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Planning

## **Thames Barrier - Mirrlees Blackstone engines three-quarter life survey**

ENVIRONMENT AGENCY (Defra Network eTendering Portal)

F01: Prior information notice

Prior information only

Notice identifier: 2023/S 000-037125

Procurement identifier (OCID): ocds-h6vhtk-042675

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### **Section I: Contracting authority**

#### **I.1) Name and addresses**

ENVIRONMENT AGENCY (Defra Network eTendering Portal)

Seacole Building, 2 Marsham Street

London

SW1P 4DF

#### **Email**

[lu.mao@defra.gov.uk](mailto:lu.mao@defra.gov.uk)

#### **Country**

United Kingdom

#### **Region code**

UK - United Kingdom

**Internet address(es)**

Main address

<https://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs>

Buyer's address

<https://defra-family.force.com/s/Welcome>

**I.3) Communication**

Additional information can be obtained from the above-mentioned address

**I.4) Type of the contracting authority**

National or federal Agency/Office

**I.5) Main activity**

Environment

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

Thames Barrier - Mirrlees Blackstone engines three-quarter life survey

#### **II.1.2) Main CPV code**

- 50532300 - Repair and maintenance services of generators

#### **II.1.3) Type of contract**

Services

#### **II.1.4) Short description**

Provision of inspections and services, including replacing spares, to enable the engines to be suitable for a further 10-15 years period.

The engineer/s working on the project must have in-depth knowledge of ESL 16 twin bank engines, with proven evidence of experience. The successful supplier will provide spares when required, within a reasonable lead time, with proof of conformity that all spare parts to be used within the contract are new, unused genuine/OEM original supply by issue of Certificate of Conformity/Authenticity from OEM.

The opportunity is being administered on Defra's e-tendering portal:

<https://defra-family.force.com/s/Welcome>

If you are interested in this tender, please register your interest on the above portal, by 17:00, 21/01/2024.

Please note that any personnel who will deliver the works on site will be required to have a minimum of CTC (Counter Terrorist Check) clearance, prior to the award of the contract.

#### **II.1.6) Information about lots**

This contract is divided into lots: No

### **II.2) Description**

#### **II.2.2) Additional CPV code(s)**

- 50532300 - Repair and maintenance services of generators

#### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

#### **II.2.4) Description of the procurement**

The three Mirrlees Blackstone engines (ESL16 twin bank engine) installed at Thames Barrier are fast approaching their anticipated three-quarter life survey. The following inspections and component overhaul are proposed, in order to enable the engines to be suitable for a further 10-15-year period.

1. Nodal Damper Coupling (NDC) fluid level check
2. Gearbox bearing and final alignment verification
3. Cylinder Liner Nose O-ring Renewal
4. Liner deglazing and Piston Ring Pack replacement
5. Cylinder Head Decarbonising and Pressure Test
6. Jacket Water Pump.
7. Standard Service Procedures

Within procedures 1 - 6 carry out standard service work to include:

- Recalibration of fuel injectors (does not include nozzle replacement)
  - Pressure testing of internal fuel system
  - Renewal of lube oil filter elements (engine)
  - Renewal of lube oil filter elements (gearbox)
  - Renewal of fuel filter elements
  - Re-setting of exhaust valve tappet clearances
  - Visual Inspection of internal pipework
  - Visual Inspection of camshaft assembly and drive gear train
  - Visual Inspect all coolers and heat exchangers for external leakages
  - Operational check and adjustment of mechanical overspeed
  - Operational check and adjustment of decompression system
  - Renewal of all crankcase and camshaft door joints
  - Check and record crankshaft deflections
  - Measure and record crankshaft end float
  - Operational check and adjustment of internal and external fuel rack linkage
  - Operational check of engine and gearbox lube oil pre-prime system
8. Recalibration of on engine sensors
  9. Re-commissioning / load test

#### **II.3) Estimated date of publication of contract notice**

1 March 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: No