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/103832/18-11


Report No: NDT/RT/180684-06/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | | | |
|---|---|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd | Procedure No: | NT/RT/ASME REV 7.0 |
| Project : | JJ Lurgi Engineering Sdn Bhd C294 | IQI type : | ASTM 1B |
| | | Film Manufacturer/Type : | FUJI 100(class II) |
| | | Density : | 2.0-3.5 |
| | | Sensitivity: | 0.33mm(5 wires visible) |
| Material: | Stainless Steel | 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 Section VIII Div 1 : 2017 Ed. | Radiographic Technique : | SWSI |
| | | Film Viewing Technique : | Single Wall Viewing |
| Examination Date: | 08 June 2018 | Source Type/Size : | Iridium192 (3.2mm) |
| | | Location Markers : | Film Side |

## Radiographic Examination Result

Work Order : P/18/019
Drawing Number : –
Description : Bleaching Vessel ID 2400 X 4500 TL-TL
Serial No : 2803D08
WPS No. : YF-WPS-009

| Weld Reference | WT (mm) | RT (mm) | Pipe Diameter (mm) | Material Thickness (mm) | Film Position | Film Interpretation | Result | Remarks |
|---|---|---|---|---|---|---|---|---|
| LS4 YFW094 | 13 | 3 | – | 10 | 0 - 1 | Por | Accept | |
| | | | | | 1 - 2 | NRI | Accept | |
| | | | | | 2 - 3 | NRI | Accept | |
| | | | | | 3 - 4 | NRI | Accept | |
| | | | | | 4 - 5 | NRI | Accept | |
| | | | | | 5 - 6 | 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 : M.Zaffri - NDT Lev. II

Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II

Date: 09 June 2018

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

Client Representative:

Name:

Date:

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/103832/18-11


Report No: NDT/RT/180684-07/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | | | |
|---|---|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd | Procedure No: | NT/RT/ASME REV 7.0 |
| Project : | JJ Lurgi Engineering Sdn Bhd C294 | IQI type : | ASTM 1B |
| | | Film Manufacturer/Type : | FUJI 100(class II) |
| | | Density : | 2.0-3.5 |
| | | Sensitivity: | 0.33mm(5 wires visible) |
| Material: | Stainless Steel | 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 Section VIII Div 1 : 2017 Ed. | Radiographic Technique : | SWSI |
| | | Film Viewing Technique : | Single Wall Viewing |
| Examination Date: | 08 June 2018 | Source Type/Size : | Iridium192 (3.2mm) |
| | | Location Markers : | Film Side |

## Radiographic Examination Result

Work Order : P/18/019
Drawing Number : –
Description : Bleaching Vessel ID 2400 X 4500 TL-TL
Serial No : 2803D08
WPS No. : YF-WPS-009

| Weld Reference | WT (mm) | RT (mm) | Pipe Diameter (mm) | Material Thickness (mm) | Film Position | Film Interpretation | Result | Remarks |
|---|---|---|---|---|---|---|---|---|
| LS2 YFW094 | 13 | 3 | – | 10 | 0 - 1 | NRI | Accept | |
| | | | | | 1 - 2 | NRI | Accept | |
| | | | | | 2 - 3 | NRI | Accept | |
| | | | | | 3 - 4 | NRI | Accept | |
| | | | | | 4 - 5 | NRI | Accept | |
| | | | | | 5 - 6 | 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 : | M.Zaffri - NDT Lev. II | Client Representative: | |
| Interpreted & Evaluated By: | Amat Hamidi - NDT Lev.II | Name: | |
| Date: | 09 June 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/103832/18-11


Report No: NDT/RT/180684-08/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | |
|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd |
| Project : | JJ Lurgi Engineering Sdn Bhd<br>C294 |
| Material: | Stainless Steel |
| Welding Process : | FCAW |
| Examination Code : | ASME V |
| Acceptance Code: | ASME Section VIII Div 1 : 2017 Ed. |
| Examination Date: | 08 June 2018 |

| | |
|---|---|
| Procedure No: | NT/RT/ASME REV 7.0 |
| IQI type : | ASTM 1B |
| Film Manufacturer/Type : | FUJI 100(class II) |
| 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 |

## Radiographic Examination Result

Work Order : P/18/019
Drawing Number : –
Description : Bleaching Vessel ID 2400 X 4500 TL-TL
Serial No : 2803D08
WPS No. : YF-WPS-009

| Weld Reference | WT (mm) | RT (mm) | Pipe Diameter (mm) | Material Thickness (mm) | Film Position | Film Interpretation | Result | Remarks |
|---|---|---|---|---|---|---|---|---|
| LS3 | 13 | 3 | – | 10 | 0 - 1 | NRI | Accept | |
| YFW094 | | | | | 1 - 2 | NRI | Accept | |
| | | | | | 2 - 3 | NRI | Accept | |
| | | | | | 3 - 4 | NRI | Accept | AR |
| | | | | | 4 - 5 | 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.Zaffri - NDT Lev. II

Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II

Date: 09 June 2018

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

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/103832/18-11


Report No: NDT/RT/180684-09/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | |
|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd |
| Project : | JJ Lurgi Engineering Sdn Bhd<br>C294 |
| Material: | Stainless Steel |
| Welding Process : | FCAW |
| Examination Code : | ASME V |
| Acceptance Code: | ASME Section VIII Div 1 ; 2017 Ed. |
| Examination Date: | 08 June 2018 |

| | |
|---|---|
| Procedure No: | NT/RT/ASME REV 7.0 |
| IQI type : | ASTM 1B |
| Film Manufacturer/Type : | FUJI 100(class II) |
| 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 |

## Radiographic Examination Result

| Weld Reference | WT (mm) | RT (mm) | Pipe Diameter (mm) | Material Thickness (mm) | Film Position | Film Interpretation | Result | Remarks |
|---|---|---|---|---|---|---|---|---|
| Work Order : P/18/019 | | | | | | | | |
| Drawing Number : – | | | | | | | | |
| Description : Bleaching Vessel ID 2400 X 4500 TL-TL | | | | | | | | |
| Serial No : 2803D07 | | | | | | | | |
| WPS No. : YF-WPS-009 | | | | | | | | |
| LS3 | 13 | 3 | – | 10 | 0 - 1 | Por | Accept | |
| YFW094 | | | | | 1 - 2 | NRI | Accept | |
| | | | | | 2 - 3 | NRI | Accept | |
| | | | | | 3 - 4 | NRI | Accept | |
| | | | | | 4 - 5 | 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 : M.Zaffri - NDT Lev. II

Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II

Date: 09 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/103832/18-11


Report No: NDT/RT/180684-10/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | |
|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd |
| Project : | JJ Lurgi Engineering Sdn Bhd<br>C294 |
| Material: | Stainless Steel |
| Welding Process : | FCAW |
| Examination Code : | ASME V |
| Acceptance Code: | ASME Section VIII Div 1 : 2017 Ed. |
| Examination Date: | 08 June 2018 |

| | |
|---|---|
| Procedure No: | NT/RT/ASME REV 7.0 |
| IQI type : | ASTM 1B |
| Film Manufacturer/Type : | FUJI 100(class II) |
| 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 |

## Radiographic Examination Result

| Weld Reference | WT (mm) | RT (mm) | Pipe Diameter (mm) | Material Thickness (mm) | Film Position | Film Interpretation | Result | Remarks |
|---|---|---|---|---|---|---|---|---|
| Work Order : P/18/019 | | | | | | | | |
| Drawing Number : – | | | | | | | | |
| Description : Bleaching Vessel ID 2400 X 4500 TL-TL | | | | | | | | |
| Serial No : 2803D07 | | | | | | | | |
| WPS No. : YF-WPS-009 | | | | | | | | |
| LS4 | 13 | 3 | – | 10 | 0 - 1 | Inc / Por | Reject | |
| YFW094 | | | | | 1 - 2 | NRI | Accept | |
| | | | | | 2 - 3 | NRI | Accept | |
| | | | | | 3 - 4 | NRI | Accept | |
| | | | | | 4 - 5 | NRI | Accept | |
| | | | | | 5 - 6 | 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.Zaffri - NDT Lev. II

Client Representative:

Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II

Name:

Date: 09 June 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.
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Our Ref. : NT/103832/18-11


Report No: NDT/RT/180684-11/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | | | |
|---|---|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd | Procedure No: | NT/RT/ASME REV 7.0 |
| | | IQI type : | ASTM 1B |
| Project : | JJ Lurgi Engineering Sdn Bhd C294 | Film Manufacturer/Type : | FUJI 100(class II) |
| | | Density : | 2.0-3.5 |
| | | Sensitivity: | 0.33mm(5 wires visible) |
| Material: | Stainless Steel | 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 Section VIII Div 1 : 2017 Ed. | Radiographic Technique : | SWSI |
| | | Film Viewing Technique : | Single Wall Viewing |
| Examination Date: | 08 June 2018 | Source Type/Size : | Iridium192 (3.2mm) |
| | | Location Markers : | Film Side |

## Radiographic Examination Result

Work Order : P/18/019
Drawing Number : –
Description : Bleaching Vessel ID 2400 X 4500 TL-TL
Serial No : 2803D07
WPS No. : YF-WPS-009

| Weld Reference | WT (mm) | RT (mm) | Pipe Diameter (mm) | Material Thickness (mm) | Film Position | Film Interpretation | Result | Remarks |
|---|---|---|---|---|---|---|---|---|
| LS2 YFW094 | 13 | 3 | – | 10 | 0 - 1 | Por | Accept | |
| | | | | | 1 - 2 | NRI | Accept | |
| | | | | | 2 - 3 | NRI | Accept | |
| | | | | | 3 - 4 | Shadow | | Reshoot |
| | | | | | 4 - 5 | NRI | Accept | |
| | | | | | 5 - 6 | 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 : M.Zaffri - NDT Lev. II

Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II

Date: 09 June 2018

Client Representative:

Name:

Date:

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/103832/18-11


Report No: NDT/RT/180684-03/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | | | |
|---|---|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd | Procedure No: | NT/RT/ASME REV 7.0 |
| | | IQI type : | ASTM 1B |
| Project : | JJ Lurgi Engineering Sdn Bhd C294 | Film Manufacturer/Type : | FUJI 100(class II) |
| | | Density : | 2.0-3.5 |
| | | Sensitivity: | 0.33mm(5 wires visible) |
| Material: | Stainless Steel | 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 Section VIII Div 1 : 2017 Ed. | Radiographic Technique : | SWSI |
| | | Film Viewing Technique : | Single Wall Viewing |
| Examination Date: | 08 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 |
|---|---|---|---|---|---|---|---|---|
| Work Order : P/18/019 | | | | | | | | |
| Drawing Number : – | | | | | | | | |
| Description : Bleaching Vessel ID 2400 X 4500 TL-TL | | | | | | | | |
| Serial No : 2803D06 | | | | | | | | |
| WPS No. : YF-WPS-009 | | | | | | | | |
| LS4 | 13 | 3 | – | 10 | 0 - 1 | NRI | Accept | |
| YFW125 | | | | | 1 - 2 | NRI | Accept | |
| | | | | | 2 - 3 | NRI | Accept | |
| | | | | | 3 - 4 | NRI | Accept | |
| | | | | | 4 - 5 | NRI | Accept | |
| | | | | | 5 - 6 | 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 : M.Zaffri - NDT Lev. II

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

Client Representative:

Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II

Name:

Date: 09 June 2018

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/103832/18-11


Report No: NDT/RT/180684-04/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | | | |
|---|---|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd | Procedure No: | NT/RT/ASME REV 7.0 |
| | | IQI type : | ASTM 1B |
| Project : | JJ Lurgi Engineering Sdn Bhd | Film Manufacturer/Type : | FUJI 100(class II) |
| | C294 | Density : | 2.0-3.5 |
| | | Sensitivity: | 0.33mm(5 wires visible) |
| Material: | Stainless Steel | 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 Section VIII Div 1 : 2017 Ed. | Radiographic Technique : | SWSI |
| | | Film Viewing Technique : | Single Wall Viewing |
| Examination Date: | 08 June 2018 | Source Type/Size : | Iridium192 (3.2mm) |
| | | Location Markers : | Film Side |

## Radiographic Examination Result

Work Order : P/18/019
Drawing Number : –
Description : Bleaching Vessel ID 2400 X 4500 TL-TL
Serial No : 2803D06
WPS No. : YF-WPS-009

| Weld Reference | WT (mm) | RT (mm) | Pipe Diameter (mm) | Material Thickness (mm) | Film Position | Film Interpretation | Result | Remarks |
|---|---|---|---|---|---|---|---|---|
| LS2 | 13 | 3 | – | 10 | 0 - 1 | NRI | Accept | |
| YFW125 | | | | | 1 - 2 | NRI | Accept | |
| | | | | | 2 - 3 | NRI | Accept | |
| | | | | | 3 - 4 | NRI | Accept | |
| | | | | | 4 - 5 | NRI | Accept | |
| | | | | | 5 - 6 | 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.Zaffri - NDT Lev. II

Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II

Date: 09 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/103832/18-11


Report No: NDT/RT/180684-05/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | | | |
|---|---|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd | Procedure No: | NT/RT/ASME REV 7.0 |
| | | IQI type : | ASTM 1B |
| Project : | JJ Lurgi Engineering Sdn Bhd | Film Manufacturer/Type : | FUJI 100(class II) |
| | C294 | Density : | 2.0-3.5 |
| | | Sensitivity: | 0.33mm(5 wires visible) |
| Material: | Stainless Steel | 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 Section VIII Div 1 : 2017 Ed. | Radiographic Technique : | SWSI |
| | | Film Viewing Technique : | Single Wall Viewing |
| Examination Date: | 08 June 2018 | Source Type/Size : | Iridium192 (3.2mm) |
| | | Location Markers : | Film Side |

## Radiographic Examination Result

Work Order : P/18/019
Drawing Number : –
Description : Bleaching Vessel ID 2400 X 4500 TL-TL
Serial No : 2803D06
WPS No. : YF-WPS-009

| Weld Reference | WT (mm) | RT (mm) | Pipe Diameter (mm) | Material Thickness (mm) | Film Position | Film Interpretation | Result | Remarks |
|---|---|---|---|---|---|---|---|---|
| LS3 | 13 | 3 | – | 10 | 0 - 1 | NRI | Accept | |
| YFW125 | | | | | 1 - 2 | NRI | Accept | |
| | | | | | 2 - 3 | NRI | Accept | |
| | | | | | 3 - 4 | Por | Accept | |
| | | | | | 4 - 5 | 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 : M.Zaffri - NDT Lev. II

Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II

Date: 09 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/103832/18-11


Report No: NDT/RT/180684-02/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | | | |
|---|---|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd | Procedure No: | NT/RT/ASME REV 7.0 |
| Project : | Greater Enfield Development | IQI type : | ASTM 1A |
| | | Film Manufacturer/Type : | FUJI 100(class II) |
| | | Density : | 2.0-3.5 |
| Material: | Stainless Steel | Sensitivity: | 0.20mm(2 wires visible) |
| | | Source to Object Distance : | 400mm |
| | | Source Side of Object to Film Distance: | (5+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 Section VIII Div 1 : 2017 Ed. | Radiographic Technique : | SWSI |
| | | Film Viewing Technique : | Single Wall Viewing |
| Examination Date: | 08 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 |
|---|---|---|---|---|---|---|---|---|
| Work Order : A/17/130-U | | | | | | | | |
| Drawing Number : YF3057.029 | | | | | | | | |
| Description : Instrument Air Dryer | | | | | | | | |
| Serial No : U/18/0018 | | | | | | | | |
| Tag No. : 55-V-6122B2 | | | | | | | | |
| CS2 YF060 | 8 | 3 | – | 5 | 0 - 1 | Sur | Visual | |

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.Zaffri - NDT Lev. II | Client Representative: | |
| Interpreted & Evaluated By: | Amat Hamidi - NDT Lev.II | Name: | |
| Date: | 09 June 2018 | Date: | |

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

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Tel: 03-5122 9766/7/8 Fax: 03-5122 8766/7 E-mail: info@nusatek.com

Our Ref. : NT/103832/18-11


Report No: NDT/RT/180684-01/18

# RADIOGRAPHIC EXAMINATION REPORT

## Client and Testing Particulars

| | | | |
|---|---|---|---|
| Client : | Yuen Fee ( Wan Soon ) Eng. Sdn Bhd | Procedure No: | NT/RT/ASME REV 7.0 |
| Project : | Greater Enfield Development | IQI type : | ASTM 1A |
| | | Film Manufacturer/Type : | FUJI 100(class II) |
| | | Density : | 2.0-3.5 |
| | | Sensitivity: | 0.20mm(2 wires visible) |
| Material: | Stainless Steel | Source to Object Distance : | 400mm |
| | | Source Side of Object to Film Distance: | (5+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 Section VIII Div 1 : 2017 Ed. | Radiographic Technique : | SWSI |
| | | Film Viewing Technique : | Single Wall Viewing |
| Examination Date: | 08 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 |
|---|---|---|---|---|---|---|---|---|
| Work Order : A/17/130-U | | | | | | | | |
| Drawing Number : YF3057.029 | | | | | | | | |
| Description : Instrument Air Dryer | | | | | | | | |
| Serial No : U/18/0016 | | | | | | | | |
| Tag No. : 55-V-6122A2 | | | | | | | | |
| CS2 YF060 | 8 | 3 | -- | 5 | 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 : | M.Zaffri - NDT Lev. II | Client Representative: | |
| Interpreted & Evaluated By: | Amat Hamidi - NDT Lev.II | Name: | |
| Date: | 09 June 2018 | Date: | |

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