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Not applicable

In-Vessel Mirrors for the MAST-U EBW System

United Kingdom Atomic Energy Authority

F14: Notice for changes or additional information

Notice identifier: 2022/S 000-002938

Procurement identifier (OCID): ocds-h6vhtk-030170

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Section I: Contracting authority/entity

I.1) Name and addresses

United Kingdom Atomic Energy Authority

Culham Science Centre

Abingdon

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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>

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

In-Vessel Mirrors for the MAST-U EBW System

Reference number

T/HS286/21

II.1.2) Main CPV code

- 38622000 - Mirrors

II.1.3) Type of contract

Supplies

II.1.4) Short description

UKAEA is installing an Electron Bernstein Wave (EBW) system on MAST-U, which aims at injecting two dual-frequency (28GHz and 34.8GHz) microwave beams each of up to 900kW and pulse duration of 4.5s.

There are eight 1 OFF in-vessel copper-coated graphite mirrors. The primary function of the in-vessel mirrors is to redirect the microwaves, produced by the gyrotron, and direct these into the plasma.

The main microwave mirror face has a curved profile, providing focusing of the beam. The curved profile is defined using an ellipsoid shape.

These mirror faces absorb a small percentage of the microwaves. These absorbed microwaves act as a heat flux on the mirror face in a gaussian distribution, peaking at 750kW/m². A uniform radiative plasma load of 210kW/m² also acts on all faces excluding the mirror face.

Section VI. Complementary information

VI.6) Original notice reference

Notice number: [2021/S 000-031225](#)

Section VII. Changes

VII.1) Information to be changed or added

VII.2) Other additional information

Extended deadline