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/103677/18-05

Report No: CNE/RT-08/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Chip Ngai Engineering Works Sdn Bhd	Procedure No:	NT/RT/ASME REV 7.0
		IQI type :	ASTM 1B
Project :	DMC Gas Equipment Limited / 25.4KL LPG Under Ground Tank.	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
Job No:	P037/18	Sensitivity:	0.33mm(5 wires visible)
Material:	SA 516 GR 70 MT LTV	Source to Object Distance :	1185mm
		Source Side of Object to Film Distance:	(17+3mm)
Welding Process :	SMAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect. VIII, DIV. 1, 2017 Ed.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	14 May 2018	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
CN-045-18								
CW 1 R1 (WN230)	20	3	2370	17	3 - 4	Por	Reject AR	
					4 - 5	Por	Reject	
					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: 15 May 2018

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

Client Representative:

Name:

Date:

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/103677/18-05

Report No: CNE/RT-09/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Chip Ngai Engineering Works Sdn Bhd	Procedure No:	NT/RT/ASME REV 7.0
		IQI type :	ASTM 1B
Project :	DMC Gas Equipment Limited / 25.4KL LPG Under Ground Tank.	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
Job No:	P037/18	Sensitivity:	0.33mm(5 wires visible)
Material:	SA 516 GR 70 MT LTV	Source to Object Distance :	1185mm
		Source Side of Object to Film Distance:	(17+3mm)
Welding Process :	SMAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect. VIII, DIV. 1, 2017 Ed.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	14 May 2018	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
CN-045-18								
CW 3 R1 (WN230)	20	3	2370	17	18 - 19	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: 15 May 2018

Client Representative:

Name:

Date:

NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)
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Tel: 03-5122 9766/7/8 Fax: 03-5122 8766/7 E-mail: info@nusatek.com

Our Ref. : NT/103677/18-05

Report No: CNE/RT-10/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Chip Ngai Engineering Works Sdn Bhd	Procedure No:	NT/RT/ASME REV 7.0
		IQI type :	ASTM 1B
Project :	DMC Gas Equipment Limited / 25.4KL LPG Under Ground Tank.	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
Job No:	P037/18	Sensitivity:	0.33mm(5 wires visible)
Material:	SA 516 GR 70 MT LTV	Source to Object Distance :	1185mm
		Source Side of Object to Film Distance:	(17+3mm)
Welding Process :	SMAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect. VIII, DIV. 1, 2017 Ed.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	14 May 2018	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
CN-045-18								
CW 2 R1 (WN230)	20	3	2370	17	8 - 9	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: 15 May 2018

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

Client Representative:

Name:

Date:

NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)
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Tel: 03-5122 9766/7/8 Fax: 03-5122 8766/7 E-mail: info@nusatek.com

Our Ref. : NT/103677/18-05

Report No: CNE/RT-11/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Chip Ngai Engineering Works Sdn Bhd	Procedure No:	NT/RT/ASME REV 7.0
		IQI type :	ASTM 1B
Project :	DMC Gas Equipment Limited / 25.4KL LPG Under Ground Tank.	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
Job No:	P037/18	Sensitivity:	0.33mm(5 wires visible)
Material:	SA 516 GR 70 MT LTV	Source to Object Distance :	1185mm
		Source Side of Object to Film Distance:	(17+3mm)
Welding Process :	SMAW / SAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect. VIII, DIV. 1, 2017 Ed.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	14 May 2018	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
CN-045-18								
CW 2 RS (WN230)	20	3	2370	17	13 - 14	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: 15 May 2018

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

Client Representative:

Name:

Date:

NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)
No. 5, Jalan Anggerik Mokara 31/45, Seksyen 31, Kota Kemuning, 40460 Shah Alam, Selangor Darul Ehsan, Malaysia.
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Our Ref. : NT/103677/18-05

Report No: CNE/RT-12/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Chip Ngai Engineering Works Sdn Bhd	Procedure No:	NT/RT/ASME REV 7.0
		IQI type :	ASTM 1B
Project :	DMC Gas Equipment Limited / 25.4KL LPG Under Ground Tank.	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
Job No:	P037/18	Sensitivity:	0.33mm(5 wires visible)
Material:	SA 106 GR.B / SA 105	Source to Object Distance :	88.9mm
		Source Side of Object to Film Distance:	(15.24+3mm)
Welding Process :	GTAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect. VIII, DIV. 1, 2017 Ed.	Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	14 May 2018	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
CN-045-18								
N10 - JT1 (WN258)	18.24	3	88.9	15.24	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 0	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: 15 May 2018

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

Client Representative:

Name:

Date: