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/103365/18-05

Report No: NDT/RT/180304-01/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/XRT/ISO REV 1.0
		IQI type :	DIN FE 10-16
Project :	PMI-WPS-EN-8/8-F-128	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
		Sensitivity:	0.25mm(3 wires visible)
Material:	SA 240-304	Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(12+3)mm
Welding Process :	FCAW(136)	No of Radiograph(exposure) :	Single Expusure
Examination Code :	BS EN ISO 17636	No. of Film Each Cassette :	1 Film
Acceptance Code:	BS EN ISO 15614-1 : 2017	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	02 April 2018	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
Wong Yau Chong 640612-08-5793 (W-038) 3G (PF)	15	3	–	12	0 - 1	Por / SI	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	NUSANTARA TECHNOLOGIES SDN. BHD. * (187753-D) * NDT Division	Name:
Date:	03 April 2018		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/103365/18-05

Report No: NDT/RT/180304-02/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/XRT/ISO REV 1.0
		IQI type :	DIN FE 10-16
Project :	PMI-WPS-EN-8/8-S-129	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
		Sensitivity:	0.25mm(3 wires visible)
Material:	SA 240-304	Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(12+3)mm
Welding Process :	SMAW / MMA (111)	No of Radiograph(exposure) :	Single Exposure
Examination Code :	BS EN ISO 17636	No. of Film Each Cassette :	1 Film
Acceptance Code:	BS EN ISO 15614-1 : 2017	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	02 April 2018	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
Wong Yau Chong 640612-08-5793 (W-038) 3G (PF)	15	3	–	12	0 - 1	Con	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: 03 April 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/103365/18-05

Report No: NDT/RT/180304-04/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/XRT/ISO REV 1.0
		IQI type :	DIN FE 10-16
Project :	PMI-WPS-EN-1/8-F-130	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
		Sensitivity:	0.25mm(3 wires visible)
Material:	SA 240-304 + SA 516 Gr 70	Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(10+3)mm
Welding Process :	FCAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	BS EN ISO 17636	No. of Film Each Cassette :	1 Film
Acceptance Code:	BS EN ISO 15614-1 : 2017	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	02 April 2018	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
Chen Chee Kheong 761028-08-6103 3G (PF)	13	3	–	10	0 - 1	Uc	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:	03 April 2018	Date:	

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

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/103365/18-05

Report No: NDT/RT/180304-03/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/XRT/ISO REV 1.0
		IQI type :	DIN FE 10-16
Project :	PMI-WPS-EN-F-131	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
		Sensitivity:	0.25mm(3 wires visible)
Material:	SA 516 - 70	Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(10+3)mm
Welding Process :	FCAW (136)	No of Radiograph(exposure) :	Single Exposure
Examination Code :	BS EN ISO 17636	No. of Film Each Cassette :	1 Film
Acceptance Code:	BS EN ISO 15614-1 : 2017	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	02 April 2018	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
See Hong Yeong 660213-08-6199 (W-010) 3G (PF)	13	3	–	10	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: 03 April 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/103365/18-05

Report No: NDT/RT/180304-05/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
		IQI type :	ASTM 1B
Project :	PMI-WPS-AS-UNS/8-F-132	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
Material:	SA 516 - 70 + S275JR	Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(15+3)mm
Welding Process :	FCAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Section IX, 2017 Ed.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	02 April 2018	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
See Hong Yeong 660213-08-5194 3G	18	3	–	15	0 - 1	LF	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		Client Representative:
Interpreted & Evaluated By:	Amat Hamidi - NDT Lev.II	NUSANTARA TECHNOLOGIES SDN. BHD. * (187753-D) * NDT Division	Name:
Date:	03 April 2018		Date: