GRAND PRIX ENGG. PVT. LTD. FARIDABAD, INDIA	QUALITY ASSURANCE PLAN	QAP No.:		
Client:	Inspection Authority: Al (LR Insurance Inc.)	Da	te: 15.11.2008	
Project:	Drg. Nos .: 2 - GP-1121 -1768, Rev.1	Iter	m No.: 99-D-20	
P.O. No.:	Item: FEED COALESCER	Jol	b No. : GP-1121	

Item: FEED COALESCER

Quantity: 01 No.

ABBREVIATIONS

GP - Grand Prix

AI - Authorized Inspector

QC - Grand Prix Quality Control Engineer

MTC - Material Test Report or Certificate of complaince

LEGEND

H (HOLD): Stage of Inspection beyond which work shall not progress unless accepted by QC/AI.

W (WITNESS): Stage of Inspection for which AI shall be notified in advance, However work may proceed with AI's consent if AI is unable to undertake the inspection.

R (REVIEW): QC to perform the activity, document all results and offer to AI for review.

Code of Construction: ASME SEC. VIII, DIV.1, EDITION 2007

REFERENCE DOCUMENTS / PROCEDURES

ASME Section VIII Division 1, Edition 2007

ASME Section V, Edition 2007 ASME Section IX, Edition 2007 ASME Section II Part A, Edition 2007 ASME Section II Part C, Edition 2007

GP-QCP-01-R8 : Procedure for Radiographic Examination. GP-QCP-02-R8 :Procedure for Liquid Penetrant Examination.

GP-QCP-05-R3 :Procedure for Hydrostatic test. GP-QCP-06-R2 :Procedure for Heat Treatment.

GP-WP-01-R3: Written Practice for Training, Qualification and Certification of NDT Personnel.

Rev.	Date	Description of Revision	Prepared By	Approved By	Reviewed & Accepted By:
0	15.11.2008	First Issue	SY	RS	Authorized Inspector

roject: .O. No.:	:			on Authority: Al (.: 2 - GP-1121 -17	LR Insurance Inc.)		Date : 15.	11.2008	
.O. No.:	:		Drg. Nos.	· 2 - GP-1121 -17	700 D 4				
	:		4	. 2 - 01 -1121 -17	768, Rev.1		Item No.:	: 99-D-20	
i.No.		Job No.: GP-1121					GP-1121		
ilio.	Operations	Characteristics	Extent	Reference	Acceptance		Responsibility		
	Operations	Cital acteristics	Extent	Documents	Standard	Format of record	GP	Al	
01	Drawing & Design Calculations	Review of Drawing & Design calculation	100%	ASME Section VIII Division 1	ASME Section VIII Division 1	Drawing & Design Calculations	Н	R	
02	QA Plan	Hold/ Witness/Review stages	100%	Drawings and ASME Section VIII Division 1	ASME Section VIII Division 1	QAP	Н	Н	
	NDE Procedure (PT & RT) and NDE Personnel Qualification	Review of Procedures / Personnel Records	100%	GP-QCP-01& GP-QCP-02	ASME Section VIII Division 1	Procedure / Inspection Process Checklist	R	R	
	Procedures for Hydrostatic test and Heat treatment	Review of procedures	100%	GP-QCP-05 & GP-QCP-06	ASME Section VIII Division 1	Procedure / Inspection Process Checklist	R	R	
05 V	Weld Plan with WPS and PQR	Review of Weld Plan with WPS and PQR for production, repair & tack welds	100%	ASME Section VIII Division 1 & Section IX	ASME Section VIII Division 1 & Section IX	Weld Plan	Н	R	
റെ	Welder Performance Qualification Records	Production, Repair & Tack Welding	100%	ASME Section VIII Division 1 & Section IX	ASME Section VIII Division 1 & Section IX	WPQ / WOPQ Records	Н	R	

_	D PRIX ENGG. PVT. LTD. ABAD, INDIA		<u>QUALI</u>	TY AS	SURANC	E PLAN	QAP No.:					
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Project:				Drg. Nos.	: 2 - GP-1121 -17	768, Rev.1		Item No.: 99-D-20				
P.O. No	.:			Item : FE	ED COALESCER			Job No.:	GP-1121			
S.No.	Operations	Chai	ractorisatios	Extent	Reference	Acceptance	Format of record	Responsibility		/		
3.140.	Operations	Characterisctics		Extent	Documents	Standard	romat of record	GP	Al			
Identification of Material for Pressure Parts												
		including Mir	r, Dimension Check nimum Thk and Marking with MTC	100%	Drawing and Material Specification	Drawing and Material Specification	MTC	н	W			
07	A. Plates & Pipes	Verification of transferred Marking before cutting		100%	App. Drawing	Marking of Job No., Part No., Material Spec., Heat No. & plate No.	Inspection Report / Material History Sheet	н	R			
	B. Bought Out Items - Forgings, Fittings ,Gaskets and Fasteners		TC and Corelation larking with MTC	100%	Drawing and Material Specification	Drawing and Material Specification	Material History Sheet	Н	R			
	Dished End after forming											
	A. Shape and Dimensions check		ss and Profile emplate, Visual & Check	100%	Drawing and UG-81 of ASME Section VIII Division 1	Drawing and UG-81 of ASME Section VIII Division 1	Dish End Inspection Report	Н	W			
	B. Visual examination and PT on knuckle & SF (inside and outside)	Visual and PT for surface defects		100%	GP-QCP-02	ASME Section VIII Division 1	Dish End Inspection Report	Н	R			
	C. Heat Treatment after Forming (as applicable)	Review of Time Temperature Chart		100%	GP-QCP-06	Drawings and ASME Section VIII Division 1	Time Temperature Chart	Н	R			
	Prepared By: Subhash Yadav (Q.C Engineer)		Approve (Head C	ed By: Rajiv	v Sharma		Reviewed and Acc	cepted By				

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S.No.	Operations	Cha	ractorisatios	Extent Referen	Reference	Acceptance		Responsibility		у	
3.110.	Operations	Characterisctics		LAtent	Documents	Standard	Format of record	GP	Al		
	In Process (Fit ups and Back-chip	o)									
	Fit Up for Long Seam of Shell, Jacket & end closure	shape check Root gap, ro	Dimension check, with template, not face, bevel r, PT of weld edge	100%	Drawings & GP- QCP-02	Drawings & ASME Code Section VIII Division 1	Inspection Process Checklist	Н	W		
	Fit Up for Pipe to Flanges/ Fittings	Root gap, ro	Dimension check, not face, bevel r, PT of weld edge	100%	Drawings & GP- QCP-02	Drawings & ASME Code Section VIII Division 1	Inspection Process Checklist	Н	R		
09	Fit Up for Nozzle to Shell , Dished Ends & Blind Flange.		Dimension check, not face, bevel weld edge	100%	Drawings & GP- QCP-02	Drawings & ASME Code Section VIII Division 1	Inspection Process Checklist	н	W		
	4. Fit-up of Circumferential Seam for Shell to Shell Flange & Shell to Head		Dimension check, ot face, bevel angle, weld edge	100%	Drawings & GP- QCP-02	Drawings & ASME Code Section VIII Division 1	Inspection Process Checklist	Н	W		
	5.Backchip of Long Seam, Circumferential Seam, Nozzle to Shell / Dish / Jacket weld joints	Visual & PT		100%	Drawings & GP- QCP-02	Drawings & ASME Code Section VIII Division 1	Inspection Process Checklist	н			
	VISUAL INSPECTION BEFORE CL	OSING DISI	HED END FIT UP	•	•		•	•			
10	Internal Visual Inspection of Vessel before internal assembly	Vis	sual Check	100%	App. Drg.	App. Drg.	Inspection Process Checklist	Н	н		

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	Prepared By: Subhash Yadav (Q.C Engineer)		Approve (Head C	ed By: Rajiv	[,] Sharma		Reviewed and Acc	epted By:		
	Non Destructive Examination		(1.000				(/ 1311		,	
12	Liquid Penetrant Examination of Final Welds	Surface defe	ots	100% Butt welds, fillet welds and attachment welds	ASME Section V and GP-QCP-02	ASME Section VIII Division 1 and GP-QCP-02	Liquid Penetrant Examination Report	Н		
	2. Radiography of Butt Welds	Review of RT Films		spot		ASME Section VIII Division 1 and GP-QCP-01	Radiography Examination Report	Н	R	
13	Final visual and dimensional check before hydrostatic test	Visual & Dimension check			ASME Section	Drawings and ASME Section VIII Division 1	Inspection Process Check List / Final Dimension Report	Н	н	
14	Hydrostatic test of Shell	Pressure tigh	tness	100%	Drawings and GP-QCP-05	Drawings and ASME Section VIII Division 1	Pressure Test Report	Н	Н	
		Verification of Marking / Name plate and Code Stamping		100%	ASME Section	Drawings and ASME Section VIII Division 1	Rub - Off / Inspection Process Checklist	Н	Н	
16		Visual Check DFT	with Comparator,	100%	Drawings	Drawings	Inspection Report	Н		
17	Manufacturer's Data Report (MDR)	Verification of signing of MD	f Documents & PR	100%	ASME Section	Drawings and ASME Section VIII Division 1	MDR	Н	н	

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