





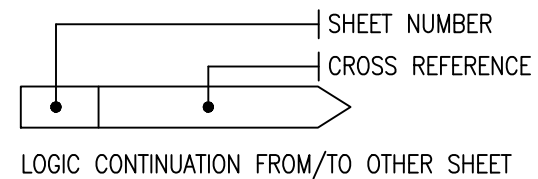
OWNER:  شرکت سست و سویی توپو ایرانیاان (سهایی ناس)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerechimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	LOGIC DIAGRAMS-PROGRAM OF UCP - COMPRESSOR SHUTDOWN LOGIC DRAWING FOR EMERGENCY INSTRUMENT AIR COMPRESSOR							 Netherlands	
MC :  شرکت سست و سویی توپو ایرانیاان (سهایی ناس)								Project	Area
Owner Document Number: 17811-32B	BU	20	VD	303	IN	DIG	0085	Rev.:	Page
								04	1 of 16

LOGIC DIAGRAMS-PROGRAM OF UCP - COMPRESSOR SHUTDOWN LOGIC DRAWING FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

04	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	AS	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

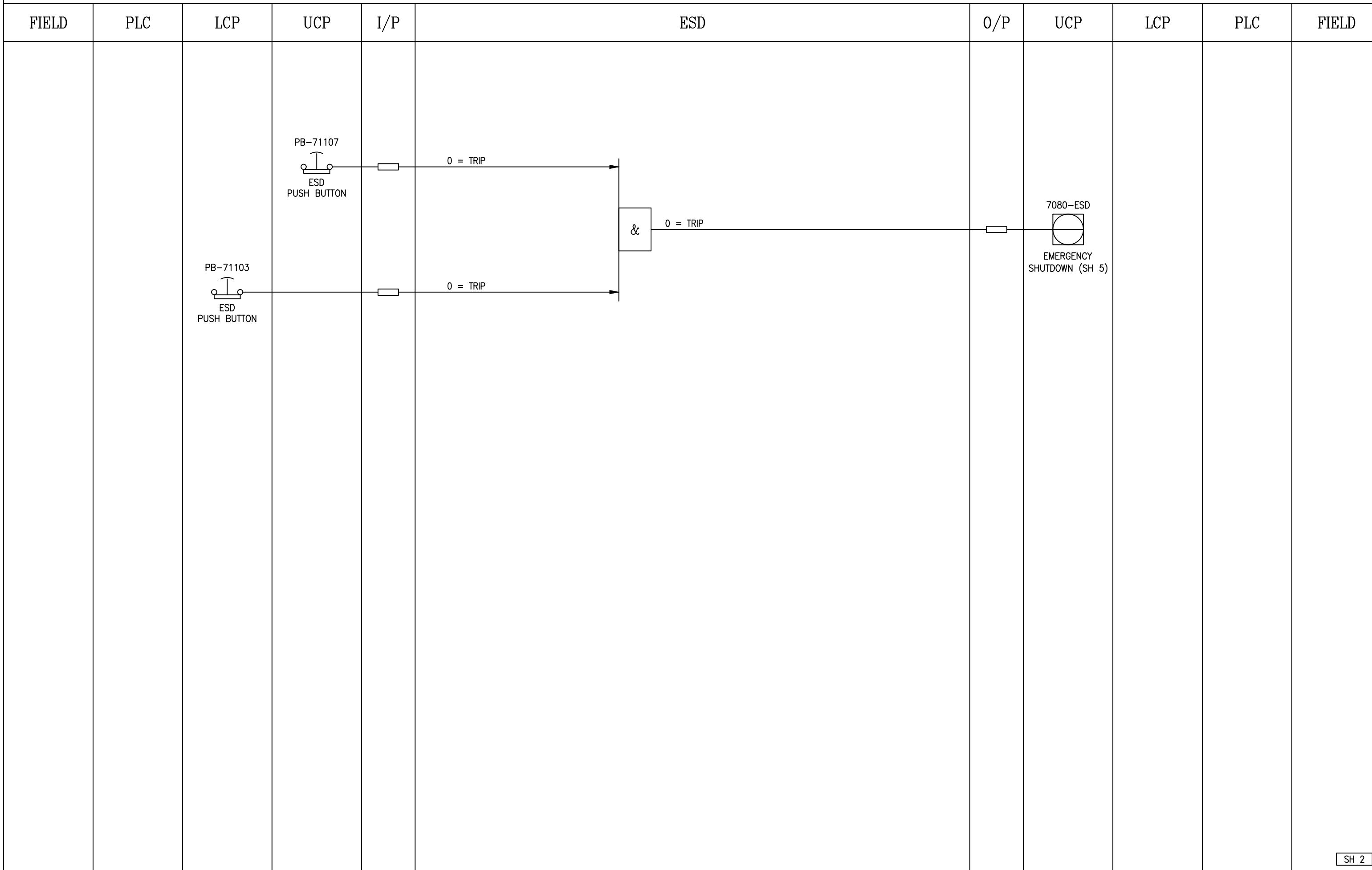
- SHUTDOWN CONDITION ;
0 = SHUTDOWN 1 = OPERATING
- ALARM/TRIP CONDITION ;
0 = ALARM 1=NORMAL
0 = TRIP 1=NORMAL
- REMOTE/LOCAL CONDITION ;
0 = LOCAL 1=REMOTE



SUBJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT EMERGENCY INSTRUMENT AIR COMPRESSOR	DATE	20-11-2020
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	DRAWN BY	TJ
CLIENT REF	20-C-7080	CHECKED BY	KP
AIRPACK REF	17811	PLANT LOCATION	IRAN
		DRAWING NO.	17811-32B
		SHEETNO.	01 /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
REV02	03-01-2022	AS
REV 01	29-11-2021	WZ
REV 00	20-11-2020	TJ

LOGIC DIAGRAM

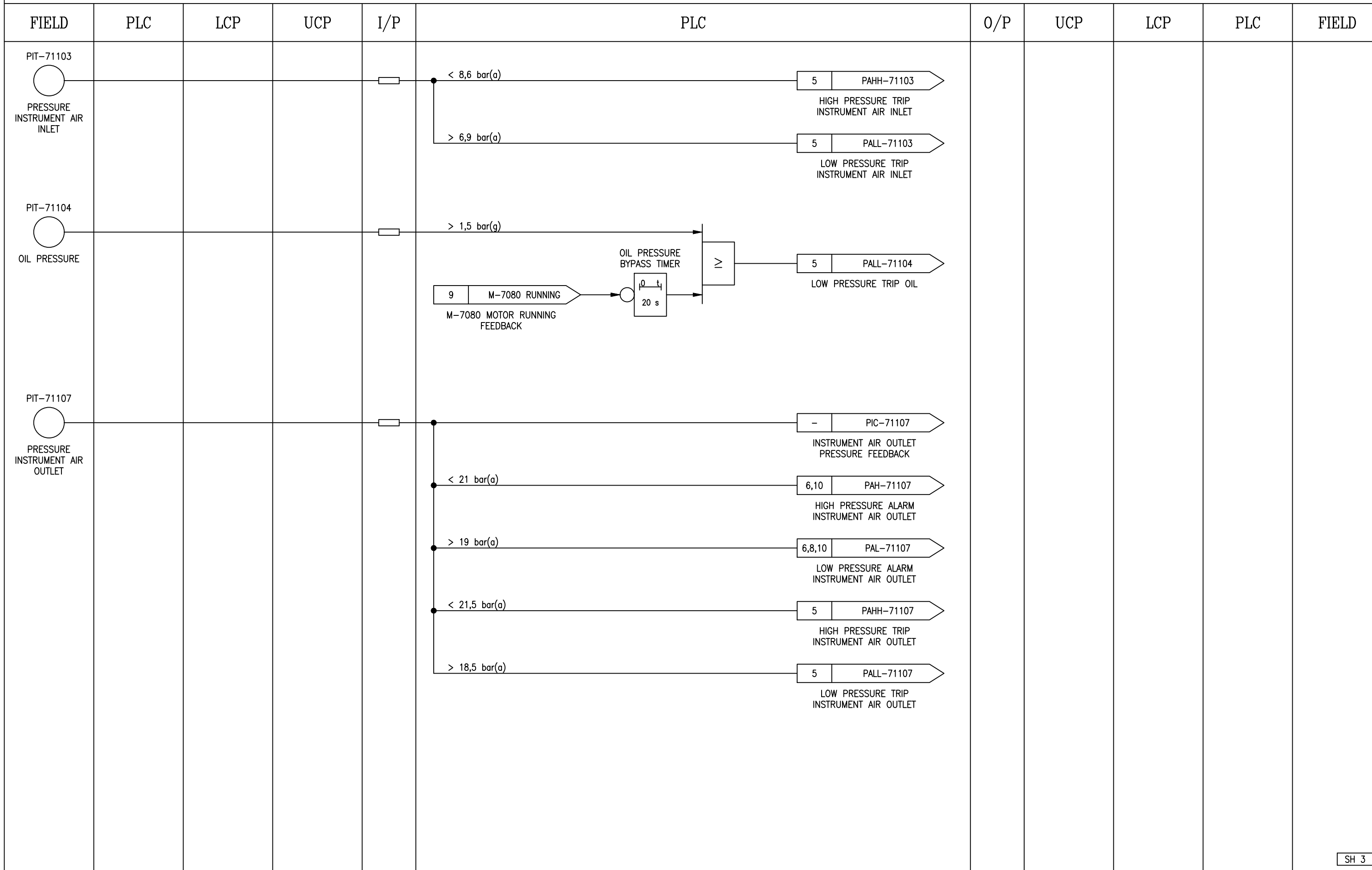


SH 2

NOTES:


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			CHECKED BY	KP	
	CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN	
	CLIENT REF	20-C-7080	DRAWING NO.	17811-32B	
AIRPACK REF	17811	SHEETNO.	02 / 14		
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			REV 03	18-03-2022	AS
			REV02	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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			CHECKED BY KP	
	CLIENT BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION IRAN		
	CLIENT REF 20-C-7080	DRAWING NO. 17811-32B		
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

FIELD	PLC	LCP	UCP	I/P	PLC	O/P	UCP	LCP	PLC	FIELD
TIT-71101 TEMPERATURE INSTRUMENT AIR INLET					< 56 °C	6 TAH-71101 HIGH TEMPERATURE ALARM INSTRUMENT AIR INLET				
TIT-71102 TEMPERATURE COMPRESSOR UPSTREAM AFTER-COOLER					< 195 °C	5 TAHH-71102 HIGH TEMPERATURE TRIP TEMPERATURE COMPRESSOR UPSTREAM AFTER-COOLER				
VT-71101 VIBRATION SENSOR COMPRESSOR BLOCK					< 8 mm/sec	5 VAHH-71101 HIGH VIBRATION TRIP COMPRESSOR BLOCK				
FT-71101 FLOW TRANSMITTER COMPRESSOR OUTLET					> 2,3 m ³ /hr	6 FAL-71101 LOW FLOW ALARM COMPRESSOR OUTLET				

SH 4

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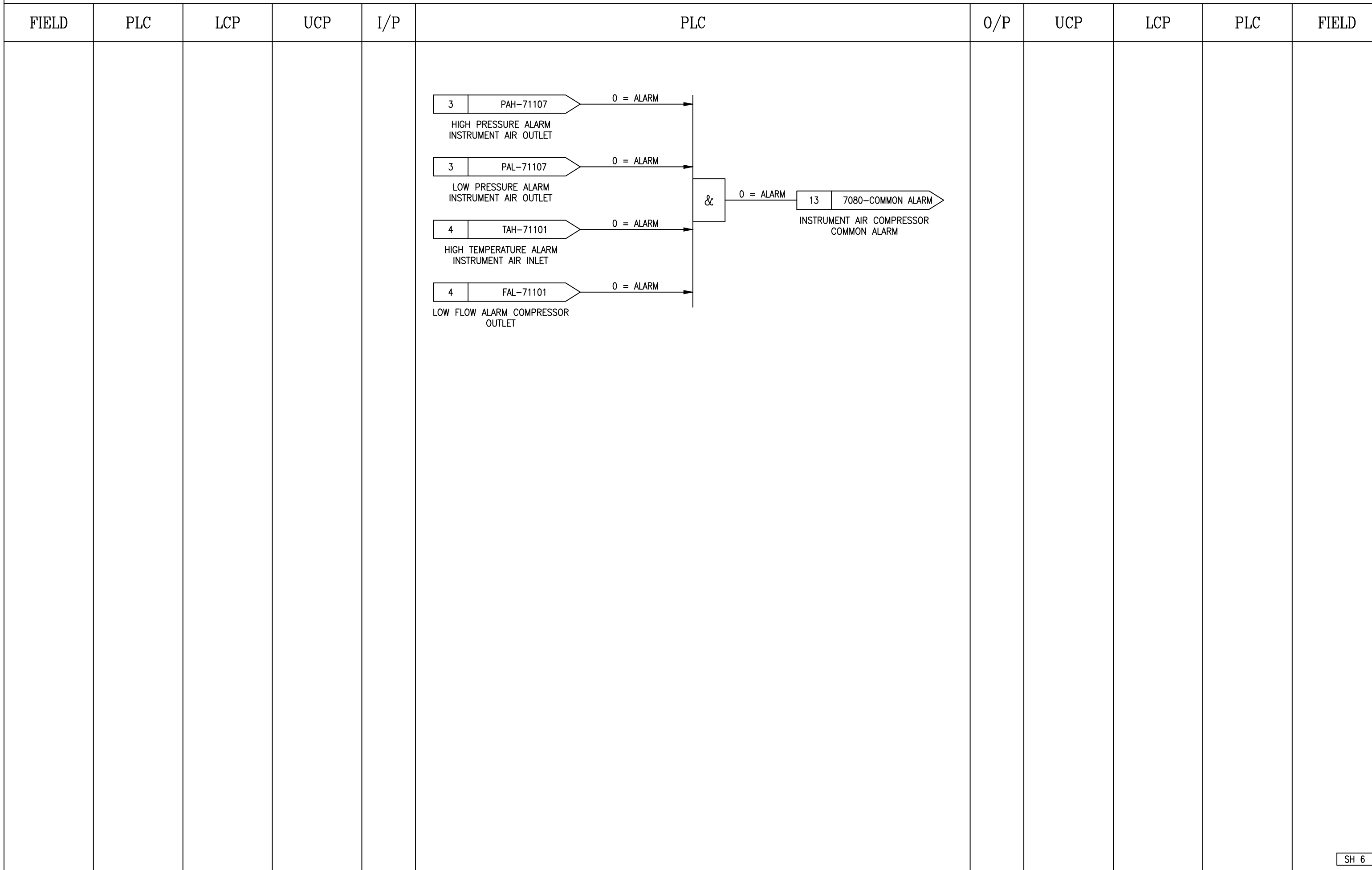


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CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-7080	DRAWING NO.	17811-32B
AIRPACK REF	17811	SHEETNO.	04 / 14

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

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

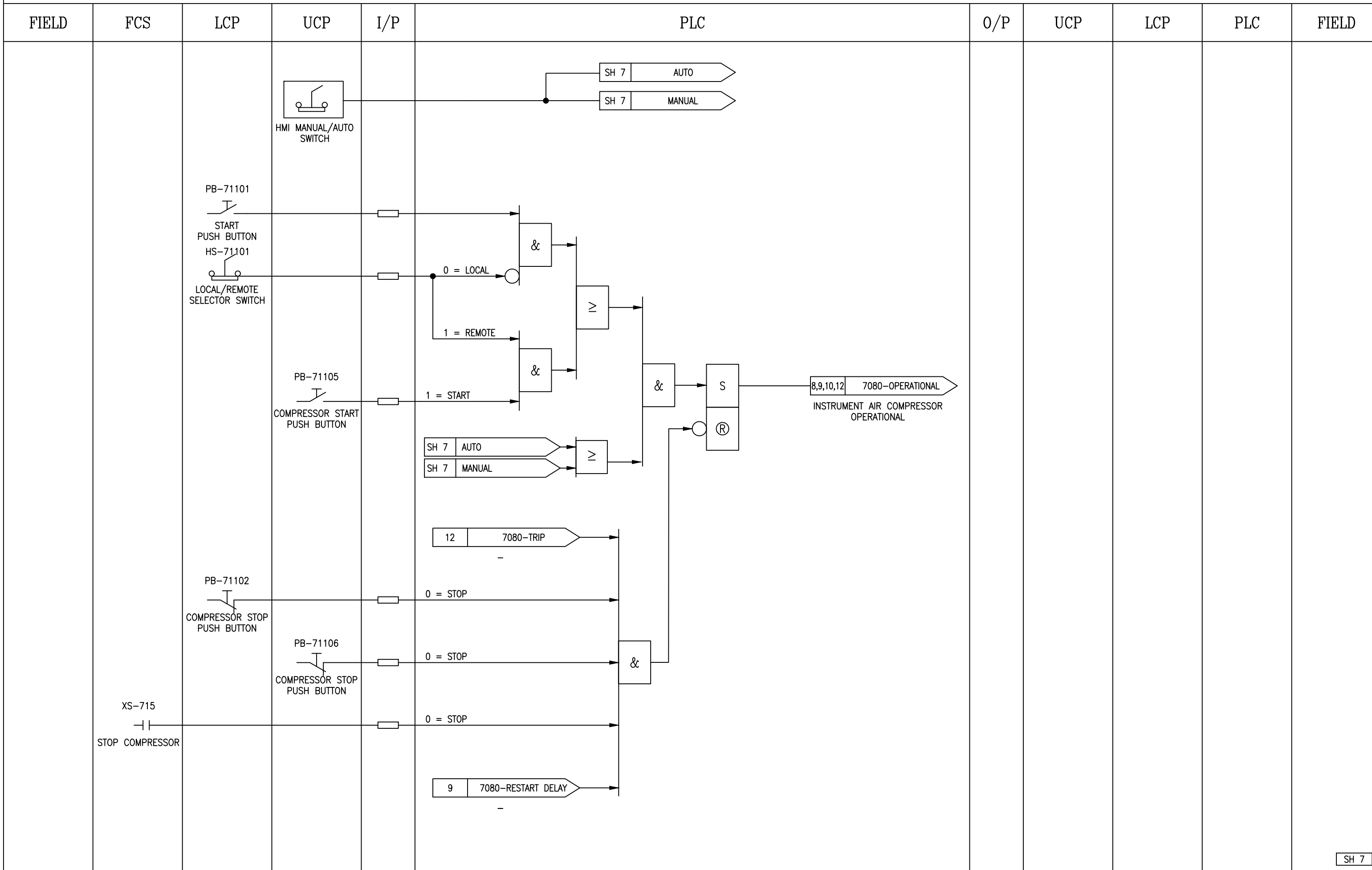
LOGIC DIAGRAM



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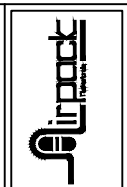
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	CLIENT BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION IRAN		
	CLIENT REF 20-C-7080	DRAWING NO. 17811-32B		
AIRPACK REF 17811	SHEETNO. 06 /14	DATE 20-11-2020	REV 05 04-07-2022 RT	
		DATE 16-05-2022	REV 04 16-05-2022 WZ	
		DATE 18-03-2022	REV 03 18-03-2022 AS	
		DATE 03-01-2022	REV02 03-01-2022 AS	
		DATE 29-11-2021	REV 01 29-11-2021 WZ	
		DATE 20-11-2020	REV 00 20-11-2020 TJ	

LOGIC DIAGRAM



SH 7

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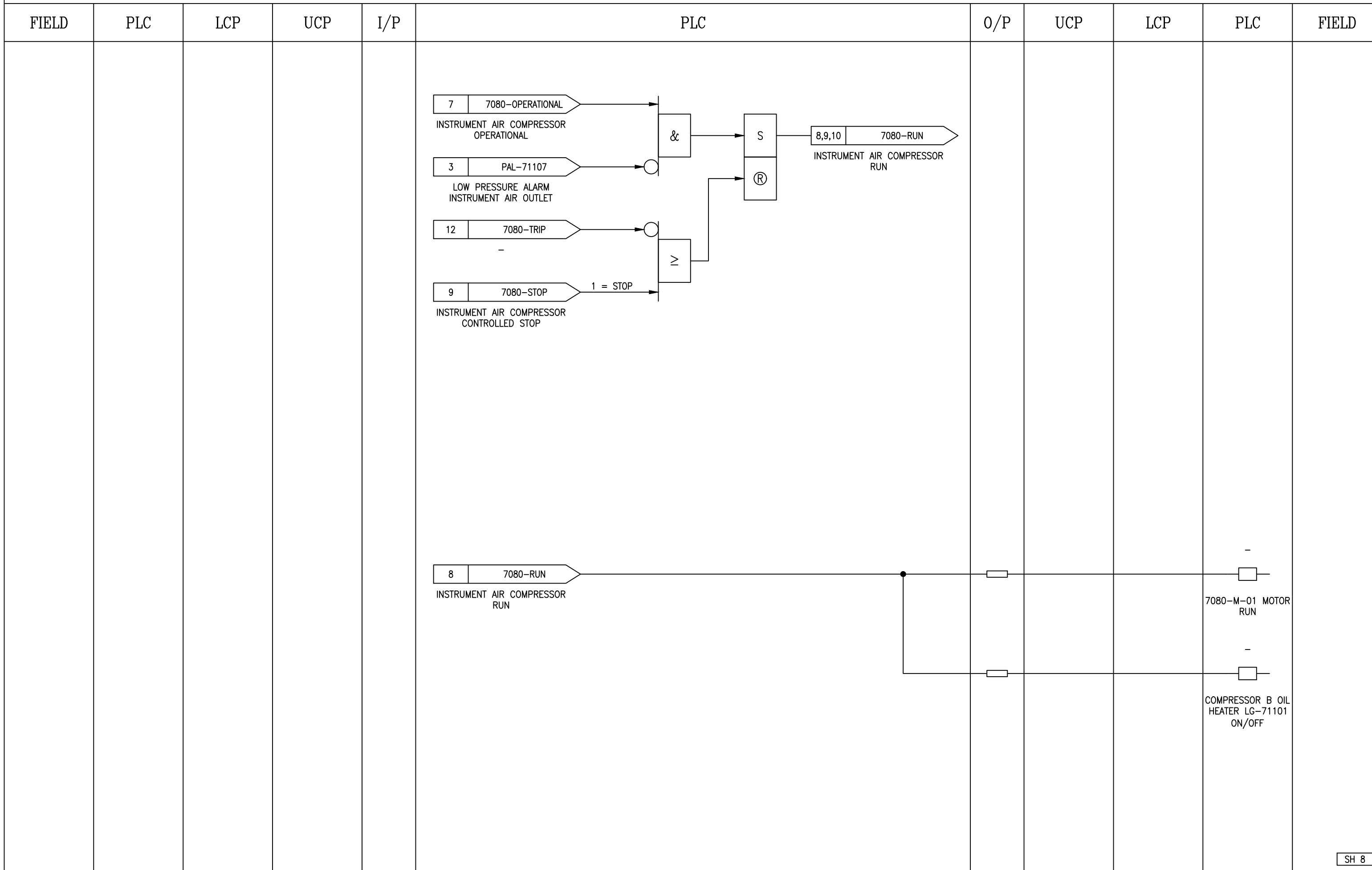


SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT EMERGENCY INSTRUMENT AIR COMPRESSOR	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-7080	DRAWING NO.	17811-32B
AIRPACK REF	17811	SHEETNO.	07 / 14

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

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

LOGIC DIAGRAM

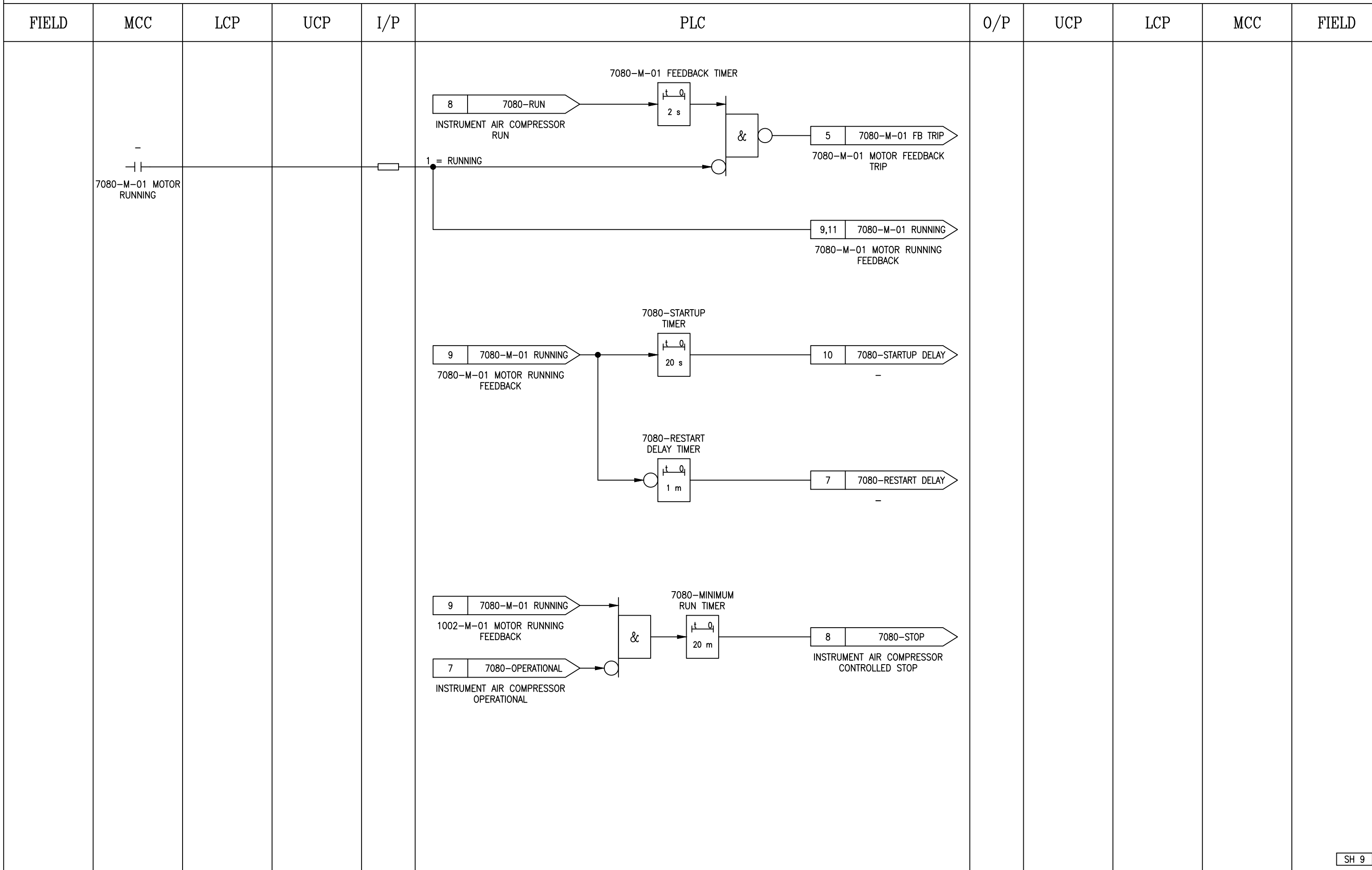


SH 8

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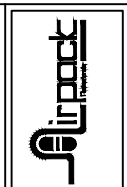
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	CLIENT BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION IRAN	DRAWN BY TJ	
	CLIENT REF 20-C-7080	DRAWING NO. 17811-32B	CHECKED BY KP	
	AIRPACK REF 17811	SHEETNO. 08 / 14	REV 05 04-07-2022 RT	
			REV 04 16-05-2022 WZ	
		REV 03 18-03-2022 AS		
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		REV 01 29-11-2021 WZ		
		REV 00 20-11-2020 TJ		

LOGIC DIAGRAM



SH 9

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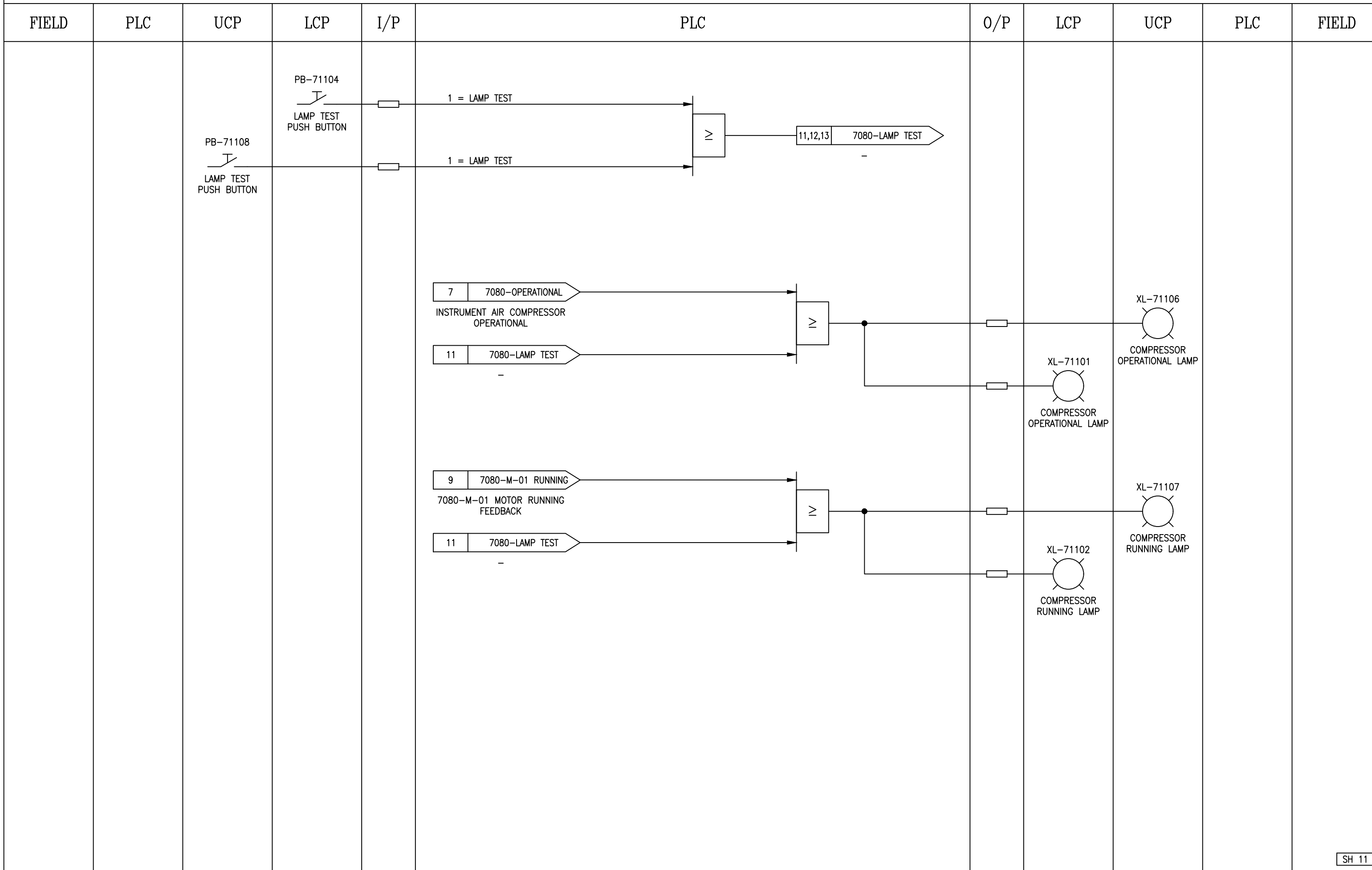


SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT EMERGENCY INSTRUMENT AIR COMPRESSOR	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-7080	DRAWING NO.	17811-32B
AIRPACK REF	17811	SHEETNO.	09 /14

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

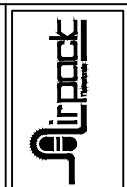
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			REV02	03-01-2022	AS
			REV 01	29-11-2021	WZ
REV 00	20-11-2020	TJ			

LOGIC DIAGRAM



SH 11

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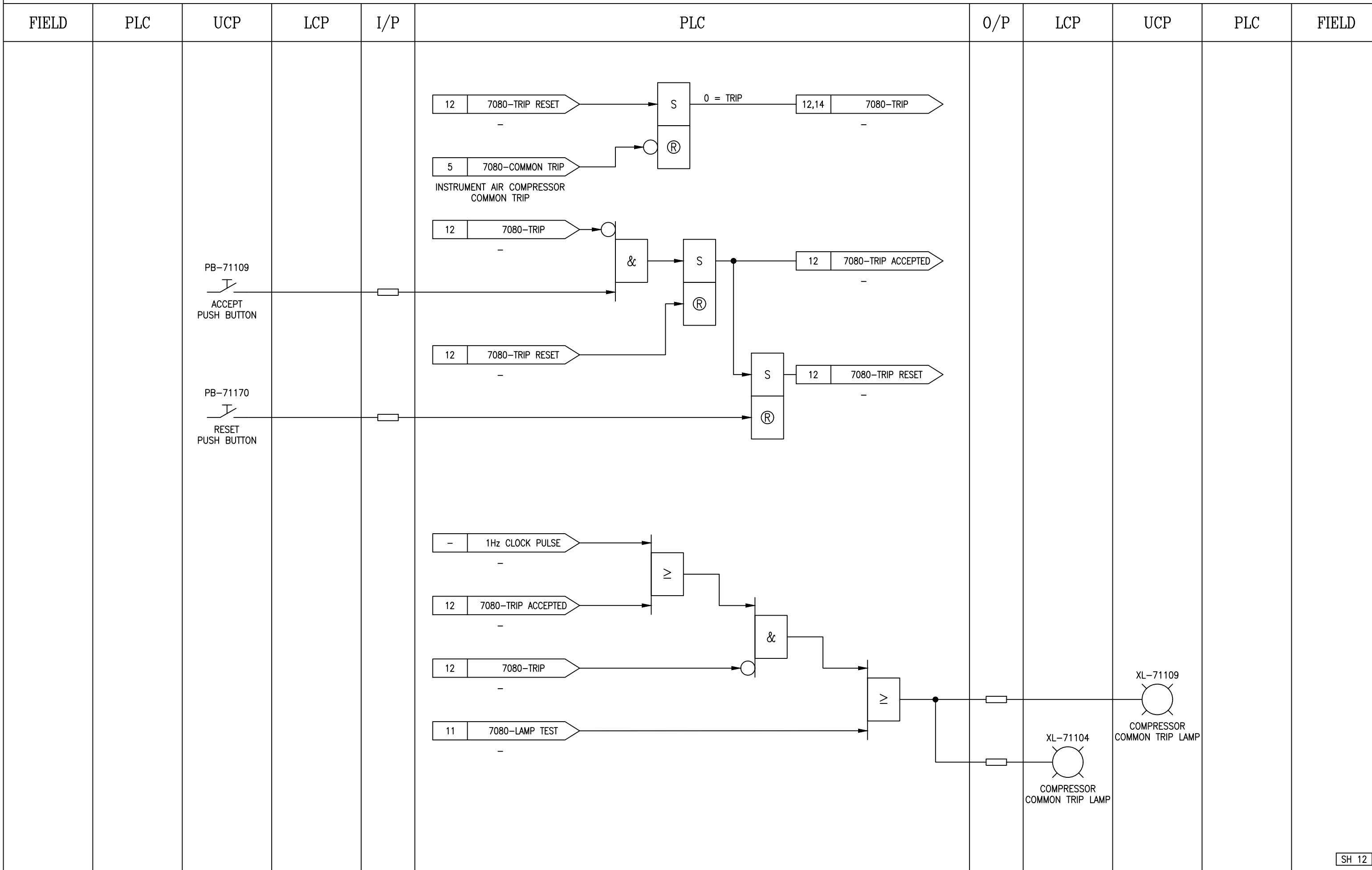


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CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-7080	DRAWING NO.	17811-32B
AIRPACK REF	17811	SHEETNO.	11 /14

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

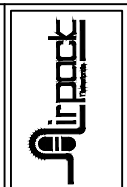
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REV 04	16-05-2022	WZ
REV 03	18-03-2022	AS
REV02	03-01-2022	AS
REV 01	29-11-2021	WZ
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LOGIC DIAGRAM



SH 12

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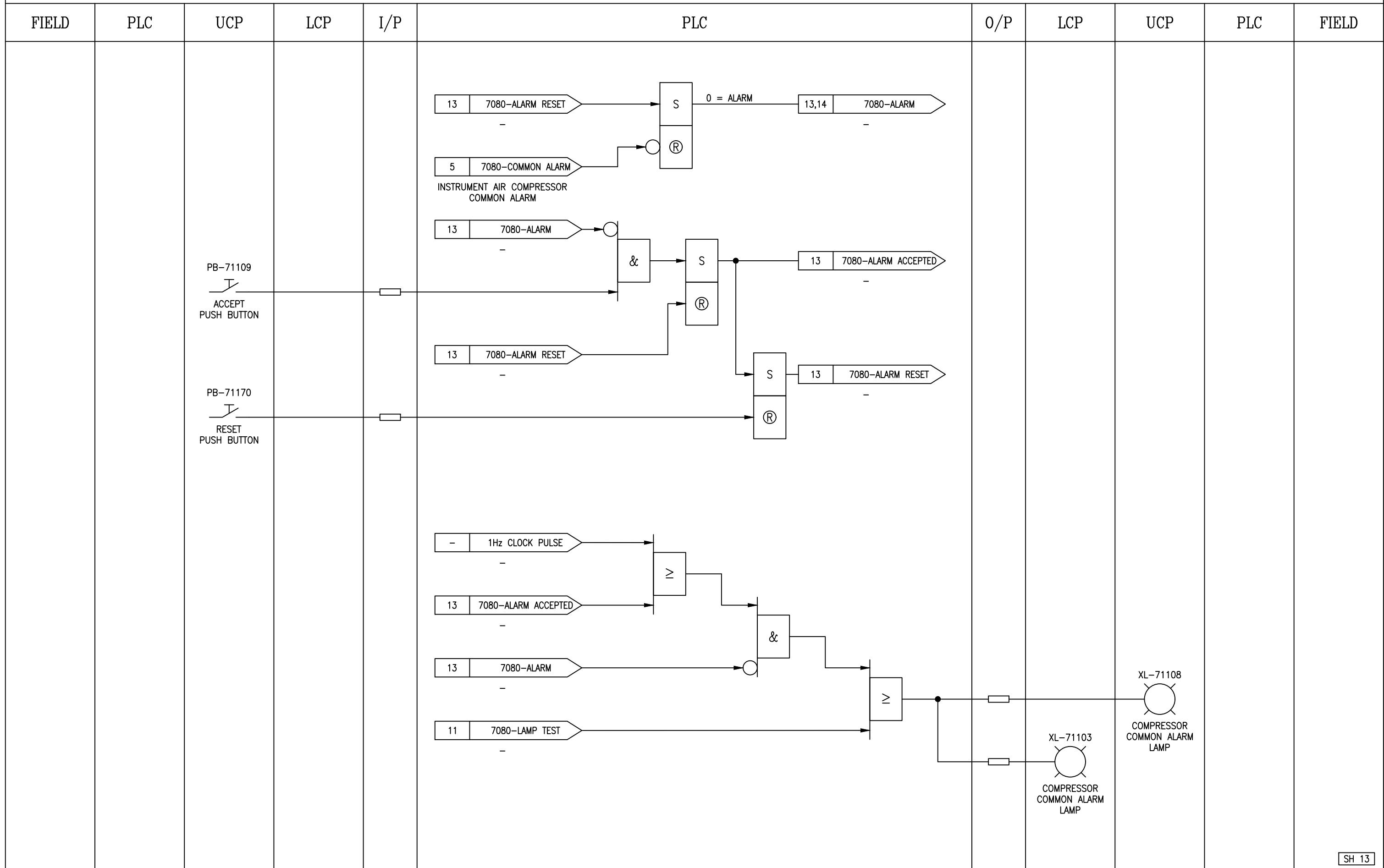


SUBJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT EMERGENCY INSTRUMENT AIR COMPRESSOR	
CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-7080	DRAWING NO.	17811-32B
AIRPACK REF	17811	SHEETNO.	12 / 14

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

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REV 04	16-05-2022	WZ
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REV 02	03-01-2022	AS
REV 01	29-11-2021	WZ
REV 00	20-11-2020	TJ

LOGIC DIAGRAM



SH 13

NOTES:



SUBJECT BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT
EMERGENCY INSTRUMENT AIR COMPRESSOR

CLIENT BUSHEHR PETROCHEMICAL COMPANY (BUPC)

CLIENT REF 20-C-7080

AIRPACK REF 17811

DATE 20-11-2020

DRAWN BY TJ

CHECKED BY KP

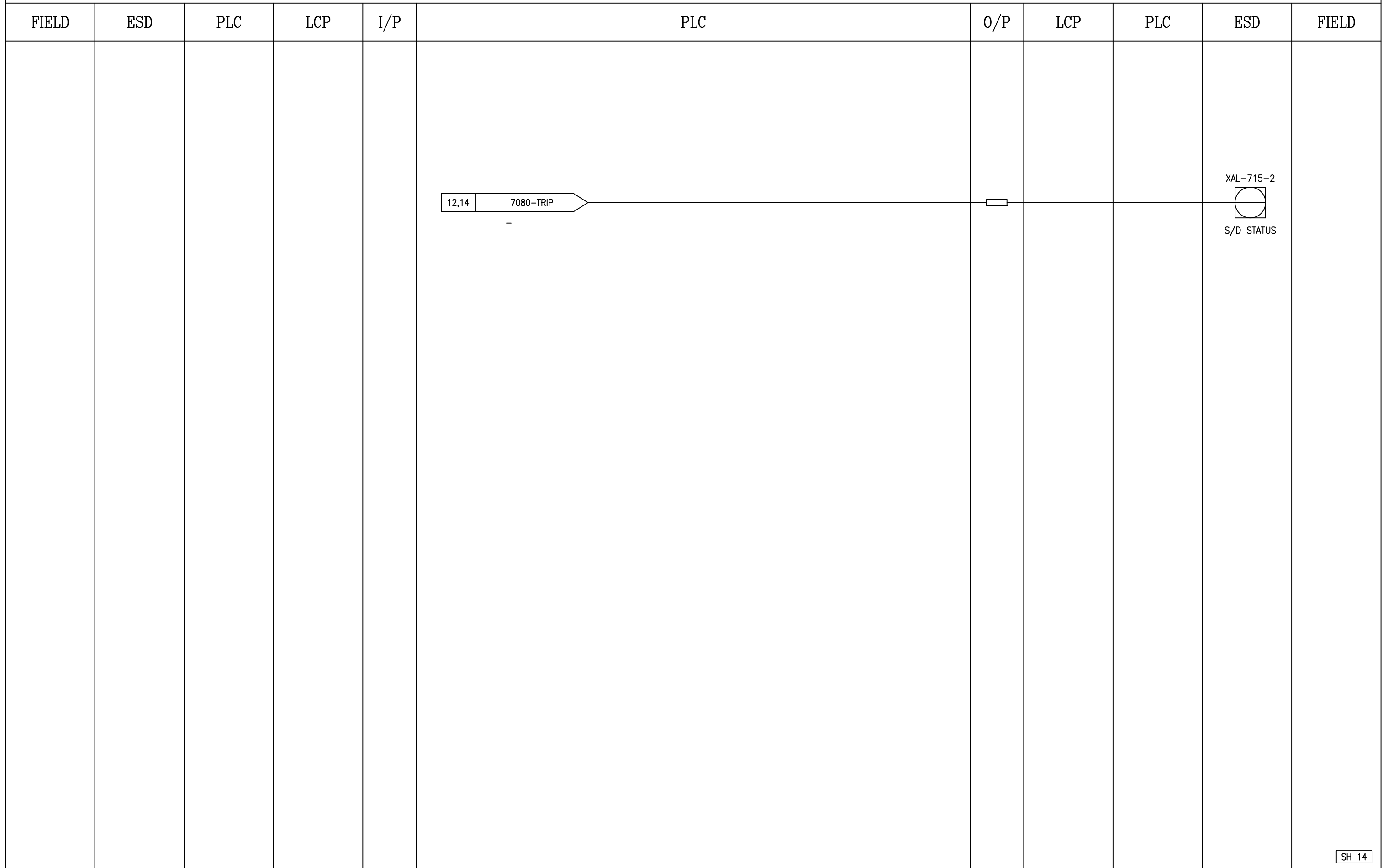
PLANT LOCATION IRAN

DRAWING NO. 17811-32B

SHEETNO. 13 /14

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			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 14

NOTES:



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CLIENT	BUSHEHR PETROCHEMICAL COMPANY (BUPC)	PLANT LOCATION	IRAN
CLIENT REF	20-C-7080	DRAWING NO.	17811-32B
AIRPACK REF	17811	SHEETNO.	14 /14

DATE	20-11-2020
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CHECKED BY	KP

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REV02	03-01-2022	AS
REV 01	29-11-2021	WZ
REV 00	20-11-2020	TJ