

## **INTERFACE FOR TEMPORARY EQUIPMENT ON GJØA IN ACCORDANCE WITH NORSOK Z-015.**

### **For supplier of temporary equipment, i.e. equipment:**

- intended for fixed-term use on installations
- requiring connection for use, and/or constitutes a potential ignition source

### **Data sheet for connection to offshore facility:**

By clicking on the datasheet, you will see how the equipment should be connected to the individual facility.

### **Checklists for temporary equipment:**

Norsok checklists for temporary equipment is available in Word and PDF on Norsok's Z-015 site:

<https://www.standard.no/en/sectors/energi-og-klima/petroleum/norsok-standard-categories/z-temporary-equipm/z-01541/>

The supplier will choose the relevant list and complete it. Advance approval from Neptune Energy Norge's Installation Manager must be obtained and included in the check list as specified for the cases mentioned in Z-015, section 4.8.3. The equipment must be checked and the list signed by responsible discipline. The checklist must be included as an appendix to the delivery note.

Electrical extension cords must not be longer than 30 metres.

## ELECTRICAL

| Power       | Volt           | Freq. | Neut. loaded | Distribution protection | Distribution protection | Connection platform  | Connection                                   | Area   |
|-------------|----------------|-------|--------------|-------------------------|-------------------------|--|--|--|
| *           | [V]            | [Hz]  | Yes/No       | Fuse [A]                | Earth fault [mA]        | Desc./Type   | Desc./Type                                   | Modul No. /Room No.                              |
| <b>UPS</b>  | 230<br>2P+PE   | 50    | N            | 16                      | <b>Na</b>               | Socket Outlet for Data: ELKO RS 1090 DATA                                  | Data Plug                                    | Indoor areas                                     |
| <b>UPS</b>  | 230<br>2P+PE   | 50    | N            | 16                      | <b>Na</b>               | Socket Outlet: Like ELKO 1090  | Gen. plug                                    | Indoor areas                                     |
| <b>Main</b> | 230<br>1P+N+PE | 50    | Y            | 16                      | <b>30</b>               | Socket Outlet: Like ELKO 1090  | Gen. plug                                    | Indoor areas                                     |
| <b>Main</b> | 230<br>1P+N+PE | 50    | Y            | 16                      | <b>30</b>               | Socket Outlet: STAHL 8570/11-306 (EEx ed IIC T6 IP66)                      | Plug: STAHL 8570/12-306                      | All outdoor areas                                |
| <b>Main</b> | 230<br>1P+N+PE | 50    | Y            | 16                      | <b>30</b>               | Socket Outlet: CEAG (CROUSE-HINDS) GHG 511 4306 R0001 (EEx ed IIC T6 IP66) | Plug: CEAG (CROUSE-HINDS) GHG 511 7306 R0001 | Laydown area for kitchen provisions and supplies |

| Power | Volt               | Freq. | Neut. loaded | Distribution protection | Distribution protection | Connection platform  | Connection                    | Area  |
|-------|--------------------|-------|--------------|-------------------------|-------------------------|--|-------------------------------|---|
| Main  | 690<br>3P+PE       | 50    | N            | 63                      | 30                      | Socket<br>Outlet:<br>STAHL<br>8579/11-405<br>(EEx ed IIC<br>T6 IP66) | Plug:<br>STAHL<br>8579/12-405 | Main<br>utility<br>stations /<br>landing<br>areas |
| Main  | 400<br>3P+N+PE     | 50    | Y            | 63                      | 30                      | Socket<br>Outlet:<br>STAHL<br>8579/11-506<br>(EEx ed IIC<br>T6 IP66) | Plug:<br>STAHL<br>8579/12-506 | All<br>areas                                      |
| Main  | 230/400<br>3P+N+PE | 50    | Y            | 125                     | 30                      | Socket<br>Outlet:<br>STAHL<br>8581/11-506<br>(EEx ed IIC<br>T6 IP66) | Plug:<br>STAHL<br>8581/12-506 | Main<br>utility<br>stations /<br>landing<br>areas |

Main – Main Power  
 Emg – Emergency Power  
 Ess- Essential Power  
 UPS – UPS Power

INSTRUMENT

| Function         | Signal type                                    | Connection platform                            | Connection temp. equip.                      | Area                          |
|------------------|--|--|--|-------------------------------|
|                  |  | Desc./Type                                     | Desc./Type                                   | Modul No. /Room No.           |
| Loss of pressure | NO-kontakt<br>(lukket = alarm)<br>See comments | Socket:<br>GHG 511 4906 R0001 21-pol, pin 5, 6 | GHG 591 2201 R0002 21-pol, pin 5, 6          | Utility stations in area: ... |
| Fire             | NO-kontakt<br>(lukket = alarm)<br>See comments | Socket:<br>GHG 511 4906 R0001 21-pol,pin 1, 2  | Plug:<br>GHG 591 2201 R0002 21-pol, pin 1, 2 | Utility stations in area: ... |

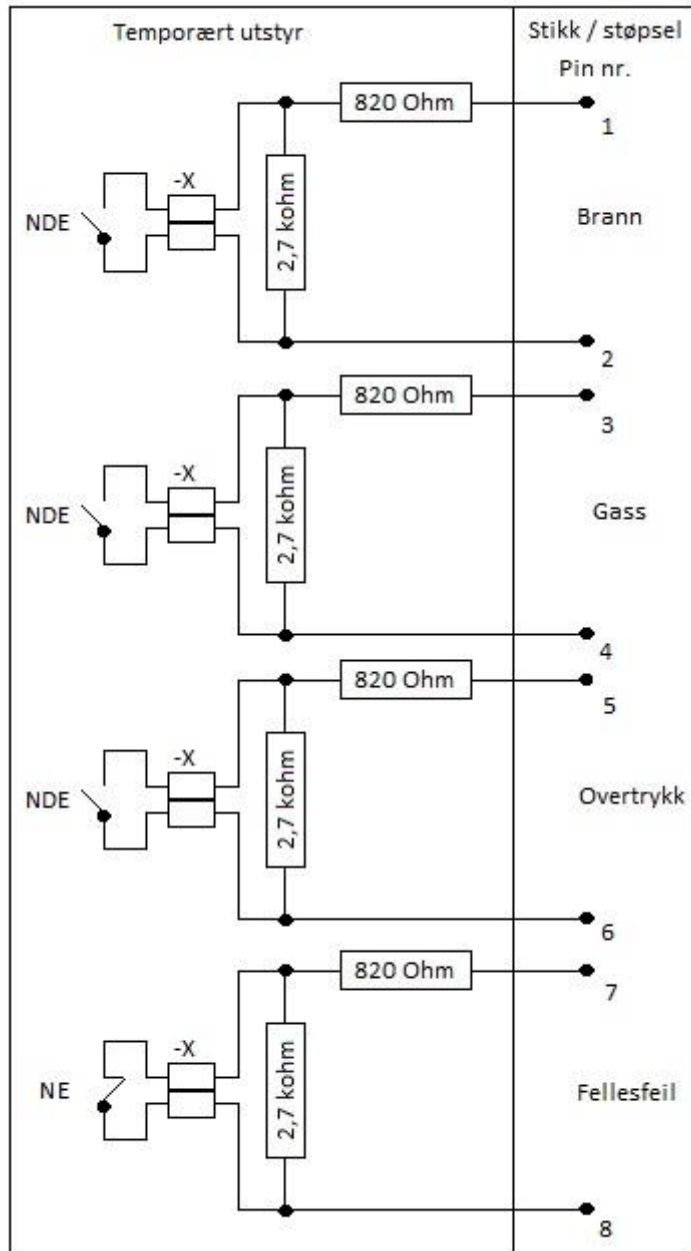
| Function | Signal type   | Connection platform                            | Connection temp. equip.                      | Area                          |
|----------|---|--|--|-------------------------------|
| Gas      | NO-kontakt<br>(lukket = alarm)<br>See comments                  | Socket:<br>GHG 511 4906 R0001 21-pol, pin 3, 4 | Plug:<br>GHG 591 2201 R0002 21-po,l pin 3, 4 | Utility stations in area: ... |
| Other    | Common Fault:<br>NC-kontakt<br>(lukket = alarm)<br>See comments | Socket:<br>GHG 511 4906 R0001 21-pol, pin 7, 8 | Plug:<br>GHG 591 2201 R0002 21-pol, pin 7, 8 | Utility stations in area: ... |

#### Comment instrument:

The relays inside the fire detection cabinet in the container must be NDE. If a container loses power (single gas), alarms should not be activated. This does not apply to the common cause failure alarm, which must be NE in order for failures to be alerted in the CCR in case of loss of power. Example of communication of instrument signal in container. Alternative solutions will be accepted, but signal contacts and resistors must be connected to the pins in the plug as shown.

NOTE! All 8 resistors must be inserted even if the signal is not in use. This is to avoid signal error alarm in the control room.

### Sketch for instrument signal connections



## TELECOM

| <b>Function</b>     | <b>Signal type</b>   | <b>Connection platform</b>   | <b>Connection temp. equip.</b> | <b>Area</b>                   |
|---------------------|--|--|--------------------------------|-------------------------------|
|                     |  | Desc./Type   | Desc./Type                     | Modul No.<br>/Room No.        |
| <b>PA</b>           |  | Stahl 8575/11-404 Yellow   | Stahl 8575/12-404 Yellow       | Utility stations in area: ... |
| <b>Telephone</b>    |  | Stahl 8570/11-410 Green  | Stahl 8570/12-410 Green        | Utility stations in area: ... |
| <b>Data (fiber)</b> | Light (wavelength 1310nm/1550nm), using single mode fibres | Bredengen P/N 77 200 101, with input cable type G8-9/125 QFCI-I/O/RM-JM/-DRAKA |                                | Utility stations in area: ... |
| <b>Data</b>         | Through Optical fibre                                      | Telecom/IT to be contacted for information.                                    |                                | Utility stations in area: ... |

UTILITIES

| Function          | Pressure | Amount/flow   | Type | Connection       | Material      | Area  |
|-------------------|----------|---|------|------------------|---------------|---|
|                   | [BARG]   | Max capacity  |      | Diameter         |               | Module No. /Room No.                                |
| <b>Plant air</b>  | 8.7      | 539 kg/h (utility stations)                               |      | Utility stations | 6Mo<br>316 SS |   |
| <b>Instr. air</b> | 8.7      | 815 kg/h (instrument air distribution)                    |      | 1" NPT (F)       | 6Mo<br>316 SS |   |
| <b>Sprinkler</b>  |          |   |      |                  |               | Ref. drawing no.:<br>C097-GDF-S-XF-<br>0001/2/3/4/5 |
| <b>Seawater</b>   | 7        | 1037,3 m <sup>3</sup> /h                                  |      | 1" NPT (M)       | Titan         |   |
| <b>Freshwater</b> | 6        | Normal: 13,5 m <sup>3</sup> /h<br>HP: 6 m <sup>3</sup> /h |      | Utility stations | 6Mo<br>316 SS |   |
| <b>Drain</b>      | 10       | Closed drain to LP flare KO drum                          |      | 1" NPT (M)       | 22 Cr Duplex  |   |
| <b>Other</b>      |          | N/A   |      |                  |               |   |



LIFTING CAPACITY

| <b>Max. load / radius @ Hs<sup>1</sup> = 1 m</b> | <b>Max. load / radius @ Hs = 2 m</b> |                    | <b>Max. load / radius @ Hs = 3 m</b> |
|--|--------------------------------------|--------------------|--------------------------------------|
|  |                                      | <b>SINGLE FALL</b> |                                      |
| <b>SWL 17.0 t / R 58.0</b>                       | SWL 15.0 t / R 42.5 m                |                    | SWL 12.0 t / R 32.5 m                |
|  | <b>DOUBLE FALL</b>                   |                    |                                      |
| <b>SWL 34.0 t / R 30.0 m</b>                     | SWL 28.5 t / R 27.5 m                |                    | SWL 24.0 t / R 22.5 m                |
|  | <b>TRIPPLE FALL</b>                  |                    |                                      |
| <b>SWL 50.0 t / R 27.5 m</b>                     | SWL 43.0 t / R 22.5 m                |                    | SWL 27.5 t / R 32.6 m                |

<sup>1</sup> Hs – significant wave height, m

THE TABLE SHOWS MAX. LIFT CAPACITY FOR LIFTS FROM SUPPLY VESSELS (metric tonnes) IN RELATION TO SIGNIFICANT WAVE HEIGHT (metres).

- A. The load chart shows the max. load a crane is certified for. It is up to the crane operator in each individual case to determine whether this capacity can be utilized.
- B. The cargo must be equipped with sling points which can be hooked to the crane from the deck of the supply vessel. Slings shall always take place from the outside of the unit to make slinging/hooking safe for personnel on the vessel.
- C. Correctly stated weight on the equipment is essential for safe lifting operations between vessel and installation. The supplier is responsible for giving correct weight on all packages delivered to the base, and if necessary a weight certificate must be provided for the unit.

