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Planning

Waste Packaging & Encapsulation Plant Distributed Control System

Sellafield Ltd

F01: Prior information notice

Prior information only

Notice identifier: 2024/S 000-025419

Procurement identifier (OCID): ocds-h6vhtk-0489df

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Section I: Contracting authority

I.1) Name and addresses

Sellafield Ltd

Hinton House, Birchwood Park Avenue

Warrington

WA36GR

Contact

Richard Dawson

Email

richard.j.dawson@sellafieldsites.com

Country

United Kingdom

Region code

UKD1 - Cumbria

Internet address(es)

Main address

<https://www.gov.uk/government/organisations/sellafield-ltd>

Buyer's address

<https://www.gov.uk/government/organisations/sellafield-ltd>

I.3) Communication

Additional information can be obtained from the above-mentioned address

Electronic communication requires the use of tools and devices that are not generally available. Unrestricted and full direct access to these tools and devices is possible, free of charge, at

<https://atamis-2464.my.site.com/s/Welcome>

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Nuclear Decommissioning

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Waste Packaging & Encapsulation Plant Distributed Control System

Reference number

C13138

II.1.2) Main CPV code

- 48151000 - Computer control system

II.1.3) Type of contract

Supplies

II.1.4) Short description

Design and build of a Distributed Control System for the Waste Packaging & Encapsulation Plant

II.1.5) Estimated total value

Value excluding VAT: £7,600,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 35710000 - Command, control, communication and computer systems

II.2.3) Place of performance

NUTS codes

- UKD11 - West Cumbria

Main site or place of performance

Sellafield site

II.2.4) Description of the procurement

The Waste Packaging and Encapsulation Plant (WPEP) is a two-line process plant designed for encapsulating Flocculant (FLOC) arisings from the Enhanced Actinide Removal Plant (EARP) process, waste from the Segregated Effluent Treatment Plant (SETP) and the Effluent Plant Maintenance Facility (EPMF). The waste is encapsulated in stainless steel drums within a cement mix. Filled drums are lidded, and then monitored before being stored, initially in the WPEP Store, before being exported for longer term storage in the Encapsulated Product Stores.

The aim of the project is to replace the existing WPEP Distributed Control System (DCS) with a replacement control system based on modern technologies, whilst applying relevant Sellafield standards, guides and procedures.

The project aims to:

- Replace the existing DCS hardware, system software and configuration with a modern control system ensuring that the plant continues to function in the same manner
- Incorporate the currently independent Drum Decontamination and Powders PLC functionality to the replacement WPEP control system

The operability of the replacement control system is to align, as closely as possible, to the existing control system to reduce the impact on operator training and the changeover between the two systems.

- The replacement control system will be installed such that the existing control system remains in situ, providing a fall-back in the event of delays or commissioning issues. However, given space constraints, it may not be possible to do this in all instances and some existing equipment may be removed prior to installing elements of the replacement control system.

The scope of activities are to include (but not be limited to):

- a) Familiarisation with the existing control system to aid understanding
- b) The production of detailed hardware and software designs, consistent with the relevant clauses specified in the standards and capable of satisfying the requirements specified in the User Requirement Specification (URS)
- c) Carrying out the manufacture and assembly of all items of hardware, consistent with the relevant clauses specified in the standards and capable of satisfying the requirements specified in the URS
- d) Implementing structured software, consistent with the functional requirements

documentation

- e) Production and delivery of all supporting design documents, consistent with the relevant clauses specified in the standards and as listed in the URS
- f) Preparation and submission of Technical Queries (TQs)
- g) Carrying out the detailed design and build, of a simulation model, including the production of all supporting design documentation
- h) Carrying out testing in accordance with the relevant clauses specified in the standards and as described in the URS
- i) Carrying out training in accordance with the relevant clauses specified in the standards and as described in the URS
- j) Delivery of the system to the location specified in the contract documentation
- k) Provision of support during Setting to Work and Commissioning in accordance with the URS

The procurement will be carried out under the Open procedure. The scope of the contract includes the design, build, test & delivery to the Sellafield site.

Sellafield Ltd are exploring an opportunity to hold a market engagement day allowing parties potentially interested in bidding an opportunity to access further information. If a market engagement day is organised a further PIN outlining the time, date and location would be published.

II.2.14) Additional information

The procurement has been designed as a single lot covering the design, build, test, and delivery. Due to the nature of the requirement, keeping the scope as one single lot will allow the successful organisation to efficiently manage the full end-to-end scope of the project. A period where interested parties can submit clarification questions will be initiated upon publishing of the Contract Notice within the Atamis eSourcing Portal.

II.3) Estimated date of publication of contract notice

15 November 2024

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes

Section VI. Complementary information

VI.3) Additional information

Additional CPV Codes:

32573000: Communications control system

42961000: Command and control system

35711000: Command, control, communication systems

35712000: Tactical command, control and communication systems