



Our Ref. : NT/103902/18-27

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 Report No: NDT/RT/180702-27/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Neste Singapore	IQI type :	ASTM 1A
Material:	SA 204 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.20mm(2 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(4+3)mm
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 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
W/O: 11484 Buffer Tank								
CW1 SP (W048)	7	3	-	4	0 - 1	NRI	Accept	
CW2 SP (W048)	7	3	-	4	0 - 1	NRI	Accept	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : 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: M.Nazib - NDT Lev.II

Name:

Date: 12 June 2018

Date:





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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1A
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.20mm(2 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(4+3)mm
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 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell Buffer Tank BT-2								
CW2/LW1 (W002)	7	3	-	4	0 - 1	NRI	Accept	
LW1 (W002)	7	3	-	4	0 - 1	NRI	Accept	

_____ End of Report _____

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative: _____

Name: _____

Date: _____



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No :	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1A
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.20mm(2 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(4+3)mm
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 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell Buffer Tank BT-1								
CW1 (W002)	7	3	-	4	0 - 1	NRI	Accept	
LW1 (W002)	7	3	-	4	0 - 1	NRI	Accept	

End of Report

Legend:

Ti: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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 & M.Nazib - NDT Lev.II

Evaluated By:

Date: 12 June 2018

Client Representative:

Name:

Date:





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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client : PMI-Technology Sdn Bhd	Procedure No: NT/RT/ASME Rev 7.0
Project : Dosmet Enigela, Italy	IQI type : ASTM 1B
Material: A240 GR 304	Film Manufacturer/Type : FUJI 50(class I)
	Density : 2.0 - 3.5
	Sensitivity: 0.33mm(5 wires visible)
	Source to Object Distance : 400mm
	Source Side of Object to Film Distance: (6+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 Sect VIII Div 1, 2017 Edition	Radiographic Technique : SWSI
	Film Viewing Technique : Single Wall Viewing
Examination Date: 11 June 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
Shell RPWD 616B2								
CW4/LW3 (W012)	9	3	-	6	0 - 1	NRI	Accept	
LW2 (W012)	9	3	-	6	0 - 1	NRI	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II		Name:
Date: 12 June 2018		Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PML-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(6+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 Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell RPWD 616B1								
CW4/LW3 (W012)	9	3	-	6	0 - 1	NRI	Accept	
LW2 (W012)	9	3	-	6	0 - 1	NRI	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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 & M.Nazib - NDT Lev.II

Evaluated By:

Date: 12 June 2018



Client Representative:

Name:

Date:



NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Yanbu5-C1	IQI type :	ASTM 1B
Material:	SA 516 Gr 70	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(8+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 Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
PLHD 1850/120/34 Item: W1016A-1 PV-7224								
CW1/LW1 (W012)	11	3	-	8	0-1	NRI	Accept	
LW1/CW2 (W012)	11	3	-	8	0-1	NRI	Accept	

End of Report

Legend:

TI : Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II

Name:

Date: 12 June 2018

Date:





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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PML-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Yanbu5-C1	IQI type :	ASTM 1B
Material:	SA 516 Gr 70	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(8+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 Sect VIII Div 1, 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 2018	Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radlographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
PLHD 1850/120/34 Item: W1016A-1 PV-7224								
CW2/LW2 (W012)	11	3	-	8	0-1	LF	Reject	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



Our Ref. : NT/103902/18-27

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client : PMI-Technology Sdn Bhd Project : Yanbu5-C1 Material: SA 516 Gr 70 Welding Process : FCAW Examination Code : ASME V Acceptance Code: ASME Sect VIII Div 1, 2017 Edition Examination Date: 11 June 2018	Procedure No: NT/RT/ASME Rev 7.0 IQI type : ASTM 1B Film Manufacturer/Type : FUJI 50(class I) Density : 2.0 - 3.5 Sensitivity: 0.33mm(5 wires visible) Source to Object Distance : 400mm Source Side of Object to Film Distance: (8+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
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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
PLHD 1850/120/34 Item: W1016A-2 PV-7225								
CW1/LW1 (W012)	11	3	-	8	0-1	NRI	Accept	
LW1/CW2 (W012)	11	3	-	8	0-1	NRI	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II
 Date: 12 June 2018



Client Representative:
 Name:
 Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Yanbu5-C1	IQI type :	ASTM 1B
Material:	SA 516 Gr 70	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(8+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 Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
PLHD 1850/120/34 Item: W1016A-2 PV-7225								
CW2/LW2 (W012)	11	3	-	8	0-1	NRI	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II

Date: 12 June 2018

Client Representative:

Name:

Date:





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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PML-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell PLVD 2000/18 616A1								
CW3/LW2 (W012)	13	3	--	10	0 - 1	Por	Accept	
CW2/LW2 (W012)	13	3	--	10	0 - 1	NRI	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PML-Technology Sdn Bhd	Procedure No :	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1, 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell PLVD 2000/18 616A1								
LW9 (W012)	13	3	-	10	0 - 1	NRI	Accept	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : 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 : Emirham - NDT Lev. II

Interpreted & Evaluated By: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PML-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1, 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell PLVD 2000/18 616A2								
CW3/LW2 (W012)	13	3	--	10	0 - 1	NRI	Accept	
CW2/LW2 (W012)	13	3	--	10	0 - 1	NRI	Accept	

_____ End of Report _____

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II
 Date: 12 June 2018



Client Representative:
 Name:
 Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1, 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 2018	Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Shell PLVD 2000/18 616A2								
LW9 (W012)	13	3	-	10	0 - 1	NRI	Accept	

_____ End of Report _____

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev. II

Date: 12 June 2018



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/103902/18-27

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PML-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell PLVD 2000/18 616A3								
CW3/LW2 (W012)	13	3	-	10	0-1	Por	Accept	
CW2/LW2 (W012)	13	3	-	10	0-1	Por	Accept	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



Our Ref.: NT/103902/18-27

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Report No: NDT/RT/180702-06/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PML-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1, 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell PLVD 2000/18 616A3								
LW9 (W012)	13	3	-	10	0 - 1	NRI	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



Our Ref. : NT/103902/18-27

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell PLVD 2000/18 616A4								
LW9 (W012)	13	3	-	10	0 - 1	NRI	Accept	
CW2/LW2 (W012)	13	3	-	10	0 - 1	NRI	Accept	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : Undercut	Per : 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



Our Ref. : NT/103902/18-27

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client : PMI-Technology Sdn Bhd	Procedure No: NT/RT/ASME Rev 7.0
Project : Desmet Enigela, Italy	IQI type : ASTM 1B
Material: A240 GR 304	Film Manufacturer/Type : FUJI 50(class I)
	Density : 2.0 - 3.5
	Sensitivity: 0.33mm(5 wires visible)
	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 : ASME V	No. of Film Each Cassette : 1 Film
Acceptance Code: ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique : SWSI
	Film Viewing Technique : Single Wall Viewing
Examination Date: 11 June 2018	Source Type/Size : Iridium192 (3.2mm)
	Location Markers : Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Shell PLVD 2000/18 616A4								
CW3/LW2 (W012)	13	3	-	10	0-1	LF	Reject	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1, 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 2018	Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Shell PLVD 2000/18 616A6								
CW3/LW2 (W005)	13	3	—	10	0-1	LF	Reject	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



Our Ref. : NT/103902/18-27

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell PLVD 2000/18 616A6								
LW9 (W005)	13	3	-	10	0 - 1	NRI	Accept	
CW2/LW2 (W005)	13	3	-	10	0 - 1	NRI	Accept	

_____ End of Report _____

Legend:

TI : Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class 1)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell PLVD 2000/18 616A7								
LW9 (W005)	13	3	-	10	0 - 1	NRI	Accept	
CW2/LW1 (W005)	13	3	-	10	0 - 1	NRI	Accept	

_____ End of Report _____

Legend:

TI Tungsten Inclusion	NRI No Relevant Indication	UN 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:
Date:



Our Ref. : NT/103902/18-27

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 Report No: NDT/RT/180702-12/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client : PMI-Technology Sdn Bhd Project : Desmet Enigela, Italy Material: A240 GR 304 Welding Process : FCAW Examination Code : ASME V Acceptance Code: ASME Sect VIII Div 1 , 2017 Edition Examination Date: 11 June 2018	Procedure No: NT/RT/ASME Rev 7.0 IQI type : ASTM 1B Film Manufacturer/Type : FUJI 50(class I) Density : 2.0 - 3.5 Sensitivity: 0.33mm(5 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
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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
Shell PLVD 2000/18 616A7								
CW2/LW2 (W005)	13	3	-	10	0 - 1	LF / Por	Reject	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: 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: M.Nazib - NDT Lev.II
 Date: 12 June 2018



Client Representative:
 Name:
 Date:



Our Ref. : NT/103902/18-27

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 Report No: NDT/RT/180702-14/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 2018	Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Shell PLVD 2000/18 616A8								
LW9 (W005)	13	3	-	10	0 - 1	NRI	Accept	

End of Report

Legend:

TI: Tungsten Inklusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inklusion	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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:
Date:



Our Ref. : NT/103902/18-27

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class 1)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell PLVD 2000/18 616A8								
CW2/LW1 (W005)	13	3	-	10	0 - 1	NRI	Accept	
CW2/LW2 (W005)	13	3	-	10	0 - 1	Por	Accept	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

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Our Ref. : NT/103902/18-27

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PML-Technology Sdn Bhd	Procedure No :	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material :	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class 1)
		Density :	2.0 - 3.5
		Sensitivity :	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code :	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date :	11 June 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
Shell PLVD 2000/18 616A9								
LW9 (W005)	13	3	-	10	0 - 1	NRI	Accept	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



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/103902/18-27

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No :	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material :	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class 1)
		Density :	2.0 - 3.5
		Sensitivity :	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code :	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date :	11 June 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
Shell PLVD 2000/18 616A9								
CW2/LW1 (W005)	13	3	-	10	0 - 1	NRI	Accept	
CW2/LW2 (W005)	13	3	-	10	0 - 1	NRI	Accept	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : Undercut	Por : Porosity	WT : Weld Thickness
SI : Slag Inclusion	LP : Lack of Penetration	Con : Concavity	RT : 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:
Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No :	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material :	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity :	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code :	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date :	11 June 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
Shell PLVD 2000/18 616A5								
LW9 (W012)	13	3	-	10	0 - 1	Por	Accept	

End of Report

Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : 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: M.Nazib - NDT Lev.II

Date: 12 June 2018



Client Representative:

Name:

Date:



NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

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Our Ref.: NT/103902/18-27

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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	Desmet Enigela, Italy	IQI type :	ASTM 1B
Material:	A240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		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 :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Sect VIII Div 1 , 2017 Edition	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	11 June 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
Shell PLVD 2000/18 616A5								
CW2/LW1 (W012)	13	3	—	10	0 - 1	Por	Accept	
CW2/LW2 (W012)	13	3	—	10	0 - 1	NRI	Accept	

End of Report

Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
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Personnel Particulars

Radiographer : Emirsham - NDT Lev. II

Interpreted & Evaluated By: M.Nazib - NDT Lev.II

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Name:

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