MISTRAS Asset Protection Solutions | Services Division

Radiography Examination Report

3985 Teal CT. | Benicia, CA. 94510 | P: (707) 746-5870; F: (707) 746-8664
www.mistrasgroup.com

Client: JVI
Location: RLOP T/A
Date: 11-7-11
Page: 1 of 1
Part/Item No: 5" Butt weld
Mistras Job No:
Contact: Royce Smith
Description: DX200-E1
Purchase Order: 342644

Code/Specification: ASME Sec V		Acceptance Criteria: B313		Procedure: 100-RT-001	Technique: ☐ SWE/SWV ☑ DWE/SWV ☐ DWE/DWV
Material Type: 5 cr	Base Mat'l Thickness: .258	Weld Joint Type: Butt Weld	Weld Thickness: .383	Weld Reinforcement: .125	Radiation Source: ☑ Ir 192 ☐ Co 60 ☐ SE 75 ☐ X-Ray
Location Markers: ☐ Source-Side ☑ Film-Side		IQI Type & ID: Bwire	IQI Material: N/A	IQI Location: ☐ Source-Side ☑ Film-Side	Focal Spot Size: .146 / Curies/mA-kV: 57 ci
Quality Level: .010	Shim Material: N/A	Shim Thickness: N/A	Source-Film Distance: 5.5	Min. Source-Object Distance: Contact	Max. Source Side of Object-Film Distance: 5.5
Exposure Time: 20 sec	Film Mfr. & Type: AGFA D5	Film Technique: ☑ Single-Load ☐ Multi-Load	Screen Type: Pb	Screen Thickness: Front: .010 Back: .010	No. of Film & Size: 1-4.5x10
Film Viewing: ☑ Single ☐ Composite	Film Processing: ☐ Automatic ☑ Manual: Time (min): 5		Developer Temperature: 68°	Comments: After Stress	

Tested Item(s):

ID/Weld No.	View	Original or Repair	Geometric Unsharpness	Accept	Reject	Porosity	Slag/ Inclusions	Lack of Fusion	Incomplete Penetration	Crack	Root Concavity	Root Convexity	Tungsten	Undercut	Weld Contour	Film Artifact	Comments	IQI Density	Weld Density
W-1134 - BXY	0-1	0	.011	✓		✓											B-251262-01 A+B		

0410-000-007

Technician, Level & Date	Customer's Signature (if applicable)	Reviewed By (if applicable)
Eddie Bouvier II 11-7-11	[signature]	

CERTIFICATION OF INSPECTION, RADIOGRAPHY [WELDS]

100-RTFORM-001 | REV 1

MISTRAS Asset Protection Solutions | Services Division

Radiography Examination Report

3985 Teal CT. | Benicia, CA. 94510 | P: (707) 746-5870; F: (707) 746-8664
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Client: JVI - CUSA Richmond CA.
Contact: Ralph Worsham
Location: RIOP T/A
Part/Item No: Dwg# B251262-02A-B
Description: Pkg# DX200-E1 5' 5 CR.
Date: 11-7-11
Page: 1 of 1
~~Mistras~~ Job No: 104329
Purchase Order: 341644

Code/Specification: ASME V		Acceptance Criteria: B31.3		Procedure: 100-RT-001	Technique: ☐ SWE/SWV ☒ DWE/SWV ☐ DWE/DWV
Material Type: 5 CR.	Base Mat'l Thickness: .258	Weld Joint Type: BW	Weld Thickness: .383	Weld Reinforcement: .125	Radiation Source: ☒ Ir 192 ☐ Co 60 ☐ SE 75 ☐ X-Ray
Location Markers: ☐ Source-Side ☒ Film-Side		IQI Type & ID: B W.R	IQI Material: SS	IQI Location: ☐ Source-Side ☒ Film-Side	Focal Spot Size: .196" / Curies/mA-kV: 56
Quality Level: .010"	Shim Material: N/A	Shim Thickness: N/A	Source-Film Distance: 5.208"	Min. Source-Object Distance: 4.875	Max. Source Side of Object-Film Distance: .383
Exposure Time: 20 sec.	Film Mfr. & Type: AGFA D-5	Film Technique: ☒ Single-Load ☐ Multi-Load	Screen Type: PB	Screen Thickness: Front: .010" Back: .010"	No. of Film & Size: 2 @ 4.5" x 10"
Film Viewing: ☒ Single ☐ Composite	Film Processing: ☐ Automatic ☒ Manual: Time (min): 5 m		Developer Temperature: 68°	Comments: AFTER Stress	

Tested Item(s):

ID/Weld No.	View	Original or Repair	Geometric Unsharpness	Accept	Reject	Porosity	Slag/ Inclusions	Lack of Fusion	Incomplete Penetration	Crack	Root Concavity	Root Convexity	Tungsten	Undercut	Weld Contour	Film Artifact	Comments	IQI Density	Weld Density
1149 WS-DPM 5" SCRSTD	1-2	0	.011	✓													Tungsten Removed		

Q410-006-007

Technician, Level & Date	Customer's Signature (if applicable)	Reviewed By (if applicable)
Dave Bennett Level II DPM 11-7-11	[signature]	

CERTIFICATION OF INSPECTION, RADIOGRAPHY [WELDS]

100-RTFORM-001 | REV 1

CUSA-EPA-0007108

MISTRAS Asset Protection Solutions Services Division

Radiography Examination Report

3985 Teal CT. | Benicia, CA. 94510 | P: (707) 746-5870; F: (707) 746-8664 www.mistrasgroup.com

Client: JV 1st CUSA Richmond CA
Contact: Ralph Worsham
Location: R10P F1550
Part/Item No: Dwg# B251262-01
Description: Pkg# DX200-E1
Date: 11-8-11
Page: 1 of 1
Mistras Job No: 104329
Purchase Order:

Code/Specification: ASME V		Acceptance Criteria: B313		Procedure: 100-RT-001	Technique: ☐ SWE/SWV ☑ DWE/SWV ☐ DWE/DWV
Material Type: 5 CR.	Base Mat'l Thickness: .237 / .258	Weld Joint Type: BW	Weld Thickness: .376 / .383	Weld Reinforcement: .191 / .125	Radiation Source: ☑ Ir 192 ☐ Co 60 ☐ SE 75 ☐ X-Ray
Location Markers: ☐ Source-Side ☑ Film-Side		IQI Type & ID: B-Wire	IQI Material: SS	IQI Location: ☐ Source-Side ☑ Film-Side	Focal Spot Size: .196" / Curies/mA-kV: 56
Quality Level: .010"	Shim Material: N/A	Shim Thickness: N/A	Source-Film Distance: 4.782 / 5.563	Min. Source-Object Distance: 4.406 / 5.195	Max. Source Side of Object-Film Distance: .376 / .383
Exposure Time: 13 Sec / 20 Sec	Film Mfr. & Type: AGFA D-5	Film Technique: ☑ Single-Load ☐ Multi-Load	Screen Type: PB	Screen Thickness: Front: .010" Back: .010"	No. of Film & Size
Film Viewing: ☑ Single ☐ Composite	Film Processing: ☐ Automatic ☑ Manual: Time (min): 5		Developer Temperature: 68°	Comments: AFTER STRESS	

Tested Item(s):

ID/Weld No.	View	Original or Repair	Geometric Unsharpness	Accept	Reject	Porosity	Slag/Inclusions	Lack of Fusion	Incomplete Penetration	Crack	Root Concavity	Root Convexity	Tungsten	Undercut	Weld Contour	Film Artifact	Comments	IQI Density	Weld Density
1140 R-1	0-1	R	.012"	✓		✓									✓				3.0
WS-FKG	1-2	R	.012"	✓		✓													3.0
	2-0	R	.012"	✓										✓					3.0
1151 R-1	0-1	R	.011	✓		✓													3.0
WS-FKG	1-2	R	.011	✓		✓													3.0
	2-0	R	.011	✓												✓			3.0
1153 R-1	0-1	R	.012"	✓															3.0
WS-ESO	1-2	R	.012"	✓		✓													3.0
	2-0	R	.012"	✓		✓													3.0

0418-006-007

Technician, Level & Date	Customer's Signature (if applicable)	Reviewed By (if applicable)
Dave Bennett 11-8-2011 [signature] Level II	[signature]	

CERTIFICATION OF INSPECTION, RADIOGRAPHY [WELDS]

100-RTFORM-001 | REV 1