

**TROLL PHASE I - PROJECT  
PRODUCTION PLATFORM**

**BURNER BOOM**

**P. O. No. QAM - 026**

**PURCHASERS DATASHEETS**

Tag No.s. : 11-BZ001A, 11-BZ001B  
 11-BX-003  
 Area : C19E / C19  
 Document Code : M-DE  
 Purch. Doc. No.: QAM-026-020, Rev D

| DATA REVIEW STATUS CODES   |  |
|--|--|
| 1<br><input checked="" type="checkbox"/> Reviewed with No Comments:  | Reviewers printed name:<br><b>T. NERBASTEN</b> |
| 2<br><input type="checkbox"/> Reviewed with Minor Comments -<br>Revise and Resubmit:                                     | Reviewers signature:<br><i>T. Nerbaste</i>     |
| 3<br><input type="checkbox"/> Reviewed with Major Comments -<br>Revise and Resubmit:                                     | Discipline:<br><b>MAM</b>                      |
| 4<br><input type="checkbox"/> Noted:   | Date review completed:<br><b>11/2-94</b>       |
| Important note: Review of supplier data does not relieve<br>supplier from compliance with purchase<br>order requirements |  |

|      |                         |         |               |
|------|-------------------------|---------|---------------|
| D    | As delivered            | 940120  | <i>J. Due</i> |
| C    | Revised for review      | 930602  | L Due         |
| B    | Revised as per comments | 930313  | EJ Wiig       |
| A    | Revised as per comments | 930129  | EJ Wiig       |
| 0    | Original for review     | 920820  | EJ Wiig       |
| Rev. | Issue                   | Date/By | Appr.         |

**LEVALIN**  
INDUSTRIER AS

**TROLL**  
CORP. FOR INDUSTRY

TROLL PHASE I PROJECT  
 P.O.No. QAM-026  
 BURNER BOOM  
 PURCHASERS DATASHEETS  
 Doc. FD 11300, Rev D  
 Page 1 of 25

Document No. : C030-PG-M-DE-402  
Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

---

MECHANICAL DATA SHEET FOR BURNER BOOMS

TAG NO.: 11-BZ001A/B

| DATA SHEET INDEX                  | SECTION       |
|-----------------------------------|---------------|
| 1. Burner Booms                   | PG-M-DE-402/1 |
| 2. Burner Heads                   | PG-M-DE-402/2 |
| 3. Hydraulic System Baseplate     | PG-M-DE-402/3 |
| 4. Hydraulic System Power Pump    | PG-M-DE-402/4 |
| 5. Hydraulic System Oil Reservoir | PG-M-DE-402/5 |

Document No. : C030-PG-M-DE-402/1  
Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

---

TABLE OF CONTENTS

1. GENERAL DESCRIPTION
2. DESIGN AND OPERATING DATA
3. WATER SPRAY DATA
4. FABRICATION REQUIREMENTS
5. INSPECTION REQUIREMENTS
6. MATERIALS
7. WEIGHTS
8. PROTECTIVE COATING
9. NOZZLES/PIPING
10. NOTES
11. DIMENSIONAL SKETCH

Document No. : C030-PG-M-DE-402/1  
Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

1. GENERAL

|      |                     |   |                              |
|------|---------------------|---|------------------------------|
| 1.01 | Tag No              | : | 11-BZ001A/B                  |
| 1.02 | Description         | : | BURNER BOOMS NORTH/SOUTH     |
| 1.03 | Package No.         | : |                              |
| 1.04 | P.O.No./Enquiry No. | : | QAM-026                      |
| 1.05 | Supplier            | : | Levahn Industrier A.S        |
| 1.06 | Manufacturer        | : | O.C. AXELSEN FABRIKVERK A.S. |
| 1.07 | Model/Type No.      | : | CS 350                       |
| 1.08 | Serial No.          | : | 11300.1/2                    |
| 1.09 | Location area       | : | C19E                         |
| 1.10 | Area classification | : | Hazardous                    |
| 1.11 | Ref. specification  | : | C030-PG-M-SS-402             |
| 1.12 | Ref. P&ID No.       | : | PG-000-PF-111                |

2. DESIGN DATA/OPERATING CONDITIONS

|      |                                    |         |                                     |
|------|------------------------------------|---------|-------------------------------------|
| 2.01 | Code                               | :       | NS 3472.E                           |
| 2.02 | Statutory regulations              | :       | NPD                                 |
| 2.03 | Ambient temp.,                     | (°C):   | -7 / +21                            |
| 2.04 | Atmospheric condition              | :       | HUMID, SALIFERIOUS                  |
| 2.05 | Wind load                          | m/s :   | 62 (2 sec. gusts)                   |
| 2.06 | Seismic load, hor/vert             | :       | 0.3 g/1.0 g ± 0.05 g                |
| 2.07 | Transp. load, hor/vert             | :       | 1.0 g/1.0 g ± 0.35 g (Weight incl.) |
| 2.08 | Tilt                               | :       | 10 DEG.                             |
| 2.09 | Blast press. barg, direction       | :       | 0.1 BARG                            |
| 2.10 | Max. allowable operat. deflection  | :       | 0.4 M                               |
| 2.11 | Resonant freq. hor.                | (Hz):   | ABT 1,5                             |
| 2.12 | Resonant freq. vert.               | (Hz):   | ABT 1,5                             |
| 2.13 | Size l x W x H,                    | mm :    | 35000 X 2500 X 3900                 |
| 2.14 | Tolerances                         | :       | NS                                  |
| 2.15 | Lifting lug design                 | :       | NS 2620                             |
| 2.16 | Platforms/walkways                 | :       | YES                                 |
| 2.17 | Earthing connection                | :       | YES                                 |
| 2.18 | Nameplate                          | :       | YES                                 |
| 2.30 | Boom padeye cap. (vert. stays)     | (kN):   | 344                                 |
| 2.31 | Boom stays cap. (vert.)            | (kN):   | 250                                 |
| 2.32 | Min. angle of stays                | (deg):  | 30                                  |
| 2.33 | Wireload max. (vert. stays)        | (kN):   | 150                                 |
| 2.34 | Boom pedestal static cap.          | (kN):   | ± 1465                              |
| 2.35 | Boom pedestal dynamic cap.         | (kN):   | ± 540                               |
| 2.36 | Total reaction forces on supports: |         |                                     |
|      | - Lateral                          | (kN):   | 100                                 |
|      | - Axial                            | (kN):   | 232                                 |
|      | - Vertical                         | (kN):   | 150                                 |
|      | - Torque, static                   | (kN m): | 2167                                |
|      | - Torque, dynamic                  | (kN m): | 736                                 |
| 2.37 | Swivelling padeye cap.             | (kN):   | 930                                 |
| 2.38 | Swivelling padeye max. load        | (kN):   | 300                                 |
| 2.39 | Wire size                          | (mm):   | Ø 36                                |
| 2.40 | Wire fastened at                   | x:(m) : | 24                                  |
| 2.41 | Boom tubing sizes                  |         |                                     |
|      | - Main chords                      | (mm):   | 100 X 100 X 6,3 / Ø 0 / 40          |
|      | - diagonals                        | (mm):   | 90 X 90 X 3,9                       |
| 2.99 | Notes                              | :       |                                     |

Document No. : C030-PG-M-DE-402/1  
Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

---

3. HEAT SHIELD DATA

NOTE 7

---

|      |                                      |                                      |
|------|--------------------------------------|--------------------------------------|
| 3.01 | Shielding effect (transmissivity)    | (%): 0 - 90 %                        |
| 3.02 | No. of spray nozzles per boom        | : 30 + 1 Monitor                     |
| 3.03 | Tot. capacity per boom               | : 130 m <sup>3</sup> /h max. at 11°C |
| 3.04 | Oper. Pressure                       | (barg): 29                           |
| 3.05 | Distance of nozzles from burner head | (m) : ABT 6 m Behind                 |
| 3.06 | Radius of water curtain meeting 3.01 | (m) : ABT 26 m                       |

---

4. FABRICATION REQUIREMENTS

---

|      |                               |                   |
|------|-------------------------------|-------------------|
| 4.01 | Constr. according to          | : NS 3472.E       |
| 4.02 | Preheating                    | : AS PER WPS      |
| 4.03 | Post weld heat treatment      | : N.A.<br>: NONE  |
| 4.04 | Weld quality class (NS3472)   | : C/E/F2/F/G      |
| 4.05 | Welder/operator qualification | : NS 478/NS-EN287 |
| 4.06 | Welding qual. (wpqr)          | : NS 480          |
| 4.07 | Welding procedure             | : NS 480          |
| 4.08 | Specification (wps)           | : NS 480          |
| 4.09 | Welding consumables           | : LH4             |
| 4.10 | Hardness testing              | : YES             |
| 4.99 | Notes                         | :                 |

---

5. INSPECTION REQUIREMENTS

---

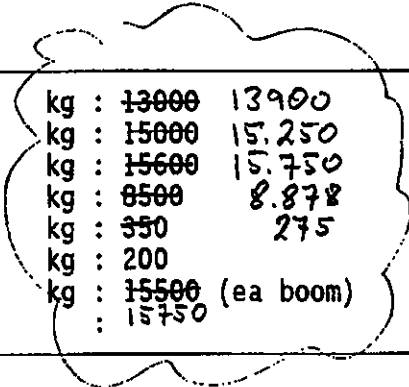
|      |                                |  |
|------|--------------------------------|--|
| 5.01 | Inspection                     | : SUPPLIERS REPSONSIBILITY   |
| 5.02 | Inspection authority/agency    | : NORDTEST CERTIFIED   |
| 5.03 | Radiography                    | : 20 % SPOT/100 %, SEE NOTES   |
| 5.04 | Ultrasonic                     | : N.A.   |
| 5.05 | Magnetic particle              | : 100 %  |
| 5.06 | Dye penetrant                  | : On non magn. steels  |
| 5.07 | Nde lifting lugs               | : 100 % UT, 100 % MPI, 100 % RAD,<br>100 % VIS                                 |
| 5.08 | Visual                         | : 100 %  |
| 5.09 | Impact test                    | : N.A.   |
| 5.10 | Pressure test of piping/valves | : Design pressure x 1,5 for 30 min.  |
| 5.99 | Notes                          | : Full penetration welds in load carrying members shall have 100 % radiography |

Document No. : C030-PG-M-DE-402/1  
 Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

| 6.   | MATERIALS            | NOTE 3       |
|------|----------------------|--------------|
| 6.01 | Main chords          | : C.S.       |
| 6.02 | Diagonals            | : C.S.       |
| 6.03 | Lifting lugs/padeyes | : C.S.       |
| 6.04 | Pedestal             | : C.S.       |
| 6.05 | Swivelling padeye    | : C.S.       |
| 6.06 | Piping/Flanges       | : Ref. Ch. 9 |
| 6.07 | Tubing               | : 316L       |
| 6.08 | Bolts                | : C.S.       |
| 6.09 | Nuts                 | : C.S.       |
| 6.10 | Walkways, platforms  | : C.S.       |
| 6.99 | Notes                | :            |

7. WEIGHTS

|      |                    |                                 |
|------|--------------------|---------------------------------|
| 7.01 | Weight, boom only, | kg : <del>13000</del> 13900     |
| 7.02 | Total dry weight,  | kg : <del>15000</del> 15250     |
| 7.03 | Total oper. weight | kg : <del>15600</del> 15750     |
| 7.04 | Boom pedestal      | kg : <del>8500</del> 8878       |
| 7.05 | Swivelling padeye  | kg : <del>350</del> 275         |
| 7.06 | Wirestays          | kg : 200                        |
| 7.07 | Shipping weight    | kg : <del>15500</del> (ea boom) |
| 7.99 | Notes              | : <del>15750</del>              |



8. PROTECTIVE COATING

|      |                     |                                     |        |
|------|---------------------|-------------------------------------|--------|
| 8.01 | Surface preparation | : C030-PG-R-SP-636                  | NOTE 9 |
| 8.02 | Coating             | : SYSTEM NO. M2 (Carbon Steel only) |        |
| 8.03 | Colour of top coat  | : Aluminium (silver) (RAL9006)      |        |
| 8.04 | Hot dip galvanizing | : Walkways/platforms/bolts/nuts     |        |
| 8.99 | Notes               | :                                   |        |

9. NOZZLES/PIPING

NOTE 6

NOTE 8

|                                | Size     | Class  | Material | Pipe/Flex. conn |
|--------------------------------|----------|--------|----------|-----------------|
| Service connection to topsides |          |        |          |                 |
| Feed fluid for combustion      | 6"       | ES30A  | 6Mo      | /6Mo            |
| Mud burner line                | 4"       | ES30A  | 6Mo      | /6Mo            |
| Diesel line (fuel) Note 10     | 3"       | DS10A  | 316      | /316            |
| Pilot gas line                 | 1"       | AS10A  | 316      | /Hose           |
| Seawater (heat shield) line    | 4"       | BS30A  | 6Mo      | /6Mo            |
| Seawater (combustion) line     | 4"       | AS71A  | 6Mo      | /6Mo            |
| Atomizing air line             | 2"       | AS10A  | 316      | /Hose           |
| Burner head mov. hydr. line    | 2ea 12mm |        | 316      | /Hose           |
| PILOT AIR LINE                 | 2ea 12mm |        | 316      | /HOSE           |
| HYDR. OIL SUPPLY LINE          | 1"       | GS HYR | 316      | /316            |
| HYDR OIL RETURN LINE           | 1"       | GS HYR | 316      | /316            |
| HYDR OIL LEAK LINE             | 1"       | GS HYR | 316      | /316            |

Document No. : C030-PG-M-DE-402/1  
Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

---

10. NOTES

---

1. Mechanical design of equipment is Suppliers responsibility.
2. Reference is also made to package spec. C030-PG-M-SS-402.
3. Supplier to confirm exact standard and grade of materials used.
4. All data not supplied by Purchaser shall be completed by Supplier before returning this data sheet. Data entered by Purchaser is confirmed by Supplier when returning this data sheet.
5. Supplier shall take into consideration that platform design life time is 50 years.
6. Flexible pipe connections to be provided between boom and structure and between boom and burner head. These are not included in pipe specification. These special piping items must be approved by the purchaser.
7. Supplier to advise if an increase in flowrate or pressure of heat shield water is required. Supplier also to advise if a decrease in flowrate or pressure of heat shield water is possible. Heat shield water is sufficient for operation of one burner boom only.
8. The mud lines and the sea water lines of the burner boom will contain free chlorine, which is corrosive to AISI 316(L) stainless steel. In addition, solutions containing free chlorine with temperature  $\geq 35^{\circ}\text{C}$  will give pitting to 6Mo stainless steels. Hence the following shall be adhered to regarding material selection for these lines:

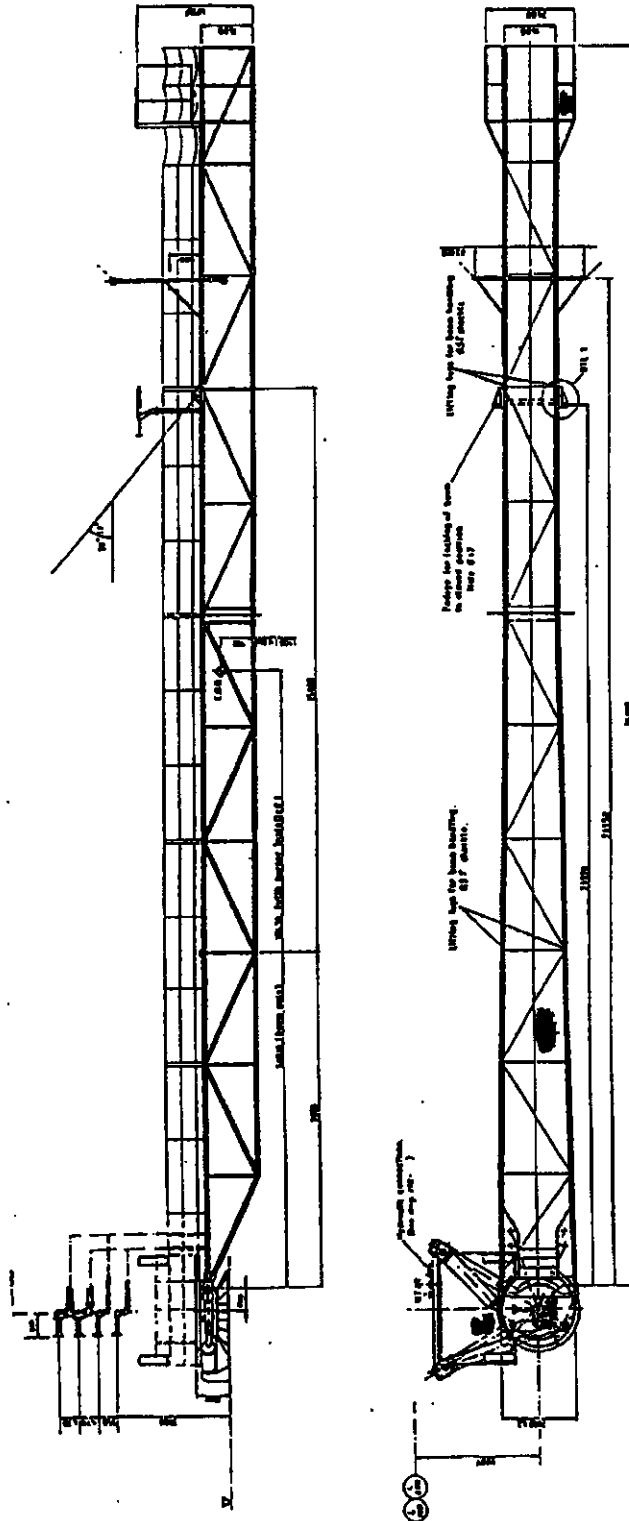
| Conditions   | Material  |
|--|---|
| $T < 35^{\circ}\text{C}$ at least 90% of the time    | 6Mo   |
| $T \geq 35^{\circ}\text{C}$ at least 10% of the time | Titanium, Inconel 625, or better corrosion properties |

The temperatures must be identified by Supplier before final decision of material can be confirmed.

9. SYSTEM NO M1 FOR BURNER BOOM BASE UNITS  
Tag 11-CX002 A/B

Document No. : C030-PG-M-DE-402/1  
Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

11. DIMENSIONAL SKETCH



Document No. : C030-PG-M-DE-402/2  
Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

---

## TABLE OF CONTENTS

1. GENERAL DESCRIPTION
2. DESIGN AND OPERATING DATA
3. PROCESS DATA AND PERFORMANCES
4. TERMINAL POINTS
5. UTILITIES
6. MATERIALS
7. FABRICATION/INSPECTION REQUIREMENTS
8. WEIGHTS AND DIMENSIONS
9. PROTECTIVE COATING
10. NOTES
11. OUTLINE SKETCH

Document No. : C030-PG-M-DE-402/2  
 Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

1. GENERAL

|      |   |                           |
|------|---|---------------------------|
| 1.01 | Tag No./No. of units<br>(All info per unit) | : 11-BF002A/B             |
| 1.02 | Description                                 | : BURNER HEAD NORTH/SOUTH |
| 1.03 | Package No.                                 | : -                       |
| 1.04 | P.O.No./Enquiry No.                         | : QAM-026                 |
| 1.05 | Supplier                                    | : Levahn                  |
| 1.06 | Manufacturer                                | : Geoservices             |
| 1.07 | Size/Type                                   | : Vulcan                  |
| 1.08 | Model/Type No.                              | : SPECIAL                 |
| 1.09 | Location area                               | : C19E                    |
| 1.10 | Area Class.                                 | : HAZARDOUS               |
| 1.11 | Ref. Proj. P&ID No.                         | : C030-PG-000-PF-111      |
| 1.12 | Ref. General Data Sheet                     | : -                       |
| 1.13 | Design Code                                 | : SUPPLIERS PROPR. DESIGN |

2. DESIGN AND OPERATING DATA

|      | MUD BURNER<br>(MB)   | BURNER GAS<br>FLARE (BGF) |
|------|--|---------------------------|
| 2.01 | Max. Tip Velocity Allowed (MACH): NA   | 0.95                      |
| 2.02 | Oper. Press. Norm/Max/Min (barg): 4/50/  | 141                       |
| 2.03 | Oper. Temp. Norm/Max/Min (°C): 50/50/-45   | 50/50/-45 Note 11         |
| 2.04 | Design Pressure (barg): 142 (85.6 ± 5%)  | 142                       |
| 2.05 | Design Temp. Max/Min (Note 13) (°C): /-50  | /-50                      |
| 2.06 | Corrosion Allowance (mm): NONE   | NONE                      |
| 2.07 | Tip Position (vertical/horizontal): HORIZONTAL <span style="border: 1px solid black; padding: 2px;">D</span> | HORIZONTAL                |
| 2.08 | No. of Burners each head   | 2 gas flares              |
| 2.09 | No. of Pilots/Burner   | 1 pilot pr flare          |
| 2.10 | Total No. of Pilots  | 2                         |

3.A PROCESS DATA & PERFORMANCE (Burner Head North or South)

| 3.00  | Operating cases                                      | Case 1<br>(Mud)         | Case 2<br>(Gas)                    |
|-------|--|-------------------------|------------------------------------|
| 3.01  | Type of burner(s) used                               | : MB                    | BGF                                |
| 3.02A | Normal design flow (Note 10)                         | : 30 m <sup>3</sup> /hr | 83,334 Sm <sup>3</sup> /hr         |
| 3.02B | Emergency design flow (Note 12)                      | : NA                    | 166,668 Sm <sup>3</sup> /hr        |
| 3.03  | Turndown-% of normal                                 | : 10%                   | 10%                                |
| 3.04  | Molecular Weight                                     | : NA                    | 17.85                              |
| 3.05  | Temperature (°C)                                     | : 50                    | -45                                |
| 3.06  | Pressure (max) at inlet to head (barg)               | : ~                     | 10.3 (@166.668 Sm <sup>3</sup> /h) |
| 3.07  | Density (at 15°C-1bara) (kg/m <sup>3</sup> )         | : 1300                  | 0.75                               |
| 3.08  | Compressibility                                      | : N.A.                  | 0.99                               |
| 3.09  | Cp/Cv  | : N.A.                  | 1.28                               |
| 3.10  | Net Heating Value (MJ/Sm <sup>3</sup> )              | : 0                     | 36                                 |
| 3.11  | Burner Back Press. (bara)                            | : 5                     |                                    |
| 3.12  | Press. Drop Across Burner (bar)                      | : 4                     |                                    |
| 3.13  | Purge Gas Temperature Max/Min (°C)                   | : 20                    |                                    |
| 3.14  | Droplets Size Limit (microns)                        | : N.A.                  |                                    |
| 3.15  | Wind Speed for Pilot Flame Failure(m/s)              | : 30                    |                                    |
| 3.16  | Max Wind Speed at which Pilot can be Reignited (m/s) | : 30                    |                                    |
| 3.17  | Gas Speed to Prevent Air Ingress (m/s)               |                         |                                    |
| 3.18  | Rotateable burner head                               | : YES                   |                                    |

l:mde402.r0/9/kjh/tba/1/ke

Document No. : C030-PG-M-DE-402/2  
 Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

|      |   |                      |                         |
|------|---|----------------------|-------------------------|
| 3.19 | Rotation in degrees                             | :                    | 120 (+/- 60 off center) |
| 3.20 | Rotation method                                 | :                    | Hydraulic               |
| 3.21 | Atomisation method                              | :                    | PRESSURIZED AIR         |
| 3.22 | Air pressure req. for atomis.                   | (barg):              | 6,5 MIN , 11 MAX        |
| 3.23 | Air consumption max.                            | (Sm <sup>3</sup> /h) | : 600                   |
| 3.24 | Water consumption required for combustion water | (Sm <sup>3</sup> /h) | : 60 (max)              |
| 3.25 | Water pressure required for combustion water    | (barg):              | 9 MIN , 17,5 MAX        |
| 3.26 | Pilot gas consumption                           | (Sm <sup>3</sup> /h) | : 2,4 (max)             |
| 3.27 | Pilot gas pressure - min.                       | (barg):              | 0.5                     |
| 3.28 | Spark plug type                                 | :                    | Elter                   |
| 3.29 | Flame length                                    | (m):                 | 56m MAX                 |

4. ELECTRONIC IGNITION ASSEMBLY (Tag No. 11-FZ005A/B)

|      |                       |              |                             |
|------|-----------------------|--------------|-----------------------------|
| 4.01 | Make/model            | :            | Elter/Levahn                |
| 4.02 | Enclosure protection  | :            | IP56 / EExdet CONTROL PANEL |
| 4.03 | El. power consumption | :            | 230VAC 50Hz 3A              |
| 4.04 | Cable sizes           | SPARK PLUGS  | : HT - Special HT cable     |
| 4.05 |                       | POWER SUPPLY | : 230 VAC - 2 x 2,5         |
| 4.06 |                       | FROM CLIENT  | :                           |

5. UTILITIES (REQUIRED PER BURNER HEAD) NOTE 7

|      |                         |                           |                         |
|------|-------------------------|---------------------------|-------------------------|
| 5.01 | Fuel Gas per Pilot      | 6EA (Sm <sup>3</sup> /h): | 0,4 MIN , 2,4 MAX TOTAL |
| 5.02 | Fuel Gas for Ignition   | (Sm <sup>3</sup> /h):     | N.A.                    |
| 5.03 | Electrical Supply       | :                         | 230 VAC, 50 Hz          |
| 5.04 | Diesel (Fuel)           | (m <sup>3</sup> /h):      | 30                      |
| 5.05 | Plant Air (Atomisation) | (Sm <sup>3</sup> /h):     | 600                     |
| 5.06 | Process Gas (Fuel)      | (Sm <sup>3</sup> /h):     | 27000                   |
| 5.07 | Combustion water        | (m <sup>3</sup> /h):      | 60                      |

6. MATERIALS NOTE 6 NOTE 14

|      |                                   |   |                   |
|------|-----------------------------------|---|-------------------|
| 6.01 | Mud Burner guns                   | : | A 312 TP 316      |
| 6.02 | Pilot nozzles                     | : | 316 / Brass.      |
| 6.03 | Frame of burner                   | : | C.S.              |
| 6.04 | Pneumatic box                     | : | N.A.              |
| 6.05 | Rotation kit                      | : | 316               |
| 6.06 | Wind shields                      | : | N.A.              |
| 6.07 | Water shield nozzles              | : | Brass             |
| 6.08 | Flame Ignition Lines and Manifold | : | N.A.              |
| 6.09 | Pilot Tubes upper/lower           | : | 316               |
| 6.10 | Ignition Plug                     | : | CERAMIC CNI       |
| 6.11 | Ignition enclosure                | : | 316               |
| 6.12 | Flanges                           | : | As per pipe spec. |
| 6.13 | Seawater line                     | : | 6Mo               |
| 6.14 | Oil/mud line                      | : | 6Mo               |
| 6.15 | Air line                          | : | 316               |
| 6.16 | Flare line                        | : | 6Mo               |
| 6.17 | Diesel line                       | : | 316               |
| 6.18 | Pilots line                       | : | 316               |
| 6.19 | Burner gas flare                  | : | 6Mo               |

l:mde402.r0/10/kjh/tba/l/ke

Document No. : C030-PG-M-DE-402/2  
Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

## 7. FABRICATION/INSPECTION REQUIREMENTS

|      |                                 |                           |
|------|---------------------------------|---------------------------|
| 7.01 | Construction according to       | : N.A.                    |
| 7.02 | Inspection                      | : BY SUPPLIER             |
| 7.03 | DPI                             | : 100 %                   |
| 7.04 | Radiography Examination         | : 100 %                   |
| 7.05 | Ultrasonic Tests                | : BY SUPPLIER IF REQUIRED |
| 7.06 | Pressure Test                   | : 1.5 x DESIGN PRESSURE   |
| 7.07 | Rotation test of burner heads   | : REQUIRED                |
| 7.08 | Operation test of pilot burners | : REQUIRED                |

## 8. WEIGHTS AND DIMENSIONS

|      |                                    |  |
|------|------------------------------------|--|
| 8.01 | Total Weight of Burner Assembly    | (kg): <del>2000</del> 1.850                          |
| 8.02 | Weight of Ignition Assembly        | (kg): 100  |
| 8.03 | Dim. of Burner Head Assembly LxBxH | (m): <del>2,2 x 1,25 x 2,45</del> 2,85 x 1,36 x 2,17 |
| 8.04 | Dim. of Ignition Assembly LxBxH    | (m): 0.6 x 0.6 x 0.24                                |
| 8.05 | Dia. of Burner Gas Flares          | (mm): DN250  |

## 9. PROTECTIVE COATING

|      |                           |                                     |
|------|---------------------------|-------------------------------------|
| 9.01 | Surface preparation spec. | : C030-PG-R-SP-636                  |
| 9.02 | Coating system No.        | : M2                                |
| 9.03 | Colour of top coat        | : RAL 9006                          |
| 9.04 | Notes                     | : Applicable to C.S. boom structure |

## 10. NOTES

1. Design lifetime guaranteed by Supplier to be in excess of 5 years.
2. All data not supplied by Purchaser must be completed by Supplier. Data entered by the Purchaser are to be confirmed by the Supplier when the data sheets are submitted for Purchasers approval.
3. Items not relevant to this particular equipment shall be inserted with N.A. (Not applicable).
4. All changes to previous data shall be identified with the new revision number in a triangle.
5. All materials shall be identified by specification number and grade. All materials shall be suitable for applicable service.
6. Supplier to confirm exact standard and grade for all materials used.
7. Supplier to advise if an increase in flowrate or pressure of utilities is required. Supplier also to advise if a decrease in flowrate or pressure of utilities is possible. Utility consumptions are based on one burner head in operation.

Document No. : C030-PG-M-DE-402/2  
Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

---

8. Case 1, mud is water based mud as defined in C030-PG-M-SS-402. It is necessary to add fuel to case 1 mud to achieve complete combustion.
9. Deleted.
10. Supplier to advise the required quantities of diesel or gas to assist the complete combustion of 30 m<sup>3</sup>/hr of mud. Supplier should also state the maximum gas only rate that can be burnt through the selected burner head.
11. Fluid temperature at inlet to burners are given. Supplier to add any temperature rise due to combustion, to arrive at true operating temperature for burners.
12. The emergency design flow is for mechanical design only, and radiation, noise and utility specifications are not applicable to this case. Supplier should state the radiation and noise levels which would be experienced under these emergency conditions.
13. Low temperature design to be verified.
14. For service above 120<sup>0</sup>C, material to be heat resistant Inconel 625 or similar. For below or equal to 120<sup>0</sup>C, 6Mo is acceptable. Supplier to propose.

Document No. : C030-PG-M-DE-402/2  
Document Title: MECHANICAL DATA SHEET FOR BURNER BOOM

11. OUTLINE SKETCH (TO BE DRAWN BY THE SUPPLIER)

