VENDOR: Farnikan Engineered Solutions

STYRENE PARK OFFSITE

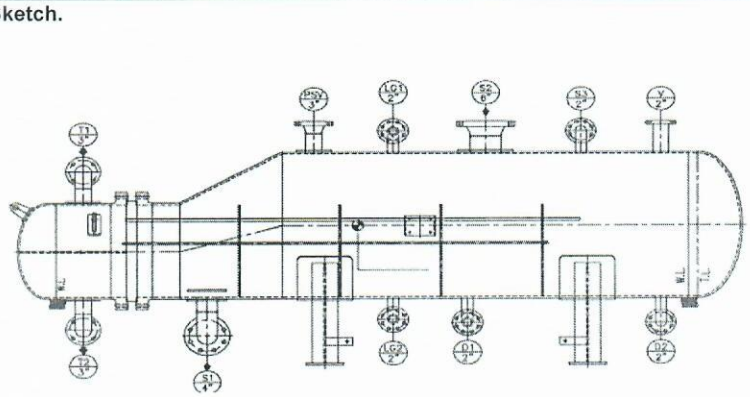
WELDING INSPECTION REPORT

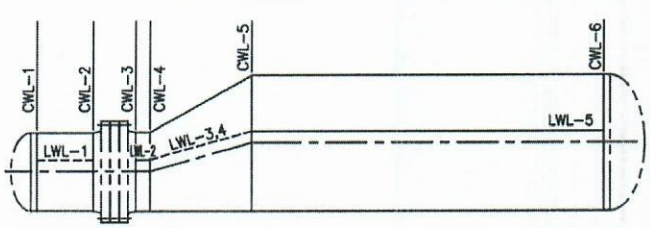
CLIENT: پتروشیمی توسعه پارک صنعتی گوهر افق

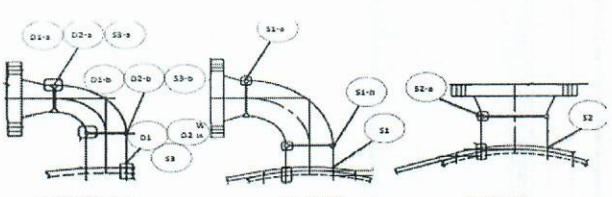
OWNER REQ. NO.:	PROJECT NO.:	TAG NO.:	REPORT NO.:	PAGE:	DATE:
E1027-FPA-VD-QC-NDT-003	HX127	RU0001B-E02	FPA-HX127-RU0001B-E02-VT-001	1 OF 2	4/1/2025

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-116	W-116	W-119	✓		
2	LWL-2~LWL-4	HX-127-WPS-003	SA-516 Gr.70N SA-516 Gr.70N	W-116	W-115	W-119	✓		
3	LWL-5	HX-127-WPS-004/005	SA-516 Gr.70N SA-516 Gr.70N	W-116	W-115	W-119	✓		
4	CWL-1	HX-127-WPS-004/005	SA-516 Gr.70N SA-516 Gr.70N	W-116	W-115	W-119	✓		
5	CWL-2	HX-127-WPS-002	SA-516 Gr.70N SA-266-2N	W-116	W-115	W-119	✓		
6	CWL-3	HX-127-WPS-002	SA-516 Gr.70N SA-266-2N	W-116	W-115	W-119	✓		
7	CWL-4	HX-127-WPS-002	SA-516 Gr.70N SA-516 Gr.70N	W-116	W-115	W-119	✓		
8	CWL-5,CWL-6	HX-127-WPS-002	SA-516 Gr.70N SA-516 Gr.70N	W-115	W-103	W-119	✓		
9	T1,T2	HX-127-WPS-001	SA-106 Gr.B SA-516 Gr.70N	W-115	W-103	W-119	✓		
10	S1,S2,PSV	HX-127-WPS-001	SA-333 Gr.6 SA-516 Gr.70N	W-119	W-103	W-119	✓		
11	LG1, LG2,D1,D2,S3	HX-127-WPS-001	SA-333 Gr.6 SA-516 Gr.70N	W-119	W-103	W-119	✓		
12	V	HX-127-WPS-001	SA-350 LF2 SA-516 Gr.70N	W-119	W-103	W-119	✓		
13	T1-a,T1-b,T2-a,T2-b	HX-127-WPS-001	SA-106 Gr.B SA 234 WPB6/SA-105A	W-119	W-103	W-119	✓		
14	S1-a,S1-b, S2-a,PSV-a,LG1-a	HX-127-WPS-001	SA-333 Gr.6 SA-420 WPL6/SA350LF2	W-119	W-103	W-119	✓		
15	LG2-a,S3-a	HX-127-WPS-03	SA-333 Gr.6 SA-420 WPL6/SA350LF2	W-119	W-103	W-119	✓		

Sketch.







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

FARNIKAN PARS AVIN Quality Control Dept.

VENDOR: Farnikan Engineered Solutions

STYRENE PARK OFFSITE

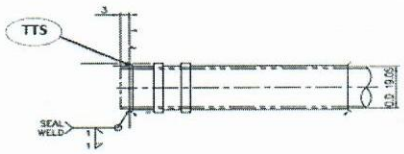
WELDING INSPECTION REPORT

CLIENT: پتروشیمی توسعه پارک صنعتی گوهر افق

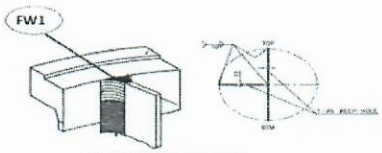
OWNER REQ. NO.:	PROJECT NO.:	TAG NO.:	REPORT NO.:	PAGE:	DATE:
E1027-FPA-VD-QC-NDT-003	HX127	RU0001B-E02	FPA-HX127-RU0001B-E02-VT-001	2 OF 2	4/1/2025

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-119	W-1116	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-119	W-1116	W-115	✓		
18	FW2,FW3	HX-127-WPS-004/005	SA-516 Gr.70 SA 283 Gr.c	W-119	W-1116	W-115	✓		
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									

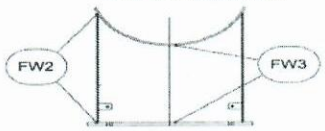
Sketch.



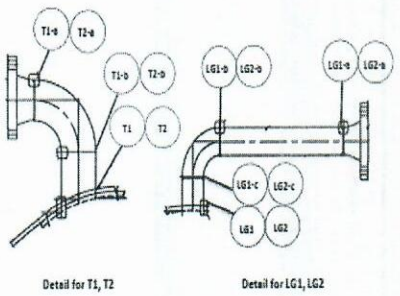
TUBE TO TUBESHEET JOINT



PARTITION PLATE DETAIL



SADDLE DETAIL



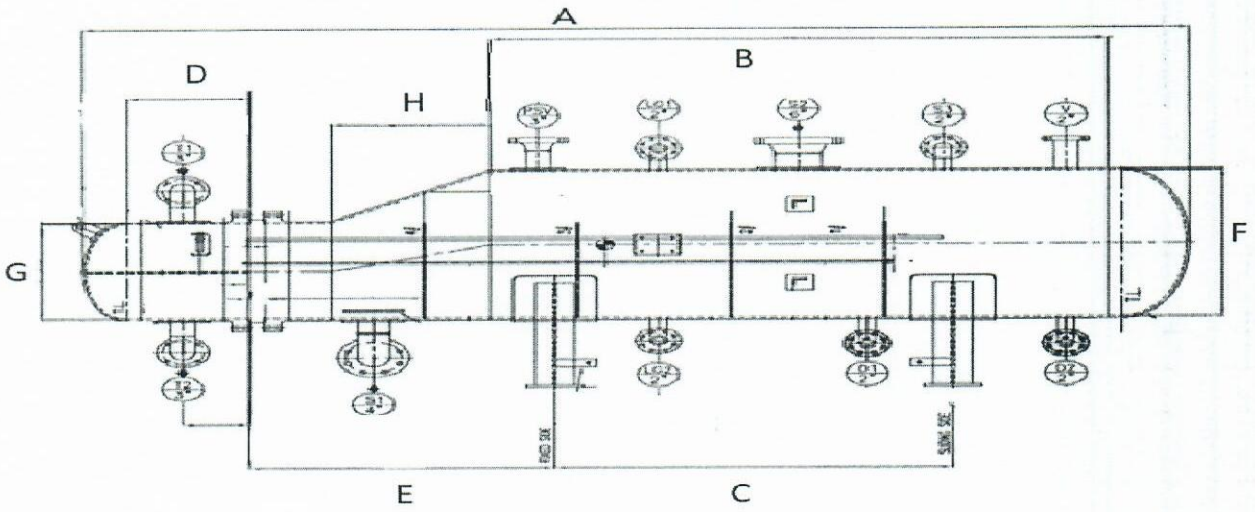
Detail for T1, T2 — Detail for LG1, LG2

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

FARNIKAN PARS AVIN Quality Control Dept.

Vendor	STYRENE PARK OFFSITE	CLIENT	Equipment No.:
Farnikan Engineered Solutions		پتروشیمی توسعه پارک صنعتی گوهر افق	RU0001B-E-02
			REPORT NO:
DWG. NO : EI027-HSE-VD-ME-DWG-008	DIMENSIONAL CONTROL SHEET		FPA-HX127-RU0001B-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.441, PRO.712	ELV.+1, PRO.+2	180°	Acc	A	3947	3947	0	-	Acc
NOZZLE - S2	ELV.1955, PRO.671	ELV.1953, PRO.671	ELV.+2, PRO.0	0°	Acc	B	2200	2201	+1	-	Acc
NOZZLE -T1	ELV.240, PRO.510	ELV.241, PRO.511	ELV.+1, PRO.+1	0°	Acc	C	1420	1422	2	-	Acc
NOZZLE -T2	ELV.240, PRO.510	ELV.241, PRO.512	ELV.+1, PRO.+2	180°	Acc	D	440	440	0	-	Acc
NOZZLE - D1	ELV.705, PRO.630	ELV.702, PRO.631	ELV.+2, PRO.+1	180°	Acc	E	1085	1080	0	-	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.-2, PRO.0	0°	Acc	G	600	602	+2	-	Acc
NOZZLE - LG2	ELV.1455, PRO.610	ELV.1455, PRO.610	ELV.-2, PRO.0	180°	Acc	H	565	566	+1	-	Acc
NOZZLE - PSV	ELV.1025, PRO.675	ELV.1021, PRO.676	ELV.+1, PRO.+1	0°	Acc						
NOZZLE - V	ELV.2905, PRO.675	ELV.2907, PRO.672	ELV.+2, PRO.+2	0°	Acc						
NOZZLE -S3	ELV.2470, PRO.630	ELV.2470, PRO.632	ELV.0, 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

PJPC — PADJAM

Famikan Engineered Solutions

Project: Item No.: RU0001-B-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: 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)2(10*25)		√			√								(44~45)SL
6	CWL-2	02		10	115-112	001	1960	6(10*35)3(10*25)		√			√								(98~105)LOF
7	CWL-3	08		12	115-112	001	1960	5(10*40)1(10*25)	√												
8	CWL-4	09		12	115-112	001	1960	6(10*40)4(10*25)	√												
9	CWL-5	10		12	115-112	001	2980	8(10*40)2(10*25)			√		√								(110~130)RS
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	NAME:	NAME:	NAME: Sajadian
SIGN: ASNT Level II VT PT MT UT RT	SIGN: FAMIKAN PARTS AVIN Quality Control Dept.	SIGN:	SIGN: Review

ABT 360 KT/Y PP PLANT

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
UG:0.5 Max

Date: 1.2.1404 **Page: 2 of 2**

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)	√												
24	S2-a	24		11	115-112	001	6"	3(10*25)	√												
25	D1-a	25		9	115-112	001	2"	3(10*15)			√		√								SHOOT B RS
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)	√												

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.Seyedosh	NAME:	NAME:	NAME: Safadian
SIGN: ASNT Level II VT PT MT UT RT	SIGN: FARNIKAN PARS AVIN Quality Control Dept.	SIGN:	SIGN: Review

PJPC PADJAM	*Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.* *CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE*	OSC GROUP / Farnikan Engineered Solutions	EQUIPMENT NO. HX127-RU0001B-E-02 Date:1404/01/21 REPORT NO :E1027-FPA-VD-QC-PRO-006-04

PROCEDURE ID: E1027-FPA-VD-QC-NDT-003 REV:00 | **Acceptance criteria : ASME Sec.VIII**

GROOVE TYPE:
V [√] U [ ] X [ ]
K [ ] Y [ ] OTHER [√]

THICKNESS:
mm [√] 07~13
Inch [ ]

SURFACE CONDITION:
AS WELD [√] AS FORGED [ ] AS CAST [ ]
AS MACHINED [ ] AS GRANDED [ ] OTHER [ ]

WELDING PROCESS:
SMAW [√] GMAW [ ] GTAW [√]
FCAW [ ] SAW [ ] OTHER [ ]

EQUIPMENT
MAKER: TIME
MODEL:TUD 360
ID NO:10911000001

SEARCH UNIT:
MAKER: WMB FREQUENCY: 4MHZ TYPE & SIZE: 0°,60°,70° , 20x22

SEARCH UNIT CABLE(S):
TYPE:WMB Lenght:1500

TEST BLOCKS:
CALIBRATION : V1,ASME Block
BASIC MATERIAL: S.S&CS

COUPLANT:
OIL [ ] GREASE [ ] GLYCERIN [ ]
SCA [ ] WATER [ ] OTHER [√]

EQUIPMENT FUNCTION:
SCREEN HIGH LINEARITY: ±1%
AMPLITUDE CONTROL LINEARITY: ±1%

EXAMINATION METHOD
PULSE-ECHO [√] STRAIGHT BEAM [ ] ANGLE BEAM [√]
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 FARNIKAN PARS AVIN Quality Control Dept.	NAME	NAME
DATE	DATE	DATE	DATE Sogoldan Review
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

EQUIPMENT NO.: RU0001B-E-02

Date: 04/21/2025

REPORT No.: E1027-FPA-VD-QC-PRO-006-02

Page 1 of 1

Applicable code : ASME Sec.VIII DIV.1 & ASME V

Procedure ID: E1027-FPA-VD-QC-NDT-003

Material: C.S.

Stage of Examination

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 :

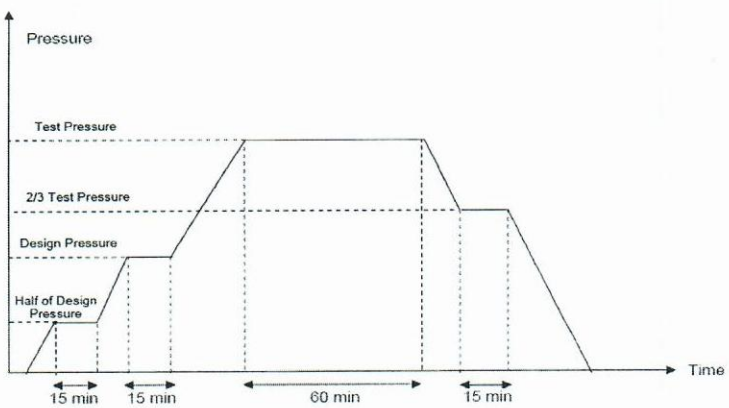
Judgment : ☐ Satisfactory ☑ unsatisfactory ☐

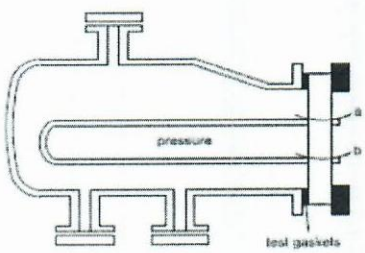
INTERPRETER	FARNIKAN QC.	TPI	OWNER
NAME: M.H.Sarpoosh	NAME:	NAME:	NAME:
DATE:	DATE:	DATE:	DATE:
SIGNATURE: ASNT Level II PT MT UT RT	SIGNATURE: FARNIKAN PARSAVIN Quality Control Dept.	SIGNATURE: Sojudian Review	SIGNATURE:

Vendor: Farnikan Engineered Solutions	STYRENE PARK OFFSITE	CLIENT	REPORT NO.: FPA-HX127-RU0001B-E02--HY-001
	HYDROSTATIC TEST REPORT	پتروشیمی توسعه پارک صنعتی گوهر افق	DATE: 4/23/2025
			PAGE 1 OF 3

ITEM NO.: RU0001B-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): 18		EXTERNAL TEMP.(°C): 23	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 :





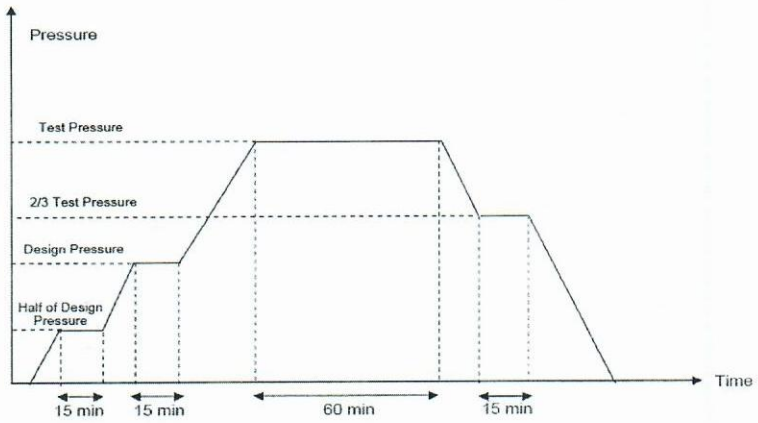
FPA CO.	TPI	OWNER
NAME	NAME	NAME
DATE	DATE	DATE
SIGN.	SIGN.	SIGN.

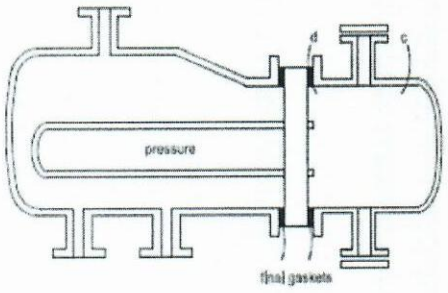
FARNIKAN PARS AVIN Quality Control Dept.

Vendor: Farnikan Engineered Solutions	STYRENE PARK OFFSITE	CLIENT: پتروشیمی توسعه پارک صنعتی گوهر افق	REPORT NO.: FPA-HX127-RU0001B-E02-HY-001
	HYDROSTATIC TEST REPORT		DATE:4/23/2025
			PAGE 2 OF 3

ITEM NO.: RU0001B-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): 20
GAUGES EMPLOYED :		GAUGE No1: 25(DA142798)	GAUGE No2:25(DA110914)
CALIBRATION FORM NO.: P-1403/52320- P-1403/1262			TERMOMETER: 62 MAX+
TEST RESULT : ACCEPTED ■	NOT ACCEPTED ☐		

REMARK :





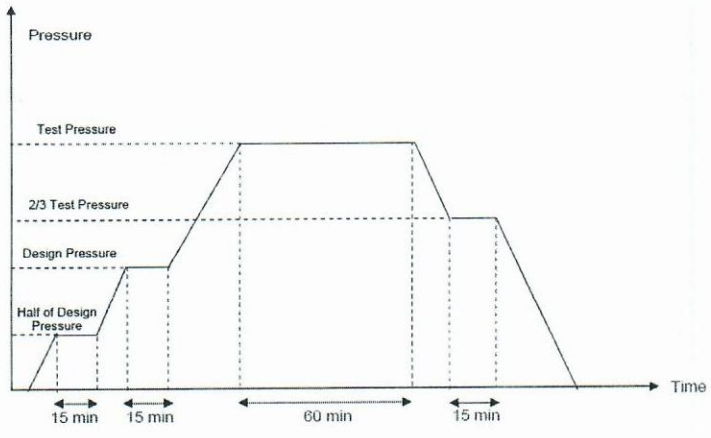
FPA CO.	TPI	OWNER
NAME	NAME	NAME
DATE	DATE	DATE
SIGN.	SIGN.	SIGN.

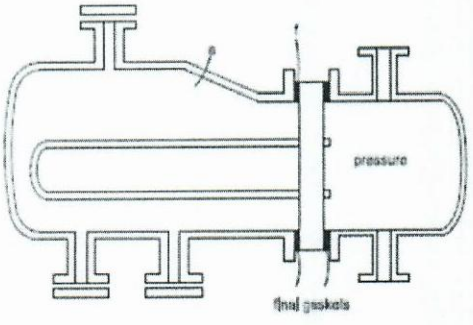
FARNIKAN PARS AVIN Quality Control Dept.

Vendor: Farnikan Engineered Solutions	STYRENE PARK OFFSITE	CLIENT	REPORT NO.: FPA-HX127-RU0001B-E02--HY-001
	HYDROSTATIC TEST REPORT	پتروشیمی توسعه پارک صنعتی گوهر افق	DATE: 4/23/2025
			PAGE 3 OF 3

ITEM NO.: RU0001B-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.: 14°C
METAL SURFACE TEMP (°C): 18		EXTERNAL TEMP.(°C): 23	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 Co. Quality Control Dept.

Vendor: Farnikan Engineered Solutions	STYRENE PARK OFFSITE PAINTING INSPECTION REPORT	Owner: پتروشیمی توسعه پارک صنعتی گوهر افق	Report No. : FPA-HX127-RU0001B-E02-PA-001 Date: 4/11/2025 SHEET 1 OF 1

Controct No.:	-	P.O.No.:	EI027-FPA-VD-QC-PRO-008
Project No.:	HX 127	Item No.: RU0001B-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			Manufacture Batch No.
	Paint Type	DFT µm	Ral No.		Min.	Max.	Min.	Max.		Acc.	Rej.	Acc.	Rej.		Min.	Max.	Ave.	
Primer:	Zinc Rich Epoxy	70	-	21%	20	24	20	25	4	-	-	Acc.	-	70	65	80	72	14031222
Intermediate	Epoxy polyamide MIO filled	100	-	20%	18	24	18	20	5	-	-	Acc.	-	170	164	175	169	14031153
Top Coating	Aliphatic Polyurethane	50	7038	24%	16	23	18	24	4	-	-	Acc.	-	225	218	235	226	14031220

JUDGEMENT: SATISFACTORY [√] UNSATISFACTORY [ ]

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

FARNIKAN PARS A.C. Quality Control Dept.

Vendor: Farnikan Engineered Solutions	STYRENE PARK OFFSITE **Tube Expanding Report**	CLIENT پتروشیمی توسعه پارک صنعتی گوهر افق	Equipment No.: RU0001B-E-02 Report No.: FPA-HX127- RU0001B-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: SA-350-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	15.82	16.30	7	
4	19.30	19.06	15.68	16.10	5	
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	15.81	16.30	7	
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	16.24	6	
11	19.30	19.05	15.74	16.21	7	
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	15.72	16.14	5	
15	19.30	19.05	15.71	16.20	7	

NOTE:

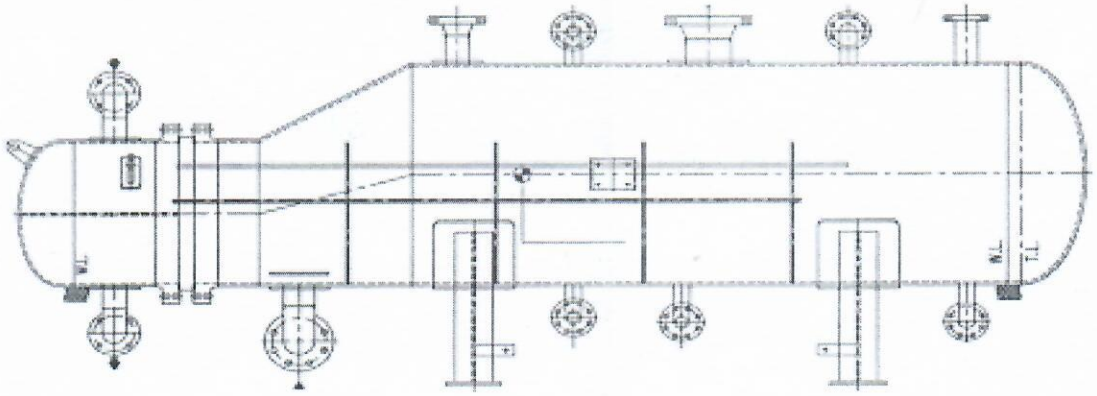
JUDGMENT: SATISFACTORY ☑ UNSATISFACTORY ☐

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: RU0001B -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°): 17 °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.