



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

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Report No: BFTT/RT-10/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client : Bukit Fraser Thermal Technology Sdn Bhd
Project : Petronas Chemicals Polyethylene Sdn.Bhd.
Fabricate Heat Exchanger Shell Part.

Procedure No: NT/RT/ASME Rev 7.0
IQI type : ASTM 1B
Film Manufacturer/Type : FUJI 100/class II
Density : 2.0 - 4.0
Sensitivity: 0.33mm(5 wires visible)
Source to Object Distance : 402.5mm
Source Side of Object to Film Distance: (12.7+3)mm
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

Job No: BFTT 18-664
Material: SA 516 GR 70

Welding Process : GTAW / SMAW / SAW
Examination Code : ASME V
Acceptance Code: ASME Sect. VIII Div.1 2017 Ed.

Examination Date: 21 May 2018

Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
PE-1-E-844								
CS-1								
Spot - 1 (WN-007/216)	15.7	3	805	12.7	0 - 1	NRI	Accept	
Spot - 2 (WN-007/216)	15.7	3	805	12.7	0 - 1	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

Client Representative:

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

Name:

Date: 22 May 2018

Date:





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 Report No: BFTT/RT-11/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Petronas Chemicals Polyethylene Sdn.Bhd. Fabricate Heat Exchanger Shell Part.	IQI type :	ASTM 1B
Job No:	BFTT 18-664	Film Manufacturer/Type :	FUJI 100/class II
Material:	SA 516 GR 70 / SA 266 GR 2	Density :	2.0 - 4.0
Welding Process :	GTAW / SMAW / SAW	Sensitivity:	0.33mm(5 wires visible)
Examination Code :	ASME V	Source to Object Distance :	402.5mm
Acceptance Code:	ASME Sect. VIII Div.1 2017 Ed.	Source Side of Object to Film Distance:	(12.7+3)mm
Examination Date:	21 May 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 :	Iridium 192 (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-1-E-844								
CS-4								
Spot - 1 (WN-007/216)	15.7	3	805	12.7	0 - 1	Por	Accept	
Spot - 2 (WN-007/216)	15.7	3	805	12.7	0 - 1	NRI	Accept	AR

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: 22 May 2018

Date:

