



# 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/103385/18-10

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Report No: NDT/RT/180324-01/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Seremban Engineering Berhad	Procedure No:	NT/RT/ASME REV 7.0
Project :	17/01567PNKT Disperser Tank	IQI type :	ASTM 1B
Material:	SA 240 Gr 316L	Film Manufacturer/Type :	FUJI 50(class I)
Welding Process :	GTAW / FCAW	Density :	2.0-3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME Sect. VIII Div.1 : 2017 Ed.	Source to Object Distance :	400mm
Examination Date:	04 April 2018	Source Side of Object to Film Distance:	(12+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
TK/11/215/006/01/Tank1								
SCS 2 (WN-75/192)	15	3	—	12	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	Sur	Accept	
					8 - 9	NRI	Accept	
					9 - 10	NRI	Accept	

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### 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: 05 April 2018



Client Representative:

Name:

Date:



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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
TK/11/215/006/01/Tank1								
SCS 2 (WN-75/192)	15	3	-	12	10 - 11	Sur	Accept	Visual
					11 - 12	R/Uc		
					12 - 13	NRI		
					13 - 14	NRI		
					14 - 15	NRI		
					15 - 16	Sur		
					16 - 17	NRI		
					17 - 18	NRI		
					18 - 19	NRI		
					19 - 20	NRI		
					20 - 21	Por		
					21 - 22	NRI		
					22 - 23	NRI		
23 - 24	NRI							
24 - 25	NRI							
25 - 26	NRI							
26 - 0	NRI							

End of Report





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Our Ref.: NT/103385/18-10

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Report No: NDT/RT/180324-02/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Seremban Engineering Berhad	Procedure No:	NT/RT/ASME REV 7.0
Project :	Welder Qualification Test SEB/FCAW/ASME/WPS/077 Rev.0	IQI type :	ASTM 1B
Material:	BS EN S275JR To BS EN S275JR	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	FCAW	Density :	2.0-3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME Sec. IX ; 2017 Ed.	Source to Object Distance :	400mm
Examination Date:	04 April 2018	Source Side of Object to Film Distance:	(15+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	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Ahgemi Hassan 720730-05-5093 WN-192 3G	18	3	-	15	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

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

Date: 05 April 2018



Client Representative:

Name:  
Date:



Our Ref.: NT/103385/18-10

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 Report No: NDT/RT/180324-03/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Seremban Engineering Berhad	Procedure No:	NT/RT/ASME REV 7.0
Project :	Welder Qualification Test SEB/FCAW/ASME/WPS/076 Rev.0	IQI type :	ASTM 1B
Material:	BS EN S275JR To SA 240 TP 304L	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	FCAW	Density :	2.0-3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME Sec. IX ; 2017 Ed.	Source to Object Distance :	400mm
Examination Date:	04 April 2018	Source Side of Object to Film Distance:	(15+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	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Ahgem Hassan 720730-05-5093 WN-192 1G	18	3	-	15	0 - 1	Por / Sur	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: 05 April 2018



Client Representative:

Name: \_\_\_\_\_

Date: \_\_\_\_\_



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Report No: NDT/RT/180324-04/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Seremban Engineering Berhad	Procedure No:	NT/RT/ASME REV 7.0
Project :	Welder Qualification Test SEB/FCAW/ASME/WPS/076 Rev.0	IQI type :	ASTM 1B
Material:	BS EN S275JR To SA 240 TP 304L	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	FCAW	Density :	2.0-3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME Sec. IX ; 2017 Ed.	Source to Object Distance :	400mm
Examination Date:	04 April 2018	Source Side of Object to Film Distance:	(15+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	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Loong Boh Choy 751204-05-5255 WN-008 1G	18	3	-	15	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  
 Interpreted & Evaluated By: Amat Hamidi - NDT Lev. II  
 Date: 05 April 2018



Client Representative:  
 Name:  
 Date:



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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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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Seremban Engineering Berhad	Procedure No:	NT/RT/ASME REV 7.0
Project :	Welder Qualification Test SEB/FCAW/ASME/WPS/077 Rev.0	IQI type :	ASTM 1B
Material:	BS EN S275JR To BS EN S275JR	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	FCAW	Density :	2.0-3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME Sec. IX ; 2017 Ed.	Source to Object Distance :	400mm
Examination Date:	04 April 2018	Source Side of Object to Film Distance:	(15+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	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Loong Boh Choy 751204-05-5255 WN-008 3G	18	3	-	15	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: 05 April 2018



Client Representative:

Name:  
Date:



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### RADIOGRAPHIC EXAMINATION REPORT

#### Client and Testing Particulars

Client :	Seremban Engineering Berhad	Procedure No:	NT/RT/ASME REV 7.0
Project :	Welder Qualification Test SEB/SAWWPS/045	IQI type :	ASTM 1B
Material:	SA 240 TP304L To SA 240 TP304L	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	SAW	Density :	2.0-3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME Sec. IX ; 2017 Ed.	Source to Object Distance :	400mm
Examination Date:	04 April 2018	Source Side of Object to Film Distance:	(23+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	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Nor Hisam Mudin Ibrahim 660525-05-5551 WN-193 1G	26	3	—	23	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	AR

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: 05 April 2018



Client Representative:

Name:

Date:



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

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Report No: NDT/RT/180324-07/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Seremban Engineering Berhad	Procedure No:	NT/RT/ASME REV 7.0
Project :	Welder Qualification Test SESB/FCAW/WPS/005 Rev.1	IQI type :	ASTM 1B
Material:	SA 240 TP304L To SA 240 TP304L	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	FCAW	Density :	2.0-3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME Sec. IX ; 2017 Ed.	Source to Object Distance :	400mm
Examination Date:	04 April 2018	Source Side of Object to Film Distance:	(15+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	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Md Mustofa BP 0680071 WN-191 1G	18	3	--	15	0 - 1	Por	Reject	

End of Report

#### Legend:

Ti: Tungsten Inclusion	NRI: No Relevant Indication	Uc: Undercut	Por: Porosity	WT: Weld Thickness
Sl: 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: 05 April 2018



Client Representative:

Name:  
Date:



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

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Report No: NDT/RT/180324-08/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Seremban Engineering Berhad	Procedure No:	NT/RT/ASME REV 7.0
Project :	Welder Qualification Test SEB/FCAW/ASME/WPS/076 Rev.0	IQI type :	ASTM 1B
Material:	BS EN S275JR To SA 240 TP304L	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	FCAW	Density :	2.0-3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME Sec. IX ; 2017 Ed.	Source to Object Distance :	400mm
Examination Date:	04 April 2018	Source Side of Object to Film Distance:	(15+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	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Muhtarom Bin Ibrahim 710618-71-5101 WN-045 1G	18	3	-	15	0 - 1	SI	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: 05 April 2018



Client Representative:

Name:  
Date:



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Our Ref.: NT/103385/18-10

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Report No: NDT/RT/180324-09/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Seremban Engineering Berhad	Procedure No:	NT/RT/ASME REV 7.0
Project :	Welder Qualification Test SE-95-01	IQI type :	ASTM 1A
Material:	SA 106 GR.B	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW	Density :	2.0-3.5
Examination Code :	ASME V	Sensitivity:	0.20mm(2 wires visible)
Acceptance Code:	ASME Sec. IX ; 2017 Ed.	Source to Object Distance :	400mm
Examination Date:	04 April 2018	Source Side of Object to Film Distance:	(60.3)mm
		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	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Ujang Anak Bajau 761010-13-6935	8.54	3	60.3	5.54	X	NRI	Accept	
WN-201					Y	NRI	Accept	
6G								

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: 05 April 2018



Client Representative:

Name:  
Date:



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Report No: NDT/RT/180324-10/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Seremban Engineering Berhad	Procedure No:	NT/RT/ASME REV 7.0
Project :	Welder Qualification Test SE-94-02 Rev.2	IQI type :	ASTM 1A
Material:	SA 312 TP 304L	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW	Density :	2.0-3.5
Examination Code :	ASME V	Sensitivity:	0.20mm(2 wires visible)
Acceptance Code:	ASME Sec. IX ; 2017 Ed.	Source to Object Distance :	400mm
Examination Date:	04 April 2018	Source Side of Object to Film Distance:	(60.3)mm
		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	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Ujang Anak Bajau 761010-13-6935 WN-201 6G	8.54	3	60.3	5.54	X Y	Por Por	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

Client Representative:

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

Name:

Date: 05 April 2018

Date:

