



Our Ref.: NT/103836/18-06

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Report No: BFTT/RT-42/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/G/RT/BS EN Rev 1.0
Project :	VH Boiler And Energy System Sdn Bhd . / PT.Austindo Nusantara Jaya 35,000 KG / HR Boiler.	IQI type :	DIN FE 10-16
Job No:	BFTT 17-651	Film Manufacturer/Type :	FUJII 100/class II
Material:	BS 3059 PT.2 GR.620	Density :	2.0 - 4.0
Welding Process :	TIGW	Sensitivity:	0.32mm(Wire No.11)
Examination Code :	BS 1435	Source to Object Distance :	400mm
Acceptance Code:	BS 1113:1999	Source Side of Object to Film Distance:	(50.8)mm
Examination Date:	09 June 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWDI
		Film Viewing Technique :	Double 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)				
<b>SE Tubes</b>								
SE-17-JT.1 (WN-216)	6.6	3	50.8	3.6	X	NRI	Accept	
					Y	NRI	Accept	
SE-17-JT.2 (WN-216)	6.6	3	50.8	3.6	X	NRI	Accept	
					Y	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: 10 June 2018



Client Representative:

Name:

Date:



NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

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### RADIOGRAPHIC EXAMINATION REPORT

#### Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/G/RT/BS EN Rev 1.0
Project :	VH Boiler And Energy System Sdn Bhd . / PT.Austindo Nusantara Jaya 35,000 KG / HR Boiler.	IQI type :	DIN FE 10 16
Job No:	BFTT 17-651	Film Manufacturer/Type :	FUJI 100/class II
Material:	BS 3059 PT.2 GR.620	Density :	2.0 - 4.0
Welding Process :	TIGW	Sensitivity:	0.32mm(Wire No.11)
Examination Code :	BS 1435	Source to Object Distance :	400mm
Acceptance Code:	BS 1113:1999	Source Side of Object to Film Distance:	(50.8)mm
Examination Date:	09 June 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWDI
		Film Viewing Technique :	Double 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
SE Tubes								
SE-19-JT.1 (WN-216)	6.6	3	50.8	3.6	X Y	NRI NRI	Accept Accept	
SE-19-JT.2 (WN-216)	6.6	3	50.8	3.6	X Y	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: 10 June 2018



Client Representative:

Name:  
Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/G/RT/BS EN Rev 1.0
Project :	VH Boiler And Energy System Sdn Bhd . / PT.Austindo Nusantara Jaya 35,000 KG / HR Boiler.	IQI type :	DIN FE 10-16
Job No:	BFTT 17-651	Film Manufacturer/Type :	FUJI 100/class II
Material:	BS 3059 PT.2 GR.620	Density :	2.0 - 4.0
Welding Process :	TIGW	Sensitivity:	0.32mm(Wire No.11)
Examination Code :	BS 1435	Source to Object Distance :	400mm
Acceptance Code:	BS 1113:1999	Source Side of Object to Film Distance:	(50.8)mm
Examination Date:	09 June 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWDI
		Film Viewing Technique :	Double 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
SE Tubes								
SE-20-JT.1 (WN-216)	6.6	3	50.8	3.6	X Y	NRI NRI	Accept Accept	
SE-20-JT.2 (WN-216)	6.6	3	50.8	3.6	X Y	NRI NRI	Accept 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: 10 June 2018

Client Representative:

Name:  
Date:





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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/G/RT/BS EN Rev 1.0
Project :	VH Boiler And Energy System Sdn Bhd . / PT.Auelindo Nusantara Jaya 35,000 KG / HR Boiler.	IQI type :	DIN FE 10-16
Job No:	BFTT 17-651	Film Manufacturer/Type :	FUJI 100/class II
Material:	BS 3059 PT.2 GR.620	Density :	2.0 - 4.0
Welding Process :	TIGW	Sensitivity:	0.32mm(Wire No.11)
Examination Code :	BS 1435	Source to Object Distance :	400mm
Acceptance Code:	BS 1113:1999	Source Side of Object to Film Distance:	(50.8)mm
Examination Date:	09 June 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWDI
		Film Viewing Technique :	Double Wali 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
SE Tubes								
SE-22-JT.1 (WN-216)	6.6	3	50.8	3.6	X Y	NRI NRI	Accept Accept	
SE-22-JT.2 (WN-216)	6.6	3	50.8	3.6	X Y	NRI NRI	Accept 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: Amal Hamidi - NDT Lev.II

Date: 10 June 2018



Client Representative:

Name:

Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/G/RT/BS EN Rev 1.0
Project :	VH Boiler And Energy System Sdn Bhd . / PT.Austindo Nusantara Jaya 35,000 KG / HR Boiler.	IQI type :	DIN FE 10-16
Job No:	BFTT 17-651	Film Manufacturer/Type :	FUJI 100/class II
Material:	BS 3059 PT.2 GR.620	Density :	2.0 - 4.0
Welding Process :	TIGW	Sensitivity:	0.32mm(Wire No.11)
Examination Code :	BS 1435	Source to Object Distance :	400mm
Acceptance Code:	BS 1113:1999	Source Side of Object to Film Distance:	(50.8)mm
Examination Date:	09 June 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWDI
		Film Viewing Technique :	Double 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
SE Tubes								
SE-25-JT.1 (WN-216)	6.6	3	50.8	3.6	X Y	NRI NRI	Accept Accept	
SE-25-JT.2 (WN-216)	6.6	3	50.8	3.6	X Y	Por 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: 10 June 2018



Client Representative:

Name:

Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Bukit Fraser Thermal Technology Sdn Bhd	Procedure No:	NT/G/RT/BS EN Rev 1.0
Project :	VH Boiler And Energy System Sdn Bhd . / PT.Austindo Nusantara Jaya 35,000 KG / HR Boiler.	IQI type :	DIN FE 10-16
Job No:	BFTT 17-651	Film Manufacturer/Type :	FUJI 100/class II
Material:	BS 3059 PT.2 GR.620	Density :	2.0 - 4.0
Welding Process :	TIGW	Sensitivity:	0.32mm(Wire No.11)
Examination Code :	BS 1435	Source to Object Distance :	400mm
Acceptance Code:	BS 1113:1999	Source Side of Object to Film Distance:	(50.8)mm
Examination Date:	09 June 2018	No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWDI
		Film Viewing Technique :	Double 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
SE Tubes								
SE-26-JT.1 (WN-216)	6.6	3	50.8	3.6	X Y	NRI NRI	Accept Accept	
SE-26-JT.2 (WN-216)	6.6	3	50.8	3.6	X Y	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: 10 June 2018



Client Representative:

Name:  
Date: