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Planning

Tritium Plant Virtual Control Room

United Kingdom Atomic Energy Authority

F01: Prior information notice
Prior information only
Notice identifier: 2024/S 000-024185
Procurement identifier (OCID): ocds-h6vhtk-0486e1
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Section I: Contracting authority

I.1) Name and addresses

United Kingdom Atomic Energy Authority

Culham Campus

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OX14 3DB

Contact

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Country

United Kingdom

Region code

UKJ14 - Oxfordshire

National registration number

N/A

Internet address(es)

Main address

http://www.gov.uk/government/organisations/uk-atomic-energy-authority

Buyer's address

https://uk.eu-supply.com/ctm/Company/CompanyInformation/Index/72814

I.3) Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at

https://uk.eu-supply.com/app/rfq/rwlentrance_s.asp?PID=84268&B=UKAEA

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Fusion Research

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Tritium Plant Virtual Control Room

Reference number

T/IB126/24)

II.1.2) Main CPV code

- 48151000 - Computer control system

II.1.3) Type of contract

Supplies

II.1.4) Short description

UKAEA is currently designing a new tritium processing plant, referred to as the Hydrogen-3 Advanced Technology (H3AT) Facility. The H3AT Facility will be located on the UKAEA Culham site in the existing H3AT building.

A virtual control room for the H3AT facility is required to train operators, engineers and users on the operation of the facility, by providing the capability to simulate the behaviour of the tritium processing plant. It is envisaged that this will be similar to the operator training simulators used elsewhere in industrial processing plants. The design for the H3AT facility is based on process models developed using AVEVA Process Simulation software.

The process control and safety systems for the H3AT facility consists of the following three systems:

• H3AT Integrated Control System

• H3AT Integrated Interlock System

• H3AT Integrated Safety System

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 30200000 - Computer equipment and supplies
- 48100000 - Industry specific software package
- 48150000 - Industrial control software package
- 51900000 - Installation services of guidance and control systems

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

II.2.4) Description of the procurement

UKAEA is currently designing a new tritium processing plant, referred to as the Hydrogen-3 Advanced Technology (H3AT) Facility. The H3AT Facility will be located on the UKAEA Culham site in the existing H3AT building.

A virtual control room for the H3AT facility is required to train operators, engineers and users on the operation of the facility, by providing the capability to simulate the behaviour of the tritium processing plant. It is envisaged that this will be similar to the operator training simulators used elsewhere in industrial processing plants. The design for the H3AT facility is based on process models developed using AVEVA Process Simulation software.

The process control and safety systems for the H3AT facility consists of the following three systems:

• H3AT Integrated Control System

• H3AT Integrated Interlock System

• H3AT Integrated Safety System

The envisaged scope of supply is for the design, build and installation of a virtual control room, including the requisite hardware, software, licences and furniture. The supplier is expected to provide a fully integrated solution incorporating both Siemens PCS7/S7 for the control and safety system and AVEVA Process Simulation software for the process modelling.

Initial requirements for the process control and safety system include the requisite hardware for a Siemens PCS7 control system, and S7 control and safety PLC’s. Four workstations are required to be used as both operator and engineering workstations, with two or three monitors per workstation.

II.3) Estimated date of publication of contract notice

29 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