







OWNER:  شرکت سست و سویی توپو ایرانیان (سهایی ناس)	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								
MC :  شرکت سست و سویی توپو ایرانیان (سهایی ناس)	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
								05	1 of 16

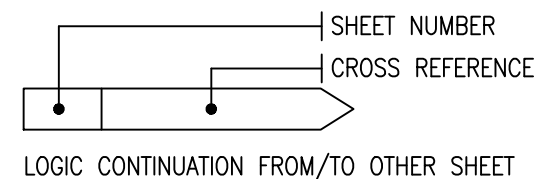
LOGIC DIAGRAMS-PROGRAM OF UCP - COMPRESSOR SHUTDOWN LOGIC DRAWING FOR NITROGEN GAS BOOSTER

 شرکت سست و سویی توپو ایرانیان توسعه کپسور گازیان	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	AFC	
Result Code: AP,AN,CM,RE,NC	AN	
Next Status : IFC,IFA,IFI,AFC,AB	AFC	
Responsible Department	MECHANICAL	
Commented Date	7/13/2022	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

05	05/07/2022	Approved for Construction	RT	KP	JR	
04	17/05/2022	Approved for Construction	AZ	KP	JR	
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	
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

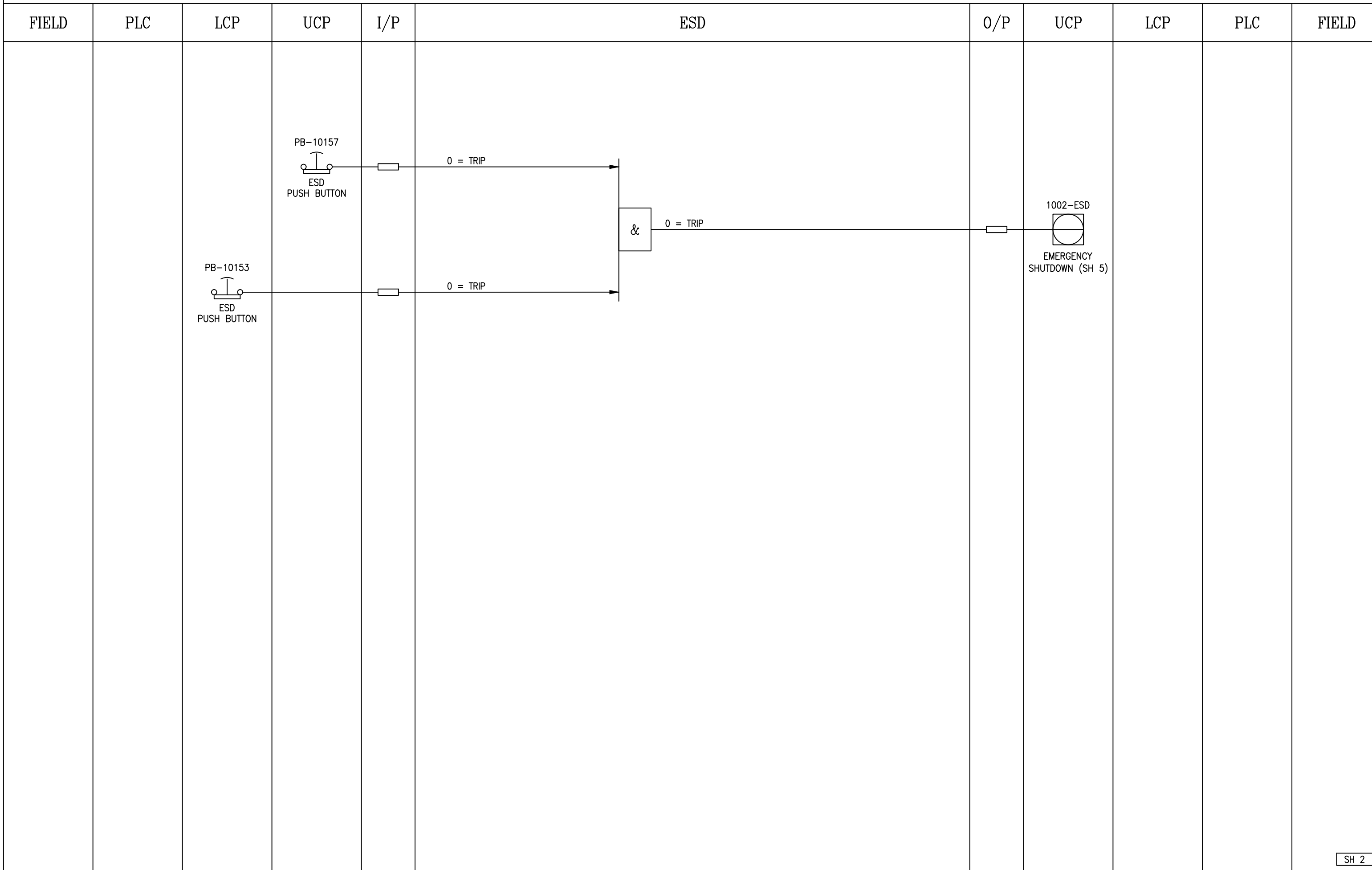
GENERAL NOTES

- 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		
	AIRPACK REF	17811	PLANT LOCATION	IRAN		
			DRAWING NO.	17811-32A		
		SHEETNO.	01 /14	REV 05	04-07-2022	RT
				REV 04	16-05-2022	WZ
				REV 03	18-03-2022	AS
				REV 02	03-01-2022	AS
				REV 01	29-11-2021	WZ
				REV 00	20-11-2020	TJ

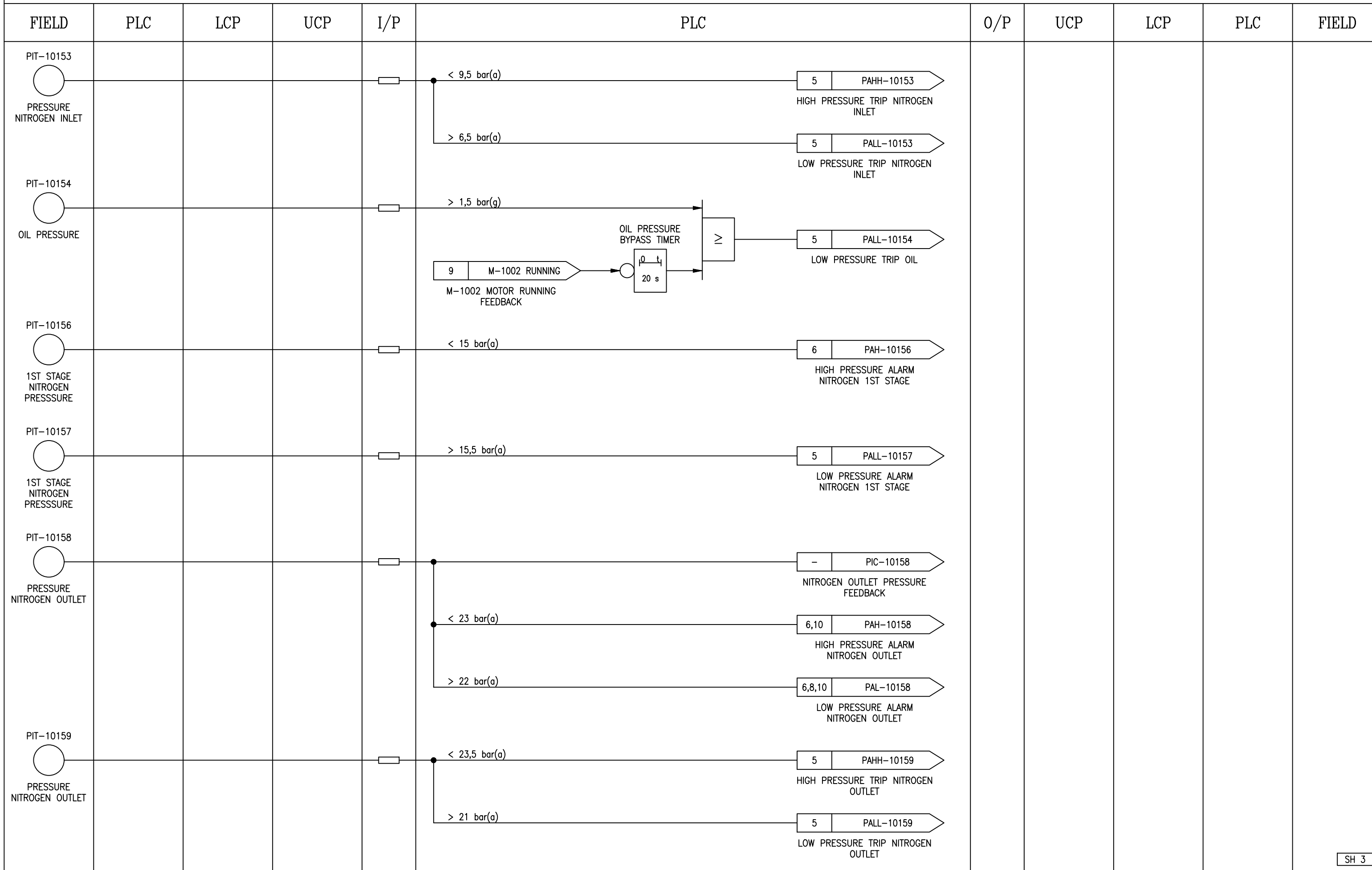
LOGIC DIAGRAM



NOTES:

	SUBJECT BUSHEHR PETROCHEMICAL COMPANY		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
	MEG PLANT		DRAWN BY	TJ	
	NITROGEN COMPRESSOR		CHECKED BY	KP	
	CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN	
	CLIENT REF	20-C-1002	DRAWING NO.	17811-32A	
AIRPACK REF	17811	SHEETNO.	02 / 14		
					REV 05 04-07-2022 RT REV 04 16-05-2022 WZ 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



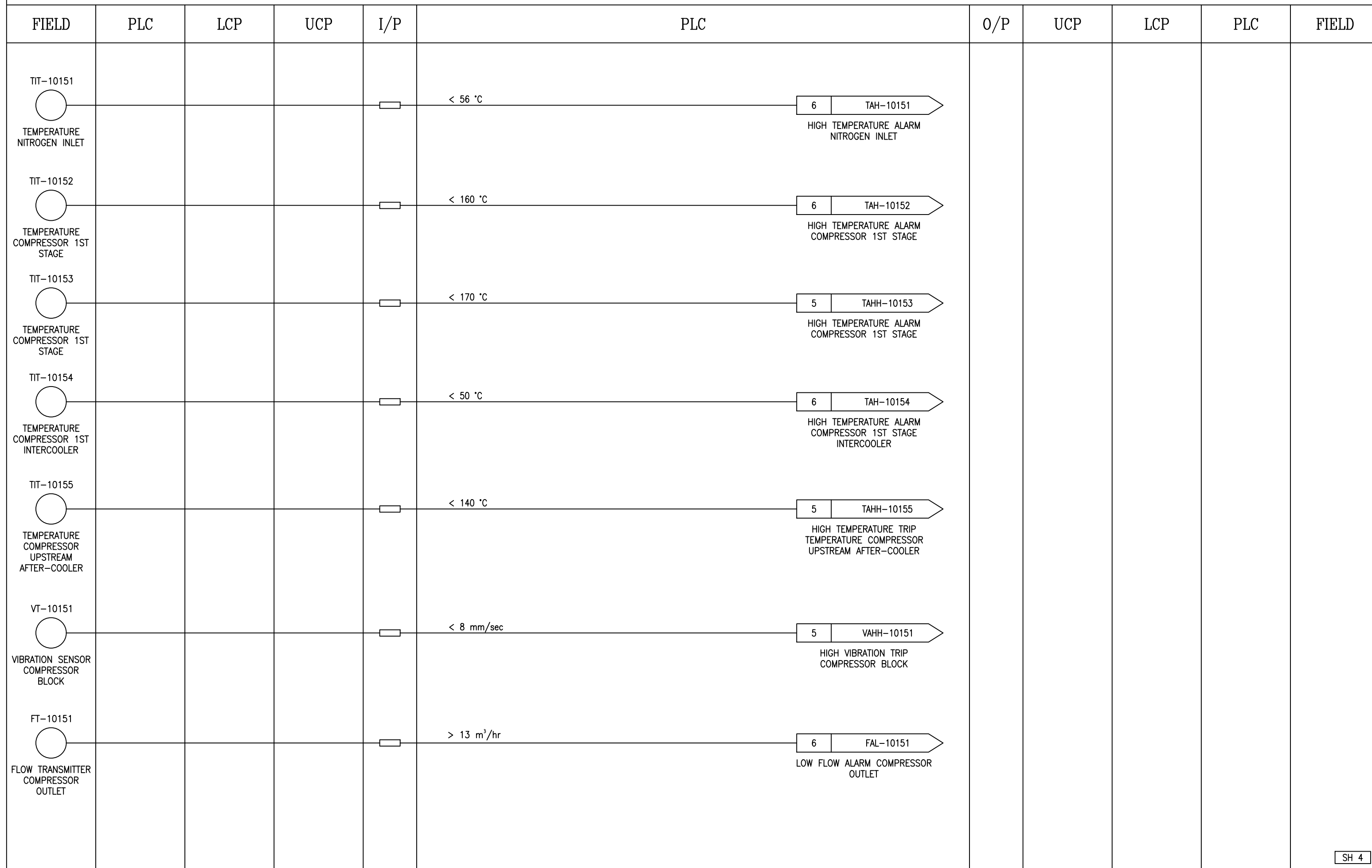
SH 3

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		
	CLIENT REF 20-C-1002	DRAWING NO. 17811-32A		
AIRPACK REF 17811	SHEETNO. 03 / 14			

REV 05	04-07-2022	RT
REV 04	16-05-2022	WZ
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 4

NOTES:

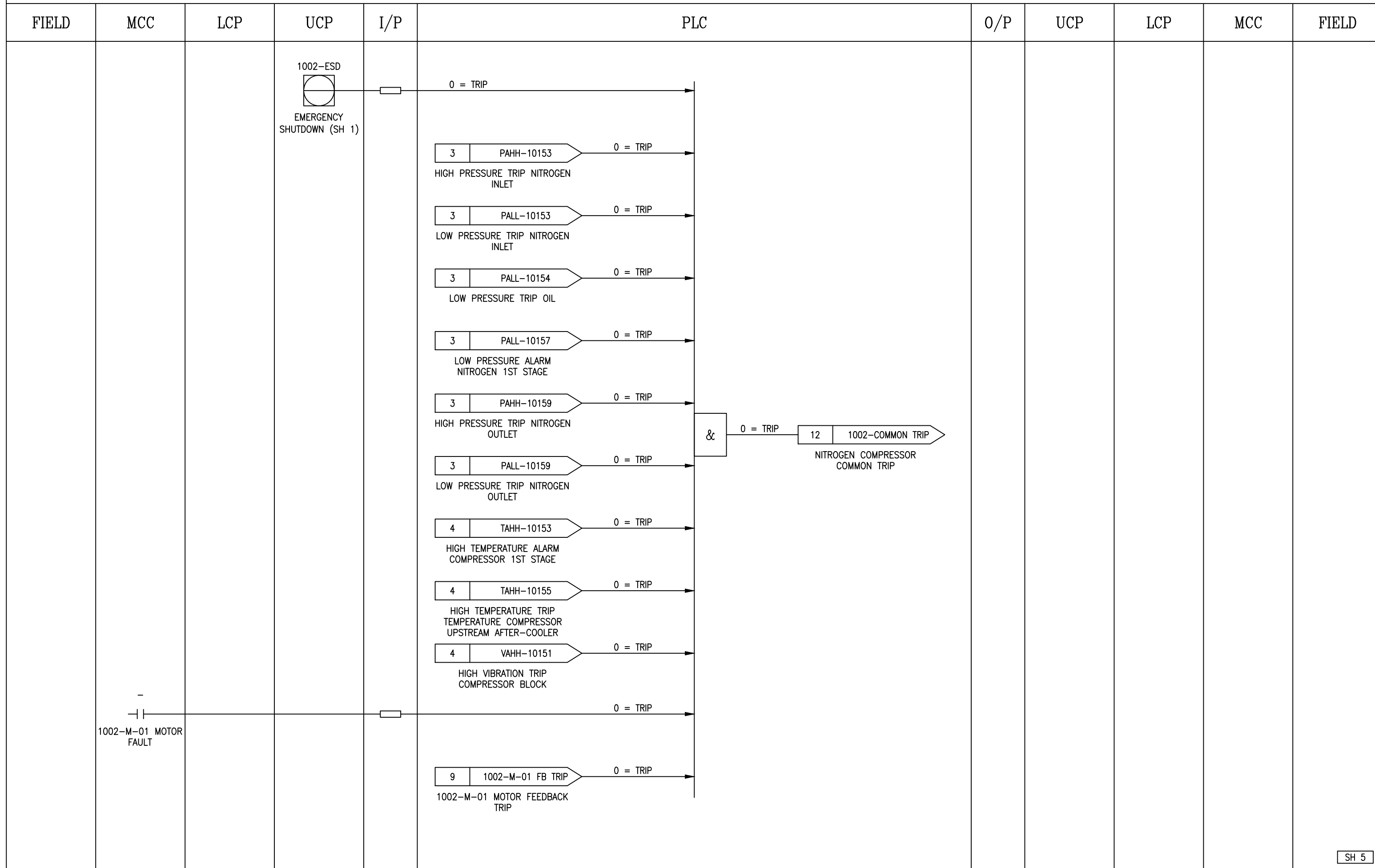


SUBJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)
CLIENT REF	20-C-1002
AIRPACK REF	17811

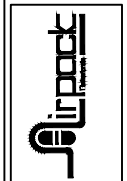
DATE	20-11-2020
DRAWN BY	TJ
CHECKED BY	KP
PLANT LOCATION	IRAN
DRAWING NO.	17811-32A
SHEETNO.	04 / 14

THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION		
REV 05	04-07-2022	RT
REV 04	16-05-2022	WZ
REV 03	18-03-2022	AS
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REV 01	29-11-2021	WZ
REV 00	20-11-2020	TJ

LOGIC DIAGRAM



NOTES:

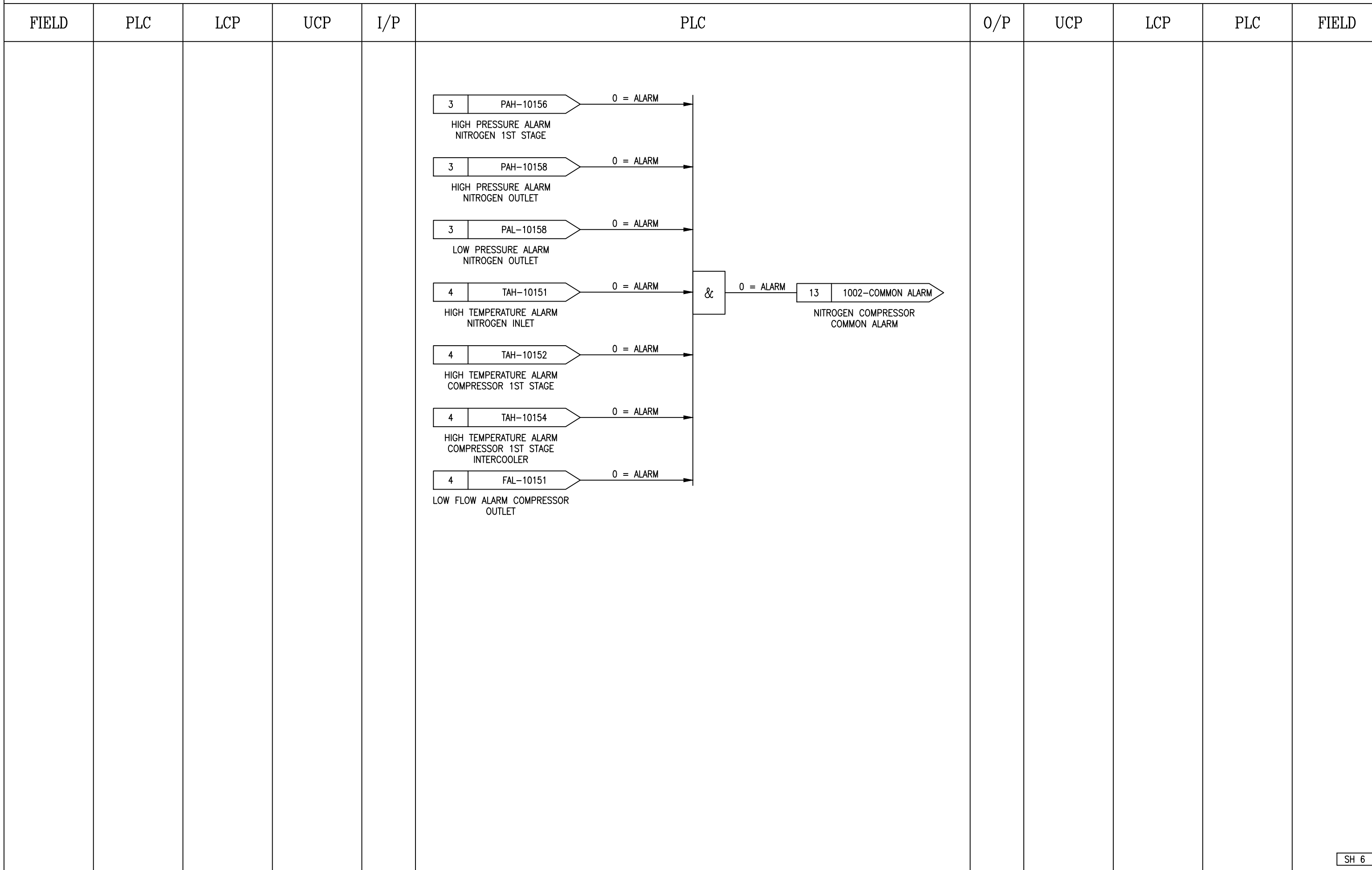


SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-1002	DRAWING NO.	17811-32A
AIRPACK REF	17811	SHEETNO.	05 / 14

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

THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION		
REV 05	04-07-2022	RT
REV 04	16-05-2022	WZ
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

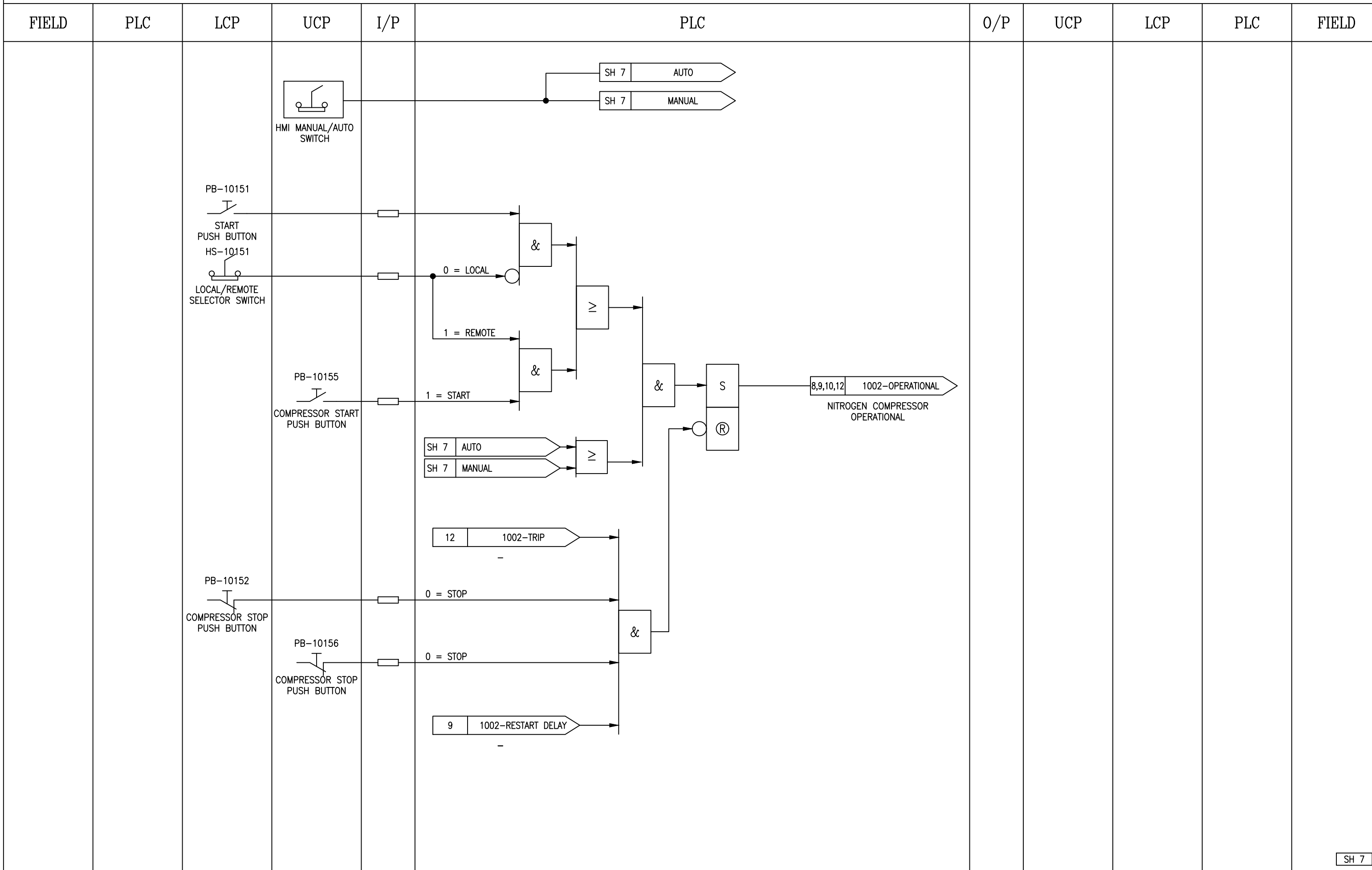


SH 6

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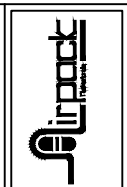
	SUBJECT BUSHEHR PETROCHEMICAL COMPANY		DATE	20-11-2020	THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION
	MEG PLANT		DRAWN BY	TJ	
	NITROGEN COMPRESSOR		CHECKED BY	KP	
	CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN	
	CLIENT REF	20-C-1002	DRAWING NO.	17811-32A	
AIRPACK REF	17811	SHEETNO.	06 /14		
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LOGIC DIAGRAM



SH 7

NOTES:

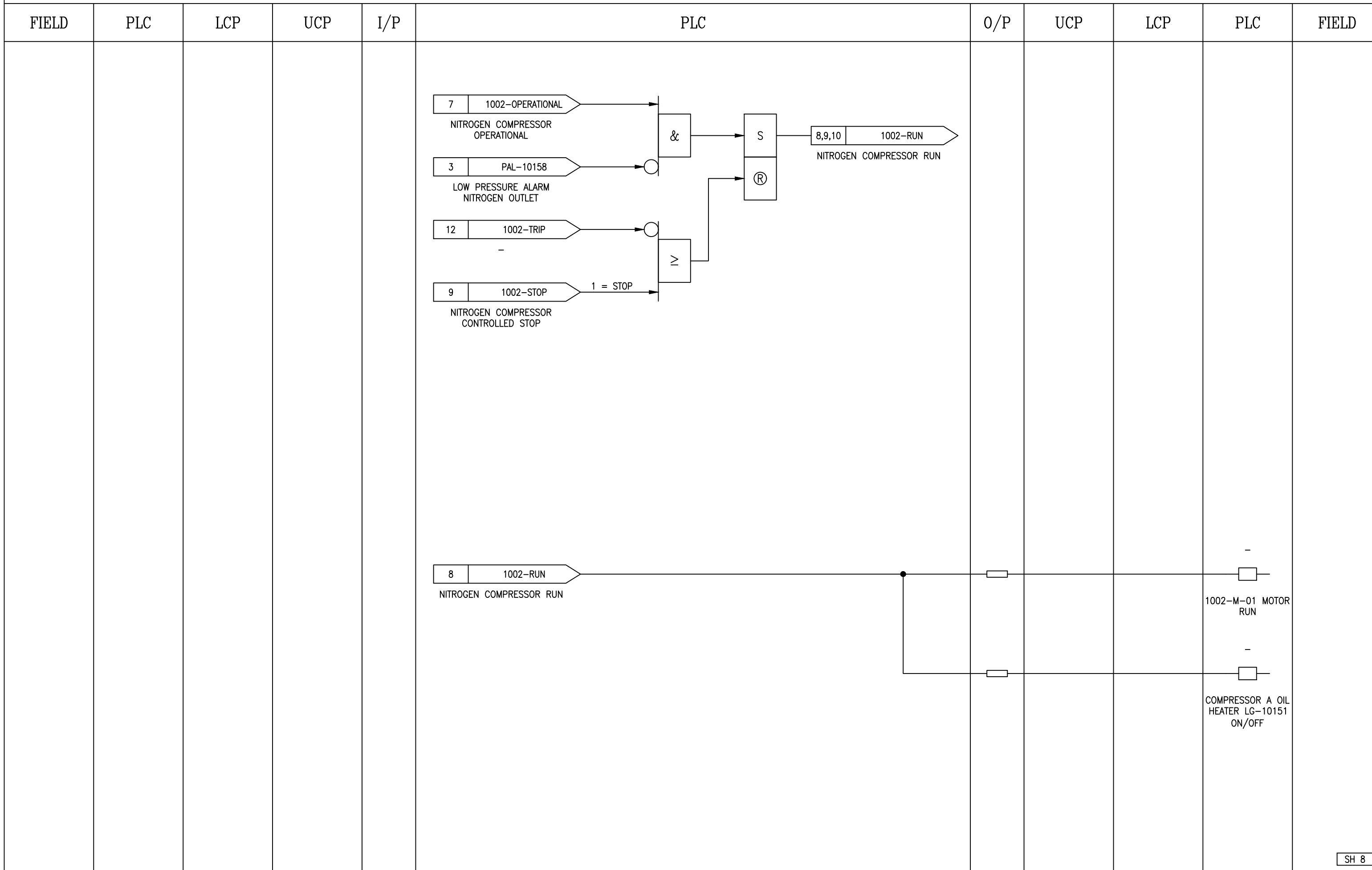


SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-1002	DRAWING NO.	17811-32A
AIRPACK REF	17811	SHEETNO.	07 / 14

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

THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION		
REV 05	04-07-2022	RT
REV 04	16-05-2022	WZ
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

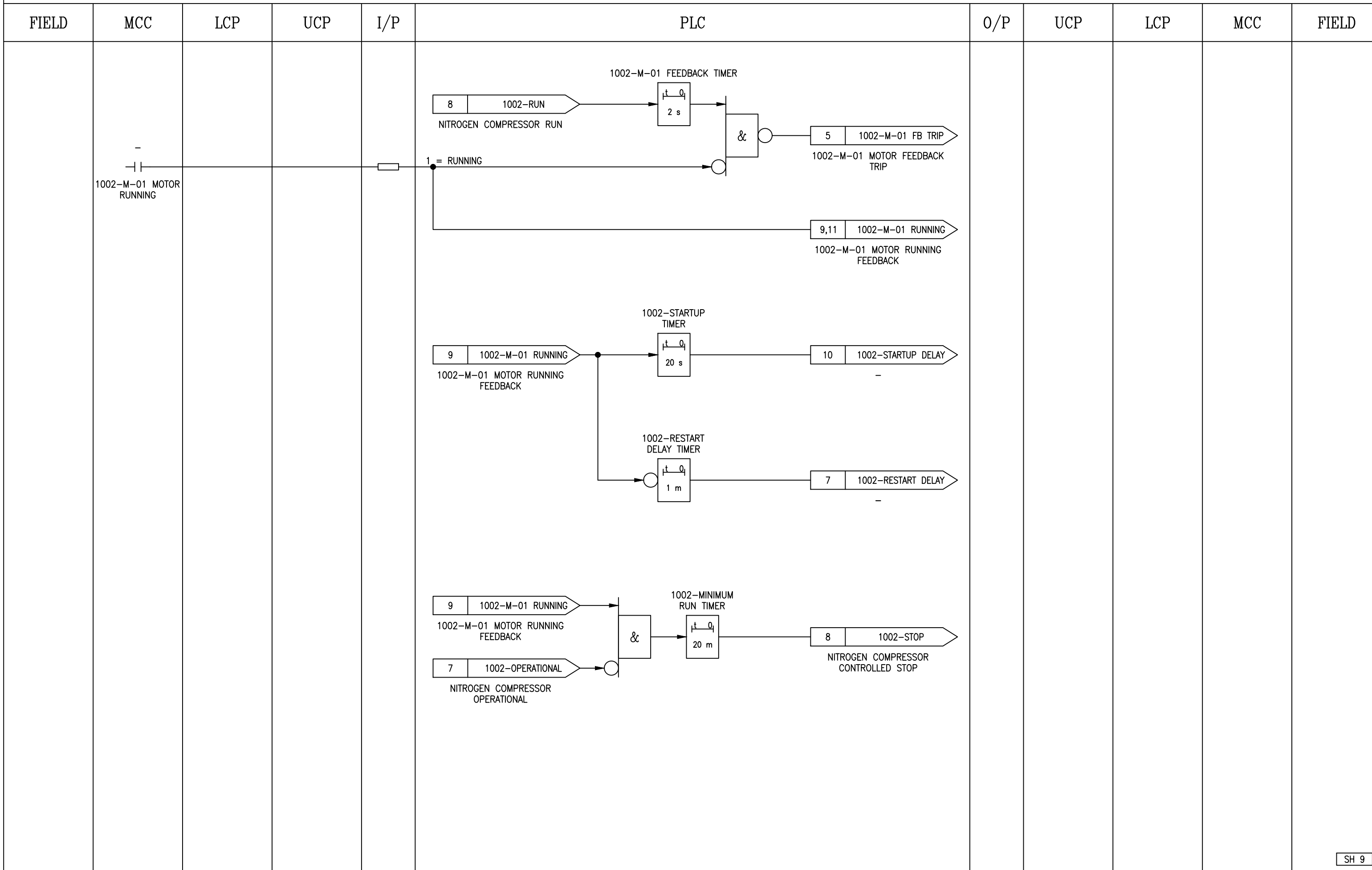


SH 8

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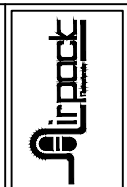
	SUBJECT BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR		DATE	20-11-2020	THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION																		
			DRAWN BY	TJ																			
			CHECKED BY	KP																			
	CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN																			
	CLIENT REF	20-C-1002	DRAWING NO.	17811-32A																			
AIRPACK REF	17811	SHEETNO.	08 / 14																				
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REV 05	04-07-2022	RT																					
REV 04	16-05-2022	WZ																					
REV 03	18-03-2022	AS																					
REV 02	03-01-2022	AS																					
REV 01	29-11-2021	WZ																					
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LOGIC DIAGRAM



SH 9

NOTES:

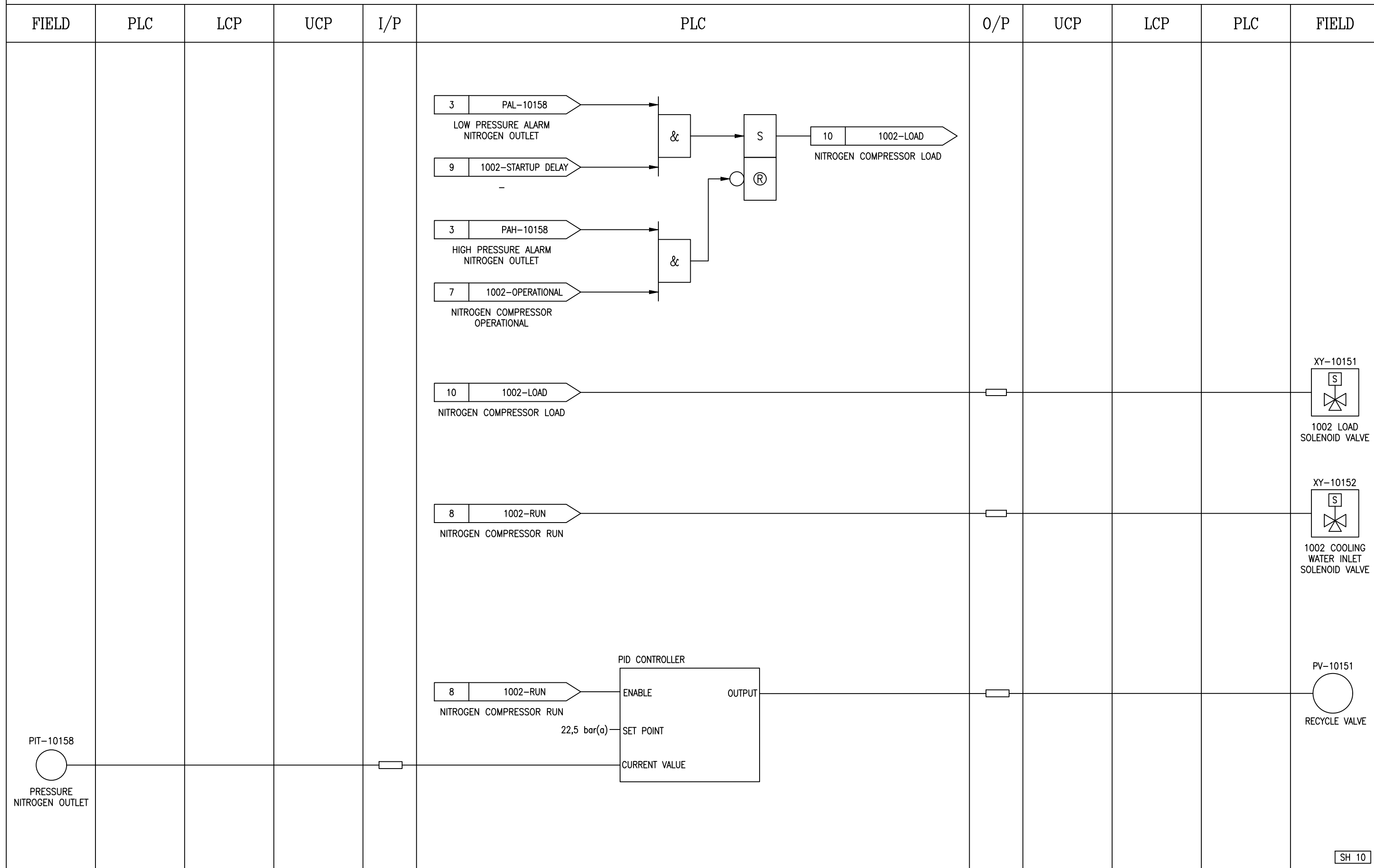


SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-1002	DRAWING NO.	17811-32A
AIRPACK REF	17811	SHEETNO.	09 / 14

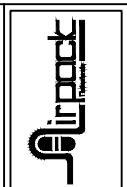
DATE	20-11-2020
DRAWN BY	TJ
CHECKED BY	KP

THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION		
REV 05	04-07-2022	RT
REV 04	16-05-2022	WZ
REV 03	18-03-2022	AS
REV 02	03-01-2022	AS
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REV 00	20-11-2020	TJ

LOGIC DIAGRAM



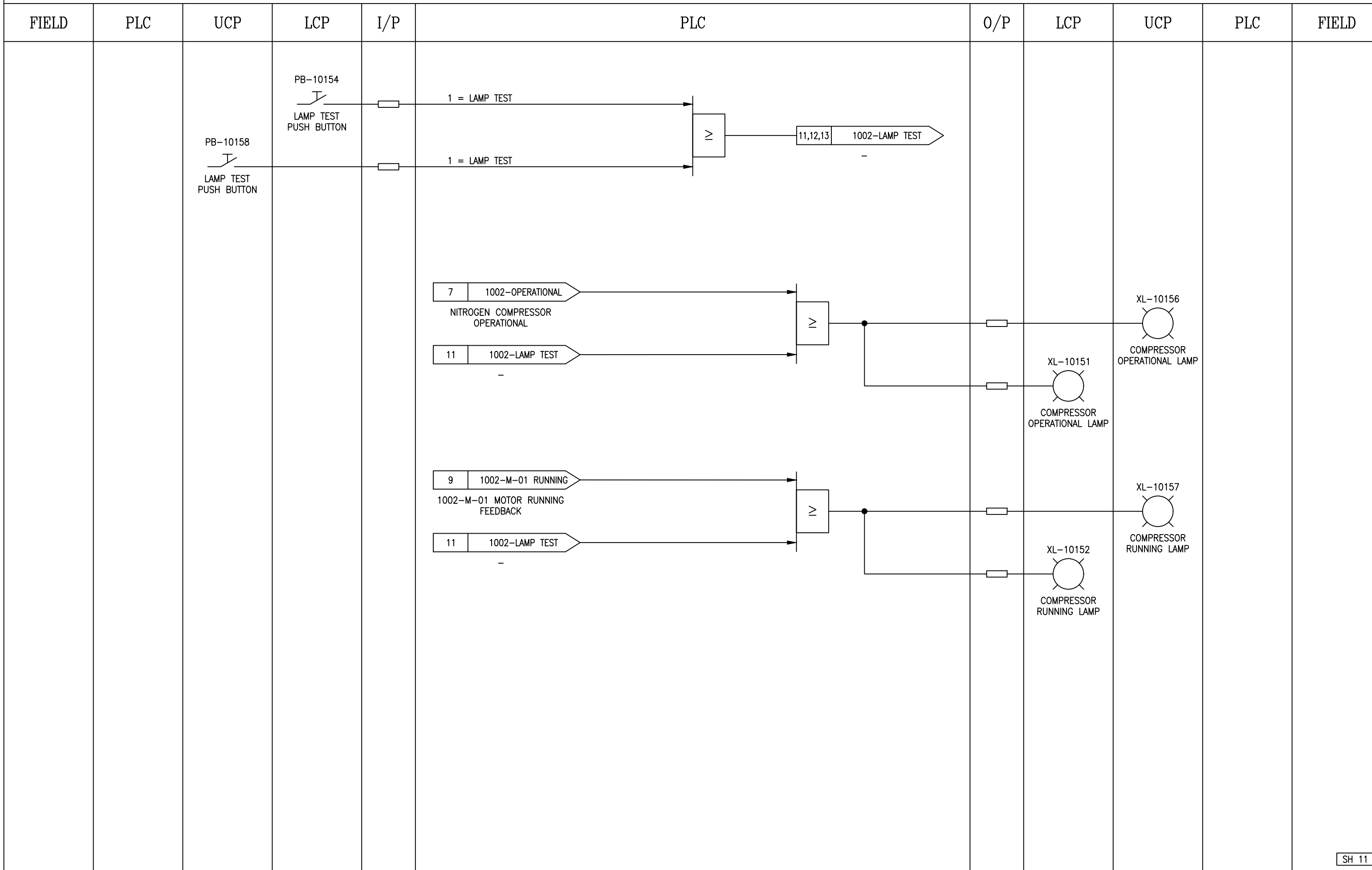
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SUBJECT BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR		DATE 20-11-2020
CLIENT BUSHEHR PETROCHEMICAL COMPANY (BUPC)	CHECKED BY KP	PLANT LOCATION IRAN
CLIENT REF 20-C-1002	AIRPACK REF 17811	DRAWING NO. 17811-32A
		SHEETNO. 10 / 14

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REV 04	16-05-2022	WZ
REV 03	18-03-2022	AS
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REV 01	29-11-2021	WZ
REV 00	20-11-2020	TJ

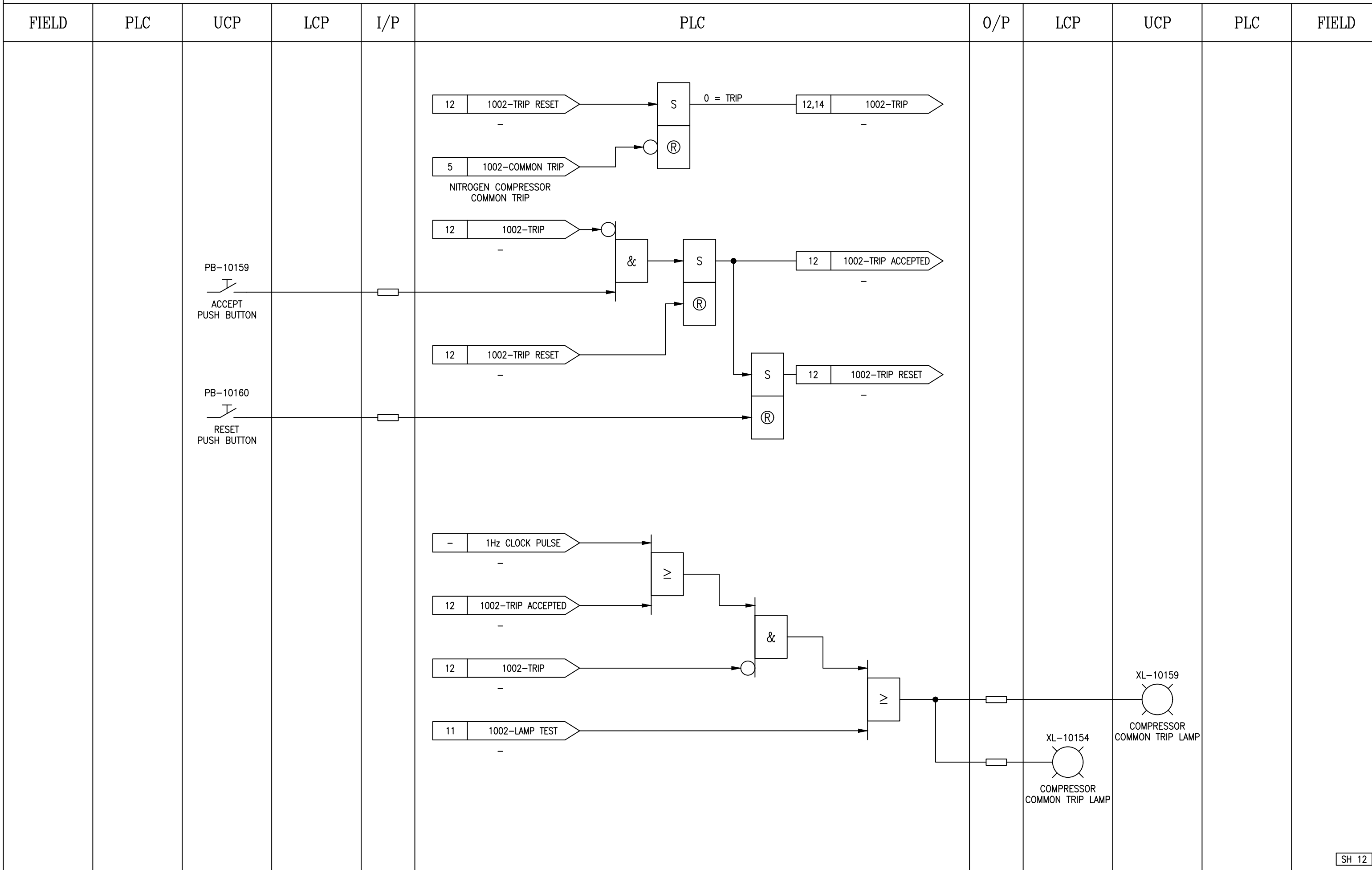
LOGIC DIAGRAM



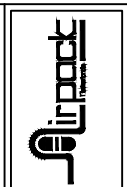
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	CLIENT BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION IRAN	DRAWN BY TJ	
	CLIENT REF 20-C-1002	DRAWING NO. 17811-32A	CHECKED BY KP	
	AIRPACK REF 17811	SHEETNO. 11 /14	REV 05 04-07-2022 RT	
			REV 04 16-05-2022 WZ	
		REV 03 18-03-2022 AS		REV 02 03-01-2022 AS
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LOGIC DIAGRAM



NOTES:

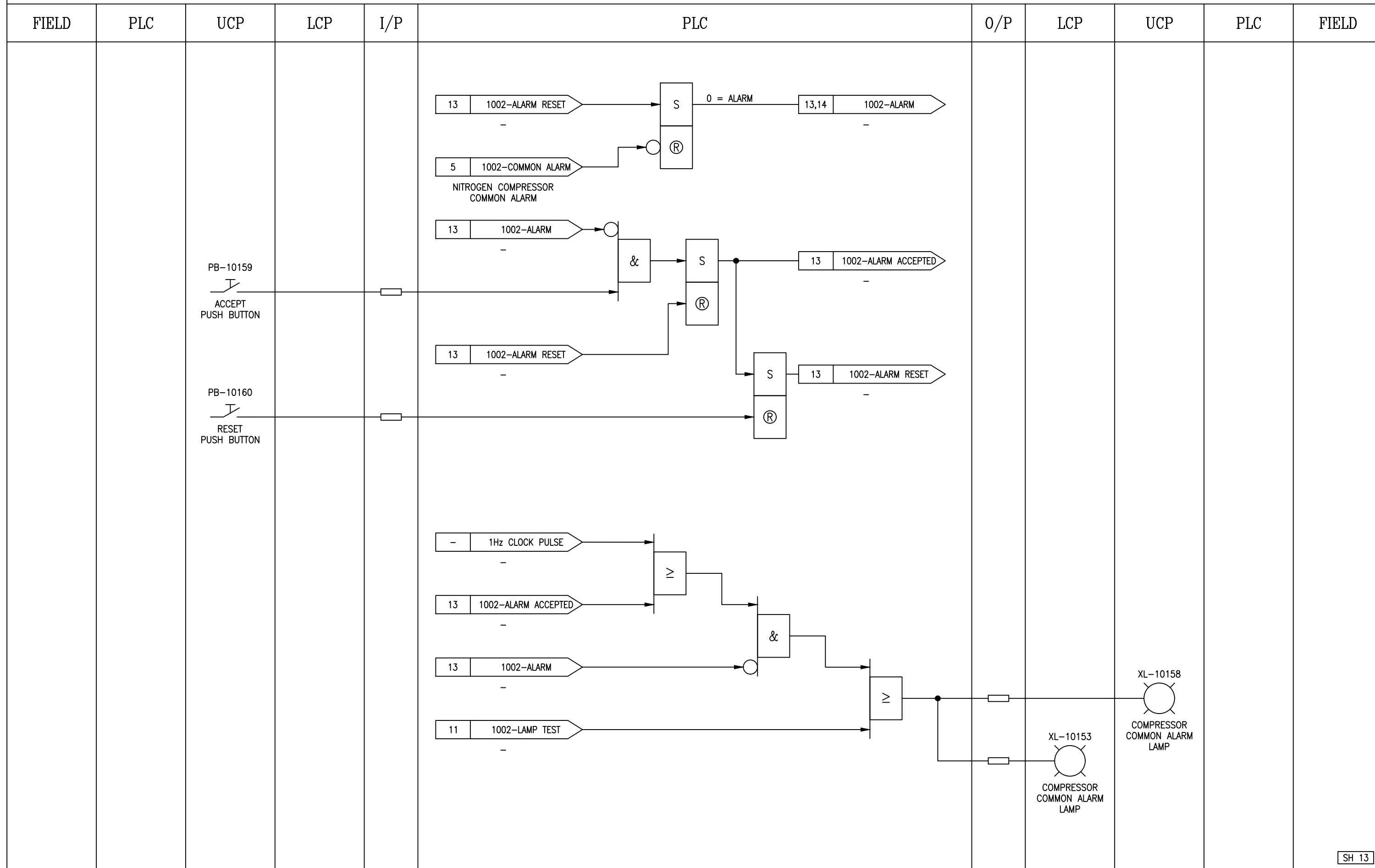


SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT NITROGEN COMPRESSOR	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-1002	DRAWING NO.	17811-32A
AIRPACK REF	17811	SHEETNO.	12 / 14

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

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REV 05	04-07-2022	RT
REV 04	16-05-2022	WZ
REV 03	18-03-2022	AS
REV 02	03-01-2022	AS
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LOGIC DIAGRAM

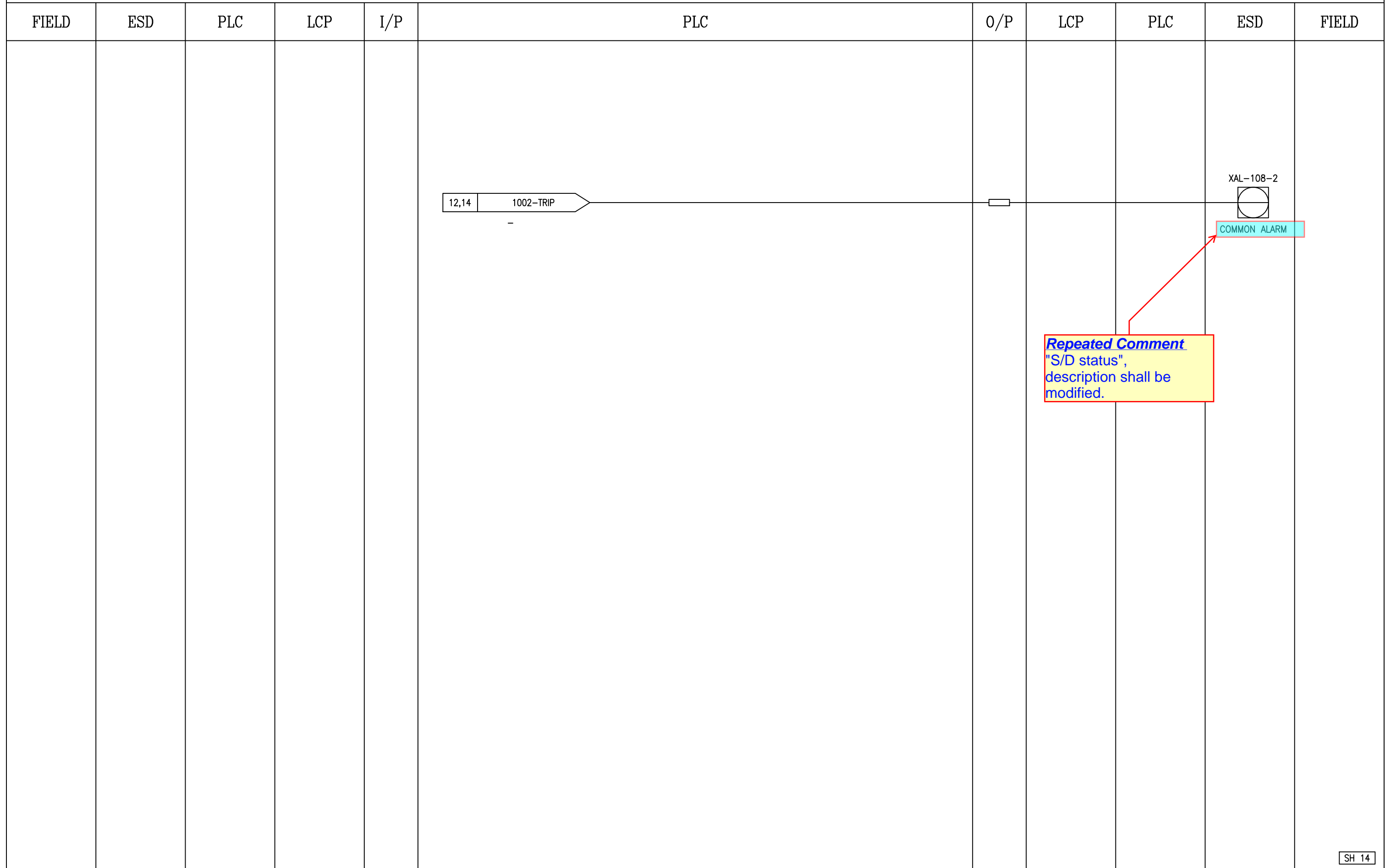


SH 13

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)	CLIENT REF 20-C-1002	PLANT LOCATION IRAN	
AIRPACK REF 17811	DRAWING NO. 17811-32A		SHEETNO. 13 / 14	

LOGIC DIAGRAM



Repeated Comment
 "S/D status",
 description shall be
 modified.

NOTES:

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	CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	DRAWN BY	TJ			
CLIENT REF	20-C-1002	CHECKED BY	KP	REV 05		04-07-2022	RT
AIRPACK REF	17811	PLANT LOCATION	IRAN	REV 04		16-05-2022	WZ
		DRAWING NO.	17811-32A	REV 03		18-03-2022	AS
		SHEETNO.	14 /14	REV 02		03-01-2022	AS
				REV 01	29-11-2021	WZ	
				REV 00	20-11-2020	TJ	