



Sellafield Ltd



# Drawing Update Service (DUS) Procurement

*Market Engagement Day UPDATED*

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# Drawing Update Service (DUS) Procurement

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# Strategic Context

- Sellafield Ltd's Engineering function is centred within the Enterprise Plant Engineering (EPE) Directorate and is led by the SL Chief Engineer
- EPE employs the Engineering Managers and System Engineers that are deployed within the individual Operating Units across the site
- It is EPE (via the EMs / SEs) that is accountable for "Configuration Management" across the site
- EPE also includes the Plant Facing Design Office (PFDO), the organisation that provides design support to the operating plants

# Strategic Context

- The PFDO includes the Drawing Updates Team who are responsible for providing a service to EPE that ensures that plant record drawings and schedules are kept up to date
- Plant record drawing updates are undertaken by the supply chain via a “Drawing Updates Service”
- This helps ensure compliance with 2 key SL processes: the PMP and “Redline Drawing” SLPs
- The service is site-wide and must be fit-for-purpose, agile, future proof and cost effective

# Background Information

- The configuration baseline is the set of all documents, including safety, used to identify, justify, and demonstrate the physical, functional, or operational requirements of configuration controlled structures, systems and components.
- The objective of Configuration Management (CM) is to establish consistency between the configuration baseline, the plant design requirements and actual physical configuration of the plant, and to maintain consistency throughout the plant lifetime
- Baseline information is categorised as follows:
  - Essential - Documents and drawings that are essential to the safe daily operation of the facility.
  - Support - Documents and drawings, in addition to Essential, that provide engineering, maintenance, and operations the details necessary for plant operations.
  - General - Documents and drawings that provide engineering details necessary for construction. Stored, usually not maintained
  - NCB - Document types that are not maintained

# Background Information

- Plant Modification Proposals (PMPs) are used to control any ***modification*** or ***experiment***, carried out on any part of an existing plant or process which may affect ***safety*** or environmental performance
- Describes the impact of the mod on the facility configuration baseline
- The PMP identifies:
  - Design documentation produced (drawings, schedules etc.)
  - Identifies the types of design documentation that will need to be updated during implementation
  - Details the actual design documentation to be updated
- Closely linked to facility Configuration Management Implementation Plans (CMIP's)

# Background Information

- The Redline Drawing process is used to document and assess the as-found condition of existing plant.
- To identify installed conditions when no drawing is available from a document control system.
- To provide information when a drawing is illegible.
- Design Authority / RE's shall evaluate:
  - Completion of design changes to accept the as-found drawing condition. Identification and modification of supporting documents and drawings affected by the redline.
  - Completion of work to restore the plant to the requirements of the existing drawing.
  - Completion of design changes to return the facility installation and drawing to the design intent.



# Lot 1 Scope

## Drawing Updates for PMP and RDCF Close-out

- Update all configuration baseline drawings impacted by the PMP or RDCF
- Software packages:
  - AutoCAD
  - GTX Raster CAD
- Regular site surveys and stakeholder engagement
- Provision of 'Helpdesk' and 'Technical Support' function on Sellafield Limited, West Cumbrian site
  
- Level of intelligence of Sellafield Limited processes
  
- Awarded to a single supplier

# Lot 1 Scope

- The scope covers the provision of an engineering drawing update service to support the PMP process, Redline drawing process (RDCF's) and any other 'as built' packages.
- The supplier will have the ability to provide the following main services:
  - Identify the engineering drawings that require amending for each PMP, RDCF and other record package.
  - Site survey of engineering drawings as necessary to mark up 'as built' changes.
  - Modification of existing engineering drawings (and production of new ones where necessary) using AutoCAD and raster editing software.
  - Modification of associated plant asset schedules (line, valve, plant item etc)
  - Fully check all completed packages ready for approval by the in house Engineering Support Team.

# Lot 1 Scope

- Provision of 'Helpdesk' and 'Technical Support' function on Sellafield Limited, West Cumbrian site
- The key tasks of the Helpdesk are to answer general queries and enquiries about any packages currently being undertaken by the Team and to carry out support tasks for all stages of the drawing update process. e.g. book in jobs, request drawings, convert drawings, send out prints, customer satisfaction etc.
- The key tasks of the Technical Support function can be defined as 'any job that is outside of the normal scope of either a PMP or RDCF or any job that supports the completion of a PMP. e.g. Confirmation that drawing updates for PMP's have been completed to a satisfactory state when done by 3<sup>rd</sup> parties, asset schedule updates etc.

# Lot 2 Scope

## Alternative Design Tools and Specialist Services

- Update all configuration baseline drawings undertaken through authoring tools other than AutoCAD and GTX Raster CAD
- Software packages include:
  - Bespoke Sellafield Limited software, e.g. Control And Electrical Systems Archive and Retrieval (CAESAR) and CONCISE
  - Computervision CADD5
  - Building Information Modelling (BIM) software e.g. Autodesk's Revit
- Mainly off-site service
- Awarded to one supplier

# Lot 3 Scope (was previously called Lot 2)

## Drawing Modification/Tracing Service

- Modification and tracing of drawings through technically approved packages of information containing marked-up prints
  - CAD operator adept in the use of AutoCAD and GTXRaster CAD software
  - Mainly off-site service
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- Awarded to one supplier

# Commercial Strategy

- Fit-for-purpose procurement
  - Encourage wide participation
  - Level playing field for SMEs
  - Tender process will follow:
    - Official Journal of European Union (OJEU) 'Open' or 'Restricted' procedure
    - Both generic and skill area specific questions
  - 2+1+1 anticipated framework agreement
  - Total value across all 3 Lots £8 million
  - Issued via Complete Tender Management (CTM)

# Commercial Strategy

- Lotted framework agreement
- £8m estimated total value across 3 lots over maximum 4 years
- Lots:
  1. Drawing Updates for Plant Modification Proposal (PMP) and Red line Drawing Control Form (RDCF) Close-out
  2. Alternative Design Tools and Specialist Services
  3. Drawing Modification/Tracing Service

# Commercial Strategy

- Developed Sellafield Limited processes and governance within bounds of contract regulations
- Lot 1:
  - Follow PFDO work flow's depending on situation (PMP or RDCF)
- Lot 2 and 3:
  - Follow DUS team's pre-determined process
  - Lot 2 will involve wider stakeholder engagement



# Commercial Strategy - Pricing

- Lot 1:
  - rates deck priced against identified roles
  - jobs priced at rate x hours
- Lot 2
  - individual work packages
  - rates deck priced against identified roles
  - jobs priced at rate x hours
- Lot 3
  - fixed price cost per drawing against pre-determined 'norms'

# Commercial Strategy – Pricing (Lot 2 ‘norms’)

A series of 3 ‘norms’ priced as per table below

Category	Description
Norm 1	Simple changes, e.g. Drawing frame updates, minor notes and comments. Typically < 2 hours
Norm 2	Medium complexity changes, e.g. extensive modifications, redraw of some details, new elevations, etc. Typically < 4 hours
Norm 3	Complete redraw of drawing or extensive changes to complex drawings. Typically < 1 day

Costs for associated printing Plot sizes A0; A1; A2 and A3

# DUS: Key Procurement Dates

- Market Engagement – September 2016
- Preparation – September/October 2016
- Issue PQQ and ITT – end of February 2017
- Closing date for bids – April 2017
- Evaluation – May 2017
- Award – end of June 2017
- Lead in time for Framework commencement – July to August 2017