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/103814/18-04

Report No: NDT/RT/180668-04/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Innopeak (M) Sdn. Bhd.
Project :	WPS / ISB / 007
Material:	S 355J2
Welding Process :	MIG
Examination Code :	BS EN ISO 17636
Acceptance Code:	BS EN ISO 15614-1 Latest Edition.
Examination Date:	06 June 2018

Procedure No:	NT/XRT/ISO REV 1.0
IQI type :	DIN FE 10-16
Film Manufacturer/Type :	FUJI 100(class II)
Density :	2.0 - 3.5
Sensitivity:	0.25mm(3 wires visible)
Source to Object Distance :	400mm
Source Side of Object to Film Distance:	(10+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
TS1								
Zamri (WN-08) Groove / Fillet	13	3	--	10	0 - 1	Inc	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: 07 June 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/103814/18-04

Report No: NDT/RT/180668-01/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Innopeak (M) Sdn. Bhd.
Project :	WPS / ISB / 007
Material:	S 355J2
Welding Process :	MIG
Examination Code :	BS EN ISO 17636
Acceptance Code:	BS EN ISO 15614-1 Latest Edition.
Examination Date:	06 June 2018

Procedure No:	NT/XRT/ISO REV 1.0
IQI type :	DIN FE 10-16
Film Manufacturer/Type :	FUJI 100(class II)
Density :	2.0 - 3.5
Sensitivity:	0.25mm(3 wires visible)
Source to Object Distance :	400mm
Source Side of Object to Film Distance:	(10+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
TS2								
Khairul (WN-09) Groove / Fillet	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: 07 June 2018

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

Client Representative:

Name:

Date:

NUSATEK

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/103814/18-04

Report No: NDT/RT/180668-03/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Innopeak (M) Sdn. Bhd.
Project :	WPS / ISB / 007
Material:	S 355J2
Welding Process :	MIG
Examination Code :	BS EN ISO 17636
Acceptance Code:	BS EN ISO 15614-1 Latest Edition.
Examination Date:	06 June 2018

Procedure No:	NT/XRT/ISO REV 1.0
IQI type :	DIN FE 10-16
Film Manufacturer/Type :	FUJI 100(class II)
Density :	2.0 - 3.5
Sensitivity:	0.25mm(3 wires visible)
Source to Object Distance :	400mm
Source Side of Object to Film Distance:	(10+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
TS1 PWHT								
Zamri (WN-08) Groove / Fillet	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:	07 June 2018

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

Client Representative:

Name:

Date:

NUSATEK

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/103814/18-04

Report No: NDT/RT/180668-02/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	Innopeak (M) Sdn. Bhd.	Procedure No:	NT/XRT/ISO REV 1.0
Project :	WPS / ISB / 007	IQI type :	DIN FE 10-16
		Film Manufacturer/Type :	FUJI 100(class II)
		Density :	2.0 - 3.5
Material:	S 355J2	Sensitivity:	0.25mm(3 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(10+3)mm
Welding Process :	MIG	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 Latest Edition.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	06 June 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
TS2 PWHT								
Khairul (WN-09) Groove / Fillet	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	Client Representative:	
Interpreted & Evaluated By:	Amat Hamidi - NDT Lev.II		
Date:	07 June 2018	Name:	
		Date:	

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