|     |          |               | <b>P &amp; I</b>                | I Desig   | n Ltd   |              |
|-----|----------|---------------|---------------------------------|---|---|--------------|
|     |          |               | Process Instrum                 | entation Consul   | ltancy & Design                                 |              |
|     |          |               | Thornaby, T<br>Tel. +44 (0)1642 | z, Gladstone Ind<br>S17 7AF, Unite<br>2 617444 Fax. +44<br>Site: www.pidesign | ed Kingdom.<br>(0)1642 616447                   |              |
|     |          |               |                                 |   |   |              |
|     |          |               |                                 |   |   |              |
|     |          |               |                                 |   |   |              |
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|     |          |               | NUST                            | FAR ENERGY  | LTD   |              |
|     |          |               | FUNCTIONA                       | AL SAFETY C   | OMMITTEE  |              |
|     |          |               | MINU                            | <b>TES OF MEE</b>   | TING  |              |
|     |          |               |                                 | JUNE 2017   |   |              |
|     |          |               |                                 | 0011L 2017  |   |              |
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|     |          |               |                                 |   |   |              |
|     |          |               |                                 |   |   |              |
| Rev | Date     | By            | Checked                         | Approved  | Description                                     | Client Ref.  |
| A   | 02.05.17 | D. R. Ransome |                                 | DRR   | Issued as Pro-Forma for Meeting                 |              |
| В   | 27.07.17 | D. R. Ransome | Kanon                           | NuStar Safety<br>Committee  | Following June 2017 meeting and updated actions | Document No. |
|     |          | 1             | 1                               | 1   | 1   |              |
|     |          |               |                                 |   |   |              |
|     |          |               |                                 |   |   | NU001116_MIN |

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| 5    | ACTIONS ARISING FROM THIS MEETING   |
| 6    | DATE OF NEXT MEETING  |



# Meeting Date 21<sup>st</sup> June 2017

#### **1 REVISION HISTORY**

| Rev | Description                                     |
|-----|---|
| Α   | Issued as Pro-Forma for meeting.                |
| В   | Following June 2017 meeting and actions updated |
|     |   |
|     |   |



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### 2 ACTION STATUS

#### 2.1 Actions outstanding from Safety Committee Meetings

| 2016 - 13: Update SRS to reflect Tank 6 current operation.           | Aug 25 | 30/11/2016 | IEC61 | On-g  | د 🚯   |
|--|--------|------------|-------|-------|-------|
| 2016 – 14: Update the SRS to reflect the SIS interface with pump 41. | Aug 25 | 30/11/2016 | Docu  | On-g  | د 🚯 🕫 |
| 2016 – 15: Tank 22 Temperature                                       | Aug 25 | 30/11/2016 | Obse  | On-g  | د (چ) |
| 2016 - 18 - Eastham SIS simplification                               | Sep 29 | 07/11/2016 | Obse  | Delay | sh 🔿  |
| 2016 - 19 - Tamper Proof Labels Review                               | Aug 25 | 03/11/2016 | Obse  | On-g  | dp 🗦  |
| 2016 - 20 - Grays converted water tank reused as product tank SIS?   | Aug 25 | 07/11/2016 | FS Co | On-g  |       |



#### 2.2 Actions outstanding from Functional Safety Assessments

The following list details the status of all the FSA's which have been conducted on NuStar Energy Safety Instrumented Systems.

| NuStar Terminals Ltd                       | Location    | Tag No. | FSA Stage | Document Number | FSA Status          | Date         | Issue Status |
|--|-------------|---------|-----------|-----------------|---------------------|--------------|--------------|
| IHLA Overfill Protection SIS               | Amsterdam   | AM-SIS1 | FSA 1     | 16034RPT100     | Completed           | May 19, 2015 | Rev A Issued |
| Tank Overfill Protection SIS               | Belfast     | BF-SIS1 | FSA 4     | NU271001_RPT    | Completed           | Sep 07, 2011 | Rev F Issued |
| Tank 46 & 47 Sensor Replacement            | Belfast     | BF-SIS1 | FSA 5     | NU271011_RPT    | Completed           | Sep 18, 2013 | Rev E Issued |
| Tank 4, 5 & 12 Sensor Replacement          | Belfast     | BF-SIS1 | FSA 5     | NU271014_RPT    | Completed           | May 20, 2015 | Rev B Issued |
| IHLA Overfill Protection SIS               | Clydebank   | CL-SIS1 | FSA 4     | NU211001_RPT    | Completed           | Jul 15, 2011 | Rev G Issued |
| Tank 7 & 9 Sensor Replacement Modification | Clydebank   | CL-SIS1 | FSA 5     | NU414001_RPT    | Completed           | Nov 18, 2014 | Rev D Issued |
| Tank 4 Level of Concerns Modification      | Clydebank   | CL-SIS1 | FSA 5     | 16088RPT001     | Completed           | Sep 29, 2016 | Rev C Issued |
| IHLA Overfill Protection SIS               | Eastham     | EH-SIS1 | FSA 4     | NU231002_RPT    | Completed           | Oct 04, 2011 | Rev D Issued |
| Dockline 05 Modificiation                  | Eastham     | EH-SIS1 | FSA 5     | NU231009_RPT    | Completed           | Aug 27, 2013 | Rev C Issued |
| Dockline 05 - D SLab                       | Eastham     | EH-SIS1 | FSA 5     | NU231010_RPT    | Completed           | Jan 29, 2014 | Rev C Issued |
| Shell Modifications                        | Eastham     | EH-SIS1 | FSA 5     | NU231011_RPT    | Completed           | Apr 08, 2015 | Rev D Issued |
| Chloroform Modifications                   | Eastham     | EH-SIS1 | FSA 5     | NU231012_RPT    | CLOSED - Incomplete | Feb 25, 2016 | Rev B Issued |
| Radar Re-ranging                           | Eastham     | EH-SIS1 | FSA 5     | NU231013_RPT    | Delayed             | Jan 25, 2016 | Rev A Issued |
| IHLA Overfill Protection SIS               | Grangemouth | GM-SIS1 | FSA 4     | NU221001_RPT    | Completed           | Jul 14, 2011 | Rev D Issued |
| IHLA Overfill Protection SIS               | Grangemouth | GM-SIS1 | FSA 3     | NU221011_RPT    | Completed           | Jan 08, 2013 | Rev F Issued |
| Tanks 101, 102 & 103                       | Grangemouth | GM-SIS1 | FSA 5     | NU221012_RPT    | Completed           | Jan 22, 2014 | Rev D Issued |
| In-Scope Tanks                             | Grangemouth | GM-SIS1 | FSA 5     | NU221013_RPT    | Delayed             | Apr 13, 2016 | Rev B Issued |
| Sensor change Radar to Vibronic            | Grangemouth | GM-SIS1 | FSA 5     | NU221015_RPT    | Ongoing             | Apr 13, 2016 | Rev A Issued |
| IHLA Overfill Protection SIS               | Grays       | GR-SIS1 | FSA 4     | NU121009_RPT    | Completed           | Oct 14, 2011 | Rev E Issued |
| New Red Dockline                           | Grays       | GR-SIS1 | FSA 5     | NU121011_RPT    | Completed           | May 21, 2013 | Rev D Issued |
| Misc Modifications 🥒                       | Grays       | GR-SIS1 | FSA 5     | NU121013_RPT    | Ongoing             | Jun 21       | Rev A Issued |



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Fax: + 44 (0)1642 616447 www.pidesign.co.uk DOCUMENT NO: NU001116\_MIN ISSUE: B DATE: 27.07.17 PAGE 5 OF 31 2.2.1 Actions outstanding from Eastham FSA 5 – Chloroform

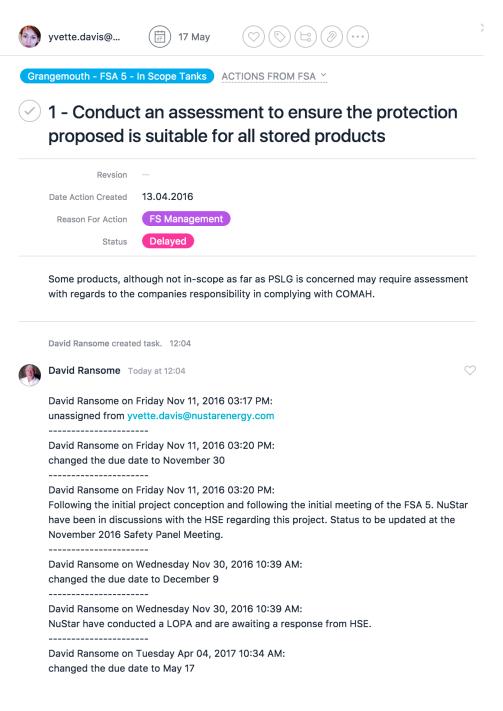
At the June 2017 Safety meeting it was decided to close this FSA 5 as not now relevant.



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#### 2.2.2 Actions outstanding from Grangemouth FSA 5 - In Scope Tank Modifications

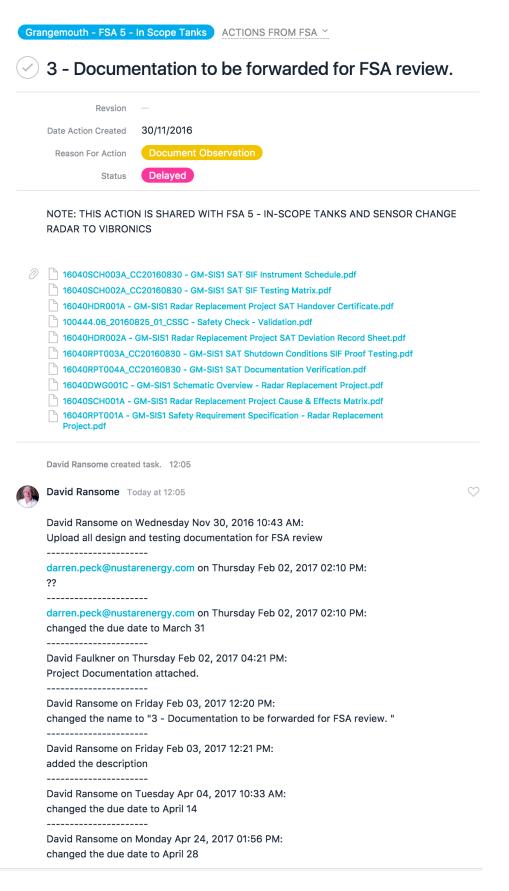
This project has been delayed due to continuing discussions with the HSE. At the June 2017 meeting it was decided to leave the FSA open.





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#### 2.2.3 Actions outstanding from Grangemouth FSA 5 – In Scope Tanks/Sensor Change





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#### 2.3 HSE Visits

None.



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#### **3** SAFETY COMMITTEE MEETINGS

The object of this committee is for NuStar Energy Ltd to organise and control the Safety Instrumented Systems throughout their UK facility to ensure satisfactory operation, functional safety and compliance with the international standard BS EN 61511.

| Date of Meeting        | 21/06/2017                                      |  |
|------------------------|---|--|
| Location               | NuStar Grays Terminal                           |  |
|                        | Prese   | nt   |
| Name                   | Company & Position                              | Competence   |
| Darren Peck            | NuStar UK - EC&I<br>Engineering Manager         | Over 20 years' experience in the petrochemical process industry ranging from design through to installation and commissioning.   |
| Yvette Davis           | NuStar UK - Senior<br>Manager for HSE           | Over 17 years' experience in managing HSE in<br>TT COMAH sites, 8 years' experience in Fuel<br>Storage Terminals, managing both Process and<br>occupational safety aspects.  |
| David Ransome<br>Chair | P & I Design Ltd –<br>Consultant                | Chartered Engineer and a Fellow of the Institute<br>of Measurement and Control with over 40 years'<br>experience in the Chemical and Process<br>Industry, specialising in High Integrity<br>Protection Systems and Safety Instrumented<br>Systems.<br>Registered Functional Safety Engineer. |
| David Faulkner         | P & I Design Ltd – Engineer                     | Involved in the maintenance and commissioning<br>of Process Plants, Storage Facilities and Safety<br>Instrumented Systems for over 15 years.<br>Experience includes on-shore systems, including<br>high integrity protection systems. A qualified<br>Functional Safety Specialist.           |
| Neil Stennett          | NuStar Grays<br>Terminal Manager                | 25 years experience in Terminals, last 2 years as<br>Terminal Manager.   |
| Martin Childs          | NuStar Grays<br>Terminal Engineering<br>Manager |  |



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#### 3.1 Minutes of Previous Meeting

The minutes of the previous meeting NU00115\_MIN Revision C were reviewed; some actions remain incomplete. See Section 2 of these minutes.

Actions within an FSA are to be controlled within the relevant FSA. Outstanding actions from FSA's are detailed in Section 2 of these minutes.



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#### 4 MANAGEMENT OF FUNCTIONAL SAFETY

4.1 SIS Performance including any maintenance, failures, activations and false alarms.

See FSMS Faults and Activations for E/550 reports.

#### 4.1.1 Belfast

| May 2017 Review | Facility | Date of Occurance | Reference | Type of Failure   | Component      | Technology | Manufactuer      | Category of Failure | Multiple | Action Taken  | Date Reviewed | Current Status    | Comments             |
|-----------------|----------|-------------------|-----------|-------------------|----------------|------------|------------------|---------------------|----------|---------------|---------------|-------------------|----------------------|
| Tank 10         | Belfast  | Jan 12            | UKBF-017  | Component Failure | Interface Unit | Vibronics  | Endress & Hauser | Safe Detected       |          | Inst Replaced | May 17        | With Manufacturer | Has a report been re |

#### Comments from Safety Meeting:

#### 4.1.2 Clydebank

Comments from Safety Meeting:

#### 4.1.3 Eastham

| May 2017 Review  | Facility | Date of Occurance | Reference | Type of Failure | Component    | Technology | Manufactuer      | Category of Failure | Multiple | Action Taken   | Date Reviewed | Current Status        | Comments                |
|------------------|----------|-------------------|-----------|-----------------|--------------|------------|------------------|---------------------|----------|----------------|---------------|-----------------------|-------------------------|
| Tank 49          | Eastham  | Dec 02, 2016      | UKEH-016  | Spurious        |              | Vibronics  | Endress & Hauser | Safe Detected       |          | OK after Reset | May 17        | No Further Action     |                         |
| Logic Solver PLC | Eastham  | Apr 01            | UKEH-017  |                 | Logic Solver | Safety PLC | PILZ             | Safe Detected       |          | OK after Reset | May 17        | Further Investigation | I noted that while I re |

Comments from Safety Meeting:



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#### 4.1.4 Grangemouth

| May 2017 Review | Facility    | Date of Occurance | Reference | Type of Failure   | Component | Technology | Manufactuer      | Category of Failure | Multiple        | Action Taken   | Date Reviewed | Current Status    | Comments              |
|-----------------|-------------|-------------------|-----------|-------------------|-----------|------------|------------------|---------------------|-----------------|----------------|---------------|-------------------|-----------------------|
| Tank 101        | Grangemouth | Jan 11            | UKGM017   | Spurious          | Sensor    | Vibronics  | Endress & Hauser | Safe Detected       | Multiple events | OK after Reset | May 17        | No Further Action | High Winds?           |
| Tank 101        | Grangemouth | Jan 20            | UKGM-018  |                   |           | Vibronics  |                  | Safe Detected       |                 | Part Replaced  | May 17        | No Further Action | This was a further fa |
| Tank 101        | Grangemouth | Mar 04            | UKGM-019  | Component Failure |           |            |                  | Safe Undetected     |                 | Part Replaced  | May 17        | No Further Action | Following previous f  |

Comments from Safety Meeting:

#### 4.1.5 Grays

| May 2017 Review | Facility | Date of Occurance | Reference | Type of Failure | Component | Technology | Manufactuer | Category of Failure | Multiple        | Action Taken   | Date Reviewed | Current Status    | Comments               |
|-----------------|----------|-------------------|-----------|-----------------|-----------|------------|-------------|---------------------|-----------------|----------------|---------------|-------------------|------------------------|
| Tank 51         | Grays    | Dec 04, 2016      | UKGR-006  | Spurious        | Sensor    | Radar      | Vega        | Safe Detected       |                 | OK after Reset | May 17        | Modification      | MTG recommend sli      |
| Tank 51         | Grays    | Dec 27, 2016      | UKGR-007  | Spurious        |           | Radar      | Vega        | Safe Detected       | Multiple events | OK after Reset | May 17        | Modification      | Further test of previo |
| Tank 51         | Grays    | Jan 12            | UKGR-008  | Spurious        |           | Radar      | Vega        | Safe Detected       |                 | OK after Reset | May 17        | Modification      | See previous           |
| Tank 51         | Grays    | Jan 29            | UKGR-009  |                 |           | Radar      | Vega        | Safe Detected       |                 | Repaired       | May 17        | No Further Action | Confirmation that thi  |

Comments from Safety Meeting:



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#### 4.2 Lifecycle Documentation

Eastham, Clydebank & Belfast complete.

Grays to be uploaded in conjunction with MTG.

Grangemouth ongoing.

Management manuals are being updated and uploaded to on-line documentation system.



#### 4.3 Functional Safety Management System

In view of the imminiment release of the CDOIF Guidance, David Ransome gave the meeting a presentation on the content of the guidance and its potential implication to NuStar's FSMS.

It was agreed to wait for the formal issue of the guidance and review any requirements that should be added to NuStar's FSMS.

Other aspects of FSM were not discussed at this meeting.



#### 4.3.2.6 Functional Safety Assessments and Audits

#### 4.3.2.6.1 Assessments

See Section 2.2 for status of Functional Safety Assessments. Prior to this meeting a FSA 5 commenced on proposed modifications to Grays SIS. See NU121013\_RPT.

FSA 4's were conducted in 2011, the company have been pro-active in the monitoring and development of the SIS through the Safety Committee. FSA 4's have not been conducted, as originally intended in 2016, they have been delayed awaiting the issue of IEC61511:2016, together with the soon to be published CDOIF guidance on Installed Safety Instrumented Systems. The committee felt that the 2017 FSA4's should be conducted with reference to the guidance.

Provisional dates for the FSA4's are to be agreed:

Belfast – Clydebank – Eastham – Grangemouth – Grays –

4.3.2.6.2 Audits

From the last meeting - The Safety Committee felt that it would be appropriate for their QA auditors to audit to audit the FSMS. However, training in IEC61511 would need to be provided to them prior to the audits.

This training has now been completed and auditing has commenced.

See ASANA action SIS Auditing - Report for 17th May 2017 meeting

From the initial FS Audit five actions have been created for review by the Safety Committee – See Section 5 for action status.

Audits have been conducted at Clydebank, Grangemouth & Belfast.



#### 4.3.2.7 Performance Monitoring

NuStar Energy have procedures and forms in place for the monitoring of all activations, failures, maintenance activities and modifications to their SIS. The safety committee reviews all activations, spurious trips at their 6-monthly meeting. Further enhancements are in place to provide performance monitoring against the designed pdf, SIL, spurious trip rate and the demand rate.

The proposed database to compare installed SIS reliability parameters is being developed by P & I Design Ltd with a view of not only containing NuStar Energy SIS components, but also other client's data to provide all clients with a greater volume for assessment. Client confidentiality is obviously respected and both individual client installed component data and the wider community data can be provided.

#### 4.3.2.8 Configuration Management

NuStar utilise programmable logic solvers and PILZ and MTG provide full support and version control. NuStar also hold copy of the latest software on their main server.

#### 4.3.2.9 SIS Security

The HSE have now published their guidance on security of IACS and will be using this as a benchmark when accessing security in relationship to Clauses 8.2.4, 11.2.12, 11.7.3 of IEC 61511.

Copy attached to Action 2017 – 02 in ASANA.



#### 4.4 SIS Testing, planning, results, data collection and analysis.

Testing Schedule:

| Terminal    | Last Test Done              | Scheduled Next Test        |
|-------------|-----------------------------|----------------------------|
| Belfast     | 10 <sup>th</sup> May 2017   | May 2018                   |
| Clydebank   | October 2016                | October 2017               |
| Eastham     | August 2016                 | July 2017                  |
| Grangemouth | February 2017               | February 2018              |
| Grays       | 21 <sup>st</sup> April 2016 | 22 <sup>nd</sup> June 2017 |

Grays testing was delayed due to Terminal operational contraints.

4.5 Training requirements and roles and responsibilities of employees and contractors.

A SIS awareness training course was conducted at Eastham on 18<sup>th</sup> January 2017. In addition to the awareness training an additional training session was conducted for NuStar auditors with a view of preparing them to conduct Functional Safety Management Systems audits as well as their current auditing duties.

One of two SIS awareness training courses was held the day prior to this meeting with another scheduled for the day of this meeting, both at Grays Terminal.

4.6 Review of organisation and resources.

There have been no changes to the organisation and resources and NuStar feel that management of the systems is satisfactory.



4.7 Outcome of Functional Safety Assessments and Outstanding Action status.

See Section 2 for actions from current functional Safety Assessments.

4.8 Review of any management of change or modifications to the systems.

None.

4.8.1 Grays SIS Various Modifications

Prior to the meeting a FSA 5 was conducted on the proposed modifications of the Grays SIS.

See Document NU121013\_RPT.



- 4.9 Review of any HSE or other agency visits.
- 4.9.1 Competent Authority Visits

No other HSE visits have taken place.

4.9.2 Magnetrol Displacers

P & I Design Ltd have identified a problem with the fixing of the PTFE displacers on some magnetrol level switches. The problem is not with all instruments, it is where the two locking nuts at the end of the eye bolt are not efficiency in retaining the displacer. Folling the issue, Magnetrol welded the nuts but this again has not been fully implemented. The fault results in a false detected failure with the dsiplacer falling from the switch.

ACTION 2017 – 06 – All Magnetrol displacers to be checked.

4.10 Review of any changes in the standard or competent authority guidelines.

IEC 61511:2016 has now been released in provisional format.

NuStar Energy Safety Committee will now work to the guidelines of IEC 61511:2016. CDOIF Guideance on Management of Installed Safety Instrumented Systems.

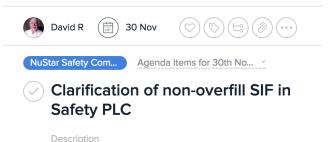
4.11 Review of competency requirements.

NuStar Energy feel that the competency of those working on the SIS systems is currently acceptable and will be reviewed in line with any additional guidelines or changes in the standard. See also 4.3.2.1.

4.12 Review of independent Instrumented Safety Functions.

NuStar Energy have maintenance agreements in place with manufactures/suppliers of their BPCS.

4.12.1 Clarification of non-SIS functions in SIS Safety PLC



See Action 2016 – 14.



|  | David Ransome (H) Aug 31   | $\bigcirc \bigcirc \textcircled{b} \textcircled{b} \textcircled{b} \textcircled{b} \textcircled{b} \textcircled{b} \textcircled{b} \textcircled{b}$ |
|--|--|---|
| Nus  | tar Safety Committee Meetings Age  | nda Items for 21st June 2017 meeting $\sim$   |
| <b>~</b>   | 2017 - 01 - FS Audit -   | Update SIS Policy Documer   |
|  | Revsion —  |   |
|  | Date Action Created 02/05/2017   |   |
|  | Reason For Action Document Obse  | rvation   |
|  | Status Not Started   |   |
| 0  | NU001002_RPT_EPolicyLifecycle_A  | .ctivities.pdf  |
|  |  | r 21st June 2017 meeting (NuStar Safety Committee Me  |
|  | David Ransome added to NuStar Safety Com<br>David Ransome assigned to you. May 3   | mittee Meetings. May 3  |
|  | David Ransome changed the due date to May  | / 17. May 3   |
|  | David Ransome Jun 21 at 13:45  |   |
|  |  | erminals Ltd and NuStar logo to be issued to P  |
|  | Safety Committee confirmed NuStar T<br>Design Ltd  |   |
|  | Safety Committee confirmed NuStar T  |   |
|  | Safety Committee confirmed NuStar T<br>Design Ltd<br>David Ransome changed the due date to Aug<br>David Ransome Jun 28 at 11:49  | g 31. Jun 21  |
|  | Safety Committee confirmed NuStar T<br>Design Ltd<br>David Ransome changed the due date to Aug<br>David Ransome Jun 28 at 11:49<br>Policy document updated to revision E                                       | g 31. Jun 21<br>- see attachment  |
| <ul> <li>•••</li> <li>••</li> <li>•••</li> &lt;</ul> | Safety Committee confirmed NuStar T<br>Design Ltd<br>David Ransome changed the due date to Aug<br>David Ransome Jun 28 at 11:49<br>Policy document updated to revision E<br>David Ransome 🖉 attached Jun 28 at | g 31. Jun 21<br>E - see attachment<br>: 11:49   |
|  | Safety Committee confirmed NuStar T<br>Design Ltd<br>David Ransome changed the due date to Aug<br>David Ransome Jun 28 at 11:49<br>Policy document updated to revision E                                       | g 31. Jun 21<br>E - see attachment<br>: 11:49   |



|    | David R 🗇 17 May 🚫 🖏 😓 🖉 …   |              |
|----|--|--------------|
| Nu | Star Safety Committee Meetings Agenda Items for 17th May 2017 meeting ~  |              |
| 0  | 2017 - 02 - FS Audit - Reference Documentation -<br>Cyber Security Guidance  |              |
|    | Revsion —  |              |
|    | Date Action Created 02/05/2017   |              |
|    | Reason For Action FS Management  |              |
|    | Status On-going  |              |
|    | Audit revealed a failure to have copies of the listed references as stated on page 3 of<br>Document Safety Instrumented System Policy and Lifecycle Activities   |              |
| ð  | HSE OG-0086 - Cyber Security for IACS.pdf  |              |
|    | David Ransome created task. 08:37<br>David Ransome moved into Agenda Items for 17th May 2017 meeting (NuStar Safety Committee<br>Meetings). 08:37<br>David Ransome added to NuStar Safety Committee Meetings. 08:37  |              |
|    | <ul> <li>David Ransome Today at 08:41</li> <li>NuStar saved and obtained the 9 listed documents along with the 2 additional documents suggested.</li> <li>o The new version of 61511 is currently not on sale yet so this is still pending and will be reviewed at the next audit.</li> <li>o The Cyber Security document is currently in draft format and out for consultation, this we be reviewed at the next audit.</li> </ul> | ∽<br>∕ill    |
|    | David Ransome attached Today at 08:41<br>HSE OG-0086 - Cyber Security for IACS.pdf   | $\heartsuit$ |
|    | David Ransome assigned to you. 08:45<br>David Ransome changed the due date to 17 May. 08:45  |              |
|    | David Ransome Today at 08:46   | $\bigcirc$   |
|    | Guidance also emailed to Yvonne.<br>Action closed.   |              |
| 0  | David Ransome completed this task. Today at 08:46  | $\heartsuit$ |



|                                      | David Ransome 💮 Sep 29 🚫 🖏 🛞 💮 \cdots  | > |
|--------------------------------------|--|---|
|                                      | Agenda Items for 21st June 2017 meeting ~         2017 - 03 - FS Audit - Contractor SIS awareness         training   |   |
|                                      | Revsion       —         Date Action Created       02/05/2017         Reason For Action       FS Management         Status       Not Started  |   |
| ð                                    | It was highlighted that Scotts Electrical Services Ltd in Belfast may not have any SIS<br>awareness training. However at present they had not been required for SIS works on<br>site.  |   |
|                                      | David Ransome created task. May 3<br>David Ransome added to NuStar Safety Committee Meetings. May 3<br>David Ransome May 3 at 08:50<br>NuStar to ensure that all outsourced companies are given additional SIS training<br>[awareness] alongside the regular site induction.   | > |
| <ul> <li>•••</li> <li>•••</li> </ul> | David Ransome attached May 3 at 08:58<br>Contractors Induction.pptx<br>David Ransome May 3 at 08:59<br>NuStar to ensure that all outsourced companies are given additional SIS training<br>[awareness] alongside the regular site induction.<br>Action taken so far - NuStar have received some additional presentation slides from P&I<br>Design for review by the NuStar Training Manager and delivered to outsourced companies. | > |
|                                      | David Ransome May 3 at 08:59<br>During the regular HSE Contractor Annual Reviews in 2017 a copy of IEC 61511 for each of the outsourced companies should be obtained and recorded within the NuStar Starquest system, ensuring compliance and continually monitored along with other certifications.   | ) |



| 2017 - 04 -<br>each SIS               |               | dividual Safety Pl           |                  |
|---------------------------------------|---------------|------------------------------|------------------|
| Revsion                               |               |                              |                  |
| Date Action Created                   | 02/05/2017    |                              |                  |
| Reason For Action                     | FS Management |                              |                  |
| Status                                | On-going      |                              |                  |
| When looking onli<br>online documenta |               | o safety plans could be loca | ated through the |



|                                  | borun  | Smith 🖄 💮 Aug 4   | (c   | ) ()   |                                      |   |
|----------------------------------|--|---|--|--|--------------------------------------|---|
| uStar                            | Safety   | Committee Meetings A  | genda Ite  | ems for 2  | 21st Jun                             | e 2017 meeting ~  |
| C020                             | - NuSt   | ar Terminals NuStar Fur   | nctional   | Safety A   | udit ~                               |   |
| 2                                | 017  | - 05 - FS Audit   | - FS/  | A stat   | tus a                                | nd on-line  |
|                                  |  | mentation   |  |  |                                      |   |
|                                  |  | Revsion —   |  |  |                                      |   |
| Da                               | ite Actior   | Created 02/05/2017  |  |  |                                      |   |
| F                                | Reason F   | or Action Document Ob   | servatio   | n  |                                      |   |
|                                  |  | Status On-going   |  |  |                                      |   |
| 2 6                              | 4  | shot 2017-05-03 09.07.26.png<br>shot 2017-05-03 09.07.45.png  |  |  |                                      |   |
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| Hie                              | de Earli   | er Activity   |  |  |                                      |   |
| Hid                              | de Earli   | er Activity   |  |  |                                      |   |
| Da                               | vid Rans   | ome created task. May 3   | ommittee   | Meetinge   | May 2                                |   |
| Da                               | vid Rans   |   | ommittee   | Meetings.  | May 3                                |   |
| Da<br>Da<br>Da                   | avid Rans<br>avid Rans<br>avid Raı   | come created task. May 3<br>come added to NuStar Safety C<br>nsome May 3 at 09:07   |  |  |                                      | ç   |
| Da<br>Da<br>Da                   | avid Rans<br>avid Rans<br>avid Raı   | ome created task. May 3<br>ome added to NuStar Safety C   |  |  |                                      | dated accordingly   |
| Da<br>Da<br>Da<br>P8             | vid Rans<br>vid Rans<br>avid Ran<br>&I Desig   | come created task. May 3<br>come added to NuStar Safety C<br>nsome May 3 at 09:07   | sure doo   |  |                                      | dated accordingly   |
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| Da<br>Da<br>Da<br>P8<br>Da<br>Sc | vid Rans<br>avid Rans<br>avid Rans<br>& Desig<br>avid Ran<br>creensh<br>Belfast  | nome created task. May 3<br>nome added to NuStar Safety C<br>nsome May 3 at 09:07<br>gn need to review and en<br>nsome attached May 3<br>ot 2017-05-03 09.07.26.p   | sure doo<br>at 09:08<br>ng   | cuments  | s are up                             | ۲<br>۲  |
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| Da<br>Da<br>Da<br>P8<br>Da<br>Sc | vid Rans<br>vid Rans<br>avid Ran<br><b>avid Ran</b><br>avid Ran<br>creensh<br>Belfast<br>FSA<br>Stage                      | come created task. May 3<br>come added to NuStar Safety C<br>nsome May 3 at 09:07<br>gn need to review and en<br>nsome added to review and en<br>ot 2017-05-03 09.07.26.p   | at 09:08<br>ng<br>Start<br>Date  | Finish<br>Date                                       | s are up                             | Online Documentation           Online Document is not showing closed,<br>last document review was           e) 05.02.2015, with comment action 8<br>completed – however actions stated on<br>pages 69 and 70 are showing actions 14,<br>15 and 16 open           Online Document is not showing closed,<br>last document review was           d) 25.03.2015 – actions updated –<br>however action 7 has no status and<br>action 15 and 16 state further action                  |
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| Eastham                               |   |   |                              |                            |  |   |
|---------------------------------------|---|---|------------------------------|----------------------------|--|---|
| FSA                                   | Comment   | Start                                   | Finish                       | Status                     | Online Documentation   |   |
| Stage<br>4                            | NU231002_RPT  | Date<br>Jan-33                          | Date<br>Dec-12               | Closed                     | Dates do not match   |   |
| 5                                     | DLS D Slab - NU231009_RPT   | Nov 11<br>Jan-13                        | Mar 14<br>Mar-14             | Closed                     | Slight difference on dates   |   |
| 5                                     | DLS G Slab - NU231010_RPT   | Aug 13<br>2014                          | 2014                         | Closed                     | Online Document is not showing closed,   |   |
| 2                                     | 013 G 540 - NO231010_RP1  | Sept 14                                 | 2014                         | Croses                     | last document review was<br>a) 15.09.14 - original issue with actions<br>on pages 172 and 173 (5 in total)   |   |
| 5                                     | Shell Mods - NU231011_RPT   | 2015                                    |                              | Open                       | Not showing online   |   |
| 5                                     | Chloroform - NU231012_RPT   | Feb-16                                  |                              | Open                       | Not showing online   |   |
| 5                                     | Radar Re-ranging -<br>NU231013_RPT  | Feb-16                                  |                              | Open                       | Not showing online   |   |
| Granger                               |   |   |                              |                            |  |   |
| FSA                                   | Comment   | Start                                   | Finish                       | Status                     | Online Documentation   |   |
| Stage<br>3                            | NU221001_RPT  | Date<br>Jan-13                          | Date<br>Mar-14               | Closed                     | Should this be NU221011_RPT?   |   |
|                                       |   |   |                              |                            | Dates correct and it is showing as closed<br>on the system in two different places<br>both as MNL as part of main<br>NU2211001_MNL document – page 106 |   |
|                                       |   |   |                              |                            | and separate document<br>NU221011_MNL - 42 pages long  |   |
| 4                                     | NU221005_RPT  | Jul-11                                  | Jan-14                       | Closed                     | Can't find NU221001_RPT online,<br>however can find NU221002_RPT -<br>which is the compliance document,<br>which was last reviewed                     |   |
| 5                                     | Tanks 101 102 and 102 -   | lan-14                                  | 0/1-14                       | Cloured                    | b) 14.07.11 - FSA Meeting - still open   |   |
| 5                                     | Tanks 101, 102 and 103 -<br>NU221012_RPT  | Jan-14                                  | Oct-14                       | Closed                     | On the system in two different places<br>both as MNL as part of main   |   |
|                                       |   |   |                              |                            | NU221001_MNL, page 148 – this one is<br>showing as closed out  |   |
|                                       |   |   |                              |                            | however separate document<br>NU221012_MNL - 26 pages is showing  |   |
|                                       |   |   |                              |                            | open last review   |   |
|                                       | in formation in the second second   | -                                       | _                            | -                          | d) 09.10.14 action update (actions on<br>pages 20/21)  |   |
| 5                                     | In Scope tanks - NU221013_RPT   | Apr-16                                  |                              | Open                       | Not showing online   |   |
| Grays<br>FSA                          | Comment   | Start                                   | Finish                       | Status                     | Online Documentation   |   |
| Stage<br>4                            | NU121009_RPT  | Date<br>Apr-11                          | Date<br>Mar-14               | Closed                     |  |   |
|                                       |   | Oct 11                                  |                              |                            | No colonesses on the freet of th   |   |
| 5                                     | New dock line - removal of tank<br>37 - NU121011_RPT  | May-13<br>Aug 13                        | Feb-14                       | Closed                     | No reference on the front of this<br>document to what it was for   |   |
|                                       | Ransome assigned to<br>Ransome changed th   |   |                              |                            | 17. May 3  |   |
|                                       | Ransome Jun 30  |   |                              |                            |  | pleted.   |
| elfas<br>wait<br>nline<br>16 c<br>SAN | st FSA 4 - NU2710<br>ing confirmation f<br>e documentation i<br>open awaiting con<br>A action control s | from N<br>is at R<br>nfirma<br>still sh | Revision<br>tion c<br>nows a | on E v<br>of con<br>Actior | which is the current Re<br>npletion of Actions.<br>n 14 open and awaiting  | evision, showing Actio<br>g response from Belfa<br>ation of action comple |



David Ransome Jul 3 at 10:51 Clydebank NU4141001\_RPT now at Rev D Closed and online.

David Ransome Jul 3 at 11:01 Clydebank 16088RPT001 Rev C - Ongoing and online.



David Ransome Jul 3 at 11:32 Eastham NU231002\_RPT Rev D Closed - unsure of mis-match of dates. Document closed.

David Ransome Jul 3 at 11:47 Eastham NU231009\_RPT Rev C Closed - believe date issue as previously been rectified.

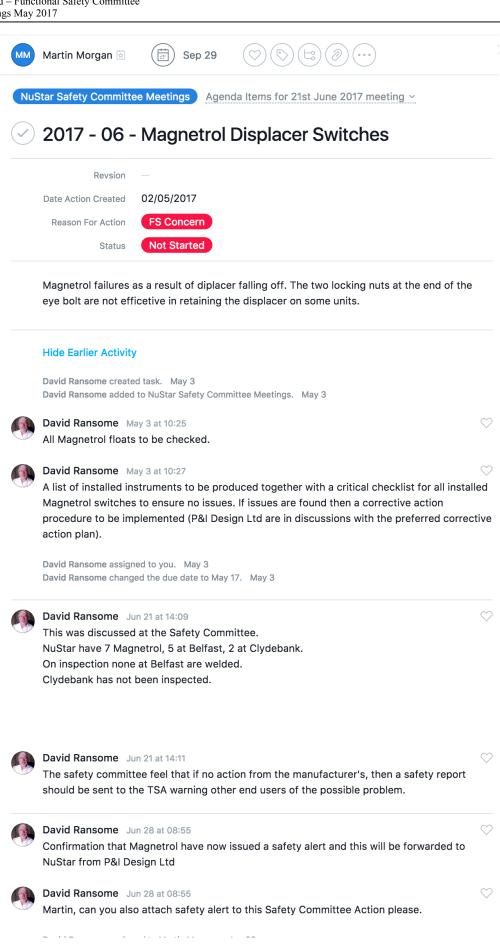


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DOCUMENT NO: NU001116\_MIN ISSUE: B DATE: 27.07.17 PAGE 26 OF 29

| David Ransome Jul 3 at 11:55 State and the second s |
|--|
| David Ransome Jul 3 at 12:42       C         Eastham NU231011_RPT Rev D Closed and online       C  |
| David Ransome Jul 3 at 12:44 $\bigcirc$ NU231012_RPT Online at Rev A, this has just been updated and needs raising to Rev B online   |
| David Ransome Jul 3 at 12:45 $\heartsuit$<br>NU231013_RPT Online at Rev A but not the signed copy, to be replaced by the signed copy   |
| David Ransome Jul 3 at 13:12<br>NU221001_RPT is the original FSA 4 fro Grangemouth, from the Audit NU221011_RPT is a<br>separate FSA 3 conducted in 2013.<br>MNL and online copy to be converted into Management Manual. Duplication of FSA's as<br>separate documents and in design manual to be rectified.   |
| David Ransome Jul 3 at 13:21<br>NU221012_RPT Current Revision is Rev D and closed. This report is duplicated with the online<br>documentation system as a separate document and in the design MNL, it is also at the wrong<br>revision Rev C. Management Manual to be created.   |
| David Ransome Jul 3 at 13:33 $\bigcirc$<br>NU221013_RPT Current Revision is B. Does not appear in MNL or online. MNL to be produced<br>into 3 book system.   |
| David Ransome Jul 3 at 13:44 $\bigcirc$<br>NU221014_RPT Current Revision is A. Does not appear in MNL or online. MNL to be produced<br>into 3 book system.   |
| David Ransome Jul 3 at 13:49 $\heartsuit$<br>NU221015_RPT Current Revision A. Does not appear in MNL or online. MNL to be produced<br>into 3 book system.  |
| David Ransome Jul 3 at 14:07       Image: Second Seco   |
| David RansomeJul 3 at 14:08NU121011_RPTCurrent Revision D. Online but not within 3 book structure.   |
| David Ransome Jul 3 at 14:14 $\heartsuit$<br>NU121013_RPT Current Revision B. Needs to be added to Management MNL and fb   |
| David Ransome Today at 10:21<br>Documentation update ongoing - Management Manuals should be updated and added to online documentation by end of July 2017.   |







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### 6 DATE OF NEXT MEETING

28<sup>th</sup> November 2017 at Eastham Terminal.



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### Signature Certificate

Document Reference: VJTHPVJ7WKDRCELWRVMZ8G



Easy Online Document Signing



David Ransome Party ID: NYHVRWIPU3VVKHF64AJ82F IP Address: 86.14.218.30 verified email: drr@pidesign.co.uk



#### Multi-Factor Digital Fingerprint Checksum

a135873411f55727cb1974e656dfcb3ad60b1512

## 

#### Timestamp

#### Audit

| 2017-07-27 03:31:38 -0700 | All parties have signed document. Signed copies sent to: David Ransome and |
|---------------------------|--|
|                           | David Ransome.   |
| 2017-07-27 03:31:38 -0700 | Document signed by David Ransome (drr@pidesign.co.uk) with drawn signature |
|                           | 86.14.218.30   |
| 2017-07-27 03:31:05 -0700 | Document viewed by David Ransome (drr@pidesign.co.uk) 86.14.218.30         |
| 2017-07-27 03:31:04 -0700 | Document created by David Ransome (drr@pidesign.co.uk) 86.14.218.30        |
|                           |  |

