



Our Ref.: NT/103382/18-07

Page No: 1 of 1
 Report No: BFTT/RT-44/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	Petronas Chemicals Polyethylene Sdn Bhd	IQI type :	ASTM 1B
Job No:	Fabrication Of Moisture And Alcohol Removal.	Film Manufacturer/Type :	FUJI 100/class II
Material:	BFTT 17-634	Density :	2.0 - 4.0
	SA 516 GR 70N	Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	1000mm
		Source Side of Object to Film Distance:	(31.80+3)mm
Welding Process :	GTAW / SMAW / SAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	04 April 2018	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
PE-0-D-902A								
CS - 4 RS (WN090/078)	34.8	3	2000	31.8	3 - 4	NRI	Accept	AR

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

Date:

05 April 2018



Name:

Date:



Our Ref. : NT/103382/18-07

Page No: 1 of 1
 Report No: BFTT/RT-46/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	Petronas Chemicals Polyethylene Sdn Bhd Fabrication Of Moisture And Alcohol Removal.	IQI type :	ASTM 1B
Job No:	BFTT 17-634	Film Manufacturer/Type :	FUJI 100/class II
Material:	SA 516 GR 70N	Density :	2.0 - 4.0
Welding Process :	SMAW	Sensitivity:	0.33mm(5 wires visible)
Examination Code :	ASME V	Source to Object Distance :	1000mm
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	Source Side of Object to Film Distance:	(31.80+3)mm
Examination Date:	04 April 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall 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
PE-0-D-902B								
CS - 4 R1 (WN216)	34.8	3	2000	31.8	11 - 12	NRI	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: 05 April 2018



Client Representative: _____

Name: _____

Date: _____



NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

No. 5, Jalan Anggerik Mokara 31/45, Seksyen 31, Kota Kemuning, 40460 Shah Alam, Selangor Darul Ehsan, Malaysia.

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Our Ref. : NT/103382/18-07

Page No: 1 of 1

Report No: BFTT/RT-45/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	Petronas Chemicals Polyethylene Sdn Bhd	IQI type :	ASTM 1B
	Fabrication Of Moisture And Alcohol Removal.	Film Manufacturer/Type :	FUJI 100/class II
Job No:	BFTT 17-634	Density :	2.0 - 4.0
Material:	SA 516 GR 70N	Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	1000mm
		Source Side of Object to Film Distance:	(31.80+3)mm
Welding Process :	GTAW / SMAW / SAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	04 April 2018	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
PE-0-D-902B								
CS - 4 RS (WN007/216)	34.8	3	2000	31.8	5 - 6 7 - 8 19 - 20	NRI NRI Por	Accept Accept Accept	AR AR

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: 05 April 2018

Client Representative:

Name:

Date:





NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

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Our Ref.: NT/103382/18-07

Page No: 1 of 1

Report No: BFTT/RT-47/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	Petronas Chemicals Polyethylene Sdn Bhd	IQI type :	ASTM 1B
Job No:	BFTT 17-634	Film Manufacturer/Type :	FUJI 100/class II
Material:	SA 516 GR 70N	Density :	2.0 - 4.0
Welding Process :	SMAW / SAW	Sensitivity:	0.33mm(5 wires visible)
Examination Code :	ASME V	Source to Object Distance :	400mm
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	Source Side of Object to Film Distance:	(31.80+3)mm
Examination Date:	04 April 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall 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
PE-0-D-902B								
PTP - LS1 (WN216)	34.8	3	-	31.8	0 - 1 1 - 2	NRI NRI	Accept 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

Client Representative:

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

Name:

Date: 05 April 2018

Date:





NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

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Our Ref. : NT/103382/18-07

Page No: 1 of 1

Report No: BFTT/RT-48/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	Petronas Chemicals Polyethylene Sdn Bhd Fabrication Of Moisture And Alcohol Removal.	IQI type :	ASTM 1B
Job No:	BFTT 17-634	Film Manufacturer/Type :	FUJI 100/class II
Material:	SA 516 GR 70N	Density :	2.0 - 4.0
Welding Process :	GTAW / SMAW / SAW	Sensitivity:	0.33mm(5 wires visible)
Examination Code :	ASME V	Source to Object Distance :	400mm
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	Source Side of Object to Film Distance:	(31.80+3)mm
Examination Date:	04 April 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall 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
PE-0-D-902B								
PTP - CS4 (WN007/216)	34.8	3	-	31.8	0 - 1 1 - 2	NRI NRI	Accept 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: 05 April 2018



Client Representative:

Name:
Date:



Our Ref.: NT/103382/18-07

Page No: 1 of 1
 Report No: BFTT/RT-49/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	Petronas Chemicals Polyethylene Sdn Bhd	IQI type :	ASTM 1B
Job No:	BFTT 17-634	Film Manufacturer/Type :	FUJI 100/class II
Material:	SA 516 GR 70N	Density :	2.0 - 4.0
Welding Process :	SMAW / SAW	Sensitivity:	0.33mm(5 wires visible)
Examination Code :	ASME V	Source to Object Distance :	400mm
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	Source Side of Object to Film Distance:	(31.80+3)mm
Examination Date:	04 April 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall 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)				
PE-0-D-902A								
PTP - LS1 (WN216)	34.8	3	-	31.8	0 - 1 1 - 2	NRI NRI	Accept 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

Client Representative:

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

Name:

Date: 05 April 2018

Date:





Our Ref.: NT/103382/18-07

Page No: 1 of 1
 Report No: BFTT/RT-50/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	Petronas Chemicals Polyethylene Sdn Bhd Fabrication Of Moisture And Alcohol Removal.	IQI type :	ASTM 1B
Job No:	BFTT 17-634	Film Manufacturer/Type :	FUJI 100/class II
Material:	SA 516 GR 70N	Density :	2.0 - 4.0
Welding Process :	GTAW / SMAW / SAW	Sensitivity:	0.33mm(5 wires visible)
Examination Code :	ASME V	Source to Object Distance :	400mm
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	Source Side of Object to Film Distance:	(31.80+3)mm
Examination Date:	04 April 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall 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
PE-0-D-902A								
PTP - CS4 (WN090/078)	34.8	3	—	31.8	0 - 1 1 - 2	NRI NRI	Accept 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

Client Representative:

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

Name:

Date: 05 April 2018

Date:

