



Our Ref. : NT/103658/18-06

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Report No: NDT/RT/180531-01/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Winner Aircon Eng Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	1 Blok Pejabat Komersil Mengandungi 11 Tingkat Pejabat, 2 Tingkat Komersil Dan 2 Tingkat Besment Di Atas Plot 2C4(Lot 19), Persint 2, Putrajaya	IQI type :	ASTM 1B
Material:	Carbon Steel	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW/SMAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME B31.3 -Cat D -2013	Source to Object Distance :	323.9mm
Examination Date:	16 May 2018	Source Side of Object to Film Distance:	(6.9+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

### Radiographic Examination Result

Weld Reference	WT	RT	Pipe	Material	Film	Film Interpretation	Result	Remarks
	(mm)	(mm)	Diameter (mm)	Thickness (mm)	Position			
CHW Pipe From GDC to C24								
CHWS - WJ 1	9.9	3	323.9	6.9	0 - 1	Por	Accept	
					1 - 2	Por		
					2 - 3	Por		
					3 - 0	SI		

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 : M.Farid - NDT Lev. II

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

Date: 17 May 2018



Client Representative:

Name:  
Date:



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 Report No: NDT/RT/180531-02/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Winner Aircon Eng Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	1 Blok Pejabat Komersil Mengandungi 11 Tingkat Pejabat, 2 Tingkat Komersil Dan 2 Tingkat Besment Di Atas Plot 2C4(Lot 19), Persint 2, Putrajaya	IQI type :	ASTM 1B
Material:	Carbon Steel	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW/SMAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME B31.3 -Cat D -2013	Source to Object Distance :	219.1mm
Examination Date:	16 May 2018	Source Side of Object to Film Distance:	(6.9+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		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
	(mm)	(mm)	(mm)	(mm)				
CHW Pipe From GDC to 2C4								
CHWS - WJ 8	9.9	3	219.1	6.9	0 - 1	Por	Accept	
					1 - 2	Por	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 : M.Farid - NDT Lev. II  
 Interpreted & Evaluated By: M.Khairul - NDT Lev.II  
 Date: 17 May 2018



Client Representative:  
 Name:  
 Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Winner Aircon Eng Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	1 Blok Pejabat Komersil Mengandungi 11 Tingkat Pejabat, 2 Tingkat Komersil Dan 2 Tingkat Besment Di Atas Plot 2C4(Lot 19), Persint 2, Putrajaya	IQI type :	ASTM 1B
Material:	Carbon Steel	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW/SMAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME B31.3 -Cat D -2013	Source to Object Distance :	323.9mm
Examination Date:	16 May 2018	Source Side of Object to Film Distance:	(6.9+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		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
	(mm)	(mm)	(mm)	(mm)				
CHW Pipe From 2C4 to GDC								
CHWR - WJ 10	9.9	3	323.9	6.9	0 - 1	Por	Accept	
					1 - 2	Por	Accept	
					2 - 3	Por	Accept	
					3 - 0	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 : M.Farid - NDT Lev. II  
 Interpreted & Evaluated By: M.Khairul - NDT Lev.II  
 Date: 17 May 2018



Client Representative:  
 Name:  
 Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Winner Aircon Eng Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	1 Blok Pejabat Komersil Mengandungi 11 Tingkat Pejabat, 2 Tingkat Komersil Dan 2 Tingkat Besment Di Atas Plot 2C4(Lot 19), Persint 2, Putrajaya	IQI type :	ASTM 1B
Material:	Carbon Steel	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW/SMAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME B31.3 -Cat D -2013	Source to Object Distance :	219.1mm
Examination Date:	16 May 2018	Source Side of Object to Film Distance:	(6.9+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
		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
	(mm)	(mm)	(mm)	(mm)				
CHW Pipe From 2C4 to GDC								
CHWR - WJ 11	9.9	3	219.1	6.9	0 - 1	NRI	Accept	
					1 - 2	Por	Accept	
					2 - 0	Por	Accept	
CHWR - WJ 13	9.9	3	219.1	6.9	0 - 1	SI/Por	Accept	
					1 - 2	Por	Accept	
					2 - 0	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 : M.Farid - NDT Lev. II  
 Interpreted & Evaluated By: M.Khairul - NDT Lev. II  
 Date: 17 May 2018



Client Representative:  
 Name:  
 Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Winner Aircon Eng Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	1 Blok Pejabat Komersil Mengandungi 11 Tingkat Pejabat, 2 Tingkat Komersil Dan 2 Tingkat Besment Di Atas Plot 2C4(Lot 19), Persint 2, Putrajaya	IQI type :	ASTM 1B
Material:	Carbon Steel	Film Manufacturer/Type :	FUJI 100(class II)
Welding Process :	GTAW/SMAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME B31.3 -Cat D -2013	Source to Object Distance :	219.1mm
Examination Date:	17 May 2018	Source Side of Object to Film Distance:	(6.9+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	DWSI
		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
CHW Pipe From 2C4 to GDC								
CHWR - WJ 14	9.9	3	219.1	6.9	0 - 1	NRI	Accept	
					1 - 2	Por	Accept	
					2 - 0	Con	Accept	
CHWR - WJ 17	9.9	3	219.1	6.9	0 - 1	Por	Accept	
					1 - 2	SI	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 : M.Farid - NDT Lev. II  
 Interpreted & Evaluated By: M.Khairul - NDT Lev.  
 Date: 18 May 2018



Client Representative:  
 Name:  
 Date:



Our Ref. : NT/103658/18-06

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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	Winner Aircon Eng Sdn Bhd	Procedure No:	NT/RT/ASME Rev 6.0
Project :	1 Blok Pejabat Komersil Mengandungi 11 Tingkat Pejabat, 2 Tingkat Komersil Dan 2 Tingkat Besment Di Atas Plot 2C4(Lot 19), Persint 2, Putrajaya	IQI type :	ASTM 1B
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		No of Radiograph(exposure) :	Single Exposure
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		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
CHW Pipe From GDC to 2C4								
CHWS - WJ 3	9.9	3	219.1	6.9	0 - 1	NRI	Accept	
					1 - 2	Con	Accept	
					2 - 0	Con	Accept	
CHWS - WJ 7	9.9	3	219.1	6.9	0 - 1	NRI	Accept	
					1 - 2	NRI	Accept	
					2 - 0	Con	Accept	
CHWS - WJ 18	9.9	3	219.1	6.9	0 - 1	Con	Accept	
					1 - 2	Por	Accept	
					2 - 0	Por	Accept	

#### 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	

#### End of Report

### Personnel Particulars

Radiographer : M.Farid - NDT Lev. II  
 Interpreted & Evaluated By: M.Khairul - NDT Lev. I  
 Date: 18 May 2018



Client Representative:  
 Name:  
 Date: