



Our Ref. : NT/103824/18-03

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 Report No: NDT/RT/180677-02/18

RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

| | | | |
|--------------------|---------------------------------------|---|-------------------------|
| Client : | Gemilang Malaysia Fabricators Sdn Bhd | Procedure No: | NT/RT/ASME Rev. 7.0 |
| Project : | WPS-ASME-GMF-001 | IQI type : | ASTM 1B |
| Material: | SA 312M TP 316L | 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 Sect.IX ; 2017 Ed. | Source to Object Distance : | 168.3mm |
| Examination Date: | 07 June 2018 | Source Side of Object to Film Distance: | (21.95+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) | | | | |
| Hamoko AT 645218 6G | 24.95 | 3 | 168.3 | 21.95 | 0 - 1 | NRI | Accept | |
| | | | | | 1 - 2 | NRI | Accept | |
| | | | | | 2 - 3 | NRI | Accept | |
| | | | | | 3 - 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 : Emirsham - NDT Lev. II
 Interpreted & Evaluated By: Amat Hamidi - NDT Lev.II
 Date: 08 June 2018



Client Representative:
 Name:
 Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

| | | | |
|--------------------|---------------------------------------|---|-------------------------|
| Client : | Gemilang Malaysia Fabricators Sdn Bhd | Procedure No: | NT/RT/ASME Rev. 7.0 |
| Project : | WPS-ASME-GMF-002 | IQI type : | ASTM 1B |
| Material: | SA 312M TP 316L | Film Manufacturer/Type : | FUJI 100(class II) |
| Welding Process : | GTAW | Density : | 2.0 - 3.5 |
| Examination Code : | ASME V | Sensitivity: | 0.33mm(5 wires visible) |
| Acceptance Code: | ASME Sect.IX ; 2017 Ed. | Source to Object Distance : | 400mm |
| Examination Date: | 07 June 2018 | Source Side of Object to Film Distance: | (60.3)mm |
| | | No of Radiograph(exposure) : | Single Exposure |
| | | No. of Film Each Cassette : | 1 Film |
| | | Radiographic Technique : | DWDI |
| | | Film Viewing Technique : | Double 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) | | | | |
| Harnoko AT 645218 6G | 8.54 | 3 | 60.3 | 5.54 | X | NRI | Accept | |
| | | | | | Y | 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: 08 June 2018



Client Representative:
 Name:
 Date:



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RADIOGRAPHIC EXAMINATION REPORT

Client and Testing Particulars

| | | | |
|--------------------|---------------------------------------|---|-------------------------|
| Client : | Gemilang Malaysia Fabricators Sdn Bhd | Procedure No: | NT/G/RT/AWS Rev2.0 |
| Project : | WPS-ASME-GMF-003 | IQI type : | ASTM 1B |
| Material: | SA 106 GrB | Film Manufacturer/Type : | FUJI 100(class II) |
| Welding Process : | GTAW / SMAW | Density : | 2.0 - 3.5 |
| Examination Code : | AWS D1.1 | Sensitivity: | 0.33mm(5 wires visible) |
| Acceptance Code: | AWS D1.1 | Source to Object Distance : | 168.3mm |
| Examination Date: | 07 June 2018 | Source Side of Object to Film Distance: | (14.27/10.97+3)n |
| | | 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 (Welder No) | WT | RT | Pipe Diameter | Material Thickness | Film Position | Film Interpretation | Result | Remarks |
|---|-------------|------|------------------|-----------------------|------------------|---------------------|--------|---------|
| | (mm) | (mm) | (mm) | (mm) | | | | |
| Mohd Noor Bin Abdullah 710309-11-5145 6GR | 17.27/13.97 | 3 | 168.3 | 14.27/10.97 | 0 - 1 | Por | 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: Amal Hamidi - NDT Lev.II

Date: 08 June 2018



Client Representative:

Name:
Date: