



Our Ref.: NT/103559/18-08

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 Report No: I NDT/RT/180442-01/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Recron (M) Sdn Bhd	Procedure No:	NT/RT/ASME Rev. 7.0
Project :	HTM Piping	IQI type :	ASTM 1B
Material:	Carbon Steel	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME B31.3	Source to Object Distance :	141.3mm
Examination Date:	19 April 2018	Source Side of Object to Film Distance:	(7+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Behind Building								
JT - 100	10	3	141.3	7	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 0	NRI	Accept	
JT - 101	10	3	141.3	7	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 0	Por	Accept	

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Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	Uc: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

Personnel Particulars

Radiographer : Emirsham - NDT Lev. II
 Interpreted & Evaluated By: Amat Hamidi - NDT Lev. II
 Date: 20 April 2018



Client Representative:
 Name:
 Date:



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Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
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Behind Building

JT - 102	10	3	141.3	7	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 0	NRI	Accept	
JT - 81	10	3	141.3	7	0 - 1	NRI	Accept	
					1 - 2	Por	Accept	
					2 - 0	NRI	Accept	

End of Report





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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client : Recron (M) Sdn Bhd Project : HTM Piping Material: Carbon Steel Welding Process : GTAW Examination Code : ASME V Acceptance Code: ASME B31.3 Examination Date: 19 April 2018	Procedure No: NT/RT/ASME Rev. 7.0 IQI type : ASTM 1B Film Manufacturer/Type : FUJI 100(class II) Density : 2.0 - 3.5 Sensitivity: 0.33mm(5 wires visible) Source to Object Distance : 141.3mm Source Side of Object to Film Distance: (7+3)mm No of Radiograph(exposure) : Single Exposure No. of Film Each Cassette : 1 Film Radiographic Technique : DWSI Film Viewing Technique : Single Viewing Source Type/Size : Iridium192 (3.2mm) Location Markers : Film Side
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Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Behind Building								
JT - 83	10	3	141.3	7	0 - 1	Por	Accept	
					1 - 2	Por	Accept	
					2 - 0	Por	Accept	
JT - 85	10	3	141.3	7	0 - 1	Por	Accept	
					1 - 2	Por	Accept	
					2 - 0	Por	Accept	

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Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	Uc : Undercut	Por : Porosity	WT : Weld Thickness
SI : Slag Inclusion	LP : Lack of Penetration	Con : Concavity	BT : Burn Through	RT : Reinforcement Thickness
LF : Lack of Fusion	EP : Excess Penetration	AR : Artifact	Sur : Surface	

Personnel Particulars

Radiographer : Emirsham - NDT Lev. II
 Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II
 Date: 20 April 2018

Client Representative:
 Name:
 Date:





Our Ref. : NT/103559/18-08

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Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Behind Building								
JT - 79	10	3	141.3	7	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 0	NRI	Accept	
JT - 57	10	3	141.3	7	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 0	NRI	Accept	

_____ End of Report _____





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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client : Recron (M) Sdn Bhd	Procedure No: NT/RT/ASME Rev. 7.0
Project : HTM Piping	IQI type : ASTM 1B
Material: Carbon Steel	Film Manufacturer/Type : FUJI 100(class II)
Welding Process : GTAW	Density : 2.0 - 3.5
Examination Code : ASME V	Sensitivity: 0.33mm(5 wires visible)
Acceptance Code: ASME B31.3	Source to Object Distance : 141.3mm
Examination Date: 19 April 2018	Source Side of Object to Film Distance: (7+3)mm
	No of Radiograph(exposure) : Single Exposure
	No. of Film Each Cassette : 1 Film
	Radiographic Technique : DWSI
	Film Viewing Technique : Single Viewing
	Source Type/Size : Iridium192 (3.2mm)
	Location Markers : Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Behind Building								
JT - 80	10	3	141.3	7	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 0	LF	Reject	

_____ End of Report _____

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	Uc : Undercut	Por : Porosity	WT : Weld Thickness
SI : Slag Inclusion	LP : Lack of Penetration	Con : Concavity	BT : Burn Through	RT : Reinforcement Thickness
LF : Lack of Fusion	EP : Excess Penetration	AR : Artifact	Sur : Surface	

Personnel Particulars

Radiographer : Emirsham - NDT Lev. II

Interpreted & Evaluated By: Amat Hamidi - NDT Lev. II

Date: 20 April 2018



Client Representative:

Name:

Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Recron (M) Sdn Bhd	Procedure No:	NT/RT/ASME Rev. 7.0
Project :	HTM Piping	IQI type :	ASTM 1B
Material:	Carbon Steel	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME B31.3	Source to Object Distance :	141.3mm
Examination Date:	19 April 2018	Source Side of Object to Film Distance:	(7+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Behind Building								
JT - 84	10	3	141.3	7	0 - 1	NRI	Accept	
					1 - 2	Por	Accept	
					2 - 0	LF	Reject	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	Uc : Undercut	Por : Porosity	WT : Weld Thickness
SI : Slag Inclusion	LP : Lack of Penetration	Con : Concavity	BT : Burn Through	RT : Reinforcement Thickness
LF : Lack of Fusion	EP : Excess Penetration	AR : Artifact	Sur : Surface	

Personnel Particulars

Radiographer : Emirsham - NDT Lev. II
 Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II
 Date: 20 April 2018



Client Representative:
 Name:
 Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Recron (M) Sdn Bhd	Procedure No:	NT/RT/ASME Rev. 7.0
Project :	HTM Piping	IQI type :	ASTM 1B
Material:	Carbon Steel	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME B31.3	Source to Object Distance :	141.3mm
Examination Date:	19 April 2018	Source Side of Object to Film Distance:	(7+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Behind Building								
JT - 56	10	3	141.3	7	0 - 1	LF / Por		Reject
					1 - 2	NRI		Accept
					2 - 0	Por		Accept

End of Report

Legend:

TI - Tungsten Inclusion	NRI - No Relevant Indication	Uc - Undercut	Por - Porosity	WT - Weld Thickness
SI - Slag Inclusion	LP - Lack of Penetration	Con - Concavity	BT - Burn Through	RT - Reinforcement Thickness
LF - Lack of Fusion	EP - Excess Penetration	AR - Artifact	Sur - Surface	

Personnel Particulars

Radiographer : Emirsham - NDT Lev. II
 Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II
 Date: 20 April 2018



Client Representative:
 Name:
 Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Recron (M) Sdn Bhd	Procedure No:	NT/RT/ASME Rev. 7.0
Project :	HTM Piping	IQI type :	ASTM 1B
Material:	Carbon Steel	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME B31.3	Source to Object Distance :	141.3mm
Examination Date:	19 April 2018	Source Side of Object to Film Distance:	(7+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Behind Building								
JT - 103	10	3	141.3	7	0 - 1	Por	Reject	
					1 - 2	Por	Accept	
					2 - 0	Por	Reject	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	Uc: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

Personnel Particulars

Radiographer : Emirsham - NDT Lev. II

Client Representative:

Interpreted & Evaluated By: Amat Hamidi - NDT Lev. II

Name:

Date: 20 April 2018

Date:





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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Recron (M) Sdn Bhd	Procedure No:	NT/RT/ASME Rev. 7.0
Project :	HTM Piping	IQI type :	ASTM 1B
Material:	Carbon Steel	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME B31.3	Source to Object Distance :	141.3mm
Examination Date:	19 April 2018	Source Side of Object to Film Distance:	(7+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Behind Building								
JT - 82	10	3	141.3	7	0 - 1	NRI	Accept	
					1 - 2	Inc	Reject	
					2 - 0	Por	Accept	

End of Report

Legend:

Ti - Tungsten Inclusion	NRI: No Relevant Indication	Uo: Undercut	Por: Porosity	WT: Weld Thickness
SI - Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

Personnel Particulars

Radiographer : Emirsham - NDT Lev. II
 Interpreted & Evaluated By: Amat Hamidi - NDT Lev. II
 Date: 20 April 2018



Client Representative:
 Name:
 Date:



Our Ref. : NT/103559/18-08

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client : Recron (M) Sdn Bhd Project : HTM Piping Material: Carbon Steel Welding Process : GTAW Examination Code : ASME V Acceptance Code: ASME B31.3 Examination Date: 19 April 2018	Procedure No: NT/RT/ASME Rev. 7.0 IQI type : ASTM 1B Film Manufacturer/Type : FUJI 100(class II) Density : 2.0 - 3.5 Sensitivity: 0.33mm(5 wires visible) Source to Object Distance : 219.1mm Source Side of Object to Film Distance: (7+3)mm No of Radiograph(exposure) : Single Exposure No. of Film Each Cassette : 1 Film Radiographic Technique : DWSI Film Viewing Technique : Single Viewing Source Type/Size : Iridium192 (3.2mm) Location Markers : Film Side
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Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Behind Building								
JT - 112	10	3	219.1	7	0 - 1	Por	Reject	
					1 - 2	LF	Reject	
					2 - 0	LF	Reject	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	Uc: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

Personnel Particulars

Radiographer : Emirsham - NDT Lev. II
 Interpreted & Evaluated By: Amat Hamidi - NDT Lev. II
 Date: 20 April 2018



Client Representative:
 Name:
 Date: