



Our Ref.: NT/103530/18-06

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 Report No: BFTT/RT-92/18

## 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:	(31.8+3)mm
Welding Process :	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:	16 April 2018	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 APWHT								
CS - 1 RS (WN216)	34.8	3	2000	31.8	22 - 0	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

Client Representative:

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

Name:

Date: 17 April 2018

Date:





### 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:	(31.8+3)mm
Welding Process :	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:	16 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 APWHT								
CS - 2 RS (WN216)	34.8	3	2000	31.8	6 - 7	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

Client Representative:

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

Date: 17 April 2018

Name:

Date:





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## 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 :	1000mm
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	Source Side of Object to Film Distance:	(31.8+3)mm
Examination Date:	16 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 APWHT								
CS - 3 RS (WN216)	34.8	3	2000	31.8	2 - 3	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

Client Representative:

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

Name:

Date: 17 April 2018

Date:





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## 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 / SAW	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:	(31.8+3)mm
Examination Date:	16 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 APWHT								
CS - 1 RS (WN216)	34.8	3	2000	31.8	19 - 20	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

Client Representative:

Interpreted & Evaluated By: Amat Hamidi - NDT Lev II

Date: 17 April 2018

Name:  
Date:





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## 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 :	1000mm
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	Source Side of Object to Film Distance:	(31.8+3)mm
Examination Date:	16 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





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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

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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)
Welding Process :	SMAW / SAW	Source to Object Distance :	1000mm
Examination Code :	ASME V	Source Side of Object to Film Distance:	(31.8+3)mm
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	No of Radiograph(exposure) :	Single Exposure
Examination Date:	16 April 2018	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-902B APWHT								
CS - 2 RS (WN216)	34.8	3	2000	31.8	4 - 5	NRI	Accept	

\_\_\_\_\_ End Of Report \_\_\_\_\_

#### Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	Uc : Undercut	Por : Porosity	WT : Weld Thickness
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### Personnel Particulars

Radiographer : Emirsham - NDT Lev. II

Client Representative:

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

Name:

Date: 17 April 2018

Date:





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## 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 / SAW	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:	(31.8+3)mm
Examination Date:	16 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 APWHT								
CS - 3 RS (WN216)	34.8	3	2000	31.8	9 - 10	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

Client Representative:

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

Date: 17 April 2018

Name:

Date:

