VENDOR: Farnikan Engineered Solutions

STYRENE PARK OFFSITE

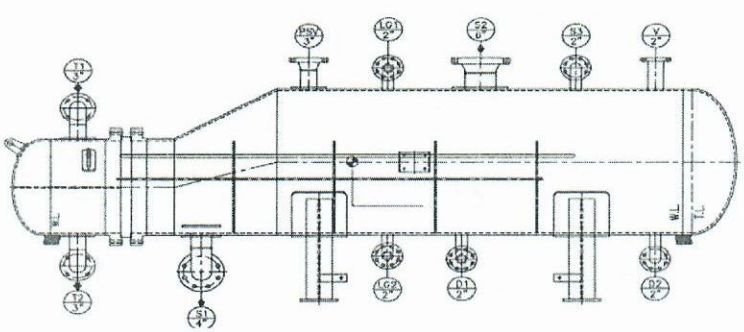
WELDING INSPECTION REPORT

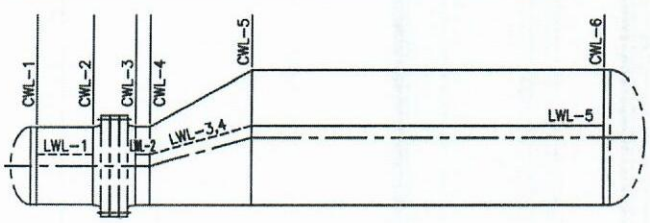
CLIENT: پتروشیمی توسعه پارک صنعتی گوهر افق

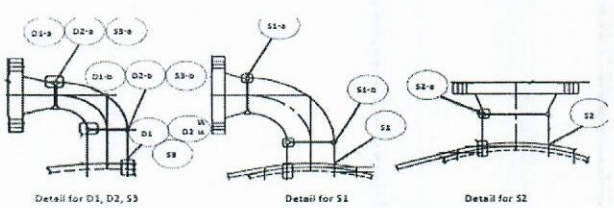
OWNER REQ. NO.:	PROJECT NO.:	TAG NO.:	REPORT NO.:	PAGE:	DATE:
E1027-FPA-VD-QC-NDT-003	HX127	RU0001A-E02	FPA-HX127-RU0001A-E02-VT-001	1 OF 2	4/5/2025

NO.	Joint No.	WPS NO.:	Material	WELDER STAMP			Result		Remark
			Type 1 / Type 2	ROOT	FILL	CAP	Acc.	Rej	
1	LWL-1	HX-127-WPS-001	SA-516 Gr.70N SA-516 Gr.70N	W-115	W-116	W-115	✓		
2	LWL-2~LWL-4	HX-127-WPS-003	SA-516 Gr.70N SA-516 Gr.70N	W-115	W-116	W-115	✓		
3	LWL-5	HX-127-WPS-004/005	SA-516 Gr.70N SA-516 Gr.70N	W-115	W-116	W-115	✓		
4	CWL-1	HX-127-WPS-004/005	SA-516 Gr.70N SA-516 Gr.70N	W-115	W-116	W-115	✓		
5	CWL-2	HX-127-WPS-002	SA-516 Gr.70N SA-266-2N	W-115	W-116	W-116	✓		
6	CWL-3	HX-127-WPS-002	SA-516 Gr.70N SA-266-2N	W-115	W-116	W-116	✓		
7	CWL-4	HX-127-WPS-002	SA-516 Gr.70N SA-516 Gr.70N	W-115	W-116	W-116	✓		
8	CWL-5,CWL-6	HX-127-WPS-002	SA-516 Gr.70N SA-516 Gr.70N	W-115	W-103	W-116	✓		
9	T1,T2	HX-127-WPS-001	SA-106 Gr.B SA-516 Gr.70N	W-115	W-103	W-116	✓		
10	S1,S2,PSV	HX-127-WPS-001	SA-333 Gr.6 SA-516 Gr.70N	W-115	W-103	W-116	✓		
11	LG1, LG2,D1,D2,S3	HX-127-WPS-001	SA-333 Gr.6 SA-516 Gr.70N	W-115	W-103	W-116	✓		
12	V	HX-127-WPS-001	SA-350 LF2 SA-516 Gr.70N	W-115	W-103	W-116	✓		
13	T1-a,T1-b,T2-a,T2-b	HX-127-WPS-001	SA-106 Gr.B SA 234 WPB6/SA-105A	W-115	W-115	W-116	✓		
14	S1-a,S1-b, S2-a,PSV-a,LG1-a	HX-127-WPS-001	SA-333 Gr.6 SA-420 WPL6/SA350LF2	W-115	W-115	W-116	✓		
15	LG2-a,S3-a	HX-127-WPS-03	SA-333 Gr.6 SA-420 WPL6/SA350LF2	W-115	W-115	W-116	✓		

Sketch.







VENDOR	TPI	OWNER
Name:	Name:	Name:
Date:	Date:	Date:
Sing.:	Sing.:	Sing.:

FARNIKAN PARS AVIN Quality Control Dept.

Sajadian

VENDOR: Farnikan Engineered Solutions

STYRENE PARK OFFSITE

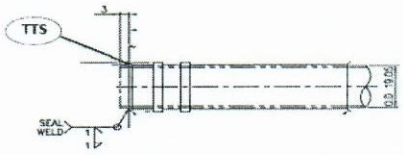
WELDING INSPECTION REPORT

CLIENT: پتروشیمی توسعه پارک صنعتی گوهر افق

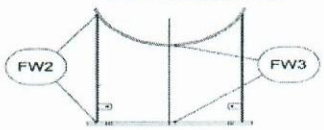
OWNER REQ. NO.:	PROJECT NO.:	TAG NO.:	REPORT NO.:	PAGE:	DATE:
E1027-FPA-VD-QC-NDT-003	HX127	RU0001A-E02	FPA-HX127-RU0001A-E02-VT-001	2 OF 2	4/5/2025

NO.	Joint No.	WPS NO.:	Material	WELDER STAMP			Result		Remark
			Type 1 / Type 2	ROOT	FILL	CAP	Acc.	Rej	
15	LG1-b, LG1-c LG2-b, LG2-c	HX-127-WPS-001	SA-420-WPL6 SA-333 Gr.6	W-103	W-103	W-115	✓		
16	TTS	HX-127-WPS-003	SA-334-6 SA-350-LF2	W-101	W-101	W-101	✓		
17	FW1	HX-127-WPS-004/005	SA-516 Gr.70 SA-516 Gr.70	W-103	W-103	W-115	✓		
18	FW2,FW3	HX-127-WPS-004/005	SA-516 Gr.70 SA 283 Gr.c	W-103	W-103	W-115	✓		
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									

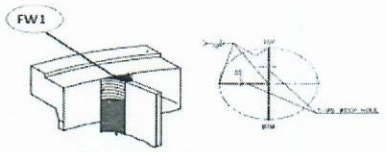
Sketch.



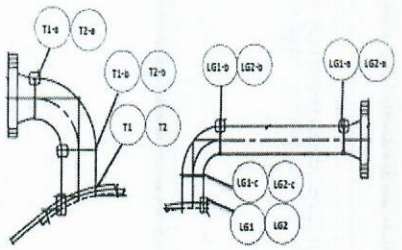
TUBE TO TUBESHEET JOINT



SADDLE DETAIL



PARTITION PLATE DETAIL

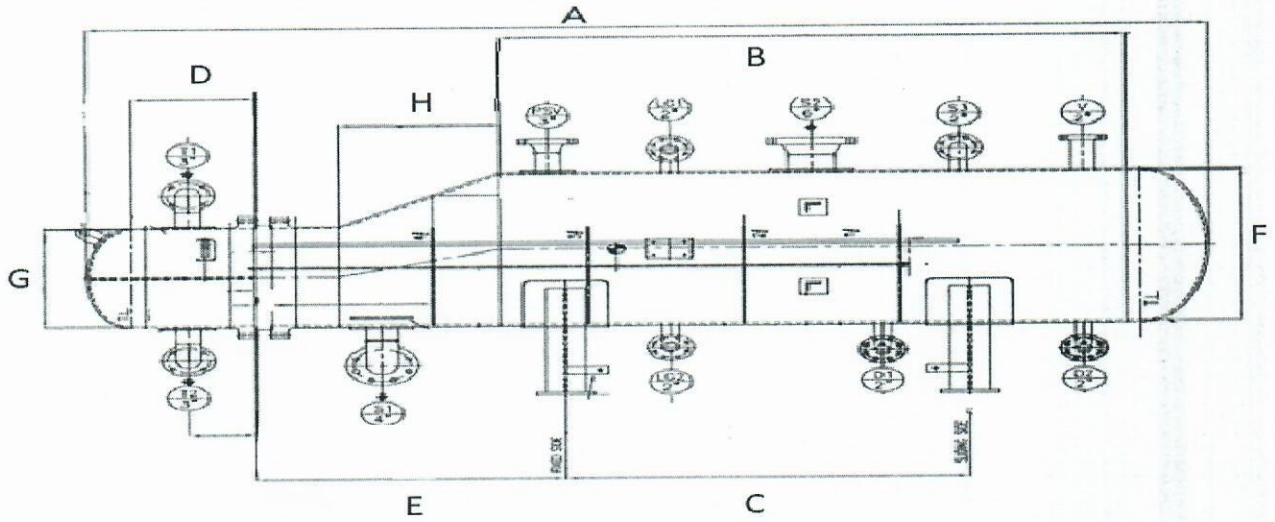


Detail for T1, T2 — Detail for LG1, LG2

VENDOR	TPI	OWNER
Name:	Name:	Name:
Date:	Date: Sajadian	Date:
Sing.: FARNIKAN PARS AVIN Quality Control Dept.	Sing.:	Sing.:

Vendor	STYRENE PARK OFFSITE	CLIENT	Equipment No.:
Farnikan Engineered Solutions		پتروشیمی توسعه پارک صنعتی گوهر افق	RU0001A-E-02
			REPORT NO:
DWG. NO : EI027-HSE-VD-ME-DWG-008	DIMENSIONAL CONTROL SHEET		FPA-HX127-RU0001A-E02-DIM-001
Reference Code: ASME Sec VIII DIV 1			4/20/25
			SHEET 1 OF 1

SCHEMATIC DWG.



POS NO.	DIMENSION			ORIENTATION	RESUALT	POS NO.	DIMENSION			ORIENTATION	RESUALT
	DWG(mm)	ACTUAL(mm)	DEVIATION (mm)				DWG(mm)	ACTUAL(mm)	DEVIATION (mm)		
NOZZLE - S1	ELV.440, PRO.710	ELV.440, PRO.711	ELV.+1, PRO.+1	180°	Acc	A	3947	3945	-2	-	Acc
NOZZLE - S2	ELV.1955, PRO.671	ELV.1953, PRO.672	ELV.-2, PRO.+1	0°	Acc	B	2200	2198	-2	-	Acc
NOZZLE -T1	ELV.240, PRO.510	ELV.241, PRO.511	ELV.+1, PRO.+1	0°	Acc	C	1420	1421	1	-	Acc
NOZZLE -T2	ELV.240, PRO.510	ELV.240, PRO.512	ELV.0, PRO.+2	180°	Acc	D	440	442	2	-	Acc
NOZZLE - D1	ELV.705, PRO.630	ELV.702, PRO.631	ELV.+2, PRO.+1	180°	Acc	E	1085	1084	+1	-	Acc
NOZZLE - D2	ELV.200, PRO.630	ELV.200, PRO.631	ELV.+1, PRO.+2	180°	Acc	F	925	926	+1	-	Acc
NOZZLE - LG1	ELV.1455, PRO.610	ELV.1455, PRO.610	ELV.-1, PRO.0	0°	Acc	G	600	602	+2	-	Acc
NOZZLE - LG2	ELV.1455, PRO.610	ELV.1455, PRO.610	ELV.-1, PRO.0	180°	Acc	H	565	565	0	-	Acc
NOZZLE - PSV	ELV.1025, PRO.675	ELV.1027, PRO.676	ELV.+2, PRO.+1	0°	Acc						
NOZZLE - V	ELV.2905, PRO.675	ELV.2907, PRO.676	ELV.+2, PRO.+1	0°	Acc						
NOZZLE -S3	ELV.2470, PRO.630	ELV.2471, PRO.632	ELV.+1, PRO.+2	0°	Acc						

NOTE:

FPA QC.	TPI	OWNER
NAME:	NAME	NAME
SIGN	SIGN	SIGN
DATE	DATE	DATE

FARNIKAN PARS AVIN Quality Control Dept.

RADIOGRAPHY EXAMINATION REPORT

Project: Item No.: RU0001A-E2
Procedure: E1027-FPA-VD-QC-NDT-003
Code/Standard: ASME Sec VIII

Technique : ☑ SWSI ☑ DWSI ☐ DWDI ☑ Pano
Film Type : ☑ AA400 ☐ AGFA D4 ☑ MX125 ☐ R 4
IQI: ☐ 13~19 ☑ 10~16 ☑ 6~12 ☐ 1~7
Density: ☑ 2~2.5 ☑ 2.5~3 ☑ 3~3.5 ☐ 3.5~4

Source Type: γ
Source Size :
Source Strength:

Report No: FPA-01
Sensitivity: 2% Max
Date: 1.2.1404
Page: 1 of 2
UG: 0.5 Max

Row	JOINT.NO	RT NO	SFD	THK(mm)	Welder Stamp	Req No	Weld Length (mm)	Film Length (cm)	Result 1				Result 2				Result 3				Defects Type & Location(cm)
									Acc	Rep	RS	RX	Acc	Rep	RS	RT	Acc	Rep	RS	RT	
1	LWL-1	03		10	115-112	001	300	1(10*35)	√												
2	LWL-2	12		12	115-112	001	150	1(10*25)	√												
3	LWL-3	13		12	115-112	001	600	2(10*40)	√												
4	LWL-4	14		12	115-112	001	2200	61(0*40)	√												
5	CWL-1	01		10	115-112	001	1960	610*35)1(10*25)	√												
6	CWL-2	02		10	115-112	001	1960	6(10*35)3(10*25)		√	√		√								(5~6)SL(89~90)PO&SL(140~170)RS
7	CWL-3	08		12	115-112	001	1960	610*40)	√												
8	CWL-4	09		12	115-112	001	1960	6(10*40)4(10*25)		√				√			√				(28~32)PO&CRACK(192~195)PO
9	CWL-5	10		12	115-112	001	2980	8(10*40)2(10*25)			√		√								(18~20)PO
10	CWL-6	11		12	115-112	001	2980	8(10*40)5(10*25)		√				√			√				(97~98)SL(245~247)PO
11	T1-a	04		8	115-112	001	3"	3(10*15)	√												
12	T1-b	05		8	115-112	001	3"	3(10*15)	√												
13	T2-a	06		8	115-112	001	3"	3(10*15)	√												
14	T2-b	07		8	115-112	001	3"	3(10*15)	√												
15	S1-a	15		11	115-112	001	4"	3(10*17)			√				√		√				FULL RS
16	S1-b	16		11	115-112	001	4"	3(10*17)	√												
17	PSV-a	17		11	115-112	001	3"	3(10*15)	√												
18	LG1-a	18		9	115-112	001	2"	3(10*15)	√												

Legend

LC: Longitudinal Crack	**LOF**: Lack of Fusion	**CP**: Cluster Porosity	**PP**: Pipe Porosity	**SI**: Slag Inclusion	**RC**: Root Concavity	**Acc**:Accept
TC: Transverse Crack	**LOP**: Lack of Penetration	**PO**: Spherical Porosity	**CV**:Cavities	**TI**: Tungsten Inclusion	**EP**: Excess Penetration	**RS**:Reshoot
SC: Star Crack	**RU**: Root Undercut	**RPO**: Random Porosity	**WH**: Worm Hole	**OI**: Oxid Inclusion	**UF**: Under Fill	**Rep**:Repair
CC: Crater Crack	**CU**: Cap Undercut	**LP**: Linear Porosity	**PH**: Pin Hole	**BT**: Burn Through	**HB**: Hollow Bead	**RX**:Retake

INTERPRETER	FPA	OWNER	TPI
DATE:	DATE:	DATE:	DATE:
NAME: M.H.Serpoosh ASNT Level II VT PT MT UT RT	NAME:	NAME:	NAME:
SIGN:	SIGN:	SIGN:	SIGN: Review

ABT 360 KT/Y PP PLANT

RADIOGRAPHY EXAMINATION REPORT

Project: Item No.:RU0001B-E2
Procedure: E1027-FPA-VD-QC-NDT-003
Code/Standard: ASME Sec VIII

Technique :	☑ SWSI	☑ DWSI	☐ DWDI	☐ Pano
Film Type :	☑ AA400	☑ AGFA D4	☑ MX125	☑ R 4
IQI:	☐ 13~19	☑ 10~16	☐ 6~12	☐ 1~7
Density:	☑ 2~2.5	☑ 2.5~3	☑ 3~3.5	☐ 3.5~4

Source Type: γ ☑ ☑
Source Size :
Source Strength:

Report No:FPA-02
Sensitivity:2% Max
Date: 1.2.1404
Page: 2 of 2
UG:0.5 Max

Row	JOINT.NO	RT NO	SFD	THK(mm)	Welder Stamp	Req No	Weld Length (mm)	Film Length (cm)	Result 1				Result 2				Result 3				Defects Type & Location(cm)
									Acc	Rep	RS	RX	Acc	Rep	RS	RT	Acc	Rep	RS	RT	
19	LG1-b	19		9	115-112	001	2"	3(10*15)			√				√		√				
20	LG1-c	20		9	115-112	001	2"	3(10*15)	√												
21	LG2-a	21		9	115-112	001	2"	3(10*15)	√												
22	LG2-b	22		9	115-112	001	2"	3(10*15)	√												
23	LG2-c	23		9	115-112	001	2"	3(10*15)			√		√								SHOOT A&B RS
24	S2-a	24		11	115-112	001	6"	3(10*25)	√												
25	D1-a	25		9	115-112	001	2"	3(10*15)	√												
26	D1-b	26		9	115-112	001	2"	3(10*15)	√												
27	D2-a	27		9	115-112	001	2"	3(10*15)	√												
28	D2-b	28		9	115-112	001	2"	3(10*15)	√												
29	S3-a	29		9	115-112	001	2"	3(10*15)	√												
30	S3-b	30		9	115-112	001	2"	3(10*15)			√		√								SHOOT A RS

Legend

LC: Longitudinal Crack	**LOF**: Lack of Fusion	**CP**: Cluster Porosity	**PP**: Pipe Porosity	**SI**: Slag Inclusion	**RC**: Root Concavity	**Acc**:Accept
TC: Transverse Crack	**LOP**: Lack of Penetration	**PO**: Spherical Porosity	**CV**:Cavities	**TI**: Tungsten Inclusion	**EP**: Excess Penetration	**RS**:Reshoot
SC: Star Crack	**RU**: Root Undercut	**RPO**: Random Porosity	**WH**: Worm Hole	**OI**: Oxid Inclusion	**UF**: Under Fill	**Rep**:Repair
CC: Crater Crack	**CU**: Cap Undercut	**LP**: Linear Porosity	**PH**: Pin Hole	**BT**: Burn Through	**HB**: Hollow Bead	**RX**:Retake

INTERPRETER	FPA	OWNER	TPI
DATE:	DATE:	DATE:	DATE:
NAME: M.H.Serpoosh ASNT Level II VT PT MT UT RT	NAME:	NAME:	NAME: Rajabian Review
SIGN:	SIGN:	SIGN:	SIGN:

PJPC	*Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.* *CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE*	Farnikan EQUIPMENT NO. HX127-RU0001A-E-02 Date:1404/01/21 REPORT NO :E1027-FPA-VD-QC-PRO-006-03

PROCEDURE ID: E1027-FPA-VD-QC-NDT-003 REV:00	**Acceptance criteria : ASME Sec.VIII**
GROOVE TYPE:	**THICKNESS:**
V [√] U [ ] X [ ]	mm [√] 07~13
K [ ] Y [ ] OTHER [√]	Inch [ ]
SURFACE CONDITION:	**WELDING PROCESS:**
AS WELD [√] AS FORGED [ ] AS CAST [ ]	SMAW [√] GMAW [ ] GTAW [√]
AS MACHINED [ ] AS GRANDED [ ] OTHER [ ]	FCAW [ ] SAW [ ] OTHER [ ]
EQUIPMENT	**SEARCH UNIT:**
MAKER: TIME	MAKER: WMB FREQUENCY: 4MHZ TYPE & SIZE: 0°,60°,70° , 20x22
MODEL:TUD 360	**SEARCH UNIT CABLE(S):**
ID NO:10911000001	TYPE:WMB Lenght:1500
TEST BLOCKS:	**COUPLANT:**
CALIBRATION : V1,ASME Block	OIL [ ] GREASE [ ] GLYCERIN [ ]
BASIC MATERIAL: S.S&CS	SCA [ ] WATER [ ] OTHER [√]
EQUIPMENT FUNCTION:	**EXAMINATION METHOD**
SCREEN HIGH LINEARITY: ±1%	PULSE-ECHO [√] STRAIGHT BEAM [ ] ANGLE BEAM [√]
AMPLITUDE CONTROL LINEARITY: ±1%	IMMERSION [ ] CONTACT [√] TROUGH TRANSMISSION [ ]

NO.	ITEM	JOINT	SIZE	SCAN AREA	DEFECT LOCATION			INTERPRETATION		REPAIRS		REMARKS
					X	L	D	ACCEPT	REJECT	ACCEPT	REJECT	
1	CHILLER	T1	3"	-	-	-	-	√				
2	CHILLER	T2	3"	-	-	-	-	√				
3	CHILLER	S1	4"	-	-	-	-	√				
4	CHILLER	S2	6"	-	-	-	-	√				
5	CHILLER	PSV	3"	-	-	-	-	√				
6	CHILLER	LG1	2"	-	-	-	-	√				
7	CHILLER	LG2	2"	-	-	-	-	√				
8	CHILLER	D1	2"	-	-	-	-	√				
9	CHILLER	D2	2"	-	-	-		√				
10	CHILLER	S3	2"	-	-	-	-	√				
11	CHILLER	V	2"	-	-	-	-	√				

Judgment : Satisfactory [√] unsatisfactory [ ]

INTERPRETER	FARNIKAN QC.	OWNER	TPI
NAME M.H.Serpoosh ASNT Level II VT PT MT UT RT	NAME	NAME	NAME
DATE	DATE	DATE	DATE
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE

	Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co. CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE **LIQUID PENETRANT TEST REPORT**	Farnikan Engineered Solutions	**EQUIPMENT NO.:** RU0001A-E-02 **Date: 04/21/2025** **REPORT No.:** E1027-FPA-VD-QC-PRO-006-01 **Page 1 of 1**

Applicable code : ASME Sec.VIII DIV.1 & ASME V **Procedure ID:** E1027-FPA-VD-QC-NDT-003	**Stage of Examination**
Material: C.S.	**Prepared Edge:** After P.W.H.T ☐ As welded ☑ After Hydro .test ☐ Others ☐

Surface preparation : Grinding ☐ Machining ☐ Power Brush ☑ Others ☐

Penetrant	**Type**	☑ Color Contrast	☐ Fluorescent
	Application	☐ Brushing	☑ Spraying
	Temperature : ambient temp.	**Penetrate time:** 10 Minutes	**Penetrant Designation:** MAGNAFLUX SKL-SP2
Removal	☑ Water Washable Penetrant		**Removal Designation:** MAGNAFLUX SKC-S
	☐ Post Emulsifying Penetrant		
	☐ Solvent Removable Penetrant		
Developing	☑ Dry developer		**Developing Designation:** MAGNAFLUX SKD-S2
	☐ Wet developer		

Row	Joint NO.	THK (mm)	Defect Type (Linear Or Rounded)	Location	Dimension (mm)	Result 1		Result 2	
						Accept	Reject	Accept	Reject
1	T1	10				√			
2	T2	10				√			
3	S1	12				√			
4	S2	12				√			
5	PSV	12				√			
6	LG1	12				√			
7	LG2	12				√			
8	D1	12				√			
9	D2	12				√			
10	S3	12				√			
11	V	12				√			
12	FW1	10				√			
13	FW2	10				√			
14	FW3	10				√			
15	TTS	8				√			
16									
17									
18									
19									
20									
21									

NOTE :

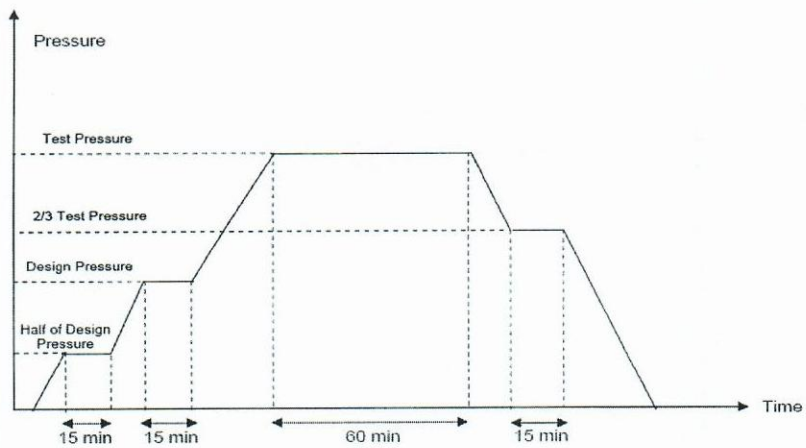
Judgment : ☐ Satisfactory ☑ unsatisfactory ☐

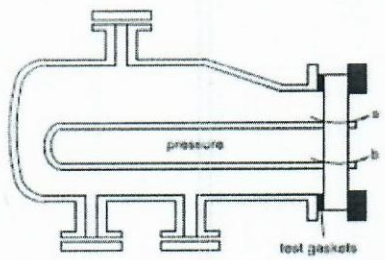
INTERPRETER	FARNIKAN QC.	TPI	OWNER
NAME:	NAME:	NAME:	NAME:
DATE:	DATE:	DATE:	DATE:
SIGNATURE: M.H.Serpoosh ASNT Level II VT PT MT UT RT	SIGNATURE:	SIGNATURE: Review	SIGNATURE:

Vendor: Farnikan Engineered Solutions	STYRENE PARK OFFSITE	CLIENT	REPORT NO.: FPA-HX127-RU0001A-E02--HY-001
	HYDROSTATIC TEST REPORT	پتروشیمی توسعه پارک صنعتی گوهر افق	DATE: 4/23/2025
			PAGE 1 OF 3

ITEM NO.: RU0001A-E02 (Shell Side)			REFERENCE CODE: ASME SEC VIII DIV.1
TEST PRESSURE : 28.6 Barg			
DESIGN PRESSURE: 22 Barg			
PROCEDURE APPLIED : E1027-FPA-VD-QC-PRO-007			
TEST FLUID	Tap Water		
HOLDING TIME	D. P.: 15 Minute	T.P.: 60 Minute	FLUID TEMP.: 15°C
METAL SURFACE TEMP (°C): 16		EXTERNAL TEMP.(°C): 21	AMBIENT TEMP.(°C): 17
GAUGES EMPLOYED :		GAUGE No1: 100 (DA151450)	GAUGE No2: 100 (DA151452)
CALIBRATION FORM NO.: P-1403/290 - P-1403/298			TERMOMETER: 62 MAX+
TEST RESULT : ACCEPTED ■	NOT ACCEPTED □		

REMARK :





FPA CO.	TPI	OWNER
NAME	NAME	NAME
DATE	DATE	DATE
SIGN.	SIGN.	SIGN.

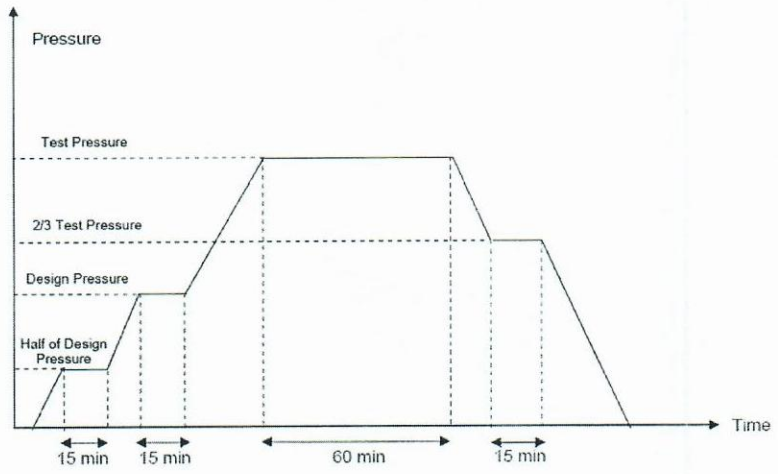
FARNIKAN PARS AVIN Quality Control Dept.

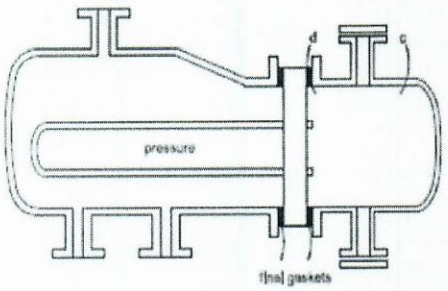
Sajadian

Vendor: Farnikan Engineered Solutions	STYRENE PARK OFFSITE	CLIENT پتروشیمی توسعه پارک صنعتی گوهر افق	REPORT NO.: FPA-HX127-RU0001A-E02-HY-001
	HYDROSTATIC TEST REPORT		DATE:4/23/2025
			PAGE 2 OF 3

ITEM NO.:RU0001A-E02 (Tube Side)			REFERENCE CODE: ASME SEC VIII DIV.1
TEST PRESSURE : 8.84 Barg			
DESIGN PRESSURE: 6.8 Barg			
PROCEDURE APPLIED : E1027-FPA-VD-QC-PRO-007			
TEST FLUID	Tap Water		
HOLDING TIME	D. P.: 15 Minute	T.P.: 60 Minute	FLUID TEMP.: 17°C
METAL SURFACE TEMP (°C): 18		EXTERNAL TEMP.(°C): 22	AMBIENT TEMP.(°C): 18
GAUGES EMPLOYED :		GAUGE No1: 25(DA142799)	GAUGE No2:25(DA110914)
CALIBRATION FORM NO.: P-403/52321 - P-1403/1262			TERMOMETER: 62 MAX+
TEST RESULT : ACCEPTED ■ NOT ACCEPTED ☐			

REMARK :





FPA CO.	TPI	OWNER
NAME	NAME	NAME
DATE	DATE	DATE
SIGN.	SIGN.	SIGN.

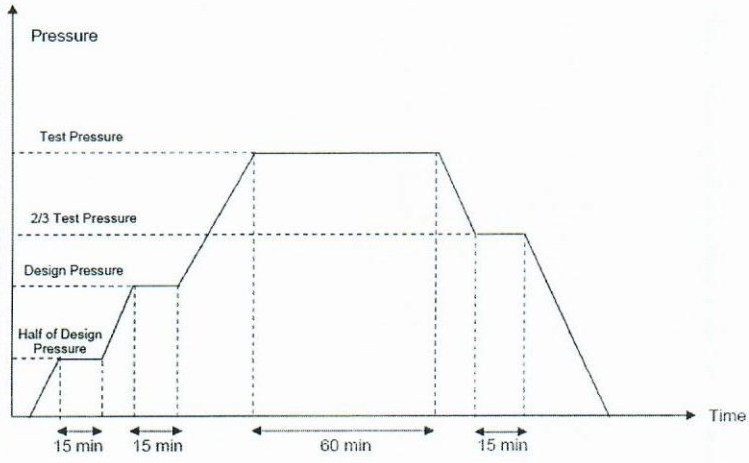
FARNIKAN PARS AVIN Quality Control Dept.

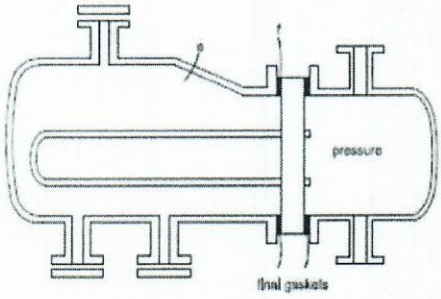
Safaeian

Vendor: Farnikan Engineered Solutions	STYRENE PARK OFFSITE	CLIENT	REPORT NO.: FPA-HX127-RU0001A-E02--HY-001
	HYDROSTATIC TEST REPORT	پتروشیمی توسعه پارک صنعتی گوهر افق	DATE: 4/23/2025
			PAGE 3 OF 3

ITEM NO.: RU0001A-E02 (Shell Side)(Test of gasket between shell and tube-sheet)			REFERENCE CODE: ASME SEC VIII DIV.1
TEST PRESSURE : 28.6 Barg			
DESIGN PRESSURE: 22 Barg			
PROCEDURE APPLIED : E1027-FPA-VD-QC-PRO-007			
TEST FLUID	Tap Water		
HOLDING TIME	D. P.: 15 Minute	T.P.: 60 Minute	FLUID TEMP.: 15°C
METAL SURFACE TEMP (°C): 16		EXTERNAL TEMP.(°C): 22	AMBIENT TEMP.(°C): 18
GAUGES EMPLOYED :		GAUGE No1: 100 (DA151450)	GAUGE No2: 100 (DA151452)
CALIBRATION FORM NO.: P-1403/290 - P-1403/298			TERMOMETER: 62 MAX+
TEST RESULT : ACCEPTED ■	NOT ACCEPTED □		

REMARK :





FPA CO.	TPI	OWNER
NAME	NAME	NAME
DATE	DATE	DATE
SIGN.	SIGN.	SIGN.

FARNIKAN PARS AVIN Quality Control Dept.

Vendor: Farnikan Engineered Solutions	STYRENE PARK OFFSITE PAINTING INSPECTION REPORT	Owner: پتروشیمی توسعه پارک صنعتی گوهر افق	Report No. : FPA-HX127-RU0001A-E02-P Date: 4/11/2025 SHEET 1 OF 1

Contract No.:	-	P.O.No.:	EI027-FPA-VD-QC-PRO-008
Project No.:	HX 127	Item No.: RU0001A-E02	Paint Specification No.: Project Spec

Paint Layer	As per Spec:			Humidity (%)	Amb. temp. °C		Surface Temp. °C		Dew Point (°C)	MEK.Test:		Adhesion		Total DFT µm	Measured DFT µm			Manufa Batch
	Paint Type	DFT µm	Ral No.		Min.	Max.	Min.	Max.		Acc.	Rej.	Acc.	Rej.		Min.	Max.	Ave.	
Primer:	Zinc Rich Epoxy	70	-	25%	15	20	17	24	3	-	-	Acc.	-	70	68	78	73	14031
Intermediate	Epoxy polyamide MIO filled	100	-	20%	16	21	15	20	4	-	-	Acc.	-	170	164	178	171	14031
Top Coating	Aliphatic Polyurethane	50	7038	22%	15	18	18	23	3	-	-	Acc.	-	225	218	230	224	14031

JUDGEMENT: SATISFACTORY [√] UNSATISFACTORY [ ]

FPA QC.	TPI	OWNER
NAME:	NAME:	NAME:
DATE:	DATE:	DATE:
SIGNATURE:	SIGNATURE:	SIGNATURE:

Vendor: Farnikan Engineered Solutions	STYRENE PARK OFFSITE **Tube Expanding Report**	CLIENT پتروشیمی توسعه پارک صنعتی گوهر افق	Equipment No.: RU0001A-E-02 Report No.: FPA-HX127- RU0001A-E-02-EXP-001 Date: 4.20.2025 Page 1 of 1

DWG No: EI027-HSE-VD-ME-DWG-008

MATERIAL	TUBE: SA-334-6 TUBESHEET: SA350-LF2 CL1	TUBE OD	19.05	$EXPANDING\ RATIO(\%) = [1 - \frac{(dh - di')}{(do - di)}] * 100$	

NO.	TUBESHEET HOLE (mm)-d_h	TUBE OD BEFORE EXPANDING (mm)-d_o	TUBE ID BEFORE EXPANDING (mm)-d_i	TUBE ID AFTER EXPANDING (mm)-$d_{i'}$	%	REMARKS
1	19.30	19.05	15.75	16.20	6	
2	19.30	19.05	15.78	16.20	5	
3	19.30	19.05	15.70	16.14	6	
4	19.30	19.06	15.75	16.20	6	
5	19.32	19.05	15.74	16.20	6	
6	19.30	19.05	15.71	16.20	7	
7	19.31	19.06	15.80	16.30	8	
8	19.30	19.05	15.75	16.20	6	
9	19.30	19.07	15.75	16.20	7	
10	19.32	19.05	15.78	16.30	8	
11	19.30	19.05	15.74	16.20	6	
12	19.31	19.06	15.75	16.20	6	
13	19.30	19.05	15.75	16.20	6	
14	19.31	19.05	15.78	16.30	8	
15	19.30	19.05	15.71	16.20	7	

NOTE:

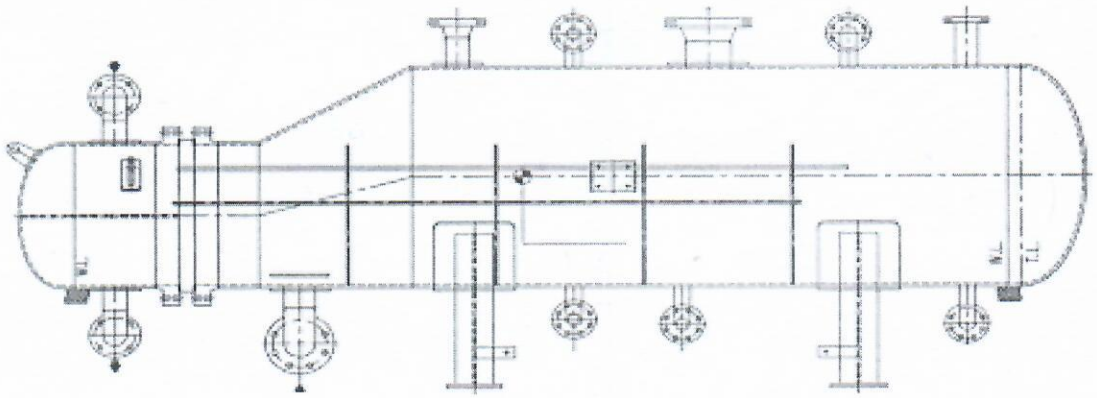
JUDGMENT: SATISFACTORY ☑ UNSATISFACTORY ☐

FPA QC	TPI	OWNER
NAME DATE SIGN.		NAME DATE SIGN.

Vendor: Farnikan Engineered Solutions	*N2 PURGING REPORT*	*OWNER* پتروشیمی توسعه پارک صنعتی گوهر افق	REPORT NO.: FPA-QC-HX 127-N2-001
			Data :5/13/2025
			Page 1 of 1

ITEM NUMBER: RU0001A -E02		
INITIAL PURGING PRESSURE: 0.5 Barg		
FINAL PURGING PRESSURE : 0.5 Barg		
PROCEDURE APPLIED:		
GAS PURITY: 99.99%	GAS TEMP. (C°) -	
INITIAL HOLDING TIME: 15 Min	FINAL HOLDING TIME: 30 Min	EXTERNAL TEMP.(C°): 15 °C Ambient Temp.
GAUGES EMPLOYED RANGE: 2.5Barg	INITIAL GAUGE PRESSURE: 1 Barg	FINAL GAUGE PRESSURE:1 Barg
CALIBRATION FORM NO.: -	THERMOMETER: 60 MAX +	
RESULT : ACCEPTED [√]	NOT ACCEPTED [ ]	

REMARK :



FPA QC.	OWNER	TPI
NAME:	NAME:	NAME:
DATE:	DATE:	DATE:
SIGN.	SIGN.	SIGN.