



Our Ref.: NT/103309/18-08

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 Report No: NDT/RT/180249-01/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Causeway Iron Works Sdn. Bhd.	Procedure No:	NT/G/RT/AWS Rev. 2.0
Project :	WPS/FCAW/01	IQI type :	ASTM 1B
Material:	BS EN 10025 S 275 JR	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	FCAW	Density :	2.0-3.5
Examination Code :	AWS D1.1	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	AWS D1.1 : 2015	Source to Object Distance :	400mm
Examination Date:	30 March 2018	Source Side of Object to Film Distance:	(25+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

### Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Md. Mehar Ali F 0118746 4G	28	3	-	25	0 - 1	NRI	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: 31 March 2018



Client Representative:  
 Name:  
 Date:



# NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

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Report No: NDT/RT/180249-02/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Causeway Iron Works Sdn. Bhd.	Procedure No:	NT/G/RT/AWS Rev. 2.0
Project :	WPS/SMAW/01	IQI type :	ASTM 1B
Material:	BS EN 10025 S 275 JR	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	SMAW	Density :	2.0-3.5
Examination Code :	AWS D1.1	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	AWS D1.1 : 2015	Source to Object Distance :	400mm
Examination Date:	30 March 2018	Source Side of Object to Film Distance:	(25+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

### Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Soe Ko Ko MB 271207 4G	28	3	-	25	0 - 1	SI / Por	Reject	

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: 31 March 2018



Client Representative:

Name:  
Date:



# NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Causeway Iron Works Sdn. Bhd.	Procedure No:	NT/G/RT/AWS Rev. 2.0
Project :	WPS/FCAW/01	IQI type :	ASTM 1B
Material:	BS EN 10025 S 275 JR	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	FCAW	Density :	2.0-3.5
Examination Code :	AWS D1.1	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	AWS D1.1 : 2015	Source to Object Distance :	400mm
Examination Date:	30 March 2018	Source Side of Object to Film Distance:	(25+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

### Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Jamal Munshi F 0108407 4G	28	3	—	25	0 - 1	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: 31 March 2018



Name:

Date:



Our Ref. : NT/103309/18-08

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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Causeway Iron Works Sdn. Bhd.	Procedure No:	NT/G/RT/AWS Rev. 2.0
Project :	WPS/FCAW/01	IQI type :	ASTM 1B
Material:	BS EN 10025 S 275 JR	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	FCAW	Density :	2.0-3.5
Examination Code :	AWS D1.1	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	AWS D1.1 : 2015	Source to Object Distance :	400mm
Examination Date:	30 March 2018	Source Side of Object to Film Distance:	(25+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

### Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Jamal Munshi F 0108407 3G	28	3	-	25	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  
 Interpreted & Evaluated By: Amat Hamidi - NDT Lev. II  
 Date: 31 March 2018



Client Representative:  
 Name:  
 Date:



**NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)**

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**RADIOGRAPHIC EXAMINATION REPORT**

**Client and Testing Particulars**

Client :	Causeway Iron Works Sdn. Bhd.	Procedure No:	NT/G/RT/AWS Rev. 2.0
Project :	WPS/SMAW/01	IQI type :	ASTM 1B
Material:	BS EN 10025 S 275 JR	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	SMAW	Density :	2.0-3.5
Examination Code :	AWS D1.1	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	AWS D1.1 : 2015	Source to Object Distance :	400mm
Examination Date:	30 March 2018	Source Side of Object to Film Distance:	(25+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

**Radiographic Examination Result**

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Jamal Munshi F 0108407 3G	28	3	—	25	0 - 1	Por	Reject	

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: 31 March 2018

Client Representative:

Name:  
Date:





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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Causeway Iron Works Sdn. Bhd.	Procedure No:	NT/G/RT/AWS Rev. 2.0
Project :	WPS/FCAW/01	IQI type :	ASTM 1B
Material:	BS EN 10025 S 275 JR	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	FCAW	Density :	2.0-3.5
Examination Code :	AWS D1.1	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	AWS D1.1 : 2015	Source to Object Distance :	400mm
Examination Date:	30 March 2018	Source Side of Object to Film Distance:	(25+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

### Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Md Mehar Ali F 0118746 3G	28	3	—	25	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

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

Date: 31 March 2018



Client Representative:

Name:  
Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Causeway Iron Works Sdn. Bhd.	Procedure No:	NT/G/RT/AWS Rev. 2.0
Project :	WPS/SMAW/01	IQI type :	ASTM 1B
Material:	BS EN 10025 S 275 JR	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	SMAW	Density :	2.0-3.5
Examination Code :	AWS D1.1	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	AWS D1.1 : 2015	Source to Object Distance :	400mm
Examination Date:	30 March 2018	Source Side of Object to Film Distance:	(25+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

### Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Soe Ko Ko MB 271207 3G	28	3	—	25	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

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

Date: 31 March 2018



Client Representative:

Name:

Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Causeway Iron Works Sdn. Bhd.	Procedure No:	NT/G/RT/AWS Rev. 2.0
Project :	WPS/SAW/01	IQI type :	ASTM 1B
Material:	BS EN 10025 S 275 JR	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	SAW	Density :	2.0-3.5
Examination Code :	AWS D1.1	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	AWS D1.1 : 2015	Source to Object Distance :	400mm
Examination Date:	30 March 2018	Source Side of Object to Film Distance:	(25+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

### Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Soe Ko Ko MB 271207 1G	28	3	-	25	0 - 1 1 - 2 2 - 3	Por SI NRI	Accept Reject 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: 31 March 2018



Client Representative:  
 Name:  
 Date: