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/103377/18-04

Report No: NDT/RT/180318-02/18

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-G-134	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
		Sensitivity:	0.25mm(3 wires visible)
Material:	SA 312 TP 304	Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(21.3)mm
Welding Process :	GTAW / TIG (141)	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 :	DWDI
		Film Viewing Technique :	Double Wall Viewing
Examination Date:	03 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
Lee Choong Yuen 670328-08-5194 (W-002) TP - 2 6G (HL045)	5.11	3	21.3	2.11	X	NRI	Accept	
					Y	NRI	Accept	
					Z	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	Client Representative:	
Interpreted & Evaluated By:	Amat Hamidi - NDT Lev.II	Name:	
Date:	04 April 2018	Date:	

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

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Our Ref. : NT/103377/18-04

Report No: NDT/RT/180318-01/18

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-G-134	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
		Sensitivity:	0.25mm(3 wires visible)
Material:	SA 312 TP 304	Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(21.3)mm
Welding Process :	GTAW / TIG (141)	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 :	DWDI
		Film Viewing Technique :	Double Wall Viewing
Examination Date:	03 April 2018	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
Lee Choong Yuen 670328-08-5194 (W-002)	(mm)	(mm)	(mm)	(mm)				
TP - 1 6G (HL045)	5.11	3	21.3	2.11	X	NRI	Accept	
					Y	NRI	Accept	
					Z	NRI	Accept	
TP - 3 6G (HL045)	5.11	3	21.3	2.11	X	NRI	Accept	
					Y	NRI	Accept	
					Z	NRI	Accept	
TP - 4 6G (HL045)	5.11	3	21.3	2.11	X	Sur	Accept	
					Y	NRI	Accept	
					Z	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: 04 April 2018

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

Client Representative:

Name:

Date:

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Our Ref. : NT/103377/18-04

Report No: NDT/RT/180318-04/18

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-8/8-G-133	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
		Sensitivity:	0.25mm(3 wires visible)
Material:	SA 312 TP 304	Source to Object Distance :	88.9mm
		Source Side of Object to Film Distance:	(7.62+3)mm
Welding Process :	GTAW	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 :	DWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	03 April 2018	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
Neoh Kee Lian 570131-08-5927 (W-016)	(mm)	(mm)	(mm)	(mm)				
TP - 2 6G (HL045)	10.62	3	88.9	7.62	0 - 1	Uc	Accept	
					1 - 2	NRI	Accept	
					2 - 0	Con	Accept	
TP - 3 6G (HL045)	10.62	3	88.9	7.62	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 0	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: 04 April 2018

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

Client Representative:

Name:

Date:

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Our Ref. : NT/103377/18-04

Report No: NDT/RT/180318-03/18

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-8/8-G-133	Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
		Sensitivity:	0.25mm(3 wires visible)
Material:	SA 312 TP 304	Source to Object Distance :	88.9mm
		Source Side of Object to Film Distance:	(7.62+3)mm
Welding Process :	GTAW	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 :	DWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	03 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
Neoh Kee Lian 570131-08-5927 (W-016) TP - 1 6G (HL045)	10.62	3	88.9	7.62	0 - 1	NRI	Accept	
					1 - 2	Por	Accept	
					2 - 0	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: 04 April 2018

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

Client Representative:

Name:

Date: