TJ	
	CLIENT REF 20-C-1002	DRAWING NO. 17811-32A	CHECKED BY KP	
	AIRPACK REF 17811	SHEETNO. 05 /13		
				REV 01 29-11-2021 WZ REV 00 20-11-2020 TJ

LOGIC DIAGRAM

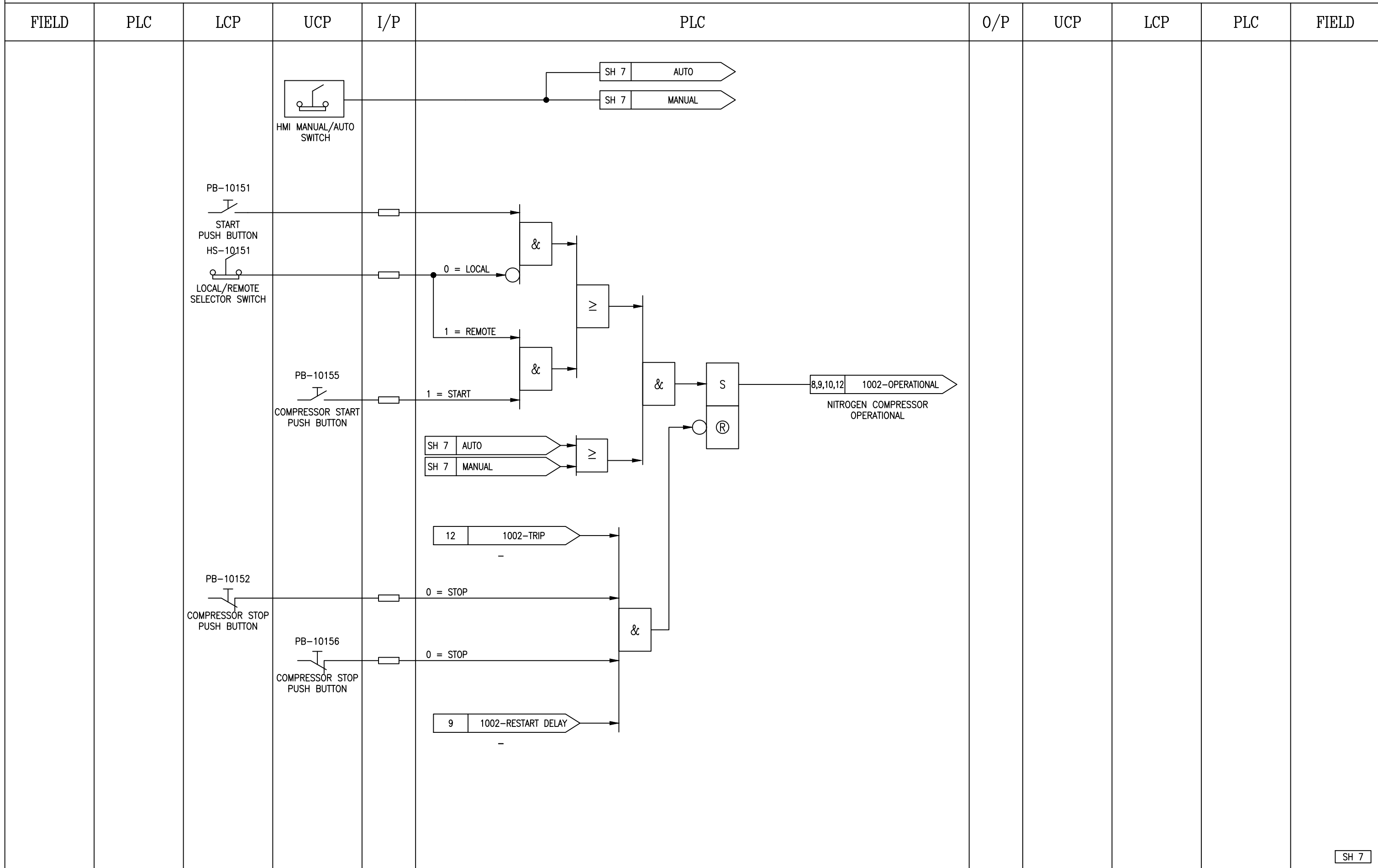


SH 6

NOTES:

	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	
	CLIENT REF	20-C-1002	CHECKED BY	KP	
	AIRPACK REF	17811	PLANT LOCATION	IRAN	
			DRAWING NO.	17811-32A	
			SHEETNO.	06 /13	
					REV 01 29-11-2021 WZ
					REV 00 20-11-2020 TJ

LOGIC DIAGRAM



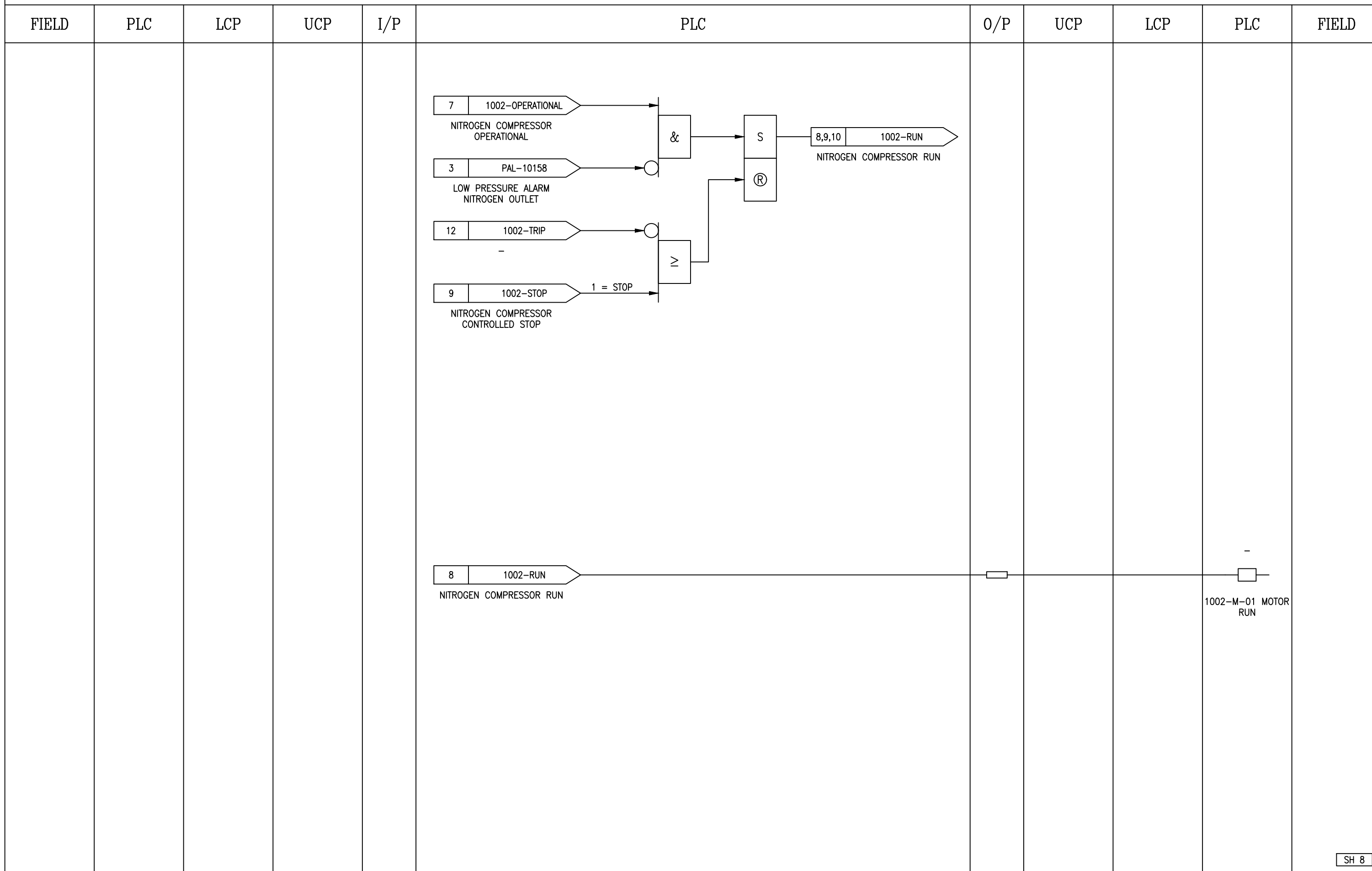
SH 7

NOTES:



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				
		DRAWN BY TJ					
		CHECKED BY KP					
CLIENT BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION IRAN	DRAWING NO. 17811-32A		REV 01 29-11-2021 WZ			
CLIENT REF 20-C-1002		SHEETNO. 07 /13	REV 00 20-11-2020 TJ				
AIRPACK REF 17811							

LOGIC DIAGRAM



12

1002-TRIP

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9

1002-STOP

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1 = STOP
NITROGEN COMPRESSOR CONTROLLED STOP

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8,9,10

1002-RUN

→

NITROGEN COMPRESSOR RUN

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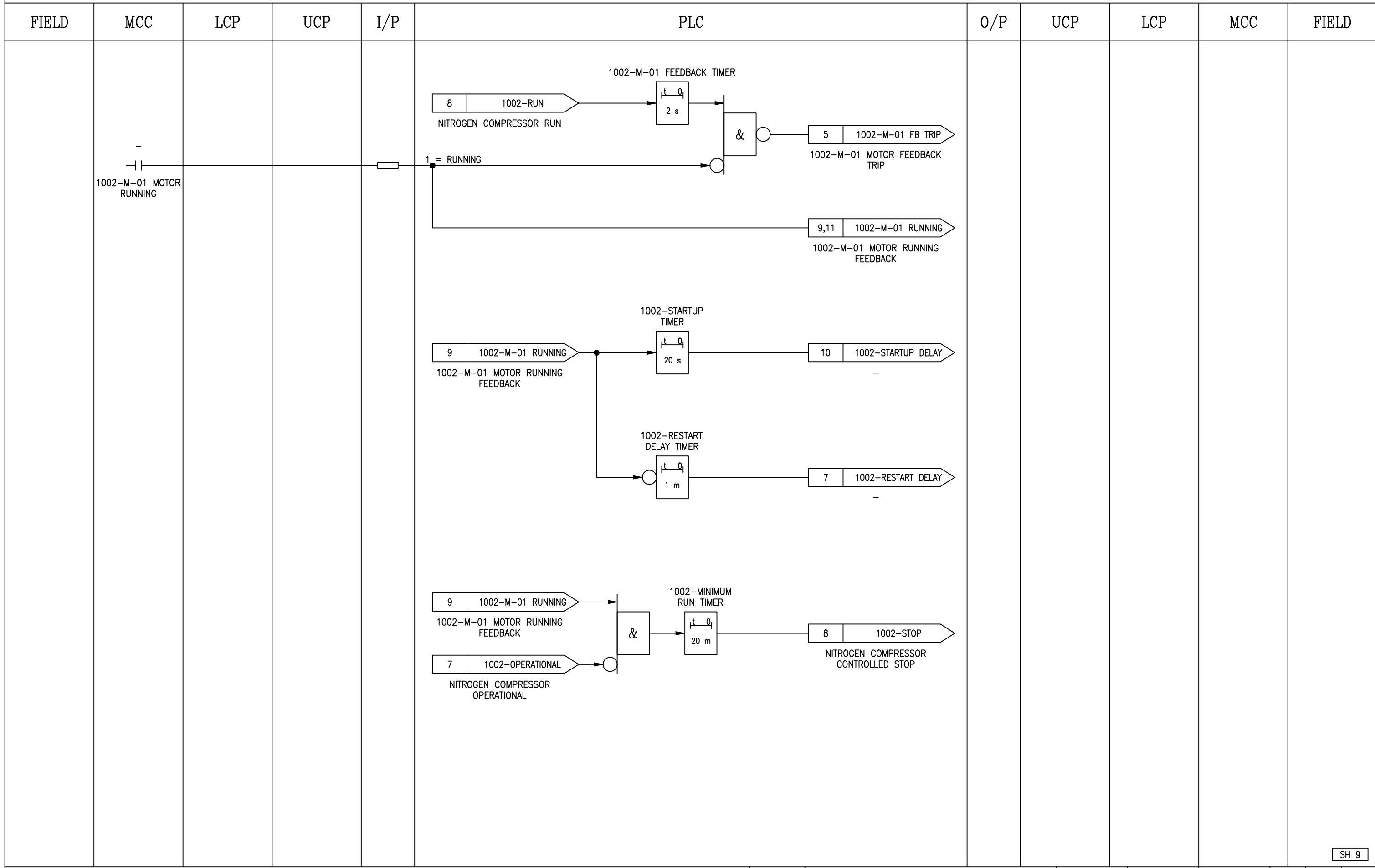
8

1002-RUN

→

NITROGEN COMPRESSOR RUN

LOGIC DIAGRAM



SH 9

NOTES:

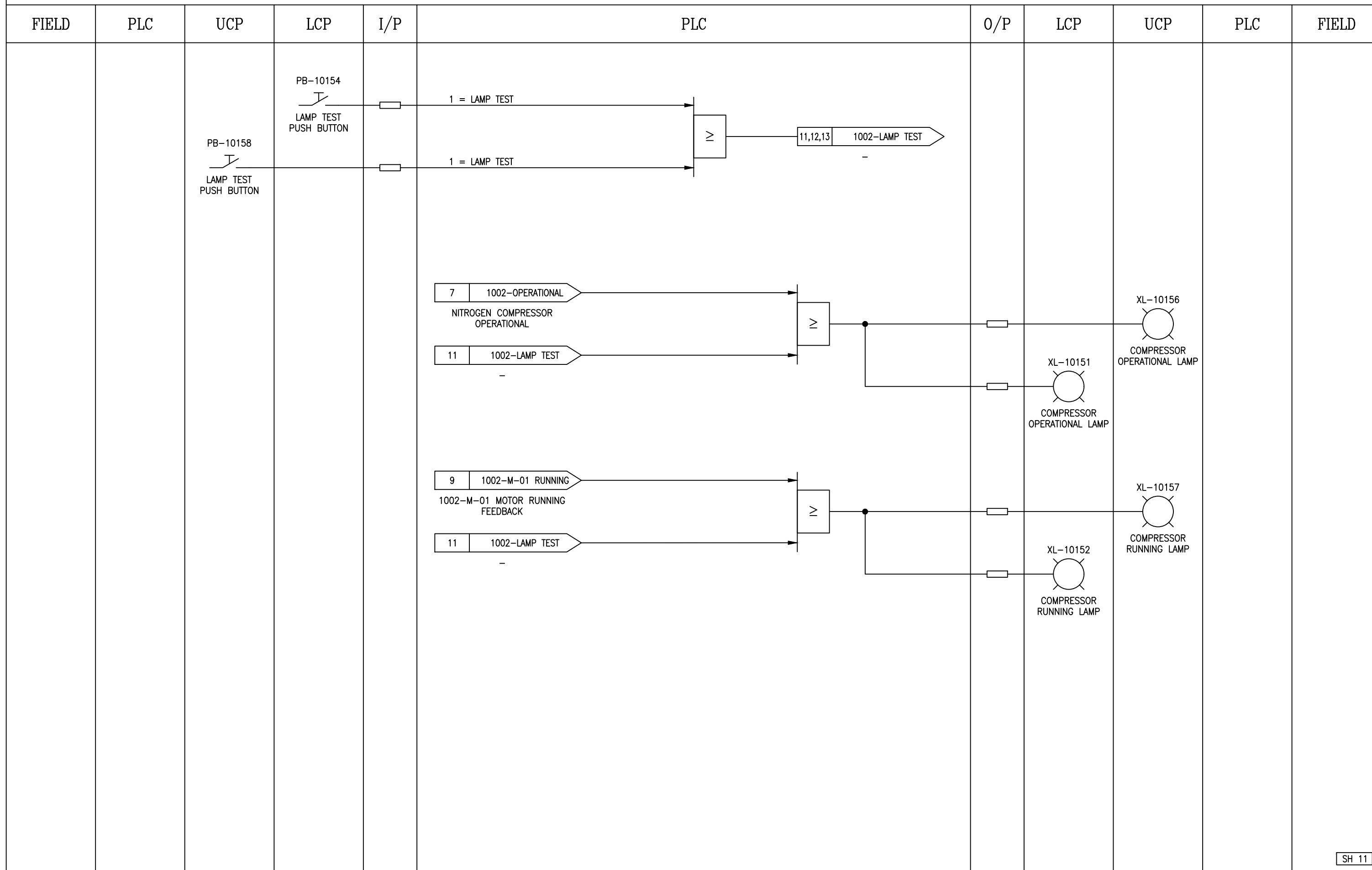


SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR		DATE	20-11-2020
DRAWN BY		TJ		CHECKED BY	KP
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN		
CLIENT REF	20-C-1002	DRAWING NO.	17811-32A		
AIRPACK REF	17811	SHEETNO.	09 /13		

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


REV 01	29-11-2021	WZ
REV 00	20-11-2020	TJ

LOGIC DIAGRAM

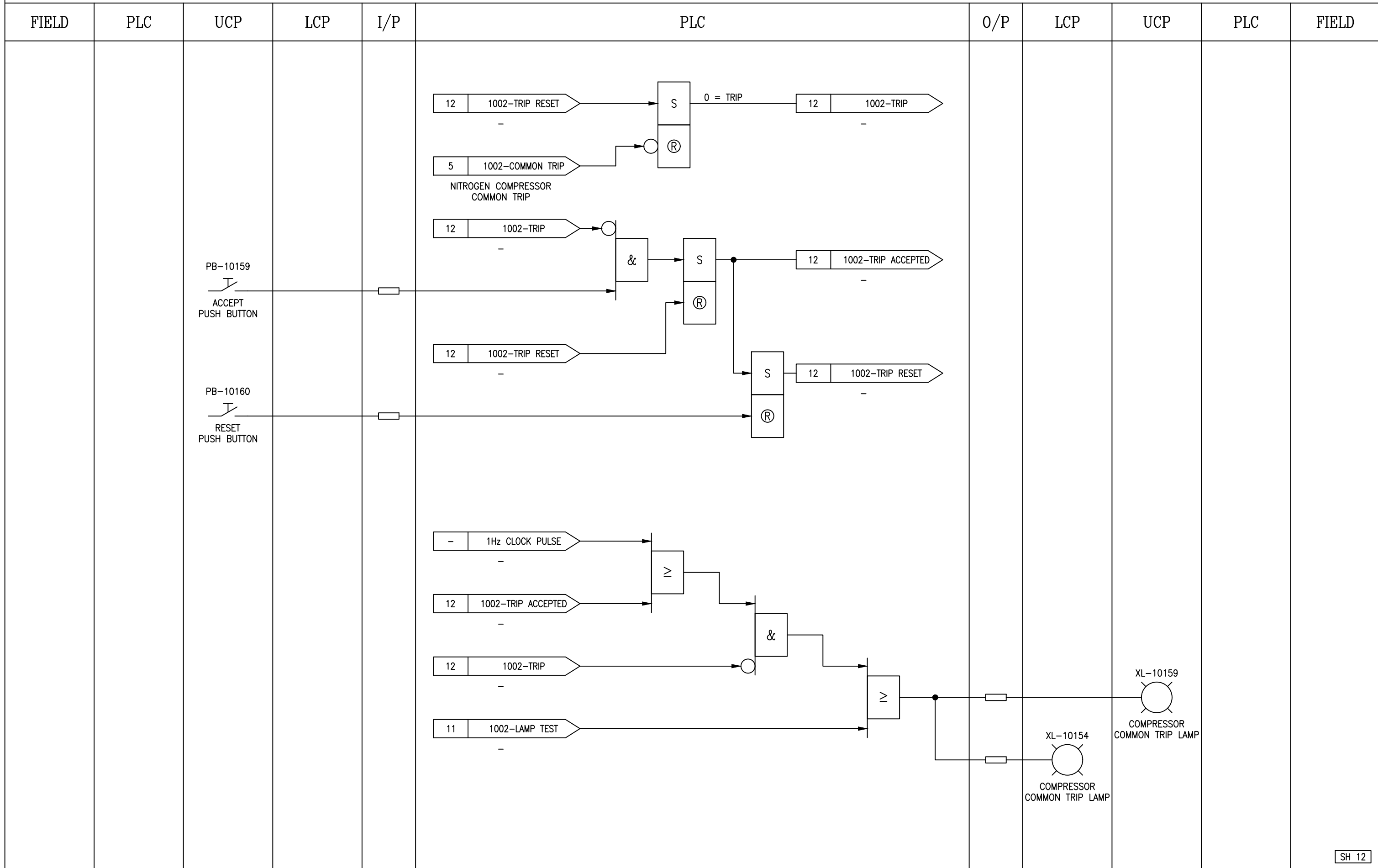


SH 11

NOTES:

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

LOGIC DIAGRAM



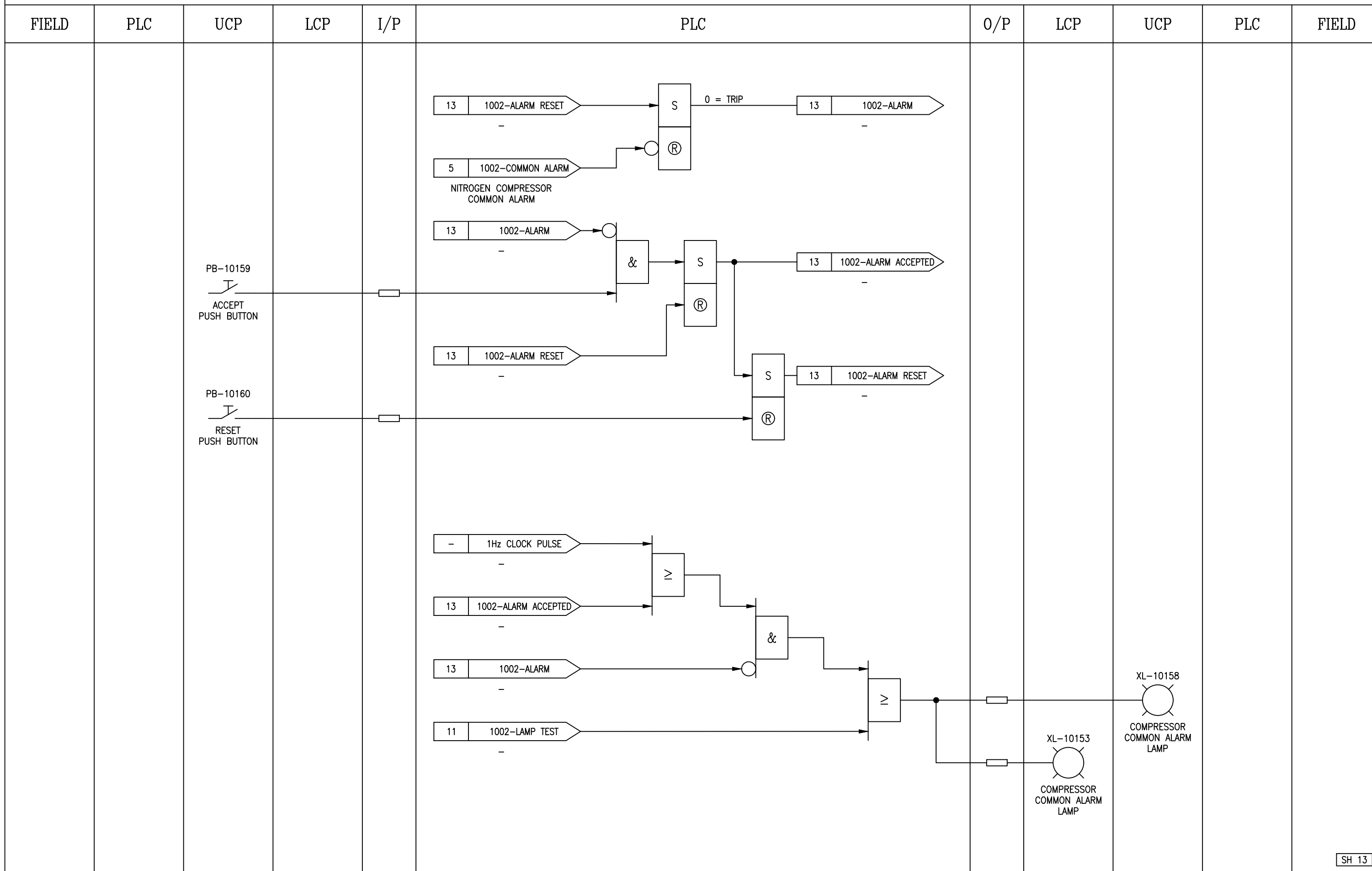
SH 12

NOTES:



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
		DRAWN BY	TJ	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	CHECKED BY	KP	
CLIENT REF	20-C-1002	PLANT LOCATION	IRAN	
AIRPACK REF	17811	DRAWING NO.	17811-32A	
		SHEETNO.	12 / 13	
		REV 01	29-11-2021 WZ	
		REV 00	20-11-2020 TJ	

LOGIC DIAGRAM



SH 13

NOTES:

	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)	PLANT LOCATION IRAN	DRAWN BY TJ	
	CLIENT REF 20-C-1002	DRAWING NO. 17811-32A	CHECKED BY KP	
	AIRPACK REF 17811	SHEETNO. 13 / 13		
				REV 01 29-11-2021 WZ REV 00 20-11-2020 TJ