



NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

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

Tel: 03-5122 9766/7/8 Fax: 03-5122 8766/7 E-mail: info@nusatek.com

Our Ref. : NT/103121/18-04

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Report No: BFTT/RT-24/18

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:	01 March 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 :	Source 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								
LS - 3 (WN216)	34.8	3	-	31.8	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 3	NRI	Accept	
					3 - 4	NRI	Accept	
					4 - 5	NRI	Accept	
					5 - 6	NRI	Accept	
					6 - 7	NRI	Accept	
					7 - 8	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: 02 March 2018

Client Representative:

Name:

Date:





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 Report No: BFTT/RT-25/18

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 / 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:	(31.80+3)mm
Examination Date:	01 March 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 :	Source 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								
CS - 2 (WN216)	34.8	3	2000	31.8	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 3	NRI	Accept	
					3 - 4	NRI	Accept	
					4 - 5	NRI	Accept	
					5 - 6	NRI	Accept	
					6 - 7	NRI	Accept	
					7 - 8	NRI	Accept	
					8 - 9	NRI	Accept	
					9 - 10	NRI	Accept	

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Personnel Particulars

Radiographer : Emirsham - NDT Lev. II

Client Representative:

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

Name:

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Job No: BFTT 17-634

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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
PE-0-D-902B								
CS - 2 (WN216)	34.8	3	2000	31.8	10 - 11	Por	Accept	
					11 - 12	NRI	Accept	
					12 - 13	NRI	Accept	
					13 - 14	NRI	Accept	
					14 - 15	NRI	Accept	
					15 - 16	NRI	Accept	
					16 - 17	NRI	Accept	
					17 - 18	NRI	Accept	
					18 - 19	NRI	Accept	
					19 - 20	NRI	Accept	
					20 - 21	NRI	Accept	
					21 - 22	NRI	Accept	
					22 - 0	NRI	Accept	

End Of Report





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Report No: BFTT/RT-26/18

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 :	1000mm
Acceptance Code:	ASME Sec VIII Div.2 2015 Ed.	Source Side of Object to Film Distance:	(31.80+3)mm
Examination Date:	01 March 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 :	Source 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 - 3 (WN216)	34.8	3	2000	31.8	0 - 1	Inc	Reject	
					1 - 2	NRI	Accept	
					2 - 3	NRI	Accept	AR
					3 - 4	NRI	Accept	
					4 - 5	NRI	Accept	
					5 - 6	NRI	Accept	
					6 - 7	NRI	Accept	
					7 - 8	NRI	Accept	
					8 - 9	NRI	Accept	
					9 - 10	NRI	Accept	

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

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Name:

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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
PE-0-D-902B								
CS - 3 (WN216)	34.8	3	2000	31.8	10 - 11	NRI	Accept	
					11 - 12	NRI	Accept	
					12 - 13	NRI	Accept	
					13 - 14	NRI	Accept	
					14 - 15	NRI	Accept	
					15 - 16	NRI	Accept	
					16 - 17	Por / Inc	Reject	
					17 - 18	Inc	Reject	
					18 - 19	NRI	Accept	
					19 - 20	NRI	Accept	
					20 - 21	NRI	Accept	
					21 - 22	NRI	Accept	
22 - 0	NRI	Accept						

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		Location Markers :	Source 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 - 1 (WN216)	34.8	3	2000	31.8	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 3	NRI	Accept	
					3 - 4	NRI	Accept	
					4 - 5	NRI	Accept	
					5 - 6	NRI	Accept	
					6 - 7	NRI	Accept	
					7 - 8	Inc	Reject	
					8 - 9	NRI	Accept	
					9 - 10	Inc	Reject	

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					13 - 14	NRI	Accept	
					14 - 15	NRI	Accept	
					15 - 16	NRI	Accept	
					16 - 17	NRI	Accept	
					17 - 18	NRI	Accept	
					18 - 19	NRI	Accept	
					19 - 20	NRI	Accept	
					20 - 21	Inc	Reject	
					21 - 22	NRI	Accept	
					22 - 0	NRI	Accept	

End Of Report

