





OWNER:  شرکت مست و سوبی توهر ایرانیاان (سهایی ناس)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
MC :  شرکت مست و سوبی توهر ایرانیاان (سهایی ناس)	LOGIC DIAGRAMS-PROGRAM OF UCP - COMPRESSOR SHUTDOWN LOGIC DRAWING FOR NITROGEN GAS BOOSTER								
Owner Document Number: 17811-32A								Project	Area
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LOGIC DIAGRAMS-PROGRAM OF UCP - COMPRESSOR SHUTDOWN LOGIC DRAWING FOR NITROGEN GAS BOOSTER

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

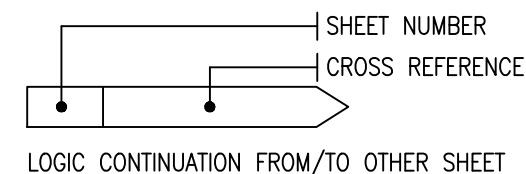
SYMBOL	DESCRIPTION
	EMERGENCY PUSHBUTTON, RED HEAD, STAY PUT.
	TOGGLE SWITCH
	PUSHBUTTON MOMENTARILY MAKE
	PUSHBUTTON MOMENTARILY BREAK
	CONTACT NORMALLY OPEN
	CONTACT NORMALLY CLOSED
	HARDWIRED INPUT/OUTPUT
	SOLENOID VALVE, 3-WAY
	DISTRIBUTED CONTROL SYSTEM
	PLC CONTROL SYSTEM
	DCS AUXILIARY CONSOLE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

ABBREVIATIONS

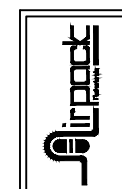
DCS : DISTRIBUTED CONTROL SYSTEM
 UCP : UNIT CONTROL PANEL
 LCP : LOCAL CONTROL PANEL
 PLC : PROGRAMMABLE LOGIC CONTROLLER
 I/P : INPUT
 O/P : OUTPUT
 ESD : EMERGENCY SHUTDOWN
 MCC : MOTOR CONTROL CENTRE

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

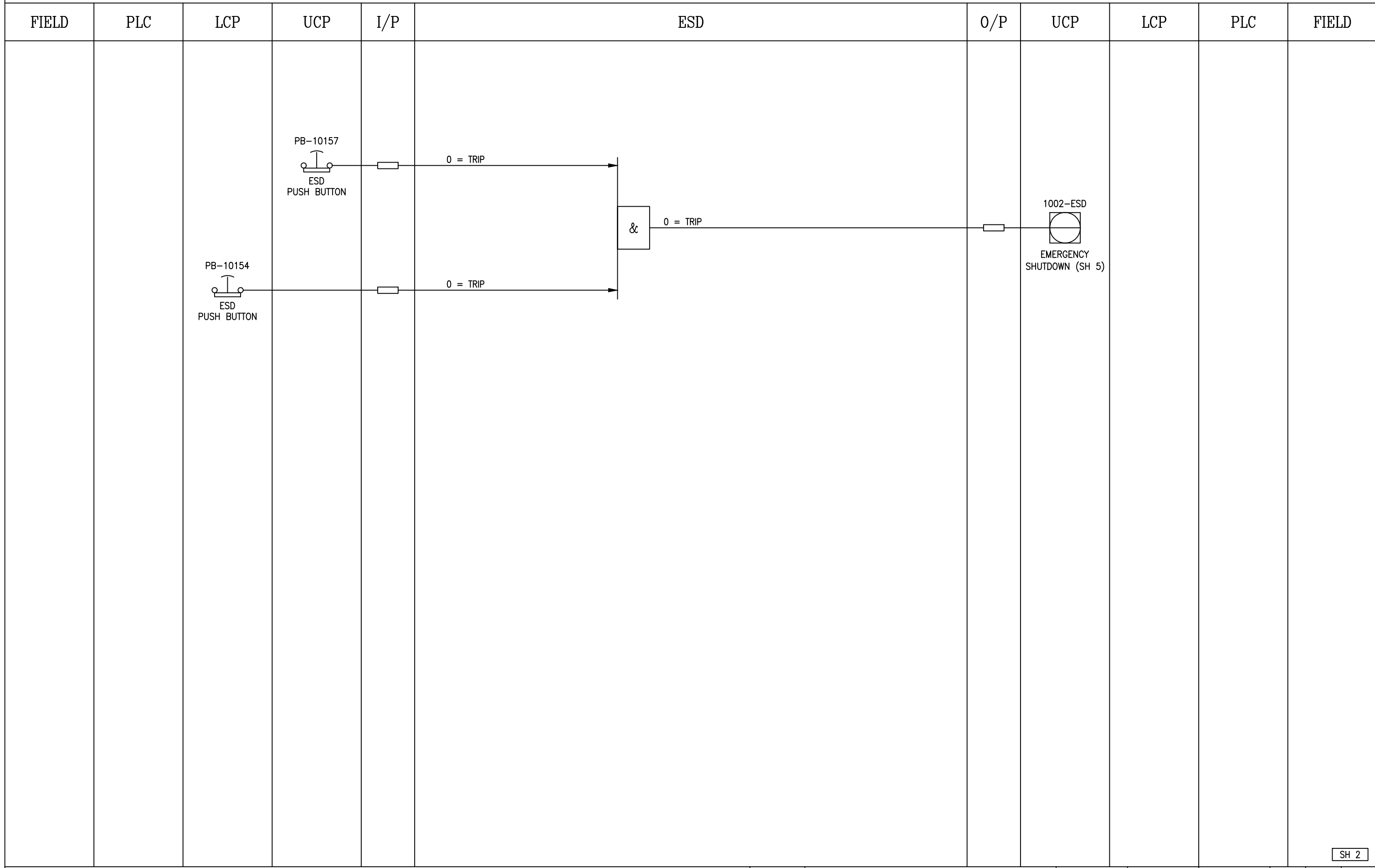


SH 1



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			
	CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	DRAWN BY		TJ		
CLIENT REF	20-C-1002	CHECKED BY	KP	PLANT LOCATION	IRAN		
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:



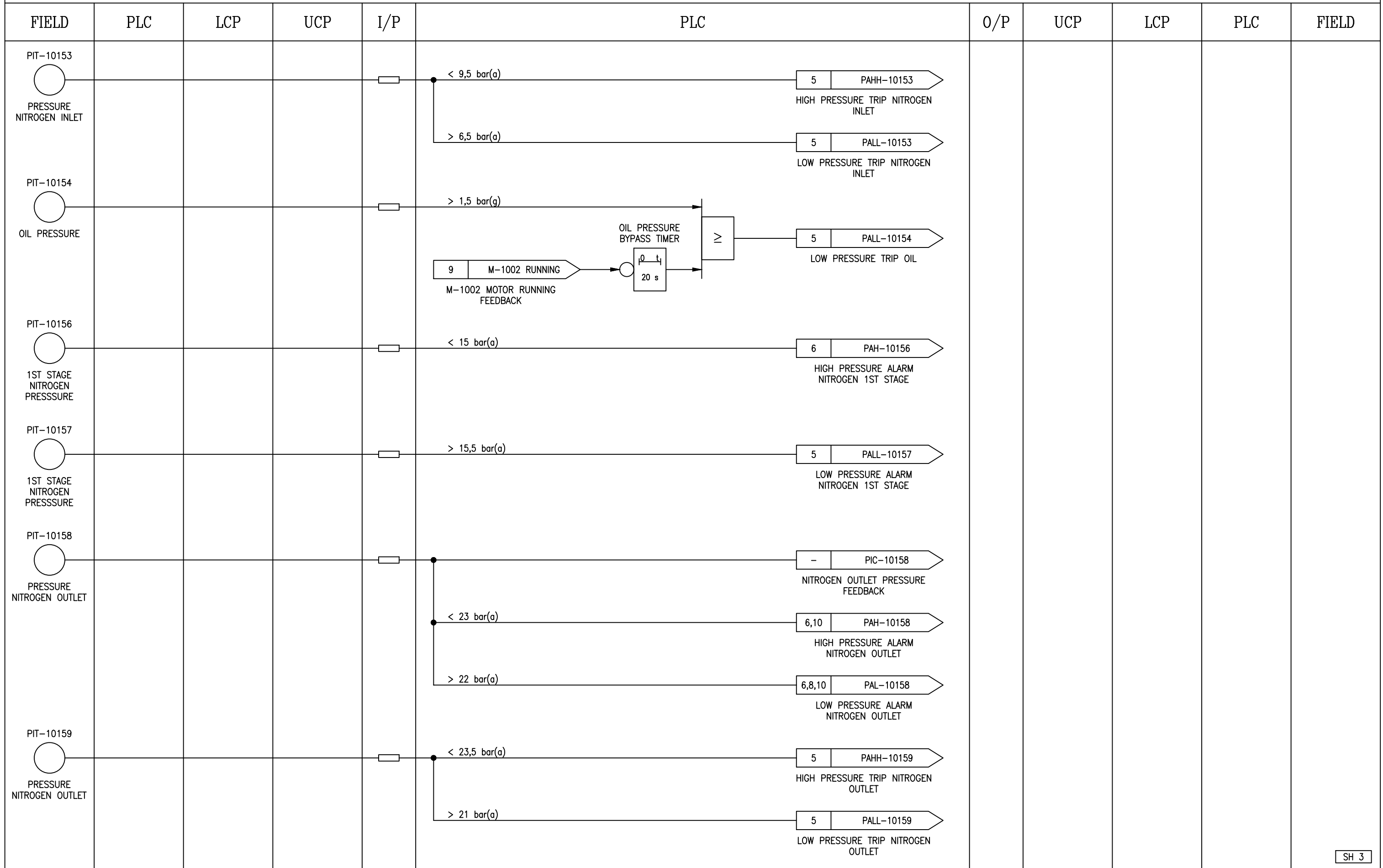
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CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-1002	DRAWING NO.	17811-32A
AIRPACK REF	17811	SHEETNO.	02 / 13

DATE	20-11-2020
DRAWN BY	TJ
CHECKED BY	KP

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

LOGIC DIAGRAM

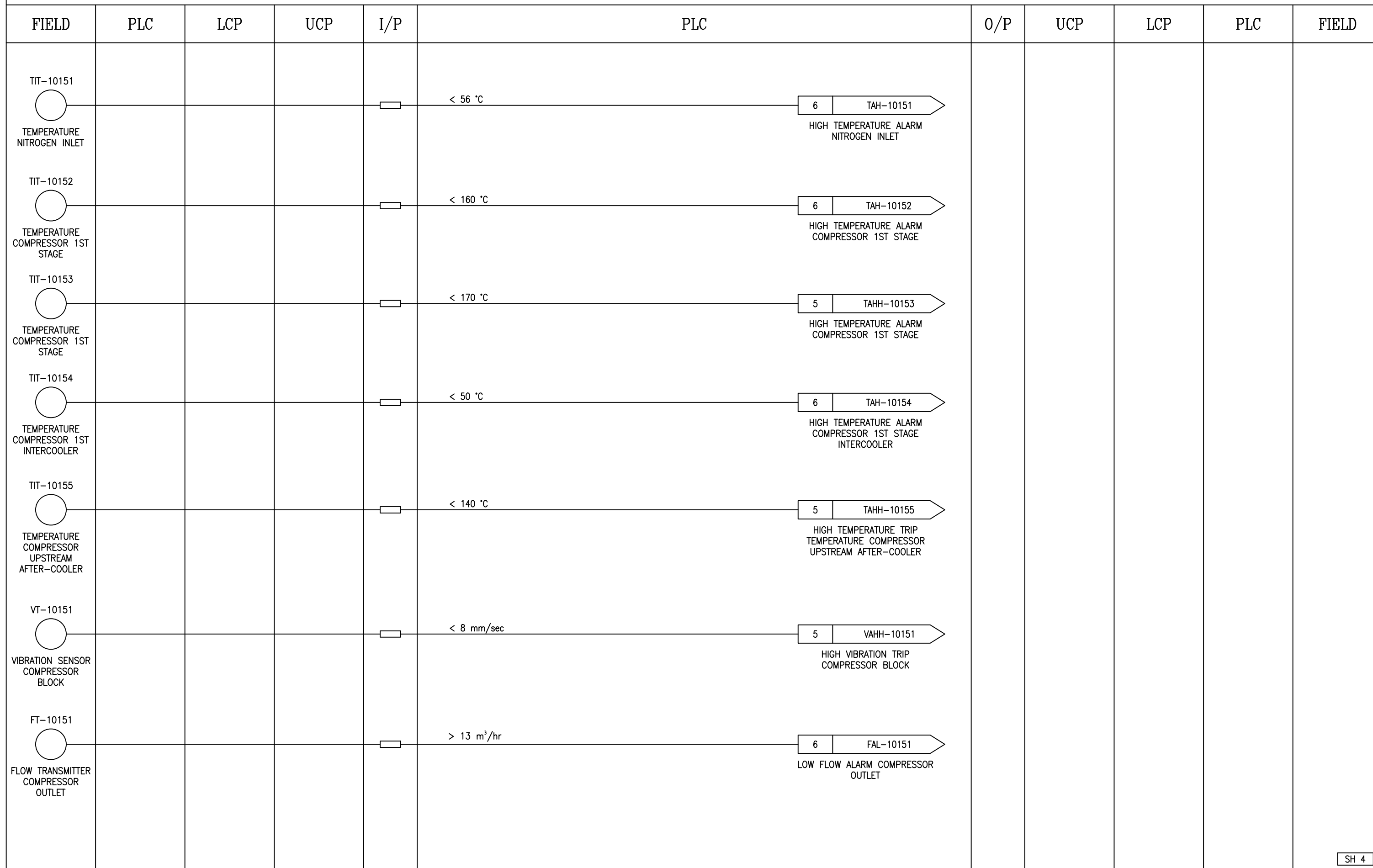


SH 3

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

LOGIC DIAGRAM

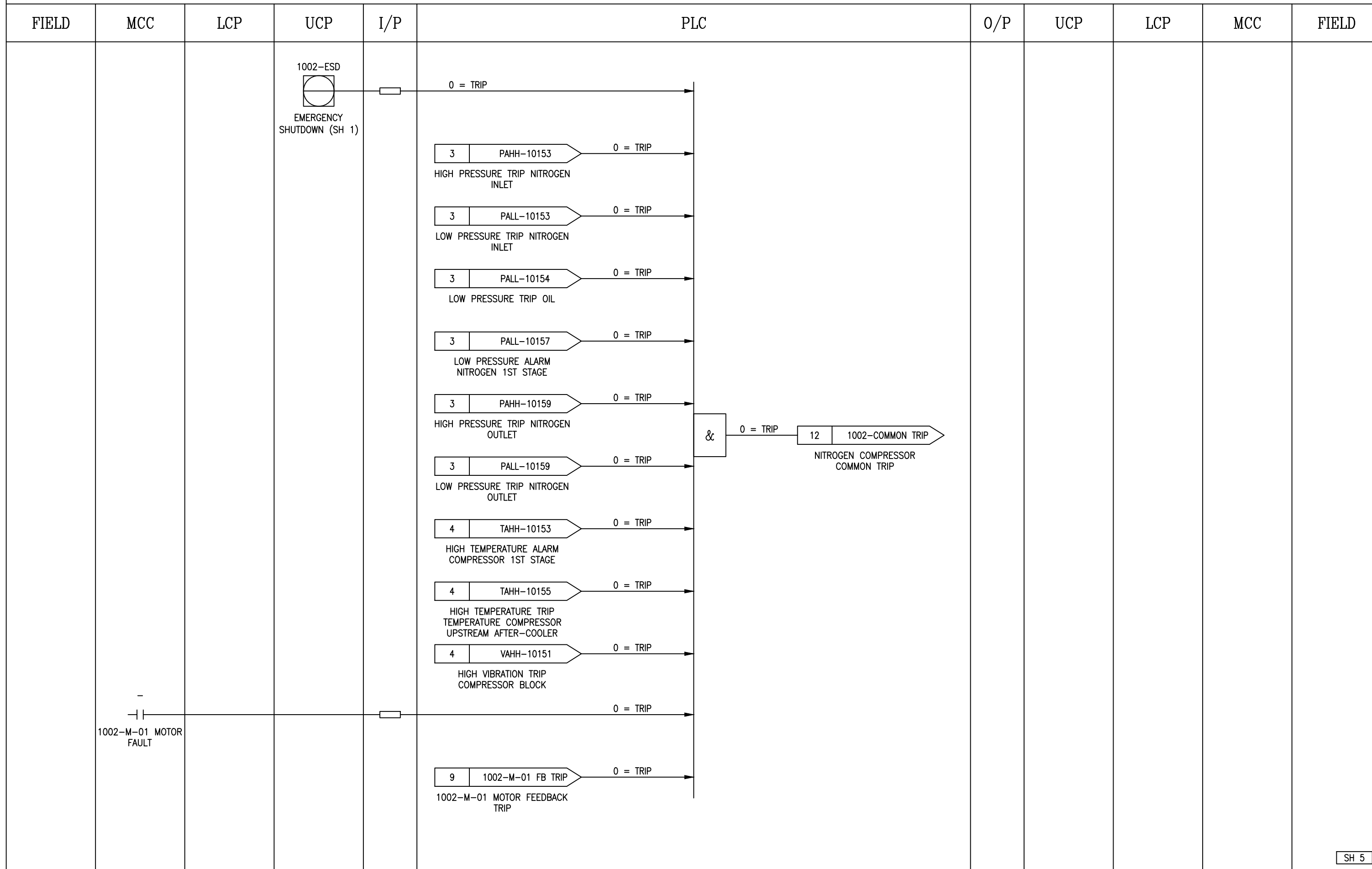


SH 4

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

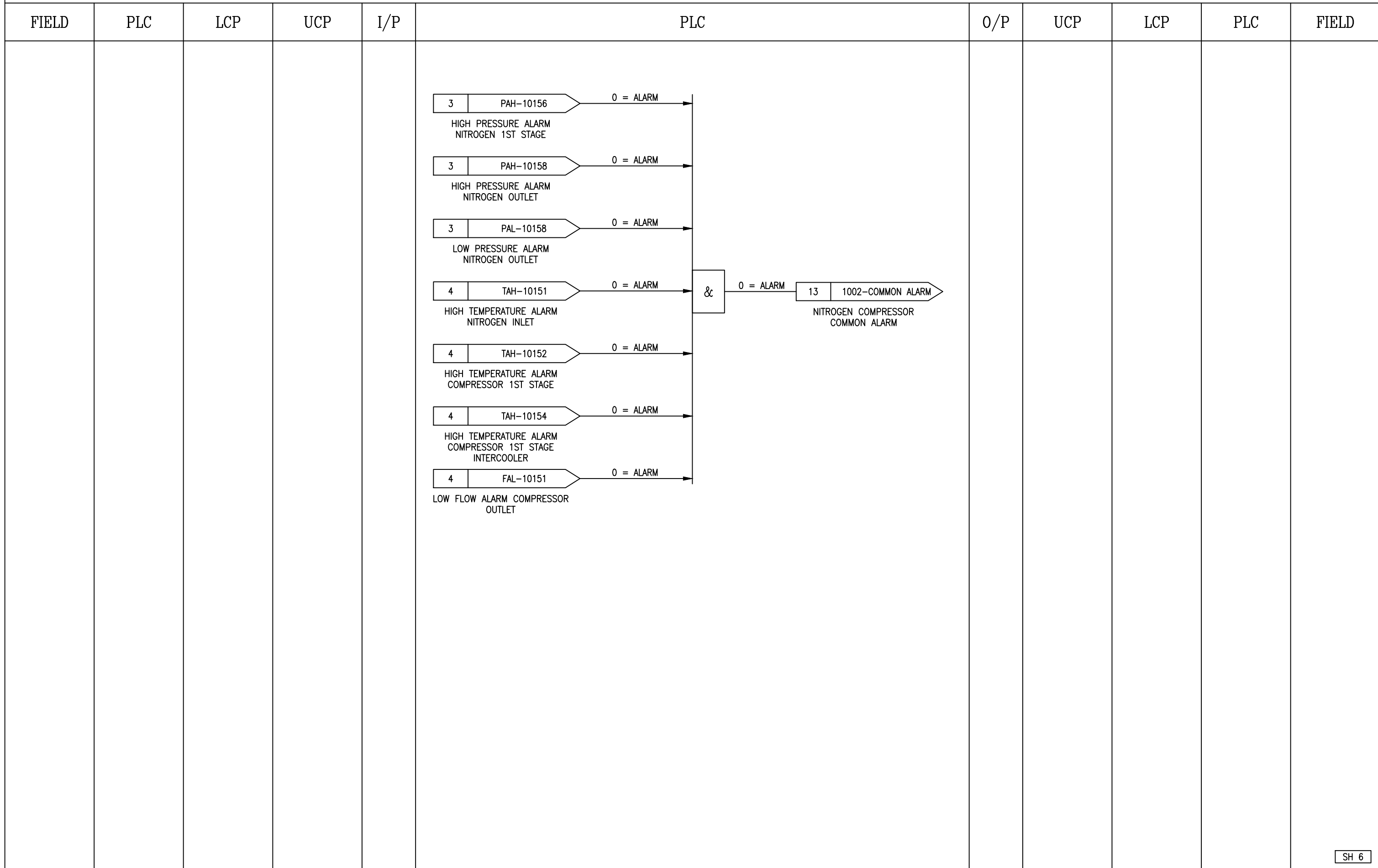


SH 5

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:



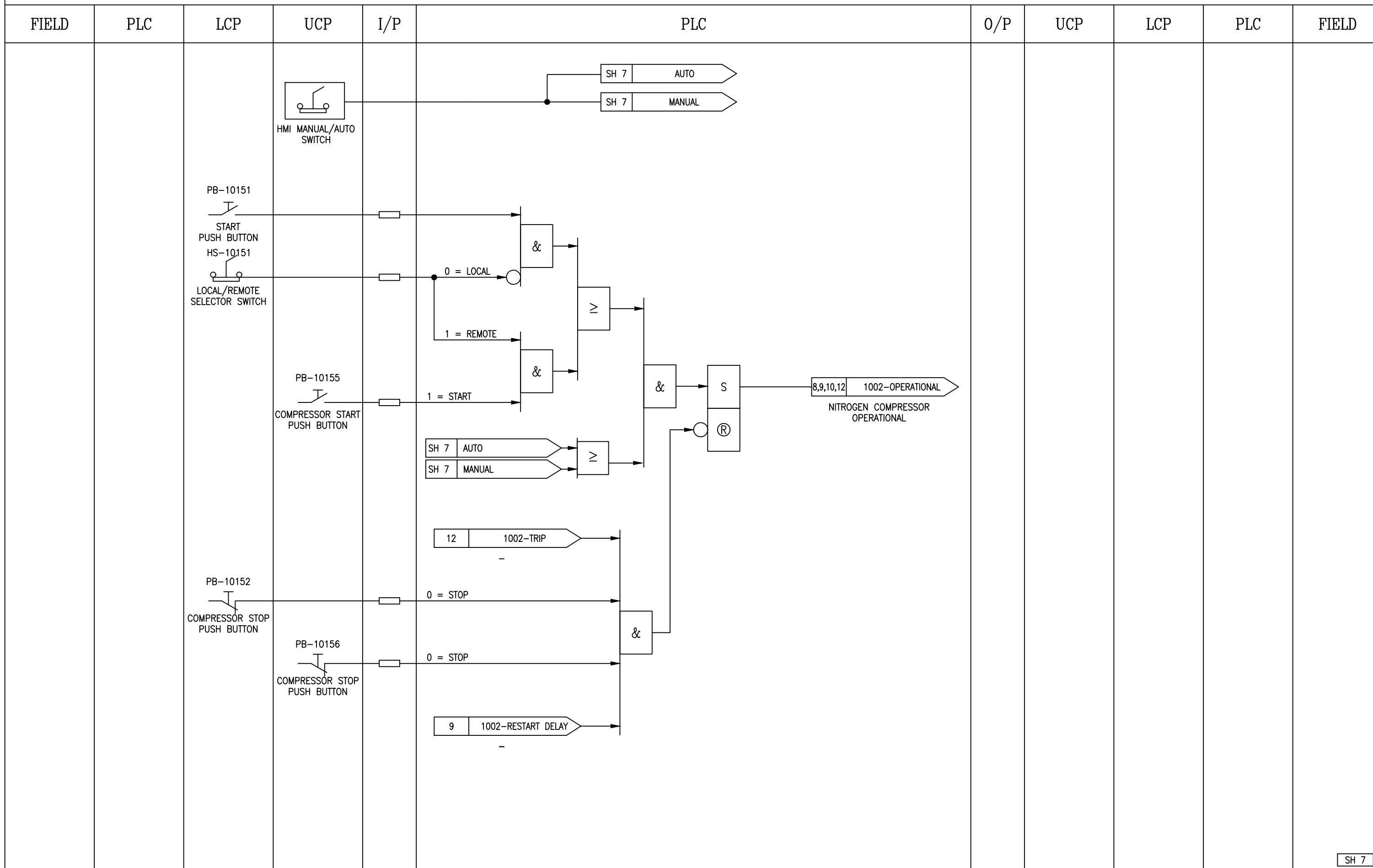
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CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-1002	DRAWING NO.	17811-32A
AIRPACK REF	17811	SHEETNO.	06 /13

DATE	20-11-2020
DRAWN BY	TJ
CHECKED BY	KP

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

LOGIC DIAGRAM



SH 7

NOTES:



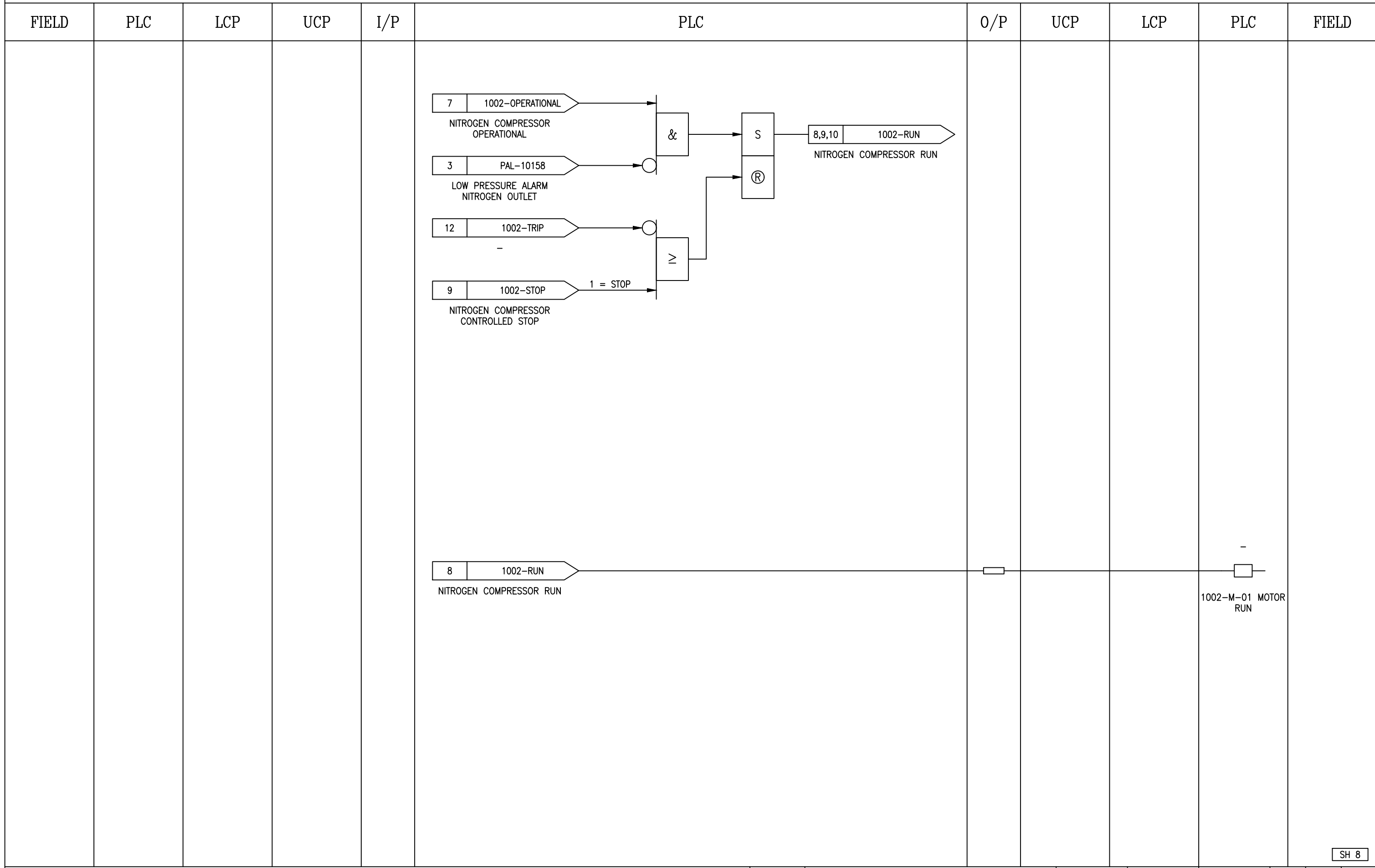
SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-1002	DRAWING NO.	17811-32A
AIRPACK REF	17811	SHEETNO.	07 /13

DATE	20-11-2020
DRAWN BY	TJ
CHECKED BY	KP

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

LOGIC DIAGRAM



NOTES:



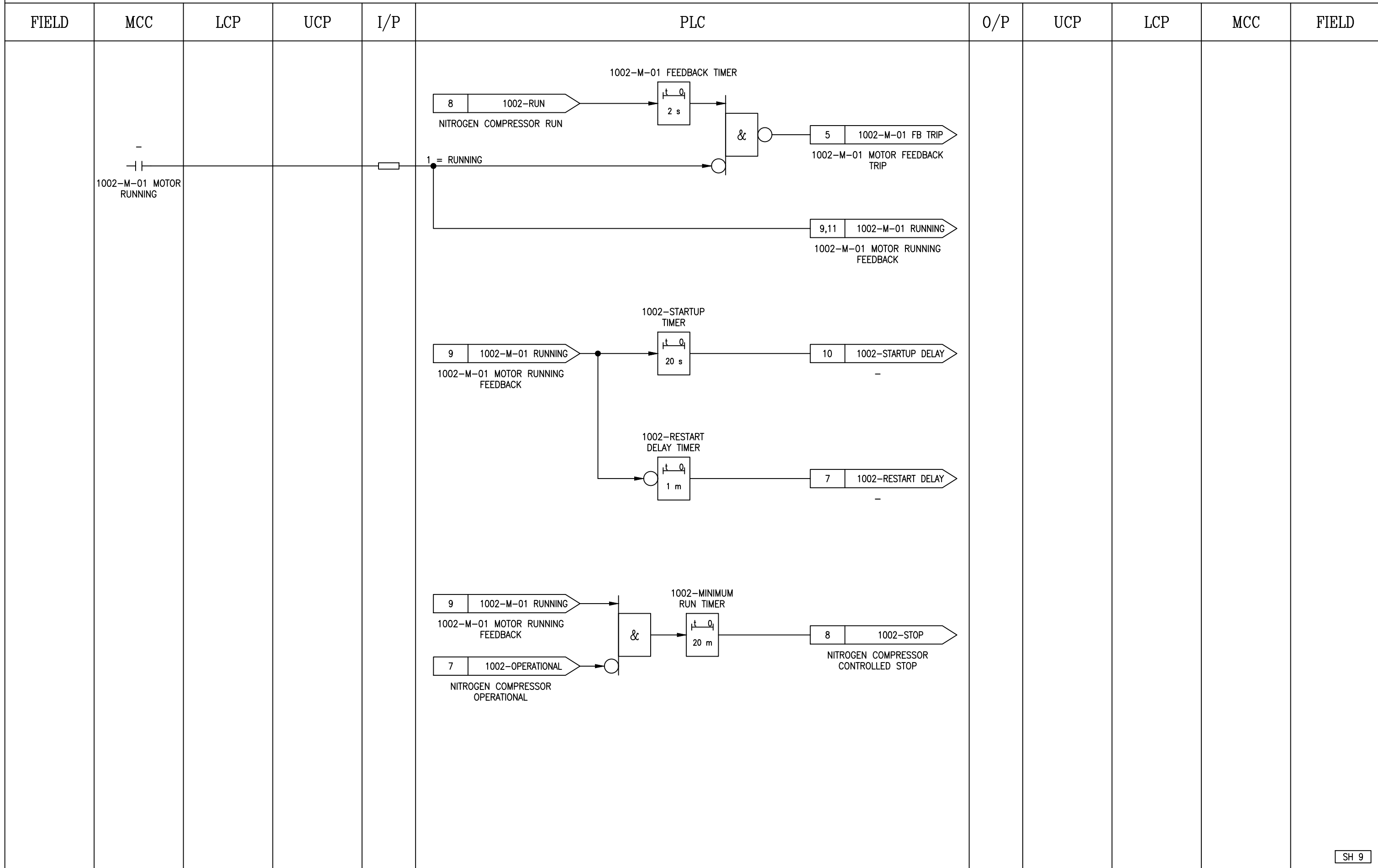
SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-1002	DRAWING NO.	17811-32A
AIRPACK REF	17811	SHEETNO.	08 /13

DATE	20-11-2020
DRAWN BY	TJ
CHECKED BY	KP

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

LOGIC DIAGRAM

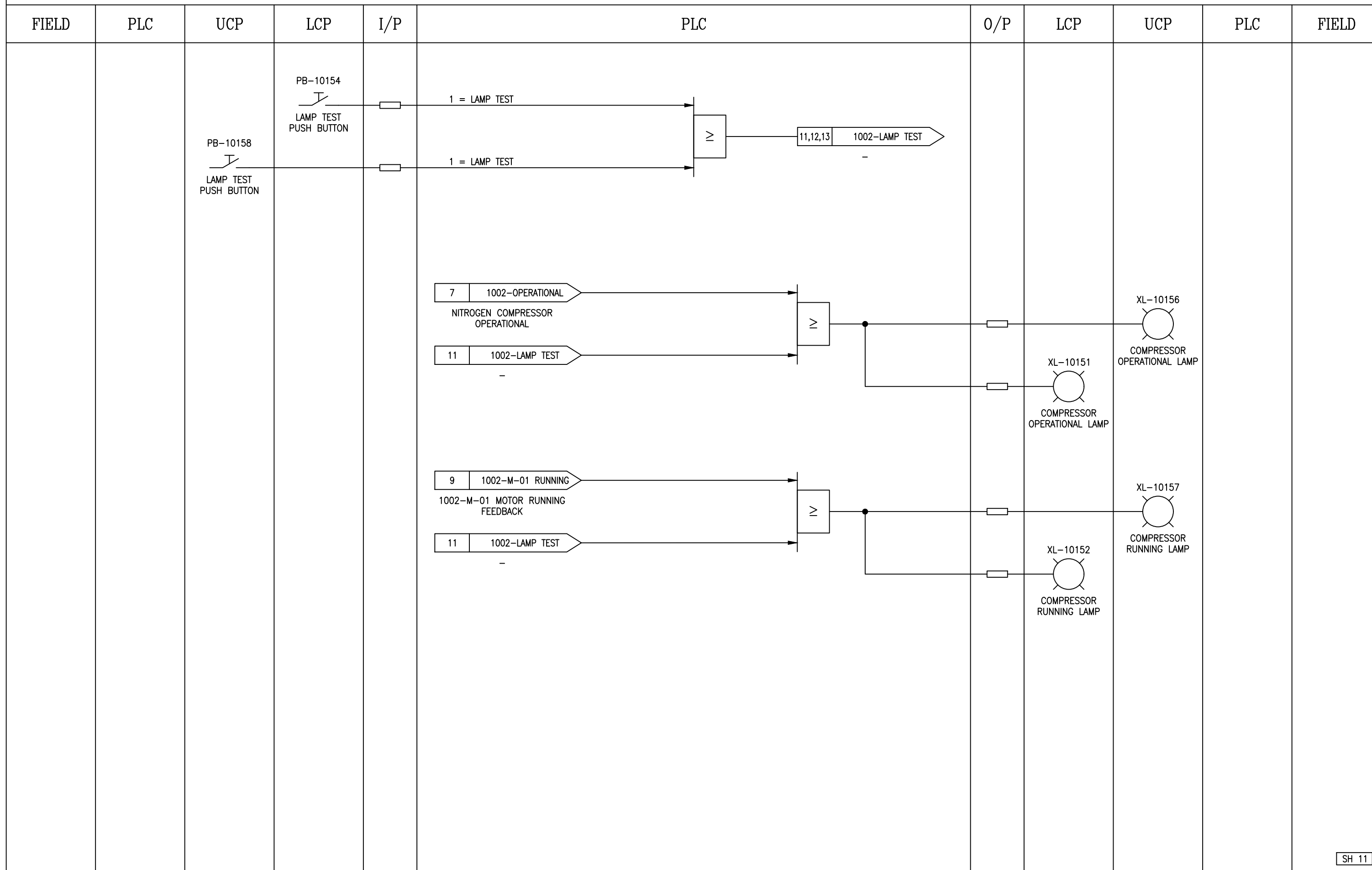


SH 9

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. 09 /13			
			REV 01 29-11-2021 WZ	
			REV 00 20-11-2020 TJ	

LOGIC DIAGRAM

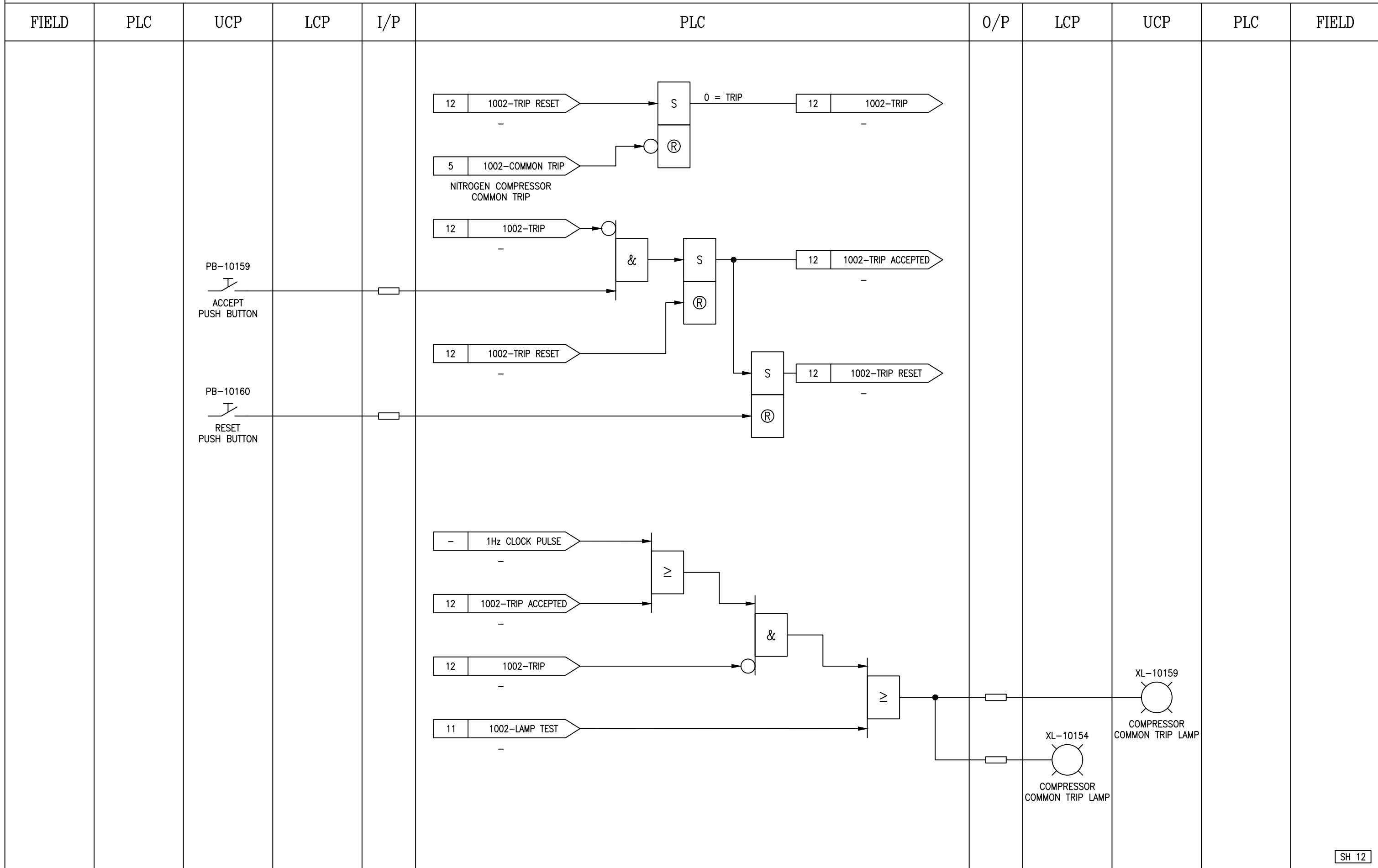


SH 11

NOTES:

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

LOGIC DIAGRAM



SH 12

NOTES:

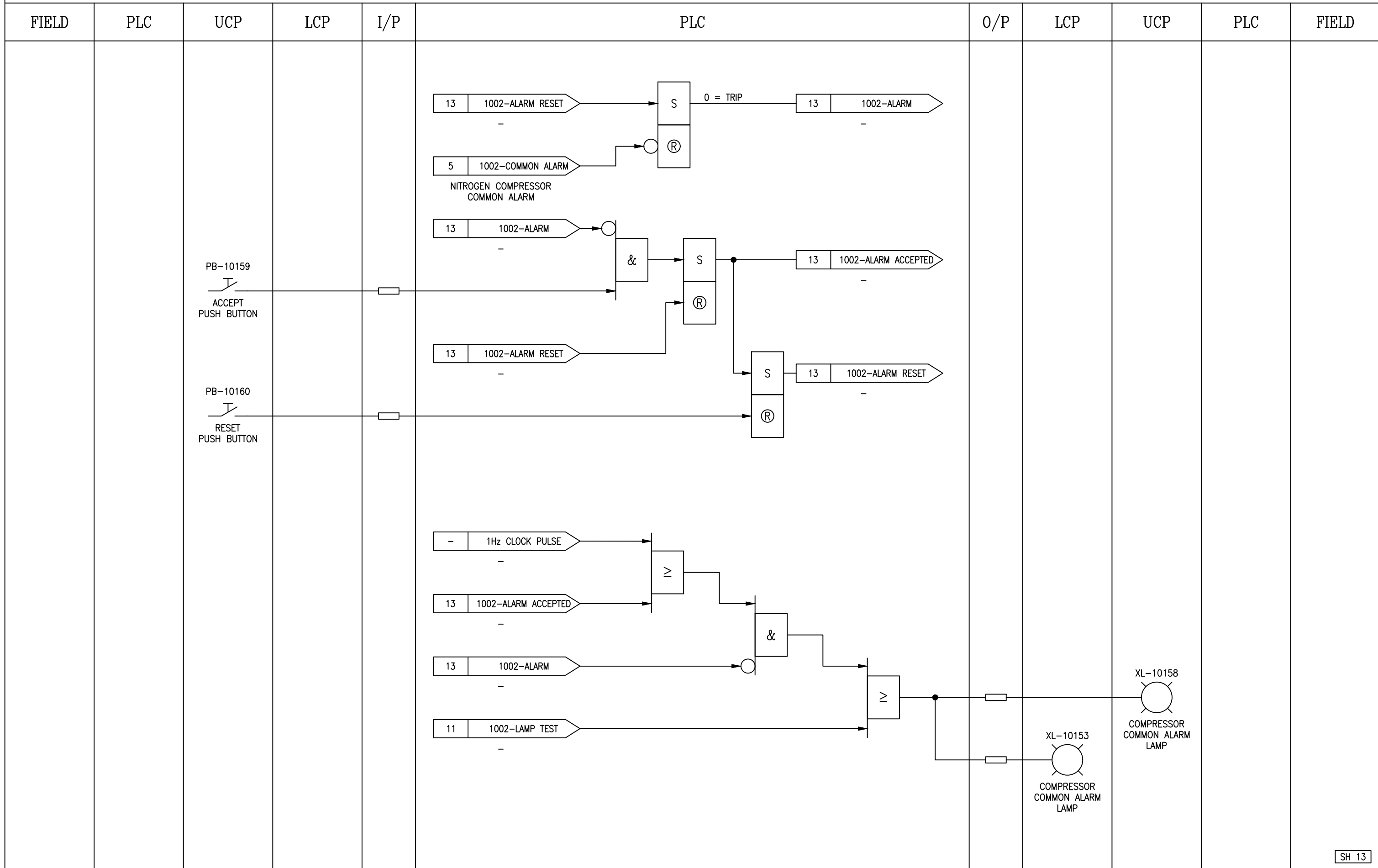


SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-1002	DRAWING NO.	17811-32A
AIRPACK REF	17811	SHEETNO.	12 /13

DATE	20-11-2020
DRAWN BY	TJ
CHECKED BY	KP

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

DATE	20-11-2020
DRAWN BY	TJ
CHECKED BY	KP

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