



SADAF ESR PLANT (BANDAR ASSALOUYEH)



FGS I/O LIST

Owner Doc No.: ESR-CI-LST-0005

Contractor Doc. No.: N-275-000-CI-LST-0000-005

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Rev	Date	Status	Pages	Prepared	Checked	Approved
4	22.Feb.2021	Issued For Construction	58	N.F	SH.H	S.CH
3	02.Jan.2017	Issued For Construction	52	N.F	SH.H	S.CH
2	09.Mar.2016	Issued For Approval	46	N.F	SH.H	S.CH
1	25.Jun.2015	Issued For Approval	43	N.F	B.O	S.CH
0	15.Dec.2014	Issued For Approval	25	N.F	S.CH	H.A.



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	0	1	2	3	4		0	1	2	3	4		0	1	2	3	4		0	1	2	3	4		0	1	2	3	4	
1	X	X	X	X	X	25	X	X	X		X	49				X	X	73							121					
2	X	X	X	X	X	26		X	X		X	50				X	X	74							122					
3	X	X	X		X	27		X	X	X	X	51				X	X	75							123					
4	X	X	X	X	X	28		X	X	X	X	52				X	X	76							124					
5	X	X	X	X	X	29		X	X	X	X	53					X	77							125					
6	X	X	X	X	X	30		X	X	X	X	54					X	78							126					
7	X	X	X	X	X	31		X	X	X	X	55					X	79							127					
8	X	X	X	X	X	32		X	X	X	X	56					X	80							128					
9	X	X	X	X	X	33		X	X	X	X	57					X	81							129					
10	X	X	X		X	34		X	X	X	X	58					X	82							130					
11	X	X	X		X	35		X	X		X	59						83							131					
12	X	X	X		X	36		X	X		X	60						84							132					
13	X	X	X	X	X	37		X	X		X	61						85							133					
14	X	X	X		X	38		X	X		X	62						86							134					
15	X	X	X		X	39		X	X		X	63						87							135					
16	X	X	X	X	X	40		X	X		X	64						88							136					
17	X	X	X		X	41		X	X		X	65						89							137					
18	X	X	X	X	X	42		X	X		X	66						90							138					
19	X	X	X	X	X	43		X	X		X	67						91							139					
20	X	X	X		X	44		X	X		X	68						92							140					
21	X	X	X		X	45			X		X	69						93							141					
22	X	X	X		X	46			X		X	70						94							142					
23	X	X	X		X	47					X	X	71					95							143					
24	X	X	X		X	48					X	X	72					96												



LEGEND		
INSTRUMENT LOCATION	SYSTEM	IO Type
FIELD ( F ) : Field ESD : Emergency ShUTDOWN System DCS/FCS:Distributed Control System / Fieldbus Control System FGDS : Fire & Gas Detectin System SDC : Shut Down Console MCC : Motor Control System PLC : Programmable Logic Controller ICSS : Integrated Control & Safety System LFAP/FAP: Local Fire Alarm Panel in Buildings GFAP: General Fire Alarm Panel in Fire Brigade MP: FGDS MATRIX Panel OWS: FGDS Operator Workstation CCR: Central Control Room FCR: Finishing Control Room CRR: Central Rack Room FRR: Finishing Rack Room MW : Main workshop WH: Ware House MPF: Matrix Panel Finishing MPP: Matrix Panel Prepration CRR: Chemical Preparation	DCS :DCS/FCS Distributed Control System / Fieldbus Control System ESD : Emergency ShUTDOWN System PLC : Programmable Logic Controller MCC : Motor Control System	DI : Discrete Input DIR : Redundant Discrete Input DO : Discrete Output DOR : Redundant Discrete Output AI : Analog Input AIR : Redundant Analog Input AO : Analog Output AOR : Redundant Analog Output SDI : Serial Discrete Input SDO : Serial Discrete Output SAI : Serial Analog Input SAO : Serial Analog Output FRS : Fire Resistant as per IEC 60331 FRT : Flame Retardant as per IEC 60331 IS : Intrinsically Safe NIS : Non Intrinsically Safe AL : Addressable Loop
F & G Devices Tag Numbering		
INDOOR	OUTDOOR	Function Code
TTTT-XXXXS  TTTT: Instrument Name  XXXX: Four digits, which are a progressive number in the section (from 0001 to 9999)  S :a suffix, which identifies two of more items working in split-range, for example (A or B)	TTTT- LLXXXS  TTTT: Instrument Name  LLXXX: progressive absolute number (5 digit), as shown below LL : two digits, which identify the production line and section; XXX : three digits, which are a progressive number in the section (from 001 to 999)  S: a suffix, which identifies two of more items working in split-range, for example (A or B)	IRGD/P : Point type Flammable Gas Detector IRGD/OP : Open Path type Flammable Gas Detector FD :Flame Detector HD : Heat Detector TGD : Toxic Gas Detector MCP : Manual Call Point UK : Hooter UL : Flashing Light SH : Eye Wash and Shower DV : Deluge Valve

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MAIN CONTROL SYSTEM & GFAP

MAIN FGDS I/O Count					
Redundant /Simplex	I/O Type	I/O		With 20% hot Spare	
		IS	NIS	IS	NIS
Redundant	AI	0	596	0	715
	AO	0	0	0	0
	DI	0	113	0	136
	DO	0	327	0	392
Simplex	AI	0	41	0	49
	AO	0	0	0	0
	DI	0	170	0	204
	DO	0	368	0	442
GFAP (Simplex)	DO	0	211	0	253

CENTRAL CONTROL BUILDING

LFAP-1000 I/O Count					
Redundant /Single	I/O Type	I/O		With 20% hot Spare	
		IS	NIS	IS	NIS
Redundant	AI	0	14	0	17
	AO	0	0	0	0
	DI	0	36	0	43
	DO	0	6	0	7
Simplex	AI	0	0	0	0
	AO	0	0	0	0
	DI	0	41	0	49
	DO	0	61	0	73
	AL	0	3	1	5

MOTOR CONTROL CENTER

LFAP-2000 I/O Count					
Redundant /Single	I/O Type	I/O		With 20% hot Spare	
		IS	NIS	IS	NIS
Redundant	AI	0	14	0	17
	AO	0	0	0	0
	DI	0	41	0	49
	DO	0	5	0	6
Simplex	AI	0	2	0	2
	AO	0	0	0	0
	DI	0	42	0	50
	DO	0	59	0	71
	AL	0	2	2	5

FINISHING AREA CONTROL CENTER

LFAP-3000 I/O Count					
Redundant /Single	I/O Type	I/O		With 20% hot Spare	
		IS	NIS	IS	NIS
Redundant	AI	0	4	0	5
	AO	0	0	0	0
	DI	0	26	0	31
	DO	0	4	0	5
Simplex	AI	0	0	0	0
	AO	0	0	0	0
	DI	0	19	0	23
	DO	0	26	0	31
	AL	0	1	0	1

MAIN WORKSHOP

LFAP-4000 I/O Count					
Redundant /Single	I/O Type	I/O		With 20% hot Spare	
		IS	NIS	IS	NIS
Redundant	AI	0	10	0	12
	AO	0	0	0	0
	DI	0	11	0	13
	DO	0	4	0	5
Simplex	AI	0	2	0	2
	AO	0	0	0	0
	DI	0	19	0	23
	DO	0	52	0	62
	AL	0	3	0	4

MAIN WAREHOUSE

LFAP-5000 I/O Count					
Redundant /Single	I/O Type	I/O		With 20% hot Spare	
		IS	NIS	IS	NIS
Redundant	AI	0	19	0	23
	AO	0	0	0	0
	DI	0	7	0	8
	DO	0	4	0	5
Simplex	AI	0	0	0	0
	AO	0	0	0	0
	DI	0	33	0	40
	DO	0	44	0	53
	AL	0	2	0	2



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ADMINISTRATION BUILDING

LFAP-7000 I/O Count					
Redundant /Simplex	I/O Type	I/O		With 20% hot Spare	
		IS	NIS	IS	NIS
Redundant	AI	0	14	0	17
	AO	0	0	0	0
	DI	0	6	0	7
	DO	0	3	0	3
Simplex	AI	0	0	0	0
	AO	0	0	0	0
	DI	0	20	0	24
	DO	0	35	0	42
	AL	0	5	0	6

FIRE FIGHTING BUILDING

LFAP-8000 I/O Count					
Redundant /Single	I/O Type	I/O		With 20% hot Spare	
		IS	NIS	IS	NIS
Redundant	AI	0	8	0	10
	AO	0	0	0	0
	DI	0	7	0	8
	DO	0	3	0	4
Simplex	AI	0	0	0	0
	AO	0	0	0	0
	DI	0	14	0	17
	DO	0	35	0	42
	AL	0	2	0	2

**Cable Code Format: NN C AAA SS RRR F JJ I UU X**

Pos.	Designation	Designation Description	Code	Code Interpretation
1	NN	Number	No.	No. of Cores, Pairs, Triads, Quads, Fibers
2	C	Configuration	C	Core
			P	Pair
			T	Triad
			Q	Quad
			F	Fiber
3	AAA	Cross Section	1.50 ,2.50,A18	1.50 =1.5mm <sup>2</sup> , 2.50=2.5mm <sup>2</sup> , A18= AWG18
4	SS	Screen	00	No Individual, No Overall Screen
			01	No Individual but Overall Screen
			10	Individual but No Overall Screen
			11	Individual and Overall Screen
5	RRR	Armour	NAR	Non Armoured
			STA	Steel Tape Armour
			SWA	Steel Wire Armour
			SWB	Steel Wire Braid
6	F	Fire Resistance	R	Flame Retardent
			S	Fire Resistant
7	JJ	Jacket Color	BK	Black
			GY	Gray
			GR	Green
			BL	Blue
			GY	Green/Yellow
			OJ	Orange
			RD	Red
			GO	Gray with Orange stripe
BO	Blue with Orange stripe			
8	I	Intrinsic Safety	I	Intrinsically Safe
			N	Non Intrinsically Safe
9	UU	Special Cables	TB	Thermocouple, B
			TE	Thermocouple, E
			TJ	Thermocouple, J
			TK	Thermocouple, K
			TR	Thermocouple, R
			TS	Thermocouple, S
			TT	Thermocouple, T
			FF	Foundation Fieldbus
			ET	Ethernet
			MB	Modbus
			FS	Fiberoptic, Single mode
FM	Fiberoptic, Multi mode			
10	X	Special Requirements		Text for special cable requirements

**Example:**

01 P 150 01 SWA R BK N

Single Pair  
 1.5 mm<sup>2</sup>  
 No Individual but Overall Screen  
 Steel Wire Armored  
 Flame Retardent  
 Black Jacketed  
 Non Intrinsically Safe



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General Note

**Note 1.** I.S or N.I.S type of signals, wiring and cabling are highly dependent to manufacturers design and will be finalized with relevant vendor documents. This revision is prepared based on NEC In-House Data and Practice

**Note 2.** For Fire Brigade a General Fire Alarm Panel (GFAP) has been Considered which is implemented with Remote I/O.

**Note 3.** Some detectors may require Reset signals. These signals will be considered when vendor data are available.

**Note 4.** Signals for Workshop will be updated on next revision based on Rev.3 of F&G wiring Diagram for Buildings

**Note 5.** Signals from Deluge , Safety Showers, HVAC & Clean Agents are not modified and will be kept on hold until vendor data is finalized.













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Item No.	Rev.	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ex.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (I)	Power Source	Alarm/Status/Control Activated State Action	Alarm/Status/Control Activated Value	Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. client	Model no.	Remark		
376	0	1100	IRGD-11025	IRGAH-11025	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS											%LFL		25									
377	0	1100	IRGD-11025	IRGAH-11025	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
321	1	1100	IRGD-11026	IRGDP-11026	V-1106B (GREEN FLASHING LIGHT)	Point Type Gas Detector	Flammable Gas (Open Area) ESRB-HS-LYT-1102		AIR	NIS	FGDS	CRR	d	F	1100JA76	1	16-T-1.50-11-SWA-S-RD-N																			3 Wire, 0-20 mA
382	0	1100	IRGD-11026	IRGAH-11026	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
380	0	1100	IRGD-11026	IRGAH-11026	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
322	1	1100	IRGD-11027	IRGDP-11027	V-1106B (GREEN FLASHING LIGHT)	Point Type Gas Detector	Flammable Gas (Open Area) ESRB-HS-LYT-1102		AIR	NIS	FGDS	CRR	d	F	1100JA76	2	16-T-1.50-11-SWA-S-RD-N																			3 Wire, 0-20 mA
382	0	1100	IRGD-11027	IRGAH-11027	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
383	0	1100	IRGD-11027	IRGAH-11027	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
323	1	1100	IRGD-11028	IRGDP-11028	V-1111 (GREEN FLASHING LIGHT)	Point Type Gas Detector	Flammable Gas (Open Area) ESRB-HS-LYT-1102		AIR	NIS	FGDS	CRR	d	F	1100JA76	3	16-T-1.50-11-SWA-S-RD-N																			3 Wire, 0-20 mA
385	0	1100	IRGD-11028	IRGAH-11028	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
386	0	1100	IRGD-11028	IRGAH-11028	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
324	1	1100	IRGD-11029	IRGDOPT-11029	V-1101, V-1102/S (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
325	1	1100	IRGD-11029	IRGDOPR-11029	V-1101, V-1102/S (GREEN FLASHING LIGHT)	Point Type Gas Detector Receiver	Flammable Gas (Open Area) ESRB-HS-LYT-1102		AIR	NIS	FGDS	CRR	d	F	1100JA77	1	16-T-1.50-11-SWA-S-RD-N																			3 Wire, 0-20 mA
326	1	1100	IRGD-11029	IRGAH-11029	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
327	1	1100	IRGD-11029	IRGAH-11029	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
328	1	1100	IRGD-11030	IRGDOPT-11030	V-1103/S, V-1104 (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
329	1	1100	IRGD-11030	IRGDOPR-11030	V-1103/S, V-1104 (GREEN FLASHING LIGHT)	Point Type Gas Detector Receiver	Flammable Gas (Open Area) ESRB-HS-LYT-1102		AIR	NIS	FGDS	CRR	d	F	1100JA77	2	16-T-1.50-11-SWA-S-RD-N																			3 Wire, 0-20 mA
330	1	1100	IRGD-11030	IRGAH-11030	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
331	1	1100	IRGD-11030	IRGAH-11030	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
332	1	1100	IRGD-11031	IRGDOPT-11031	V-1115, V-1116/S (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
333	1	1100	IRGD-11031	IRGDOPR-11031	V-1115, V-1116/S (GREEN FLASHING LIGHT)	Point Type Gas Detector Receiver	Flammable Gas (Open Area) ESRB-HS-LYT-1102		AIR	NIS	FGDS	CRR	d	F	1100JA77	3	16-T-1.50-11-SWA-S-RD-N																			3 Wire, 0-20 mA
334	1	1100	IRGD-11031	IRGAH-11031	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
335	1	1100	IRGD-11031	IRGAH-11031	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
336	1	1100	IRGD-11032	IRGDOPT-11032	V-1106A (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
337	1	1100	IRGD-11032	IRGAH-11032	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
338	1	1100	IRGD-11032	IRGAH-11032	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
339	1	1100	IRGD-11033	IRGDOPT-11033	V-1107A (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
340	1	1100	IRGD-11033	IRGAH-11033	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
341	1	1100	IRGD-11033	IRGAH-11033	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
342	1	1100	IRGD-11034	IRGDOPT-11034	V-1107B (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
343	1	1100	IRGD-11034	IRGAH-11034	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
344	1	1100	IRGD-11034	IRGAH-11034	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
345	1	1100	IRGD-11035	IRGDOPT-11035	V-1106B (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
346	1	1100	IRGD-11035	IRGAH-11035	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
347	1	1100	IRGD-11035	IRGAH-11035	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
348	1	1100	IRGD-11036	IRGDOPT-11036	V-1106A (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
349	1	1100	IRGD-11036	IRGAH-11036	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
350	1	1100	IRGD-11036	IRGAH-11036	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
351	1	1100	IRGD-11037	IRGDOPT-11037	V-1106A (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
352	1	1100	IRGD-11037	IRGAH-11037	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
353	1	1100	IRGD-11037	IRGAH-11037	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
354	1	1100	IRGD-11038	IRGDOPT-11038	V-1106B (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
355	1	1100	IRGD-11038	IRGAH-11038	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
356	1	1100	IRGD-11038	IRGAH-11038	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
357	1	1100	IRGD-11039	IRGDOPT-11039	V-1106B (GREEN FLASHING LIGHT)	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area) ESRB-HS-LYT-1102																													3 Wire, 0-20 mA
358	1	1100	IRGD-11039	IRGAH-11039	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH LEVEL 25% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH LEVEL	25% OF LFL			OVS												%LFL		25								
359	1	1100	IRGD-11039	IRGAH-11039	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT) )	IRGD HIGH HIGH LEVEL 50% OF LFL ESRB-HS-CAF-0002		IRGD	HIGH HIGH LEVEL	50% OF LFL			OVS												%LFL		50								
360	1	1100	TGD-11001	TGD-11001	P-1101																															



SADAF ESRB PLANT (BANDAR ASSALOUYEH)



FGS I/O List

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Item No.	Rev.	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm/Status Contact Activated State Action	Alarm/Status Value Failure Action	Low Range	High Range	Eng. Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. number	Model no.	Remark	
472	0	1100	TGD-11016	TGAH-11016	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
473	0	1100	TGD-11017	TGD-11017	V-1165	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA73	10	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
474	0	1100	TGD-11017	TGAH-11017	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
475	0	1100	TGD-11017	TGAH-11017	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
476	0	1100	TGD-11018	TGD-11018	V-1116	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA73	11	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
477	0	1100	TGD-11018	TGAH-11018	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
478	0	1100	TGD-11018	TGAH-11018	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
479	0	1100	TGD-11019	TGD-11019	E-1103	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA73	12	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
480	0	1100	TGD-11019	TGAH-11019	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
481	0	1100	TGD-11019	TGAH-11019	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
482	0	1100	TGD-11020	TGD-11020	V1105A	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA74	4	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
483	0	1100	TGD-11020	TGAH-11020	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
484	0	1100	TGD-11020	TGAH-11020	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
485	0	1100	TGD-11021	TGD-11021	V-107A	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA74	5	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
486	0	1100	TGD-11021	TGAH-11021	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
487	0	1100	TGD-11021	TGAH-11021	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
488	0	1100	TGD-11022	TGD-11022	V-107B	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA74	6	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
489	0	1100	TGD-11022	TGAH-11022	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
490	0	1100	TGD-11022	TGAH-11022	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
491	0	1100	TGD-11023	TGD-11023	V-105B	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA75	4	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
492	0	1100	TGD-11023	TGAH-11023	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
493	0	1100	TGD-11023	TGAH-11023	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
494	0	1100	TGD-11024	TGD-11024	V-108A	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA75	5	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
495	0	1100	TGD-11024	TGAH-11024	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
496	0	1100	TGD-11024	TGAH-11024	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
497	0	1100	TGD-11025	TGD-11025	V-108A	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA75	6	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
498	0	1100	TGD-11025	TGAH-11025	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
499	0	1100	TGD-11025	TGAH-11025	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
500	0	1100	TGD-11026	TGD-11026	V-108B	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA76	4	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
501	0	1100	TGD-11026	TGAH-11026	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
502	0	1100	TGD-11026	TGAH-11026	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
503	0	1100	TGD-11027	TGD-11027	V-106B	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA76	5	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
504	0	1100	TGD-11027	TGAH-11027	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
505	0	1100	TGD-11027	TGAH-11027	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
506	0	1100	TGD-11028	TGD-11028	V-1111	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA76	6	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
507	0	1100	TGD-11028	TGAH-11028	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
508	0	1100	TGD-11028	TGAH-11028	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
366	1	1100	TGD-11029	TGD-11029	V-1101	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	Toxic Gas (Open Area) TGD HIGH LEVEL 10 PPM	ESBR-HS-LYT-1102	AIR	NIS	FGDS	CRR	d	F	1100JA77	4	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/3940	EXT24Vdc			0	100	PPM									3 Wire, 0-20 mA
367	1	1100	TGD-11029	TGAH-11029	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
368	1	1100	TGD-11029	TGAH-11029	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS											PPM	50									
369	1	1100	TGD-11030</																																



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Item No.	Rev.	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Alarm Conn.	Rack Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm On/Off	State	Alarm	Value	Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. number	Model no.	Remark		
423	1	1100	FD-11003	FD-11003	P-1111		FLAME DETECTION IN OPEN AREA	ESBR-HS-LYT-1102	AJ	NIS	FGDS	CRR	d	F	1100JA70	11	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%										3 Wire, 0-20 mA		
424	1	1100	FD-11003	FAH-11003	(RED FLASHING LIGHT)		FLAME ALARM HIGH	ESBR-HS-CAF-0002						OVS																								
425	1	1100	FD-11004	FD-11004	P-1109		FLAME DETECTION IN OPEN AREA	ESBR-HS-LYT-1102	AJ	NIS	FGDS	CRR	d	F	1100JA70	12	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%											3 Wire, 0-20 mA	
426	1	1100	FD-11004	FAH-11004	(RED FLASHING LIGHT)		FLAME ALARM HIGH	ESBR-HS-CAF-0002						OVS																								
427	1	1100	FD-11005	FD-11005	P-1130		FLAME DETECTION IN OPEN AREA	ESBR-HS-LYT-1102	AJ	NIS	FGDS	CRR	d	F	1100JA71	9	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%											3 Wire, 0-20 mA	
428	1	1100	FD-11005	FAH-11005	(RED FLASHING LIGHT)		FLAME ALARM HIGH	ESBR-HS-CAF-0002						OVS																								
429	1	1100	FD-11006	FD-11006	P-1134		FLAME DETECTION IN OPEN AREA	ESBR-HS-LYT-1102	AJ	NIS	FGDS	CRR	d	F	1100JA71	10	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%											3 Wire, 0-20 mA	
430	1	1100	FD-11006	FAH-11006	(RED FLASHING LIGHT)		FLAME ALARM HIGH	ESBR-HS-CAF-0002						OVS																								
431	1	1200	IRGD-12001	IRGDP-12001	V-1202		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA70	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL											3 Wire, 0-20 mA	
432	1	1200	IRGD-12001	IRGAH-12001	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
433	3	0000	IRGD-12000	IRGA-12000B	Fire and Gas, Signal to CCR		FLAMMABLE GAS STATUS LAMP OF AREA 1200	ESBR-HS-CAF-0002	DOR	NIS	FGDS	CRR	MP		1000CND28	5	16-P-1.50-11-NAR-R-RD-N		SYS24Vdc	CLOSE																		
433	3	0003	IRGD-12000	IRGA-12000C	Signal connection through remote I/O		FLAMMABLE GAS STATUS LAMP OF AREA 1200	ESBR-HS-CAF-0002	DO	NIS	FGDS	CRR	MP		N.A				SYS24Vdc	CLOSE																		
434	1	1200	IRGD-12002	IRGDP-12002	P-1216S		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA70	2	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL											3 Wire, 0-20 mA	
435	0	1200	IRGD-12002	IRGAH-12002	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
436	0	1200	IRGD-12002	IRGAH-12002	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
437	0	1200	IRGD-12003	IRGDP-12003	P-1216		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA70	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL											3 Wire, 0-20 mA	
438	0	1200	IRGD-12003	IRGAH-12003	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
439	0	1200	IRGD-12003	IRGAH-12003	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
440	0	1200	IRGD-12004	IRGDP-12004	P-1215		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA70	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL											3 Wire, 0-20 mA	
441	0	1200	IRGD-12004	IRGAH-12004	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
442	0	1200	IRGD-12004	IRGAH-12004	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
443	1	1200	IRGD-12005	IRGDP-12005	V-1201		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA70	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL											3 Wire, 0-20 mA	
444	0	1200	IRGD-12005	IRGAH-12005	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
445	0	1200	IRGD-12005	IRGAH-12005	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
446	2	1200	IRGD-12006	IRGDP-12006	HVAC Motor fans		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA71	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL											3 Wire, 0-20 mA	
447	2	1200	IRGD-12006	IRGAH-12006	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
448	2	1200	IRGD-12006	IRGAH-12006	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
449	2	1200	IRGD-12007	IRGDP-12007	HVAC Motor fans		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA71	2	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL											3 Wire, 0-20 mA	
450	2	1200	IRGD-12007	IRGAH-12007	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
451	2	1200	IRGD-12007	IRGAH-12007	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
452	2	1200	IRGD-12007	IRGAH-12007	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
453	2	1200	IRGD-12008	IRGDP-12008	HVAC Motor fans		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA71	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL												3 Wire, 0-20 mA
454	2	1200	IRGD-12008	IRGAH-12008	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
455	2	1200	IRGD-12008	IRGAH-12008	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
456	2	1200	IRGD-12009	IRGDP-12009	HVAC Motor fans		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA71	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL												3 Wire, 0-20 mA
457	2	1200	IRGD-12009	IRGAH-12009	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
458	2	1200	IRGD-12009	IRGAH-12009	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
459	2	1200	IRGD-12010	IRGDP-12010	HVAC Motor fans		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA71	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL												3 Wire, 0-20 mA
460	2	1200	IRGD-12010	IRGAH-12010	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
461	2	1200	IRGD-12010	IRGAH-12010	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	ESBR-HS-CAF-0002						OVS																								
462	2	1200	IRGD-12011	IRGDP-12011	HVAC Motor fans		Point Type Gas Detector	ESBR-HS-LYT-1202	AIR	NIS	FGDS	CRR	d	F	1200JA71	6	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc				0	100	%FL	</											





SADAF ESRB PLANT (BANDAR ASSALOUYEH)



FGS I/O List

Owner Doc No.: ESRB-CLST-0005

Contractor Doc. No.: N-275-000-CLST-0000-005

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Item No.	Rev	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm On/Off	State	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Cable Routing No.	Data Sheet no.	Manufa. number	Model no.	Remark			
562	1	1300	IRGD-13021	IRGAH-13021	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
563	1	1300	IRGD-13021	IRGAH-13021	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
564	1	1300	IRGD-13022	IRGDP-13022	R-1302	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA74	4	16-T-1.50-11-SWA-S-RD-N																				
565	1	1300	IRGD-13022	IRGAH-13022	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
566	1	1300	IRGD-13022	IRGAH-13022	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
567	1	1300	IRGD-13023	IRGDP-13023	R-1303	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA75	1	16-T-1.50-11-SWA-S-RD-N																				
568	1	1300	IRGD-13023	IRGAH-13023	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
569	1	1300	IRGD-13023	IRGAH-13023	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
570	1	1300	IRGD-13024	IRGDP-13024	R-1304	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA75	4	16-T-1.50-11-SWA-S-RD-N																				
571	1	1300	IRGD-13024	IRGAH-13024	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
572	1	1300	IRGD-13024	IRGAH-13024	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
573	1	1300	IRGD-13025	IRGDP-13025	R-1305	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA75	7	16-T-1.50-11-SWA-S-RD-N																				
574	1	1300	IRGD-13025	IRGAH-13025	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
575	1	1300	IRGD-13025	IRGAH-13025	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
576	1	1300	IRGD-13026	IRGDP-13026	R-1306	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA75	10	16-T-1.50-11-SWA-S-RD-N																				
577	1	1300	IRGD-13026	IRGAH-13026	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
578	1	1300	IRGD-13026	IRGAH-13026	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
579	1	1300	IRGD-13027	IRGDP-13027	R-1307	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA76	1	16-T-1.50-11-SWA-S-RD-N																				
580	1	1300	IRGD-13027	IRGAH-13027	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
581	1	1300	IRGD-13027	IRGAH-13027	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
582	1	1300	IRGD-13028	IRGDP-13028	R-1308	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA76	4	16-T-1.50-11-SWA-S-RD-N																				
583	1	1300	IRGD-13028	IRGAH-13028	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
584	1	1300	IRGD-13028	IRGAH-13028	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
585	1	1300	IRGD-13029	IRGDP-13029	R-1309	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA76	7	16-T-1.50-11-SWA-S-RD-N																				
586	1	1300	IRGD-13029	IRGAH-13029	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
587	1	1300	IRGD-13029	IRGAH-13029	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
588	4	1300	IRGD-13032	IRGDP-13032	V-1908	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA88	2	16-T-1.50-11-SWA-S-RD-N																				
764	0	1300	IRGD-13032	IRGAH-13032	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
765	0	1300	IRGD-13032	IRGAH-13032	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
589	1	1300	IRGD-13033	IRGDP-13033	V-1905	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA70	14	16-T-1.50-11-SWA-S-RD-N																				
590	2	1300	IRGD-13033	IRGDP-13033	V-1905	Open Path Type Gas Detector Receiver	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA70	14	16-T-1.50-11-SWA-S-RD-N																				
768	0	1300	IRGD-13033	IRGAH-13033	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
769	0	1300	IRGD-13033	IRGAH-13033	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
591	1	1300	IRGD-13030	IRGDP-13030	V-1318	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA79	4	16-T-1.50-11-SWA-S-RD-N																				
771	0	1300	IRGD-13030	IRGAH-13030	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
772	0	1300	IRGD-13030	IRGAH-13030	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
592	1	1300	IRGD-13031	IRGDP-13031	V-1320	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA79	5	16-T-1.50-11-SWA-S-RD-N																				
774	0	1300	IRGD-13031	IRGAH-13031	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							
775	0	1300	IRGD-13031	IRGAH-13031	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL			OWS																							
593	1	1300	IRGD-13034	IRGDP-13034	V-1325	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA79	6	16-T-1.50-11-SWA-S-RD-N																				
777	0	1300	IRGD-13034	IRGAH-13034	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL			OWS																							





SADAF ESRB PLANT (BANDAR ASSALOUYEH)



FGS I/O List

Owner Doc No.: ESRB-CH-LST-0005

Contractor Doc. No.: N-275-000-CH-LST-0000-005

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Item No.	Rev	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm/Status/Control/Activated/Status/Alarm	Value/Alarm/Status/Alarm	Low Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. curve	Model no.	Remark			
830	0	1300	TGD-13004	TGD-13004	R-1304		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA71	2	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM										3 Wire, 0-20 mA			
831	0	1300	TGD-13004	TGAH-13004	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
832	0	1300	TGD-13004	TGAH-13004	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
833	0	1300	TGD-13005	TGD-13005	R-1305		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA71	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM												3 Wire, 0-20 mA	
834	0	1300	TGD-13005	TGAH-13005	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
835	0	1300	TGD-13005	TGAH-13005	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
836	0	1300	TGD-13006	TGD-13006	R-1306		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA71	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM												3 Wire, 0-20 mA	
837	0	1300	TGD-13006	TGAH-13006	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
838	0	1300	TGD-13006	TGAH-13006	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
839	0	1300	TGD-13007	TGD-13007	R-1307		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA72	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
840	0	1300	TGD-13007	TGAH-13007	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
841	0	1300	TGD-13007	TGAH-13007	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
842	0	1300	TGD-13008	TGD-13008	R-1308		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA72	2	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
843	0	1300	TGD-13008	TGAH-13008	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
844	0	1300	TGD-13008	TGAH-13008	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
845	0	1300	TGD-13009	TGD-13009	R-1309		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA72	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
846	0	1300	TGD-13009	TGAH-13009	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
847	0	1300	TGD-13009	TGAH-13009	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
848	0	1300	TGD-13010	TGD-13010	R-1310		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA72	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
849	0	1300	TGD-13010	TGAH-13010	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
850	0	1300	TGD-13010	TGAH-13010	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
851	0	1300	TGD-13011	TGD-13011	R-1311		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA73	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
852	0	1300	TGD-13011	TGAH-13011	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
853	0	1300	TGD-13011	TGAH-13011	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
854	0	1300	TGD-13012	TGD-13012	R-1312		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA73	2	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
855	0	1300	TGD-13012	TGAH-13012	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
856	0	1300	TGD-13012	TGAH-13012	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
857	0	1300	TGD-13013	TGD-13013	R-1313		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA73	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
858	0	1300	TGD-13013	TGAH-13013	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
859	0	1300	TGD-13013	TGAH-13013	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
860	0	1300	TGD-13014	TGD-13014	R-1314		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA73	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
861	0	1300	TGD-13014	TGAH-13014	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
862	0	1300	TGD-13014	TGAH-13014	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
863	4	1300	TGD-13015	TGD-13015	V-1315		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA88	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
864	0	1300	TGD-13015	TGAH-13015	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
865	0	1300	TGD-13015	TGAH-13015	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
866	0	1300	TGD-13016	TGD-13016	E-1316		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA70	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
867	0	1300	TGD-13016	TGAH-13016	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
868	0	1300	TGD-13016	TGAH-13016	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
869	0	1300	TGD-13017	TGD-13017	V-1316		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA70	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM													3 Wire, 0-20 mA
870	0	1300	TGD-13017	TGAH-13017	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
871	0	1300	TGD-13017	TGAH-13017	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-DOUBLE LONG)	ESBR-HS-CAF-0002						OWS																							
872	1	1300	TGD-130																																		



SADAF ESRB PLANT (BANDAR ASSALOUYEH)



FGS I/O List

Owner Doc No.: ESRB-CH-LST-0005

Contractor Doc. No.: N-275-000-CH-LST-0000-005

Rev.: 4

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Item No.	Rev.	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PIID F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm/Status Contact Activated	State Action	Value Failure Alarm	Low Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. number	Model no.	Remark		
924	0	1300	TGD-13035	TGAH-13035	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
925	0	1300	TGD-13035	TGAH-13035	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
649	1	1300	TGD-13036	TGAH-13036	R-1315I		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA78	6	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
927	0	1300	TGD-13036	TGAH-13036	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
928	0	1300	TGD-13036	TGAH-13036	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
650	4	1300	TGD-13037	TGAH-13037	V-1908		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA88	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
651	1	1300	TGD-13037	TGAH-13037	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
652	1	1300	TGD-13037	TGAH-13037	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
653	1	1300	TGD-13038	TGAH-13038	E-1315		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA70	13	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
654	1	1300	TGD-13038	TGAH-13038	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
655	1	1300	TGD-13038	TGAH-13038	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
656	1	1300	TGD-13039	TGAH-13039	V-1319		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA74	7	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
657	1	1300	TGD-13039	TGAH-13039	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
658	1	1300	TGD-13039	TGAH-13039	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
659	1	1300	TGD-13040	TGAH-13040	V-1317		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA74	10	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
660	1	1300	TGD-13040	TGAH-13040	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
661	1	1300	TGD-13040	TGAH-13040	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
662	1	1300	TGD-13041	TGAH-13041	V-1317S		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA74	11	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
663	1	1300	TGD-13041	TGAH-13041	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
664	1	1300	TGD-13041	TGAH-13041	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
665	1	1300	TGD-13042	TGAH-13042	V-1317		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA78	8	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
945	0	1300	TGD-13042	TGAH-13042	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
946	0	1300	TGD-13042	TGAH-13042	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
666	1	1300	TGD-13043	TGAH-13043	V-1317S		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA78	10	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
948	0	1300	TGD-13043	TGAH-13043	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
949	0	1300	TGD-13043	TGAH-13043	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
667	1	1300	TGD-13044	TGAH-13044	V-1319		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA78	12	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
951	0	1300	TGD-13044	TGAH-13044	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
952	0	1300	TGD-13044	TGAH-13044	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
953	0	1300	TGD-13045	TGAH-13045	V-1323		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA72	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
954	0	1300	TGD-13045	TGAH-13045	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
955	0	1300	TGD-13045	TGAH-13045	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
668	4	1300	TGD-13048	TGAH-13048	V-1316		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA88	6	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
669	1	1300	TGD-13048	TGAH-13048	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
670	1	1300	TGD-13048	TGAH-13048	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
671	4	1300	TGD-13049	TGAH-13049	V-1315		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA88	7	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
672	1	1300	TGD-13049	TGAH-13049	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
673	1	1300	TGD-13049	TGAH-13049	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
674	1	1300	TGD-13050	TGAH-13050	R-1301		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300JA74	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
675	1	1300	TGD-13050	TGAH-13050	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-002						OWS																							
676	1	1300	TGD-13050	TGAH-13050	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-002						OWS																							
677	1	1300	TGD-1																																		

SADAF ESRB PLANT (BANDAR ASSALOUYEH)																																				
FGS I/O List																																				
Owner Doc No.: ESRB-CH-LST-0005												Contractor Doc. No.: N-275-000-CH-LST-0000-005																								
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Item No.	Rev	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm/Status Contact Activated	State Action	Value Failure Alarm	Low Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. curve	Model no.	Remark	
731	4	1300	TGD-13069	TGD-13069	R-1313		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA72	10	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
732	4	1300	TGD-13069	TGAH-13069	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
733	4	1300	TGD-13069	TGAH-13069	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
734	4	1300	TGD-13070	TGD-13070	R-1301		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA74	13	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
735	4	1300	TGD-13070	TGAH-13070	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
736	4	1300	TGD-13070	TGAH-13070	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
737	4	1300	TGD-13071	TGD-13071	R-1302		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA74	14	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
738	4	1300	TGD-13071	TGAH-13071	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
739	4	1300	TGD-13071	TGAH-13071	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
740	4	1300	TGD-13072	TGD-13072	R-1303		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA75	13	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
741	4	1300	TGD-13072	TGAH-13072	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
742	4	1300	TGD-13072	TGAH-13072	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
743	4	1300	TGD-13073	TGD-13073	R-1304		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA75	14	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
744	4	1300	TGD-13073	TGAH-13073	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
745	4	1300	TGD-13073	TGAH-13073	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
746	4	1300	TGD-13074	TGD-13074	R-1305		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA89	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
747	4	1300	TGD-13074	TGAH-13074	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
748	4	1300	TGD-13074	TGAH-13074	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
749	4	1300	TGD-13075	TGD-13075	R-1306		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA89	2	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
750	4	1300	TGD-13075	TGAH-13075	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
751	4	1300	TGD-13075	TGAH-13075	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
752	4	1300	TGD-13076	TGD-13076	R-1307		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA89	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
753	4	1300	TGD-13076	TGAH-13076	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
754	4	1300	TGD-13076	TGAH-13076	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
755	4	1300	TGD-13077	TGD-13077	R-1308		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA89	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
756	4	1300	TGD-13077	TGAH-13077	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
757	4	1300	TGD-13077	TGAH-13077	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
758	4	1300	TGD-13078	TGD-13078	R-1309		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA89	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
759	4	1300	TGD-13078	TGAH-13078	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
760	4	1300	TGD-13078	TGAH-13078	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
761	4	1300	TGD-13079	TGD-13079	R-1310		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA89	6	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
762	4	1300	TGD-13079	TGAH-13079	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
763	4	1300	TGD-13079	TGAH-13079	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
764	4	1300	TGD-13080	TGD-13080	R-1311		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA89	7	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
765	4	1300	TGD-13080	TGAH-13080	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
766	4	1300	TGD-13080	TGAH-13080	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
767	4	1300	TGD-13081	TGD-13081	R-1312		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA89	8	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
768	4	1300	TGD-13081	TGAH-13081	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
769	4	1300	TGD-13081	TGAH-13081	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
770	4	1300	TGD-13082	TGD-13082	R-1313		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA89	9	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
771	4	1300	TGD-13082	TGAH-13082	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-0002						OVS												10										
772	4	1300	TGD-13082	TGAH-13082	(YELLOW FLASHING LIGHT)		TGD HIGH HIGH LEVEL	ESBR-HS-CAF-0002						OVS												50										
773	4	1300	TGD-13083	TGD-13083	R-1314		Toxic Gas (Open Area)	ESBR-HS-LYT-1302	AIR	NIS	FGDS	CRR	d	F	1300NA89	10	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM											3 Wire, 0-20 mA
774	4	1300	TGD-13083	TGAH-13083	(YELLOW FLASHING LIGHT)		TGD HIGH LEVEL	ESBR-HS-CAF-00																												



SADAF ESRB PLANT (BANDAR ASSALOUYEH)



FGS I/O List

Owner Doc No.: ESRB-CH-LST-0005

Contractor Doc No.: N-275-000-CH-LST-0000-005

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Item No.	Rev.	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Alarm Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm/Status Contact Activated	State Action	Value Failure Alarm	Low Range	High Range	Eng. Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. client	Model no.	Remark		
810	1	1800	TGD-18010	TGD-18010	V-1903		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA75	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM										3 Wire, 0-20 mA		
811	1	1800	TGD-18010	TGAH-18010	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
812	1	1800	TGD-18010	TGAH-18010	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
813	1	1800	FD-18009	FD-18009	P-1904		FLAME DETECTION IN OPEN AREA	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA72	9	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	%											3 Wire, 0-20 mA	
814	1	1800	TGD-18011	TGAH-18011	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
815	1	1800	TGD-18011	TGAH-18011	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
816	1	1800	IRGD-18011	IRGDP-18011	P-1903		Point Type Gas Detector	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA72	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	%LFL												3 Wire, 0-20 mA
817	1	1800	TGD-18012	TGAH-18012	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
818	1	1800	TGD-18012	TGAH-18012	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
819	1	1800	TGD-18013	TGD-18013	P-1902		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA73	2	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
820	1	1800	TGD-18013	TGAH-18013	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
821	1	1800	TGD-18013	TGAH-18013	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
822	1	1800	TGD-18014	TGD-18014	P-1901		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA73	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
823	1	1800	TGD-18014	TGAH-18014	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
824	1	1800	TGD-18014	TGAH-18014	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
825	1	1800	TGD-18015	TGD-18015	P-1806		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA73	8	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
826	1	1800	TGD-18015	TGAH-18015	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
827	1	1800	TGD-18015	TGAH-18015	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
828	1	1800	TGD-18016	TGD-18016	P-1904		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA75	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
829	1	1800	TGD-18016	TGAH-18016	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
830	1	1800	TGD-18016	TGAH-18016	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
831	1	1800	TGD-18017	TGD-18017	V-1806		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA75	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
832	1	1800	TGD-18017	TGAH-18017	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
833	1	1800	TGD-18017	TGAH-18017	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
834	1	1800	TGD-18018	TGD-18018	C-1902		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA74	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
835	1	1800	TGD-18018	TGAH-18018	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
836	1	1800	TGD-18018	TGAH-18018	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
837	1	1800	TGD-18019	TGD-18019	C-1901		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA74	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
838	1	1800	TGD-18019	TGAH-18019	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
839	1	1800	TGD-18019	TGAH-18019	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
840	1	1800	TGD-18020	TGD-18020	V-1803		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA74	6	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
841	1	1800	TGD-18020	TGAH-18020	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
842	1	1800	TGD-18020	TGAH-18020	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
843	1	1800	TGD-18021	TGD-18021	E-1802		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA75	10	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
844	1	1800	TGD-18021	TGAH-18021	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
845	1	1800	TGD-18021	TGAH-18021	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
846	2	1800	TGD-18022	TGD-18022	E-1802		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA76	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
847	2	1800	TGD-18022	TGAH-18022	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
848	2	1800	TGD-18022	TGAH-18022	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
849	1	1800	TGD-18024	TGD-18024	C-1901		Toxic Gas (Open Area)	ESBR-HS-LYT-1802	AIR	NIS	FGDS	CRR	d	F	1800NA77	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc			0	100	PPM												3 Wire, 0-20 mA
850	1	1800	TGD-18024	TGAH-18024	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
851	1	1800	TGD-18024	TGAH-18024	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
852	2	1800	TGD-18026	TGD-18026	C-19																																













SADAF ESRB PLANT (BANDAR ASSALOUYEH)



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Owner Doc No.: ESRB-CH-LST-0005

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Item No.	Rev.	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm On/Off	State	Alarm	Value	Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. number	Model no.	Remark		
1526	0	1400	TGD-14060	TGAH-14060	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1527	0	1400	TGD-14060	TGAH-14060	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1528	0	1400	TGD-14061	TGAH-14061	E-2402	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN79	3	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1529	0	1400	TGD-14061	TGAH-14061	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1530	0	1400	TGD-14061	TGAH-14061	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1093	1	1400	TGD-14062	TGAH-14062	E-2405	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN74	2	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1532	0	1400	TGD-14062	TGAH-14062	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1533	0	1400	TGD-14062	TGAH-14062	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1094	1	1400	TGD-14063	TGAH-14063	E-2405S	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN74	10	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1535	0	1400	TGD-14063	TGAH-14063	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1536	0	1400	TGD-14063	TGAH-14063	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1095	1	1400	TGD-14064	TGAH-14064	E-1401AS	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN81	3	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1096	1	1400	TGD-14064	TGAH-14064	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1097	1	1400	TGD-14064	TGAH-14064	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1098	1	1400	TGD-14065	TGAH-14065	E-1401BS	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN81	4	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1099	1	1400	TGD-14065	TGAH-14065	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1100	1	1400	TGD-14065	TGAH-14065	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1101	1	1400	TGD-14066	TGAH-14066	E-1401CS	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN81	5	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1102	1	1400	TGD-14066	TGAH-14066	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1103	1	1400	TGD-14066	TGAH-14066	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1104	1	1400	TGD-14067	TGAH-14067	E-1401A	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN81	6	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1105	1	1400	TGD-14067	TGAH-14067	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1106	1	1400	TGD-14067	TGAH-14067	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1107	1	1400	TGD-14068	TGAH-14068	E-1401B	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN81	7	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1108	1	1400	TGD-14068	TGAH-14068	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1109	1	1400	TGD-14068	TGAH-14068	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1110	1	1400	TGD-14069	TGAH-14069	E-1401C	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN81	8	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1111	1	1400	TGD-14069	TGAH-14069	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1112	1	1400	TGD-14069	TGAH-14069	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1113	1	1400	TGD-14070	TGAH-14070	E-2401A	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN80	1	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1114	1	1400	TGD-14070	TGAH-14070	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1115	1	1400	TGD-14070	TGAH-14070	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1116	1	1400	TGD-14071	TGAH-14071	E-2401B	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN80	2	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1117	1	1400	TGD-14071	TGAH-14071	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1118	1	1400	TGD-14071	TGAH-14071	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1119	1	1400	TGD-14072	TGAH-14072	E-2401C	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN80	3	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1120	1	1400	TGD-14072	TGAH-14072	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1121	1	1400	TGD-14072	TGAH-14072	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OWS												PPM	50											
1122	1	1400	TGD-14073	TGAH-14073	E-2401AS	Toxic Gas (Open Area)	ESBR-HS-LYT-1402	AIR NIS FGDS CRR	d	F				1400JN80	4	16-T-1.50-11-SWA-S-RD-N			ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA		
1123	1	1400	TGD-14073	TGAH-14073	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OWS												PPM												
1124	1	1400	TGD-14073	TGAH-14073	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM																															



SADAF ESRB PLANT (BANDAR ASSALOUYEH)



FGS I/O List

Owner Doc No.: ESRB-CH-LST-0005

Contractor Doc. No.: N-275-000-CH-LST-0000-005

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Item No.	Rev	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm On/Off Contact Activated	State Action	Value Failure Action	Low Range	High Range	Eng. Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. code	Model no.	Remark	
1720	0	1400	IRGD-14041	IRGAH-14041	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1721	0	1400	IRGD-14042	IRGAH-14042	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1198	1	1400	IRGD-14042	IRGDP-14042	V-2405	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-1402		AIR	NIS	FGDS	CRR	F	1400JA76	9	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-00103940	EXT24Vdc				0	100	%LFL									3 Wire, 0-20 mA	
1724	0	1400	IRGD-14042	IRGAH-14042	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1725	0	1400	IRGD-14043	IRGDP-14043	E-14068	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F				46-T-1.60-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1726	0	1400	IRGD-14043	IRGAH-14043	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1727	0	1400	IRGD-14043	IRGAH-14043	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1728	0	1400	IRGD-14044	IRGDP-14044	E-14068	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F				46-T-1.60-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1729	0	1400	IRGD-14044	IRGAH-14044	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1730	0	1400	IRGD-14044	IRGAH-14044	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1731	0	1400	IRGD-14045	IRGDP-14045	E-14072	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F	1400JA87			16-T-1.50-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1732	0	1400	IRGD-14045	IRGAH-14045	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1733	0	1400	IRGD-14045	IRGAH-14045	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1734	0	1400	IRGD-14046	IRGDP-14046	Y-1450-FUN	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F				46-T-1.60-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1735	0	1400	IRGD-14046	IRGAH-14046	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1736	0	1400	IRGD-14046	IRGAH-14046	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1737	0	1400	IRGD-14047	IRGDP-14047	E-1407A	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F	1400JA86			16-T-1.50-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1738	0	1400	IRGD-14047	IRGAH-14047	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1739	0	1400	IRGD-14047	IRGAH-14047	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1740	0	1400	IRGD-14048	IRGDP-14048	E-1409B	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F	1400JA86			46-T-1.60-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1741	0	1400	IRGD-14048	IRGAH-14048	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1742	0	1400	IRGD-14048	IRGAH-14048	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1743	0	1400	IRGD-14049	IRGDP-14049	E-1409C	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F	1400JA86			46-T-1.60-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1744	0	1400	IRGD-14049	IRGAH-14049	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1745	0	1400	IRGD-14049	IRGAH-14049	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1746	0	1400	IRGD-14050	IRGDP-14050	Y-1400	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F				16-T-1.50-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1747	0	1400	IRGD-14050	IRGAH-14050	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1748	0	1400	IRGD-14050	IRGAH-14050	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1749	0	1400	IRGD-14051	IRGDP-14051	Y-1400B	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F				46-T-1.60-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1750	0	1400	IRGD-14051	IRGAH-14051	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1751	0	1400	IRGD-14051	IRGAH-14051	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1752	0	1400	IRGD-14052	IRGDP-14052	E-1407A	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F	1400JA86			16-T-1.50-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1753	0	1400	IRGD-14052	IRGAH-14052	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1754	0	1400	IRGD-14052	IRGAH-14052	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1755	0	1400	IRGD-14053	IRGDP-14053	V-2405	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F	1400JA83			46-T-1.60-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1756	0	1400	IRGD-14053	IRGAH-14053	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1757	0	1400	IRGD-14053	IRGAH-14053	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1758	0	1400	IRGD-14054	IRGDP-14054	Y-2405B	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F	1400JA82			46-T-1.60-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										3-Wire-0-20-mA
1759	0	1400	IRGD-14054	IRGAH-14054	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL		25									
1760	0	1400	IRGD-14054	IRGAH-14054	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-LONG-SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OWS											%LFL	50										
1761	0	1400	IRGD-14055	IRGDP-14055	E-2407A	Open-Path-Type Gas Detector	Flammable-Gas (Open Area)	ESBR-HS-LYT-1402(Rev.0)		FGDS	CRR	F	F	1400JA83			16-T-1.50-11-SWA-S-RD-N			0V/24Vdc				0	100	%LFL										

SADAF ESRB PLANT (BANDAR ASSALOUYEH)																																							
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Item No.	Rev	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	High/Normal/Standby/Control/Activated/Alarm	State	Alarm	Value	Failure	Alarm	Low Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. number	Model no.	Remark	
1814	0	2300	IRGD-23003	IRGAH-23003	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS															%LFL	50									
1218	1	2300	IRGD-23004	IRGDP-23004	R-2304	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA71	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1816	0	2300	IRGD-23004	IRGAH-23004	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1817	0	2300	IRGD-23004	IRGAH-23004	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1219	1	2300	IRGD-23005	IRGDP-23005	R-2305	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA71	7	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1819	0	2300	IRGD-23005	IRGAH-23005	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1820	0	2300	IRGD-23005	IRGAH-23005	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1220	1	2300	IRGD-23006	IRGDP-23006	R-2306	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA71	9	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1822	0	2300	IRGD-23006	IRGAH-23006	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1823	0	2300	IRGD-23006	IRGAH-23006	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1221	1	2300	IRGD-23007	IRGDP-23007	R-2307	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA72	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1825	0	2300	IRGD-23007	IRGAH-23007	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1826	0	2300	IRGD-23007	IRGAH-23007	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1222	1	2300	IRGD-23008	IRGDP-23008	R-2308	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA72	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1828	0	2300	IRGD-23008	IRGAH-23008	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1829	0	2300	IRGD-23008	IRGAH-23008	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1223	1	2300	IRGD-23009	IRGDP-23009	R-2309	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA72	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1831	0	2300	IRGD-23009	IRGAH-23009	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1832	0	2300	IRGD-23009	IRGAH-23009	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1224	1	2300	IRGD-23010	IRGDP-23010	R-2310	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA72	7	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1834	0	2300	IRGD-23010	IRGAH-23010	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1835	0	2300	IRGD-23010	IRGAH-23010	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1225	1	2300	IRGD-23011	IRGDP-23011	R-2311	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA73	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1837	0	2300	IRGD-23011	IRGAH-23011	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1838	0	2300	IRGD-23011	IRGAH-23011	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1226	1	2300	IRGD-23012	IRGDP-23012	R-2312	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA73	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1840	0	2300	IRGD-23012	IRGAH-23012	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1841	0	2300	IRGD-23012	IRGAH-23012	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1227	1	2300	IRGD-23013	IRGDP-23013	R-2313	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA73	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1843	0	2300	IRGD-23013	IRGAH-23013	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1844	0	2300	IRGD-23013	IRGAH-23013	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1228	1	2300	IRGD-23014	IRGDP-23014	R-2314	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA73	7	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1846	0	2300	IRGD-23014	IRGAH-23014	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1847	0	2300	IRGD-23014	IRGAH-23014	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1229	1	2300	IRGD-23015	IRGDP-23015	V-2315	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA70	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/3940	EXT24Vdc																			3 Wire, 0-20 mA
1849	0	2300	IRGD-23015	IRGAH-23015	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH LEVEL	25% OF LFL	ESBR-HS-CAF-0002		OVS																									
1850	0	2300	IRGD-23015	IRGAH-23015	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002	IRGD	HIGH HIGH LEVEL	50% OF LFL	ESBR-HS-CAF-0002		OVS																									
1230	1	2300	IRGD-23016	IRGDP-23016	V-2317	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	N																													

SADAF ESRB PLANT (BANDAR ASSALOUYEH)																																						
FGS I/O List																																						
Owner Doc No.: ESRB-CH-LST-0005										Contractor Doc. No.: N-275-000-CH-LST-0000-005																												
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Item No.	Rev	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm/Status/Control/Activated/State/Action	Value/Range/Adjust	Low Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. client	Model no.	Remark				
1254	1	2300	IRGD-23035	IRGDP-23035	R-2312	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN76	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	%LFL					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030			3 Wire, 0-20 mA					
1255	1	2300	IRGD-23035	IRGAH-23035	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OVS																								
1256	1	2300	IRGD-23035	IRGAH-23035	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OVS																								
1257	1	2300	IRGD-23036	IRGDP-23036	R-2313	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN76	7	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	%LFL					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030					3 Wire, 0-20 mA			
1258	1	2300	IRGD-23036	IRGAH-23036	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OVS																								
1259	1	2300	IRGD-23036	IRGAH-23036	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OVS																								
1260	1	2300	IRGD-23037	IRGDP-23037	R-2314	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN76	10	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	%LFL					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA	
1261	1	2300	IRGD-23037	IRGAH-23037	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OVS																								
1262	1	2300	IRGD-23037	IRGAH-23037	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OVS																								
1263	1	2300	IRGD-23038	IRGDP-23038	V-2317	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN75	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	%LFL					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA	
1264	1	2300	IRGD-23038	IRGAH-23038	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OVS																								
1265	1	2300	IRGD-23038	IRGAH-23038	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OVS																								
1266	1	2300	IRGD-23039	IRGDP-23039	V-2317S	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN75	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	%LFL					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA	
1267	1	2300	IRGD-23039	IRGAH-23039	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OVS																								
1268	1	2300	IRGD-23039	IRGAH-23039	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OVS																								
1269	1	2300	IRGD-23040	IRGDP-23040	V-2319	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN75	5	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	%LFL					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA	
1270	1	2300	IRGD-23040	IRGAH-23040	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OVS																								
1271	1	2300	IRGD-23040	IRGAH-23040	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OVS																								
1272	1	2300	IRGD-23041	IRGDP-23041	V-2315	Point Type Gas Detector	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN75	7	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	%LFL					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA	
1273	1	2300	IRGD-23041	IRGAH-23041	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OVS																								
1274	1	2300	IRGD-23041	IRGAH-23041	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OVS																								
1275	1	2300	IRGD-23042	IRGDP-23042	R-2315A-J	Open Path Type Gas Detector Transmitter	Flammable Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN75	7	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	%LFL					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA	
1276	1	2300	IRGD-23042	IRGAH-23042	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH LEVEL 25% OF LFL	ESBR-HS-CAF-0002						OVS																								
1277	1	2300	IRGD-23042	IRGAH-23042	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OVS																								
1278	1	2300	IRGD-23042	IRGAH-23042	(GREEN FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(LONG-SHORT))	IRGD HIGH HIGH LEVEL 50% OF LFL	ESBR-HS-CAF-0002						OVS																								
1934	0	2300	TGD-23001	TGD-23001	R-2301	Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN70	2	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA		
1935	0	2300	TGD-23001	TGAH-23001	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS																								
1936	0	2300	TGD-23001	TGAH-23001	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS																								
1279	2	0003	TGD-23004	TGAH-23004	Signal connection through remote I/O	ESBR-HS-LYT-2302	ESBR-HS-CAF-0002																															
1939	0	2300	TGD-23002	TGD-23002	R-2302	Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN71	2	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA		
1940	0	2300	TGD-23002	TGAH-23002	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS																								
1941	0	2300	TGD-23002	TGAH-23002	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS																								
1942	0	2300	TGD-23003	TGD-23003	R-2303	Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN71	4	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA		
1943	0	2300	TGD-23003	TGAH-23003	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS																								
1944	0	2300	TGD-23003	TGAH-23003	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS																								
1945	0	2300	TGD-23004	TGD-23004	R-2304	Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN71	6	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA		
1946	0	2300	TGD-23004	TGAH-23004	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS-CAF-0002						OVS																								
1947	0	2300	TGD-23004	TGAH-23004	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM	ESBR-HS-CAF-0002						OVS																								
1948	0	2300	TGD-23005	TGD-23005	R-2305	Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JN71	8	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc		0	100	PPM					ESBR-CI-DWG-2301	ESBR-CI-DAS-0030							3 Wire, 0-20 mA		
1949	0	2300	TGD-23005	TGAH-23005	(YELLOW FLASHING LIGHT)	AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM	ESBR-HS																														

SADAF ESRB PLANT (BANDAR ASSALOUYEH)																																						
FGS I/O List																																						
Owner Doc No.: ESRB-CH-LST-0005												Contractor Doc. No.: N-275-000-CH-LST-0000-005																										
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Item No.	Rev	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Signal Conn	Back Room	Ext	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm/Status/Control/Activated/Alarm	State Alarm	Value Failure Alarm	Low Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. number	Model no.	Remark			
2004	0	2300	TGD-23023	TGAH-23023	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1288	1	2300	TGD-23024	TGD-23024	R-23151		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA74	12	16-T-1.50-11-SWA-S-RD-N						PPM											3 Wire, 0-20 mA	
2006	0	2300	TGD-23024	TGAH-23024	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2007	0	2300	TGD-23024	TGAH-23024	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1289	1	2300	TGD-23025	TGD-23025	V-2317		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA75	2	16-T-1.50-11-SWA-S-RD-N						PPM											3 Wire, 0-20 mA	
2009	0	2300	TGD-23025	TGAH-23025	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2010	0	2300	TGD-23025	TGAH-23025	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1290	1	2300	TGD-23026	TGD-23026	V-2317S		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA75	4	16-T-1.50-11-SWA-S-RD-N						PPM											3 Wire, 0-20 mA	
2012	0	2300	TGD-23026	TGAH-23026	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2013	0	2300	TGD-23026	TGAH-23026	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1291	1	2300	TGD-23027	TGD-23027	V-2319		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA75	6	16-T-1.50-11-SWA-S-RD-N						PPM												3 Wire, 0-20 mA
2015	0	2300	TGD-23027	TGAH-23027	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2016	0	2300	TGD-23027	TGAH-23027	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1292	1	2300	TGD-23028	TGD-23028	V-2316		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA79	8	16-T-1.50-11-SWA-S-RD-N						PPM												3 Wire, 0-20 mA
2018	0	2300	TGD-23028	TGAH-23028	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2019	0	2300	TGD-23028	TGAH-23028	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1293	1	2300	TGD-23029	TGD-23029	V-2315		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA79	9	16-T-1.50-11-SWA-S-RD-N						PPM												3 Wire, 0-20 mA
2021	0	2300	TGD-23029	TGAH-23029	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2022	0	2300	TGD-23029	TGAH-23029	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1294	1	2300	TGD-23030	TGD-23030	V-2301		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA79	2	16-T-1.50-11-SWA-S-RD-N						PPM												3 Wire, 0-20 mA
2024	0	2300	TGD-23030	TGAH-23030	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2025	0	2300	TGD-23030	TGAH-23030	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1295	1	2300	TGD-23031	TGD-23031	V-2302		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA79	5	16-T-1.50-11-SWA-S-RD-N						PPM												3 Wire, 0-20 mA
2027	0	2300	TGD-23031	TGAH-23031	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2028	0	2300	TGD-23031	TGAH-23031	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1296	1	2300	TGD-23032	TGD-23032	V-2303		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA78	2	16-T-1.50-11-SWA-S-RD-N						PPM												3 Wire, 0-20 mA
2030	0	2300	TGD-23032	TGAH-23032	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2031	0	2300	TGD-23032	TGAH-23032	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1297	1	2300	TGD-23033	TGD-23033	V-2304		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA78	5	16-T-1.50-11-SWA-S-RD-N						PPM												3 Wire, 0-20 mA
2033	0	2300	TGD-23033	TGAH-23033	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2034	0	2300	TGD-23033	TGAH-23033	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1298	1	2300	TGD-23034	TGD-23034	V-2305		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA78	8	16-T-1.50-11-SWA-S-RD-N						PPM												3 Wire, 0-20 mA
2036	0	2300	TGD-23034	TGAH-23034	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2037	0	2300	TGD-23034	TGAH-23034	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1299	1	2300	TGD-23035	TGD-23035	V-2306		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA78	11	16-T-1.50-11-SWA-S-RD-N						PPM												3 Wire, 0-20 mA
2039	0	2300	TGD-23035	TGAH-23035	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2040	0	2300	TGD-23035	TGAH-23035	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1300	1	2300	TGD-23036	TGD-23036	V-2307		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JNA77	2	16-T-1.50-11-SWA-S-RD-N						PPM												3 Wire, 0-20 mA
2042	0	2300	TGD-23036	TGAH-23036	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-CAF-0002			OWS												PPM												
2043	0	2300	TGD-23036	TGAH-23036	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH HIGH LEVEL	50 PPM	ESBR-HS-CAF-0002			OWS												PPM	50											
1301	1	2300	TGD-23037	TGD-23037	V-2308		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG) )	TGD	HIGH LEVEL	10 PPM	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F																					



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Item No.	Rev.	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Alarm Conn.	Rack Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm On/Off	State	Alarm	Value	Range	High Range	Eng. Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. client	Model no.	Remark	
1334	1	2300	TGD-23067	TGD-23067	R-2315		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA75	12	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM										3 Wire, 0-20 mA	
1335	1	2300	TGD-23067	TGAH-23067	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1336	1	2300	TGD-23067	TGAH-23067	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1337	1	2300	TGD-23059	TGD-23059	R-2311		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA76	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1338	1	2300	TGD-23059	TGAH-23059	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1339	1	2300	TGD-23059	TGAH-23059	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1340	1	2300	TGD-23060	TGD-23060	R-2312		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA76	6	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1341	1	2300	TGD-23060	TGAH-23060	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1342	1	2300	TGD-23060	TGAH-23060	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1343	1	2300	TGD-23061	TGD-23061	R-2313		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA76	9	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1344	1	2300	TGD-23061	TGAH-23061	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1345	1	2300	TGD-23061	TGAH-23061	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1346	1	2300	TGD-23062	TGD-23062	R-2314		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA76	12	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1347	1	2300	TGD-23062	TGAH-23062	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1348	1	2300	TGD-23062	TGAH-23062	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1349	1	2300	TGD-23051	TGD-23051	R-2303		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA78	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1350	1	2300	TGD-23051	TGAH-23051	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1351	1	2300	TGD-23051	TGAH-23051	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1352	1	2300	TGD-23052	TGD-23052	R-2304		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA78	6	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1353	1	2300	TGD-23052	TGAH-23052	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1354	1	2300	TGD-23052	TGAH-23052	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1355	1	2300	TGD-23053	TGD-23053	R-2305		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA78	9	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1356	1	2300	TGD-23053	TGAH-23053	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1357	1	2300	TGD-23053	TGAH-23053	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1358	1	2300	TGD-23054	TGD-23054	R-2306		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA78	12	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1359	1	2300	TGD-23054	TGAH-23054	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1360	1	2300	TGD-23054	TGAH-23054	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1361	1	2300	TGD-23055	TGD-23055	R-2307		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA77	3	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1362	1	2300	TGD-23055	TGAH-23055	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1363	1	2300	TGD-23055	TGAH-23055	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1364	1	2300	TGD-23056	TGD-23056	R-2308		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA77	6	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1365	1	2300	TGD-23056	TGAH-23056	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1366	1	2300	TGD-23056	TGAH-23056	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1367	1	2300	TGD-23057	TGD-23057	R-2309		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA77	9	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1368	1	2300	TGD-23057	TGAH-23057	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1369	1	2300	TGD-23057	TGAH-23057	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1370	1	2300	TGD-23058	TGD-23058	R-2310		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA77	12	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1371	1	2300	TGD-23058	TGAH-23058	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1372	1	2300	TGD-23058	TGAH-23058	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM						OVS																							
1373	4	2300	TGD-23068	TGD-23068	R-2301		Toxic Gas (Open Area)	ESBR-HS-LYT-2302	AIR	NIS	FGDS	CRR	d	F	2300JA83	1	16-T-1.50-11-SWA-S-RD-N		ESBR-CI-DGR-0010/39/40	EXT24Vdc				0	100	PPM											3 Wire, 0-20 mA
1374	4	2300	TGD-23068	TGAH-23068	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH LEVEL 10 PPM						OVS																							
1375	4	2300	TGD-23068	TGAH-23068	(YELLOW FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-(DOUBLE LONG))	TGD HIGH HIGH LEVEL 50 PPM																													



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Table with columns: Item No, Rev, Unit, Loop Number, TAG-Number, Service\_1, Service\_2, Description, PID/FAG Decision Layout, I/O Type, Signal Type, Signal Conn, Rack Room, Ext, Location, JB No., TB No., Cable Type, Line no., Typical Loop (I), Power Source, Trip/Status, Contact/Activated, State, Alarm, Valve Failure, Alarm, Low Range, High Range, Eng Units, High High Trip, High Alarm, Low Alarm, Low Low Trip, Cable Routing No., Data Sheet no., Manufa. number, Model no., Remark.



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Item No.	Rev.	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Decision Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm/Status/Control/Activated State	Value Failure Action	Low Range	High Range	Eng. Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. number	Model no.	Remark					
2262	0	1100	DV-11004	UA-11704	Typical A		Cumulative Alarm (Control Room)	ESBR-HS-PID-1912						OWS																									
1475	3	0000	DV-11004	PAL-11704BB	The JB's are usually supplied by package vendor		FUSIBLE LINK MELTED STATUS LAMP 11004	ESBR-HS-CAF-0002	DOR	NIS	FGDS	CRR		MP	1000CND11	11	16-P1.50-11-NAR-R-RD-N			SY2/24Vdc	CLOSE																		
1476	4	0000	DV-11004	PAH-11704AB	The JB's are usually supplied by package vendor		DELUGE VALVE RELEASE STATUS LAMP 11004	ESBR-HS-CAF-0002	DOR	NIS	FGDS	CRR		MP	1000CND11	12	16-P1.50-11-NAR-R-RD-N			SY2/24Vdc	CLOSE																		
1477	4	0003	DV-11004	PAL-11704BC	Signal connection through remote I/O		FUSIBLE LINK MELTED STATUS LAMP OF AREA 11004	ESBR-HS-CAF-0002	DO	NIS	FGDS	CRR		GFAP	N.A					SY2/24Vdc	CLOSE																		
1478	4	0003	DV-11004	PAH-11704AC	Signal connection through remote I/O		DELUGE VALVE RELEASE STATUS LAMP 11004	ESBR-HS-CAF-0002	DO	NIS	FGDS	CRR		GFAP	N.A					SY2/24Vdc	CLOSE																		
2267	0	1800	DV-18001	DV-18001	Typical A		Deluge Valve	ESBR-HS-PID-1912						F																									
1479	1	1800	DV-18001	PT-18701A	The JB's are usually supplied by package vendor		Pressure Transmitter Water line	ESBR-HS-PID-1912	AIR	NIS	FGDS	CRR	d	F	1800JN82	1	04-P1.50-11-SWA-S-RD-N			SY2/24Vdc		OPEN																Package, Signals are not finalised yet	
1480	1	1800	DV-18001	PT-18701B	The JB's are usually supplied by package vendor		Pressure Transmitter Air Line	ESBR-HS-PID-1912	AIR	NIS	FGDS	CRR	d	F	1800JN82	2	04-P1.50-11-SWA-S-RD-N			SY2/24Vdc																			2-Wire 4-20 mA
2270	0	1800	DV-18001	PI-18701A	The JB's are usually supplied by package vendor		Pressure Indicator (water line)	ESBR-HS-PID-1912						F																								Data will be modified based on vendor data	
2271	0	1800	DV-18001	PI-18701B	The JB's are usually supplied by package vendor		Pressure Indicator (water line)	ESBR-HS-PID-1912						F																									
2272	0	1800	DV-18001	PI-18701C	The JB's are usually supplied by package vendor		Pressure Indicator related to regulating valve	ESBR-HS-PID-1912						F																									
2273	0	1800	DV-18001	PI-18701D	The JB's are usually supplied by package vendor		Pressure Indicator related to Pilot	ESBR-HS-PID-1912						F																									
2274	0	1800	DV-18001	PI-18701E	The JB's are usually supplied by package vendor		Pressure Indicator	ESBR-HS-PID-1912						F																									
2275	0	1800	DV-18001	FO-18701 A	The JB's are usually supplied by package vendor		Orifice Plate water	ESBR-HS-PID-1912						F																									
2276	0	1800	DV-18001	FO-18701 B	The JB's are usually supplied by package vendor		Orifice Plate Air	ESBR-HS-PID-1912						F																									
2277	0	1800	DV-18001	PSV18701	The JB's are usually supplied by package vendor		Pressure Safety Valve	ESBR-HS-PID-1912						F																									
2278	0	1800	DV-18001	PCV-18701	The JB's are usually supplied by package vendor		Regulating valve	ESBR-HS-PID-1912						F																									
1481	2	1800	DV-18001	HY-18701	The JB's are usually supplied by package vendor		Controller for solenoid	ESBR-HS-PID-1912	DOR	NIS	FGDS	CRR	d	F	1800JN84	1	01-P2.50-01-SWA-S-RD-N			EXT2/24Vdc	OPEN																		
1482	2	1800	DV-18001	MR-18001	The JB's are usually supplied by package vendor		Manual Release	ESBR-HS-PID-1912	NIS				d	F	1800JN84	2	01-P2.50-01-SWA-S-RD-N			SY2/24Vdc	OPEN																		
2281	0	1800	DV-18001	AG-18701	The JB's are usually supplied by package vendor		Water Alarm GONG	ESBR-HS-PID-1912						F																									
2282	0	0000	DV-18001	HS-18701B	HAND SWITCH(CONTROL ROOM) 18001		Signal from Matrix Panel Central Control Room (CCR)	ESBR-HS-PID-1912	DIR	NIS	FGDS	CRR	MP	1000CND18	2	16-P1.50-11-NAR-R-RD-N			SY2/24Vdc	OPEN																			Line Monitoring
2283	0	0000	DV-18001	XS-18701LB	HAND SWITCH LAMP (CONTROL ROOM) 18001		Signal from Matrix Panel Central Control Room (CCR)	ESBR-HS-PID-1912	DO	NIS	FGDS	CRR	MP	1000CND18	3	16-P1.50-11-NAR-R-RD-N			SY2/24Vdc	OPEN																			
2284	0	1800	DV-18001	HS-18701	Software switch		Handswitch Remote	ESBR-HS-PID-1912						OWS																									
1483	3	1800	DV-18001	HSR-18701	AUDIBLE ALARM (CONTINUOUS)		Handswitch reset	ESBR-HS-PID-1912						OWS																									
1484	3	1800	DV-18001	PAH-18701	AUDIBLE ALARM (CONTINUOUS)		Pressure Alarm High (water)	ESBR-HS-PID-1912						OWS																									
1484	3	1800	DV-18001	PAL-18701	AUDIBLE ALARM (CONTINUOUS)		Pressure Alarm Low (Air)	ESBR-HS-PID-1912						OWS																									
2287	0	1800	DV-18001	UA-18701	Typical A		Cumulative Alarm (Control Room)	ESBR-HS-PID-1912						OWS																									
1485	4	0000	DV-18001	PAL-18701BB	Signal connection through remote I/O		FUSIBLE LINK MELTED STATUS LAMP 18001	ESBR-HS-CAF-0002	DOR	NIS	FGDS	CRR	MP	1000CND18	3	16-P1.50-11-NAR-R-RD-N			SY2/24Vdc	CLOSE																			
1486	4	0000	DV-18001	PAH-18701AB	Signal connection through remote I/O		DELUGE VALVE RELEASE STATUS LAMP 18001	ESBR-HS-CAF-0002	DOR	NIS	FGDS	CRR	MP	1000CND18	4	16-P1.50-11-NAR-R-RD-N			SY2/24Vdc	CLOSE																			
1487	4	0003	DV-18001	PAL-18701BC	Signal connection through remote I/O		FUSIBLE LINK MELTED STATUS LAMP OF AREA 18001	ESBR-HS-CAF-0002	DO	NIS	FGDS	CRR	GFAP	N.A						SY2/24Vdc	CLOSE																		
1488	4	0003	DV-18001	PAH-18701AC	Signal connection through remote I/O		DELUGE VALVE RELEASE STATUS LAMP 18001	ESBR-HS-CAF-0002	DO	NIS	FGDS	CRR	GFAP	N.A						SY2/24Vdc	CLOSE																		
2292	0	1800	DV-18001	FO-18900	Fire-water-Ring-Main		Orifice-Plate-Main-Line	ESBR-HS-PID-1804						E																								Moved to Main Instrument Index	
2293	0	1800	DV-18002	DV-18002	Typical A		Deluge Valve	ESBR-HS-PID-1912						F																									
1489	1	1800	DV-18002	PT-18702A	The JB's are usually supplied by package vendor		Pressure Transmitter Water line	ESBR-HS-PID-1912	AIR	NIS	FGDS	CRR	d	F	1800JN83	1	04-P1.50-11-SWA-S-RD-N			SY2/24Vdc		OPEN																	
1490	1	1800	DV-18002	PT-18702B	The JB's are usually supplied by package vendor		Pressure Transmitter Air Line	ESBR-HS-PID-1912	AIR	NIS	FGDS	CRR	d	F	1800JN83	2	04-P1.50-11-SWA-S-RD-N			SY2/24Vdc																			
2296	0	1800	DV-18002	PI-18702A	The JB's are usually supplied by package vendor		Pressure Indicator (water line)	ESBR-HS-PID-1912						F																									
2297	0	1800	DV-18002	PI-18702B	The JB's are usually supplied by package vendor		Pressure Indicator (water line)	ESBR-HS-PID-1912						F																									
2298	0	1800	DV-18002	PI-18702C	The JB's are usually supplied by package vendor		Pressure Indicator related to regulating valve	ESBR-HS-PID-1912						F																									
2299	0	1800	DV-18002	PI-18702D	The JB's are usually supplied by package vendor		Pressure Indicator related to Pilot	ESBR-HS-PID-1912						F																									
2300	0	1800	DV-18002	PI-18702E	The JB's are usually supplied by package vendor		Pressure Indicator	ESBR-HS-PID-1912						F																									
2301	0	1800	DV-18002	FO-18702 A	The JB's are usually supplied by package vendor		Orifice Plate water	ESBR-HS-PID-1912						F																									
2302	0	1800	DV-18002	FO-18702 B	The JB's are usually supplied by package vendor		Orifice Plate Air	ESBR-HS-PID-1912						F																									
2303	0	1800	DV-18002	PSV18702	The JB's are usually supplied by package vendor		Pressure Safety Valve	ES																															

Logo		SADAF ESRB PLANT (BANDAR ASSALOUYEH)																				Logo																
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Item No.	Rev	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Decision Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Alarm/Status/Control/Activated/Status/Alarm	Value Failure Alarm	Low Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. number	Model no.	Remark				
2379	0	1400	DV-14001	FO-14701 B			Orifice Plate Air	ESBR-HS-PID-1912						F																								
2380	0	1400	DV-14001	PSV14701			Pressure Safety Valve	ESBR-HS-PID-1912						F																								
2381	0	1400	DV-14001	PCV-14701			Regulating valve	ESBR-HS-PID-1912						F																								
1526	2	1400	DV-14001	HY-14701			The JB's are usually supplied by package vendor	Controller for solenoid	DOR	NIS	FGDS	CRR	d	F	1400JNS95	1	01-P-2.50-01-SWA-S-RD-N																					
1527	2	1400	DV-14001	MR-14701			The JB's are usually supplied by package vendor	Manual Release						F	1400JNS95	2	01-P-2.50-01-SWA-S-RD-N																					
2384	0	1400	DV-14001	AG-14701			Water Alarm GONG	ESBR-HS-PID-1912						F																								
2385	0	0000	DV-14001	HS-14701B			HAND SWITCH/CONTROL ROOM# 14001	Signal to Matrix Panel Central Control Room (CCR)	DIR	NIS	FGDS	CRR	MP		1000CND14	11	16-P-1.50-11-NAR-R-RD-N																					
1528	4	0000	DV-14001	XS-14701LB			HAND SWITCH LAMP /CONTROL ROOM# 14001	Signal from Matrix Panel Central Control Room (CCR)	DO	NIS	FGDS	CRR	MP		16-P-1.50-11-NAR-R-RD-N																							
2386	0	1400	DV-14001	HS-14701			Software switch	Handswitch Remote						OVS																								
2387	0	1400	DV-14001	HSR-14701			Software reset switch	Handswitch reset						OVS																								
1529	3	1400	DV-14001	PAH-14701	AUDIBLE ALARM (CONTINUOUS)		Pressure Alarm High (water)	ESBR-HS-PID-1912						OVS																								
1530	3	1400	DV-14001	PAL-14701	AUDIBLE ALARM (CONTINUOUS)		(RED FLASHING LIGHT)	ESBR-HS-PID-1912						OVS																								
2390	0	1400	DV-14001	UA-14701			Cumulative Alarm (Control Room)	ESBR-HS-PID-1912						OVS																								
1531	4	0000	DV-14001	PAL-14701BB			FUSIBLE LINK MELTED STATUS LAMP 14001	Signal to Matrix Panel Central Control Room (CCR)	DOR	NIS	FGDS	CRR	MP		1000CND14	4	16-P-1.50-11-NAR-R-RD-N																					
1532	4	0000	DV-14001	PAH-14701AB			DELUGE VALVE RELEASE STATUS LAMP 14001	Signal to Matrix Panel Central Control Room (CCR)	DOR	NIS	FGDS	CRR	MP		1000CND14	5	16-P-1.50-11-NAR-R-RD-N																					
1533	4	0003	DV-14001	PAL-14701BC			Signal connection through remote I/O	Signal to GFAP In Fire station	DO	NIS	FGDS	CRR	GFAP	N.A																								
1534	4	0003	DV-14001	PAH-14701AC			Signal connection through remote I/O	Signal to GFAP In Fire station	DO	NIS	FGDS	CRR	GFAP	N.A																								
2395	0	1400	DV-14001	FO-14600	Fire-Water-Reg-Main		Orifice-Plate-Main-Line	ESBR-HS-PID-1460						F																								
1535	4	1600	DV-16030	PT-16701A	Typical A		Deluge Valve	ESBR-HS-PID-1912						F																								
1536	4	1600	DV-16030	PT-16701A			The JB's are usually supplied by package vendor	Pressure Transmitter Water line	AIR	NIS	FGDS	FRR	d	F	1600JNA74	1	04-P-1.50-11-SWA-S-RD-N																					
1537	4	1600	DV-16030	PT-16701B			The JB's are usually supplied by package vendor	Pressure Transmitter Air Line	AIR	NIS	FGDS	FRR	d	F	1600JNA74	2	04-P-1.50-11-SWA-S-RD-N																					
1538	4	1600	DV-16030	PI-16701A			Pressure Indicator (water line)	ESBR-HS-PID-1912						F																								
1539	4	1600	DV-16030	PI-16701B			Pressure Indicator (water line)	ESBR-HS-PID-1912						F																								
1540	4	1600	DV-16030	PI-16701C			Pressure Indicator related to regulating valve	ESBR-HS-PID-1912						F																								
1541	4	1600	DV-16030	PI-16701D			Pressure Indicator related to Pilot	ESBR-HS-PID-1912						F																								
1542	4	1600	DV-16030	PI-16701E			Pressure Indicator	ESBR-HS-PID-1912						F																								
1543	4	1600	DV-16030	FO-16701 A			Orifice Plate water	ESBR-HS-PID-1912						F																								
1544	4	1600	DV-16030	FO-16701 B			Orifice Plate Air	ESBR-HS-PID-1912						F																								
1545	4	1600	DV-16030	PSV-16701			Pressure Safety Valve	ESBR-HS-PID-1912						F																								
1546	4	1600	DV-16030	PCV-16701			Regulating valve	ESBR-HS-PID-1912						F																								
1547	4	1600	DV-16030	HY-16701			The JB's are usually supplied by package vendor	Controller for solenoid	DOR	NIS	FGDS	FRR	d	F	1600JNS75	1	01-P-2.50-01-SWA-S-RD-N																					
1548	4	1600	DV-16030	MR-16030			The JB's are usually supplied by package vendor	Manual Release						d	F	1600JNS75	2	01-P-2.50-01-SWA-S-RD-N																				
1549	4	1600	DV-16030	AG-16701			Water Alarm GONG	ESBR-HS-PID-1912						F																								
1550	4	0000	DV-16030	HS-26701B			HAND SWITCH/CONTROL ROOM# 26030	Signal to Matrix Panel Central Control Room (CCR)	DIR	NIS	FGDS	CRR	MP		1000CND19	2	16-P-1.50-11-NAR-R-RD-N																					
1551	4	0000	DV-16030	XS-26701LB			HAND SWITCH LAMP /CONTROL ROOM# 26030	Signal from Matrix Panel Central Control Room (CCR)	DO	NIS	FGDS	CRR	MP		16-P-1.50-11-NAR-R-RD-N																							
1552	4	1600	DV-16030	HS-16701			Software switch	Handswitch Remote						OVS																								
1553	4	1600	DV-16030	HSR-16701			Software reset switch	Handswitch reset						OVS																								
1554	4	1600	DV-16030	PAH-16701	AUDIBLE ALARM (CONTINUOUS)		Pressure Alarm High (water)	ESBR-HS-PID-1912						OVS																								
1555	4	1600	DV-16030	PAL-16701	AUDIBLE ALARM (CONTINUOUS)		(RED FLASHING LIGHT)	ESBR-HS-PID-1912						OVS																								
1556	4	1600	DV-16030	UA-16701			Cumulative Alarm (Control Room)	ESBR-HS-PID-1912						OVS																								
1557	4	0000	DV-16030	PAL-16701BB			FUSIBLE LINK MELTED STATUS LAMP 16030	Signal to Matrix Panel Central Control Room (CCR)	DOR	NIS	FGDS	CRR	MP		1000CND29	1	16-P-1.50-11-NAR-R-RD-N																					
1558	4	0000	DV-16030	PAH-16701AB			DELUGE VALVE RELEASE STATUS LAMP 16030	Signal to Matrix Panel Central Control Room (CCR)	DOR	NIS	FGDS	CRR	MP		1000CND29	2	16-P-1.50-11-NAR-R-RD-N																					
1559	4	0003	DV-16030	PAL-16701BC			Signal connection through remote I/O	Signal to GFAP In Fire station	DO	NIS	FGDS	CRR	GFAP	N.A																								
1560	4	0003	DV-16030	PAH-16701AC			Signal connection through remote I/O	Signal to GFAP In Fire station	DO	NIS	FGDS	CRR	GFAP	N.A																								
1561	4	0001	DV-16030	PAL-16701BF			FUSIBLE LINK MELTED STATUS LAMP OF AREA 16030	Signal to Matrix Panel Central Control Room (CCR)	DOR	NIS	FGDS	FRR	MP		16-P-1.50-11-NAR-R-RD-N																							
1562	4	0001	DV-16030	PAH-16701AF			DELUGE VALVE RELEASE STATUS LAMP 16030	Signal to Matrix Panel Central Control Room (CCR)	DOR	NIS	FGDS	FRR	MP		16-P-1.50-11-NAR-R-RD-N																							
1563	4	2600	DV-26030	DV-26030	Typical A		Deluge Valve	ESBR-HS-PID-1912																														





















SADAF ESRB PLANT (BANDAR ASSALOUHEY)

FGS I/O List



Owner Doc No.: ESRB-CH-ST-0005

Contractor Doc. No.: N-275-000-CH-ST-0000-005

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Item No.	Rev.	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID/ F&G Detction Layout	I/O Type	Signal Type	Signal Conn.	Room	Ext.	Location	JB No.	TB No.	Cable Type	line no.	Typical Loop (1)	Power Source	Manual/Over-ride/Status/Alarm	Value Failure Alarm	Low Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Cable Routing No.	Data Sheet no.	Manufa. curter	Model no.	Remark					
2622	3	1400	FM-16	UV-14756A	Fire water Monitor Remote Control Elevated		ESBR-HS-PID-0016																											Package, Signals are not fratisled yet					
2623	3	1400	FM-16	UV-14756B	Fire water Monitor Remote Control Elevated		ESBR-HS-PID-0016																												Package, Signals are not fratisled yet				
2624	3	1400	FM-16	UV-14756C	Fire water Monitor Remote Control Elevated		ESBR-HS-PID-0016																												Package, Signals are not fratisled yet				
2625	4	1400	FM-16	HY-14756A	Solenoid related to valve actuator		ESBR-HS-PID-1912		DOR	NIS	FGDS	CRR	F	F	LCP04	11	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	OPEN														Signal connection is seen through a use of Solenoid				
2626	4	1400	FM-16	HY-14756B	Solenoid related to valve actuator		ESBR-HS-PID-1912		DOR	NIS	FGDS	CRR	F	F	LCP04	12	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	OPEN														Signal connection is seen through a use of Solenoid				
2627	4	1400	FM-16	HY-14756C	Solenoid related to valve actuator		ESBR-HS-PID-1912		DOR	NIS	FGDS	CRR	F	F	LCP04	13	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	OPEN														Signal connection is seen through a use of Solenoid				
2628	4	1400	FM-16	ZSH-14756A	Valve Close		ESBR-HS-PID-0016		DI	NIS	FGDS	CRR	F	F	LCP04	14	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Close														Replaced by 1400JNS99				
2629	4	1400	FM-16	ZSH-14756B	Valve Close		ESBR-HS-PID-0016		DI	NIS	FGDS	CRR	F	F	LCP04	15	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Close															Signal connection is seen through a use of Solenoid			
2630	4	1400	FM-16	ZSL-14756B	Valve Close		ESBR-HS-PID-0016		DI	NIS	FGDS	CRR	F	F	LCP04	16	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Close															Replaced by 1400JNS99			
2631	4	1400	FM-16	ZSH-14756B	Valve open		ESBR-HS-PID-0016		DI	NIS	FGDS	CRR	F	F	LCP04	17	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Close																Signal connection is seen through a use of Solenoid		
2632	4	1400	FM-16	ZSL-14756C	Valve Close		ESBR-HS-PID-0016		DI	NIS	FGDS	CRR	F	F	LCP04	18	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Close																Signal connection is seen through a use of Solenoid		
2633	4	1400	FM-16	ZSH-14756C	Valve open		ESBR-HS-PID-0016		DI	NIS	FGDS	CRR	F	F	LCP04	19	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Close																	Signal connection is seen through a use of Solenoid	
2634	3	0000	FM-16	ZAH-14756AB	Valve open alarm at CCR	Valve open alarm at CCR FM-16	ESBR-HS-CAF-0002		DOR	NIS	FGDS	CRR	F	MP	1000CND27	7	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	CLOSE																		
2635	3	0000	FM-16	ZAH-14756BB	Valve open alarm at CCR	Valve open alarm at CCR FM-16	ESBR-HS-CAF-0002		DOR	NIS	FGDS	CRR	F	MP	1000CND27	8	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	CLOSE																		
2636	3	0000	FM-16	ZAH-14756CB	Valve open alarm at CCR	Valve open alarm at CCR FM-16	ESBR-HS-CAF-0002		DOR	NIS	FGDS	CRR	F	MP	1000CND27	9	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	CLOSE																		
2637	3	0003	FM-16	ZAH-14756AC	Valve open alarm at GFAP	Valve open alarm at GFAP FM-16	ESBR-HS-CAF-0002		DO	NIS	FGDS	CRR	F	GFAP	N.A						SYS24Vdc	CLOSE																	
2638	3	0003	FM-16	ZAH-14756BC	Valve open alarm at GFAP	Valve open alarm at GFAP FM-16	ESBR-HS-CAF-0002		DO	NIS	FGDS	CRR	F	GFAP	N.A						SYS24Vdc	CLOSE																	
2639	3	0003	FM-16	ZAH-14756CC	Valve open alarm at GFAP	Valve open alarm at GFAP FM-16	ESBR-HS-CAF-0002		DO	NIS	FGDS	CRR	F	GFAP	N.A						SYS24Vdc	CLOSE																	
2640	3	0000	FM-16	HS-14756AB	Remote open from Matrix Panel	Hand switch Control room FM16	ESBR-HS-CAF-0002		DIR	NIS	FGDS	CRR	MP	MP	1000CND27	10	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	Open																		
2641	3	0000	FM-16	HS-14756AB	Remote open from Matrix Panel	Hand switch Control room FM16	ESBR-HS-CAF-0002		DIR	NIS	FGDS	CRR	MP	MP	1000CND27	11	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	Open																		
2642	3	0000	FM-16	HS-14756BB	Remote open from Matrix Panel	Hand switch Control room FM16	ESBR-HS-CAF-0002		DIR	NIS	FGDS	CRR	MP	MP	1000CND27	12	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	Open																		
2643	3	0000	FM-16	HS-14756BB	Remote open from Matrix Panel	Hand switch Control room FM16	ESBR-HS-CAF-0002		DIR	NIS	FGDS	CRR	MP	MP	1000CND27	13	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	Open																		
2644	3	0000	FM-16	HS-14756CB	Remote open from Matrix Panel	Hand switch Control room FM16	ESBR-HS-CAF-0002		DIR	NIS	FGDS	CRR	MP	MP	1000CND27	14	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	Open																		
2645	4	0000	FM-16	HS-14756CB	Remote open from Matrix Panel	Hand switch Control room FM16	ESBR-HS-CAF-0002		DO	NIS	FGDS	CRR	MP	MP	LCP04	20	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Open																		
2646	4	1400	FM-16	HS-14756A	Remote open	Hand switch connected in series with solenoid	ESBR-HS-CAF-0002		DO	NIS	FGDS	CRR	MP	MP	LCP04	21	16-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Open																		Installed in safe area, connection in series with HY
2647	4	1400	FM-16	HS-14756B	Remote open	Hand switch connected in series with solenoid	ESBR-HS-CAF-0002		NIS											SYS24Vdc	Open																Installed in safe area, connection in series with HY		
2648	4	1400	FM-16	HS-14756C	Remote open	Hand switch connected in series with solenoid	ESBR-HS-CAF-0002		NIS											SYS24Vdc	Open																Installed in safe area, connection in series with HY		
2649	3	1400	FM-16	ZAH-14756A	Alarm valve Open		ESBR-HS-PID-1912													OWS																			
2650	3	1400	FM-16	ZAL-14756A	Alarm valve Close		ESBR-HS-PID-1912													OWS																			
2651	3	1400	FM-16	ZAH-14756B	Alarm valve Open		ESBR-HS-PID-1912													OWS																			
2652	3	1400	FM-16	ZAL-14756B	Alarm valve Close		ESBR-HS-PID-1912													OWS																			
2653	3	1400	FM-16	ZAH-14756C	Alarm valve Open		ESBR-HS-PID-1912													OWS																			
2654	3	1400	FM-16	ZAL-14756C	Alarm valve Close		ESBR-HS-PID-1912													OWS																			
2655	2	2300	FM-05	UV-23751	Fire water Monitor Remote Control		ESBR-HS-PID-0016																																
2656	4	2300	FM-05	ZSL-23751	Valve Close		ESBR-HS-PID-0016		DOR	NIS	FGDS	CRR	F	F	LCP01	5	08-P-2.50-11-SWA-S-RD-N			SYS24Vdc	OPEN																		
2657	4	2300	FM-05	ZSL-23751	Valve Close		ESBR-HS-PID-0016		DI	NIS	FGDS	CRR	F	F	LCP01	6	08-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Close																		
2658	2	2300	FM-05	ZSH-23751	Valve open		ESBR-HS-PID-0016		DI	NIS	FGDS	CRR	F	F	LCP01	7	08-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Open																		
2659	3	0000	FM-05	ZAH-23751B	Valve open alarm at CCR	Valve open alarm at CCR FM-05	ESBR-HS-CAF-0002		DOR	NIS	FGDS	CRR	F	MP	1000CND25	7	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	CLOSE																		
2660	2	0003	FM-05	ZAH-23751C	Valve open alarm at GFAP	Valve open alarm at GFAP FM-05	ESBR-HS-CAF-0002		DO	NIS	FGDS	CRR	MP	MP	N.A					SYS24Vdc	CLOSE																		
2661	3	0000	FM-05	ZS-23751B	Remote open from Matrix Panel	Hand switch Control room FM05	ESBR-HS-CAF-0002		DIR	NIS	FGDS	CRR	MP	MP	1000CND25	8	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	Open																		
2662	4	0000	FM-05	ZS-23751B	Remote open from Matrix Panel	Hand switch Control room FM05	ESBR-HS-CAF-0002		DO	NIS	FGDS	CRR	MP	MP	1000CND25	9	16-P-1.50-11-NAR-R-RD-N			SYS24Vdc	Open																		
2663	4	2300	FM-05	HS-23751B	Remote open	Hand switch connected in series with solenoid	ESBR-HS-CAF-0002		DO	NIS	FGDS	CRR	MP	MP	LCP01	8	08-P-2.50-11-SWA-S-RD-N			SYS24Vdc	Open																		











SADAF ESRB PLANT (BANDAR ASSALOUYEH)

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Item No.	Rev	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID F&G Detection Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Elev	Location	Junction Box		Cable Type	line no.	Typical Loop	Power Source	Input/Output Connect	Input/Output Base Address	Value Failure Action	Low Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Control Action	Cable Routing No.	Data Sheet no.	Master card	Model no.	Remark					
															JB No.	TB No.																									
															FBG	ES-1000																									
3119	4	1000	UL-1000	UL-1000B	Signal from FGS		Activation alarm from F&G	DI	NIS	LFAP	CRR						16-P-150-11-SWA-S-RD-N		SY24Vdc	OPEN																					
3120	4	1000	UL-1000	UL-1000C	Signal from FGS		Activation alarm from F&G	DI	NIS	LFAP	CRR						16-P-150-11-SWA-S-RD-N		SY24Vdc	OPEN																					
3121	2	1000	ES-1000	ES-1000	Location of power supply												01-P-150-01-NAR-S-RD-N		SY24Vdc	Close																		Should be locked as and revised			
3122	2	1000	ES-1000	ES-1000	Location of Battery-Headline												01-P-150-01-NAR-S-RD-N		SY24Vdc	Close																		Should be locked as and revised			
3123	2	1000	SD-1007	SD-1007	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1007			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3124	2	1000	SD-1007	SD-1008	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1008			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3125	2	1000	SD-1007	SD-1040	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1038			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3126	2	1000	SD-1007	SD-1036	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1037			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3127	2	1000	SD-1007	SD-1038	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1038			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3128	2	1000	SD-1007	SD-1042	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1039			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3129	2	1000	SD-1007	SD-1013	Engineering Room	Engineering Room	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1013			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3130	2	1000	SD-1007	SD-1046	Engineering Room	Engineering Room	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1014			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3131	2	1000	SD-1007	SD-1017	PLANT MANAGER ROOM	PLANT MANAGER ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1017			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3132	2	1000	SD-1007	SD-1019	ARCHIVE ROOM	ARCHIVE ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1019			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3133	2	1000	SD-1007	SD-1020	LABORATORY MANAGER ROOM	LABORATORY MANAGER ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1019			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3134	2	1000	SD-1007	SD-1021	Confiance Room	LABORATORY MANAGER ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1020			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%															F&G device loops are subject to change due to area classification of areas with in the compound, that cause the use of alternative devices with regard to area classification	
3135	2	1000	SD-1007	SD-1022	Staff Room	Confiance Room	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1021			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3136	2	1000	SD-1007	SD-1023	Documentation Room	Staff Room	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1022			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3137	2	1000	SD-1007	SD-1024	Corridor	Documentation Room	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1023			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3138	2	1000	SD-1007	SD-1025	Corridor	Corridor	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1024			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3139	2	1000	SD-1007	SD-1018	PLANT MANAGER ROOM	Corridor	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1025			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3140	2	1000	SD-1007	SD-1047	Engineering Room	Engineering Room	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1047			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3141	2	1000	SD-1007	SD-1014	Engineering Room	Engineering Room	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1046			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3142	2	1000	SD-1007	SD-1039	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1043			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3143	2	1000	SD-1007	SD-1043	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1042			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3144	2	1000	SD-1007	SD-1041	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1041			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3145	2	1000	SD-1007	SD-1037	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1040			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3146	2	1000	SD-1007	SD-1009	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1010			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3147	2	1000	SD-1007	SD-1010	CONTROL ROOM	CONTROL ROOM	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	NIS	LFAP	SF	CCR	SD-1008			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3148	4	1000	HRDR-1001	SD-1029	GC ROOM	IS Loop	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	IS		I	CCR	SD-1029			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3149	4	1000	HRDR-1001	SD-1028	SMALL STORAGE ROOM	IS Loop	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	IS		I	CCR	SD-1028			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3150	4	1000	HRDR-1001	SD-1027	CHEMICAL TEST LAB	IS Loop	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	IS		I	CCR	SD-1027			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3151	4	1000	HRDR-1001	HRDR-1003	CHEMICAL TEST LAB	IS Loop	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	IS		I	CCR	HRDR-1003			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3152	4	1000	HRDR-1001	SD-1049	CHEMICAL TEST LAB	IS Loop	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	IS		I	CCR	SD-1049			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3153	4	1000	HRDR-1001	SD-1026	PHYSICAL TEST LAB	IS Loop	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	IS		I	CCR	SD-1026			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0	100	%																
3154	4	1000	HRDR-1001	SD-1016	Chemical storage	IS Loop	Combined Heat/Smoke Detector Control Room	ESBR-HS-LYT-0009	AL	IS		I	CCR	SD-1016			01-P-150-01-NAR-S-RD-N		ESBR-CI-DGR-00104448	SY24Vdc			0</																		









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Table with columns: Item No., Rev, Unit, Loop Number, TAG-Number, Service\_1, Service\_2, Description, PID/FGO Detection Layout, I/O Type, Signal Type, Signal Conn., Rack Room, Ext, Location, Junction Box (JB No., TB No.), Cable Type, Line no., Typical Loop, Power Source, Input/Output Connect, Value Failure Action, Low Range, High Range, Eng Units, High High Trip, High Alarm, Low Alarm, Low Low Trip, Control Action, Cable Routing No., Data Sheet no., Material center, Model no., Remark.

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Item No.	Rev	Unit	Loop Number	TAG-Number	Service_1	Service_2	Description	PID F&G Detection Layout	I/O Type	Signal Type	Signal Conn.	Back Room	Elev	Location	Junction Box		Cable Type	Line no.	Typical Length	Power Source	Input/Output Connect Assigned Base Address	Value Failure Action	Low Range	High Range	Eng Units	High High Trip	High Alarm	Low Alarm	Low Low Trip	Control Action	Cable Routing No.	Data Sheet no.	Material center	Model no.	Remark				
															JB No.	TB No.																							
3638	2	5000	SD-5007	KA-5007			Fault	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5007			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3639	1	5000	SD-5008	SDOPT-5008			Open Path Type Smoke Detector Transmitter	ESBR-HS-LYT-0022						WH																									
3640	2	5000	SD-5008	SDOPR-5008			Open Path Type Smoke Detector Receiver	ESBR-HS-LYT-0022	DIR	NIS	LFAP	SF	WH	SD-5008			01-T-1.50-01-NAR-S-RD-N		SYS24Vdc			0	100	%															3 Wire, 0-20 mA
3641	1	5000	SD-5008	SAH-5008	(Red)FLASHING LIGHT		AUDIBLE ALARM (CONTINUOUS)	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5008			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3642	2	5000	SD-5008	KA-5008			Fault	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5008			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3643	1	5000	SD-5009	SDOPT-5009			Open Path Type Smoke Detector Transmitter	ESBR-HS-LYT-0022						WH																									
3644	2	5000	SD-5009	SDOPR-5009			Open Path Type Smoke Detector Receiver	ESBR-HS-LYT-0022	DIR	NIS	LFAP	SF	WH	SD-5009			01-T-1.50-01-NAR-S-RD-N		SYS24Vdc			0	100	%														3 Wire, 0-20 mA	
3645	1	5000	SD-5009	SAH-5009	(Red)FLASHING LIGHT		AUDIBLE ALARM (CONTINUOUS)	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5009			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3646	2	5000	SD-5009	KA-5009			Fault	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5009			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3647	1	5000	SD-5010	SDOPT-5010			Open Path Type Smoke Detector Transmitter	ESBR-HS-LYT-0022						WH																									
3648	2	5000	SD-5010	SDOPR-5010			Open Path Type Smoke Detector Receiver	ESBR-HS-LYT-0022	DIR	NIS	LFAP	SF	WH	SD-5010			01-T-1.50-01-NAR-S-RD-N		SYS24Vdc			0	100	%														3 Wire, 0-20 mA	
3649	1	5000	SD-5010	SAH-5010	(Red)FLASHING LIGHT		AUDIBLE ALARM (CONTINUOUS)	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5010			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3650	2	5000	SD-5010	KA-5010			Fault	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5010			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3651	1	5000	SD-5011	SDOPT-5011			Open Path Type Smoke Detector Transmitter	ESBR-HS-LYT-0022						WH																									
3652	2	5000	SD-5011	SDOPR-5011			Open Path Type Smoke Detector Receiver	ESBR-HS-LYT-0022	DIR	NIS	LFAP	SF	WH	SD-5011			01-T-1.50-01-NAR-S-RD-N		SYS24Vdc			0	100	%														3 Wire, 0-20 mA	
3653	1	5000	SD-5011	SAH-5011	(Red)FLASHING LIGHT		AUDIBLE ALARM (CONTINUOUS)	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5011			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3654	2	5000	SD-5011	KA-5011			Fault	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5011			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3655	1	5000	SD-5012	SDOPT-5012			Open Path Type Smoke Detector Transmitter	ESBR-HS-LYT-0022						WH																									
3656	2	5000	SD-5012	SDOPR-5012			Open Path Type Smoke Detector Receiver	ESBR-HS-LYT-0022	DIR	NIS	LFAP	SF	WH	SD-5012			01-T-1.50-01-NAR-S-RD-N		SYS24Vdc			0	100	%														3 Wire, 0-20 mA	
3657	1	5000	SD-5012	SAH-5012	(Red)FLASHING LIGHT		AUDIBLE ALARM (CONTINUOUS)	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5012			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3658	2	5000	SD-5012	KA-5012			Fault	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5012			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3659	1	5000	SD-5013	SDOPT-5013			Open Path Type Smoke Detector Transmitter	ESBR-HS-LYT-0022						WH																									
3660	2	5000	SD-5013	SDOPR-5013			Open Path Type Smoke Detector Receiver	ESBR-HS-LYT-0022	DIR	NIS	LFAP	SF	WH	SD-5013			01-T-1.50-01-NAR-S-RD-N		SYS24Vdc			0	100	%														3 Wire, 0-20 mA	
3661	1	5000	SD-5013	SAH-5013	(Red)FLASHING LIGHT		AUDIBLE ALARM (CONTINUOUS)	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5013			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3662	2	5000	SD-5013	KA-5013			Fault	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5013			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3663	1	5000	SD-5014	SDOPT-5014			Open Path Type Smoke Detector Transmitter	ESBR-HS-LYT-0022						WH																									
3664	2	5000	SD-5014	SDOPR-5014			Open Path Type Smoke Detector Receiver	ESBR-HS-LYT-0022	DIR	NIS	LFAP	SF	WH	SD-5014			01-T-1.50-01-NAR-S-RD-N		SYS24Vdc			0	100	%														3 Wire, 0-20 mA	
3665	1	5000	SD-5014	SAH-5014	(Red)FLASHING LIGHT		AUDIBLE ALARM (CONTINUOUS)	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5014			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3666	2	5000	SD-5014	KA-5014			Fault	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5014			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3667	1	5000	SD-5015	SDOPT-5015			Open Path Type Smoke Detector Transmitter	ESBR-HS-LYT-0022						WH																									
3668	2	5000	SD-5015	SDOPR-5015			Open Path Type Smoke Detector Receiver	ESBR-HS-LYT-0022	DIR	NIS	LFAP	SF	WH	SD-5015			01-T-1.50-01-NAR-S-RD-N		SYS24Vdc			0	100	%														3 Wire, 0-20 mA	
3669	1	5000	SD-5015	SAH-5015	(Red)FLASHING LIGHT		AUDIBLE ALARM (CONTINUOUS)	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5015			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3670	2	5000	SD-5015	KA-5015			Fault	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5015			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3671	1	5000	SD-5016	SDOPT-5016			Open Path Type Smoke Detector Transmitter	ESBR-HS-LYT-0022						WH																									
3672	2	5000	SD-5016	SDOPR-5016			Open Path Type Smoke Detector Receiver	ESBR-HS-LYT-0022	DIR	NIS	LFAP	SF	WH	SD-5016			01-T-1.50-01-NAR-S-RD-N		SYS24Vdc			0	100	%														3 Wire, 0-20 mA	
3673	1	5000	SD-5016	SAH-5016	(Red)FLASHING LIGHT		AUDIBLE ALARM (CONTINUOUS)	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5016			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3674	2	5000	SD-5016	KA-5016			Fault	ESBR-HS-CAF-0008	DI	NIS	LFAP	d	WH	KA-5016			01-P-1.50-01-NAR-S-RD-N		SYS24Vdc	OPEN																			
3675	2	5000	IRGD-5001	IRGDP-5001	AIR LOCK		Point Type Gas Detector	ESBR-HS-LYT-0022	DIR	NIS	LFAP	d	WH	IRGD-5001			01-T-1.50-01-NAR-S-RD-N		ESBR-CIDGR-001038-1	SYS24Vdc			0	100	%	NLFL												3 Wire, 0-20 mA	
3676	1	5000	IRGD-5001	IRGAH-5001	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG SHORT)	IRGD HIGH LEVEL 25% OF LFL						WH												NLFL	25												
3677	1	5000	IRGD-5001	IRGAH5001	(GREEN FLASHING LIGHT)		AUDIBLE ALARM (INTERMITTENT-LONG SHORT)	IRGD HIGH HIGH LEVEL 50% OF LFL						WH												NLFL	25												
3678	2	5000	IRGD-5001	KA-5001																																			



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FGS I/O List

Owner Doc No.: ESRB-CLST-0005 Contractor Doc. No.: N-275-000-CLST-0000-005

Table with columns: Item No., Rev, Unit, Loop Number, TAG-Number, Service, Description, PID F&G Detection Layout, I/O Type, Signal Type, Signal Conn., Rack Room, Ene, Location, Junction Box (JB No., TB No.), Cable Type, Line no., Typical Loop, Power Source, Input/Output Connect, Assured Base, Value Failure Action, Low Range, High Range, Eng Units, High High Trip, High Alarm, Low Alarm, Control Action, Cable Routing No., Data Sheet no., Material center, Model no., Remark.



SADAF ESRB PLANT (BANDAR ASSALOUYEH)



FGS I/O List

Owner Doc No.: ESRB-CI-LST-0005 Contractor Doc. No.: N-275-000-CI-LST-0000-005

Table with columns: Rev, Unit, Loop Number, TAG-Number, Service\_1, Service\_2, Description, PID F&G Detection Layout, I/O Type, Signal Type, Signal Conn., Rack Room, Ene, Location, Junction Box (JB No., TB No.), Cable Type, Line no., Typical Loop, Power Source, Input/Output Connect, Assured Base Address, Value Failure Action, Low Range, High Range, Eng Units, High High Trip, High Alarm, Low Alarm, Low Low Trip, Control Action, Cable Routing No., Data Sheet no., Meter no., Model no., Remark.





