

LINC with Sellafield

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Opportunity 5

Work Package 5/2018 – Small bore stainless steel tube internal pipe cutting process.



THE OPPORTUNITY

Work Package 5/2018

Sellafield Ltd issue this Opportunity to explore the potential for a tube cutting system that can be fed internally down a small bore stainless steel pipe to a prescribed depth in order to carry out a cut. It should then be able to be withdrawn up the tube, potentially carrying out further cuts on the way, before being fully withdrawn from the pipe. As a minimum the system should be able to complete two cuts prior to being fully withdrawn. At this point parts of the system should be able to be refurbished or replaced prior to being inserted into another pipe to continue cutting.

The challenge is to adapt a current system or to provide a new system to internally cut a 1" (one inch) schedule 80 stainless steel pipe. The primary requirement for the system is to cut out a section (1 metre) of the thermocouple tubes (pipes) that go from floor boxes in the operations floor vertically down into the cells below (the thermocouple stringer will be removed prior to cutting the pipes) – ref. Appendix 2 'Supporting Drawings/Sketches'.

A minimum of two cuts will need to be made in each pipe.

The cuts will be above the contents of the cells and the cut section will fall into the compartment. The first cut will be nominally 2 metres below the operations floor, the system will then be raised approximately a metre before carrying out a second cut.

Statement of requirements:

We require SMEs to develop a cutting system that meets the requirements detailed in this document.

The system should:

- Be manually deployable down the pipe from the operations floor, the system will need to have flexibility built in as straight vertical access from above is not always possible due to plant constraints.
- Be able to reliably carryout a minimum of two cuts prior to being withdrawn from the pipe.
- Allow circa 3-5 Sellafield Ltd operatives to be trained to operate and maintain the cutting system (preference for training location is offsite and local to West Cumbria).

For the purpose of assessing the overall safety of the cutting system testing/trials should be carried out taking account of the following:

- Operability of the cutting: deployment complexity, and duration.
- Set up time: process, service requirements, complexity.
- Cutting duration test: reliability and consistency.
- Robustness: Recovery from failure and reliability.
- Safety consequences: Implications of failure whilst deployed specific hazards.

All development or modification changes are to be recorded for CE marking purposes. CE marking is required for the final product due to its imminent deployment by Sellafield Ltd operatives.

Target timescales:

- Deliverables should be completed within 12 weeks of contract award.

Deliverables:

1. Document Pack Including:
 - a. Cutting system selection review – Including selection table and justification of final down selection.
 - b. Testing documentation - Including the test outline and prediction of result vs the recorded result.
 - c. Cutting system training schedule, numbers to be trained and training delivery to be agreed.
2. a. Supply the cutting system and all peripheral equipment associated with its direct operation.
 - b. Complete training of Sellafield Ltd operatives on the cutting system

Proposed Terms and Conditions:

Any contract (if any) placed subsequent to this challenge will be subject to the following standard form of contract: **CFMT 104 LINC Professional Services.**

Proposal Requirements

SMEs who are interested in this opportunity please provide a proposal addressing the following:

1. A statement demonstrating understanding of the Statement of Requirements, how it is envisaged they will be delivered and why you believe you are best placed to support Sellafield Ltd on this opportunity along with details of the proposed System. **No more than 1 side A4**
2. Details of the proposed resources including key roles, names, relevant experience and details of case studies where similar work has been performed before including results realised and reference contacts which may be called upon. **No more than 2 sides A4**
3. A proposed maximum target cost to produce the deliverables – please complete the pricing schedule embedded in Appendix 1.

These proposals will be reviewed by Sellafield Ltd against the criteria set out in Appendix 1 and we will engage further and facilitate collaboration with those who show the greatest potential in meeting our requirements.

Your proposal for this opportunity must be in English, costs must be in Sterling and presented in writing.

Supporting Documents

To request copies of the supporting documents 'Appendix 1 – Evaluation Criteria' and 'Form of Contract – CFMT 104 LINC Professional Services' please contact linc@sellafieldsites.com and we will respond within our normal business hours (Mon-Fri).

Copies of Appendix 2 (Supporting Drawings/ Sketches) will be provided following a registration of interest.

Deadline

We will be holding an open telephone conference at **09:00 (GMT) on Wednesday 1st August 2018** for any of our registered LINC companies interested in submitting a proposal to ask questions. To register your interest in taking part in the call please email linc@sellafieldsites.com and we will provide you with dial in details.

This opportunity is only available to companies registered on LINC at the time of publication of this challenge. Registration for future challenges remains open.

To submit a proposal to LINC for this work package please email your proposal (including all associated attachments) to linc@sellafieldsites.com for *Work Package 5/2018 Small bore stainless steel tube internal pipe cutting process*, no later than **17:00 (GMT) on Tuesday 21st August 2018**.

ABOUT LINC

LINC with Sellafield Ltd is a scheme that encourages SMEs at local and national level to collaborate and deliver innovative solutions to the mission at Sellafield.

Work packages that set out some of the challenges we are addressing at Sellafield will be published via LINC.

LINC has been established exclusively for SMEs and has been designed to provide Sellafield Ltd with direct access to SMEs in addition to supporting Sellafield Ltd's contribution to the UK SME Agenda.

All SMEs must be pre-registered with LINC before submitting a proposal. Details of SMEs registered with LINC will be published periodically to support and encourage further collaboration.

All opportunities issued via LINC shall be valued at no more than £150,000 and therefore less than the prevailing threshold levels for supplies and services applicable to the Public Contracts Regulations 2015. No contracts subsequent to any opportunity advertised via LINC shall be awarded in excess of this threshold. Opportunities valued above these threshold levels will be made available through our Complete Tender Management system and published on the Official Journal of the European Union.

To maintain simplicity, all subsequent contracts will be subject to one of our standard Forms of Contract which will be set out within each opportunity.

Appendix

Appendix 1 – Evaluation Criteria. This is how the responses from the LINC process will be evaluated against each other.

Appendix 2 – Supporting drawings / sketches.