ESKOM

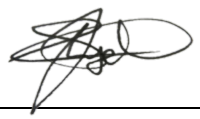
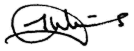
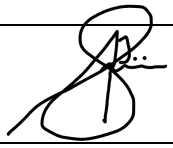
KOEBERG NUCLEAR POWER STATION

User Requirement Specification (URS)

PROVISION OF A CORROSION PROTECTION AND SURFACE COATING SERVICE

NEW 5 YEAR CONTRACT

10 MAY 2026 – 09 MAY 2031

Compiled by:	S Yeko		2025/10/16	Senior Supervisor
Reviewed by:	L Williams		2025/10/16	Senior Advisor
Approved By	K Phiri		2025/10/16	MSS Manager

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1. DESCRIPTION

The provision of corrosion protection services during outages and online at Koeberg Operating Unit inclusive of emergent work. The Contractor will provide services in accordance with the Employer's procedures and processes and must be capable of providing the service to the highest quality, and must provide professional advice to the Employer, where necessary. This URS considers the objective and scope of the works. All details relating to the labour, quality and equipment associated with the work are specified herein.

2. OBJECTIVE

The objective of this contract is to ensure access to specialised corrosion experts and the latest technologies, leveraging the proven success of this output-based model. The recommended contract strategy is to maintain the consolidated surface coating approach under a single contract, while expanding requirements to include chemical-resistant rubber linings and Corrocoat-brand coating materials. The contracting method remains output-based, with Eskom paying for completed square meters (m2), inclusive of all input costs.

3. SCOPE OF WORK

The scope of work will include the preparation and execution of all planned Corrosion Protection and surface coating activities required at KOU. The activities that will form the foundation of the service are but not limited to are:

- Supply of consumables, ancillaries and materials including all paint, turpentine, PVC/Denso tape, etc.
- Repair of rubber lining defects that are recommended by Engineering in any other system covered by service specification(s) listed in this contract.
- Repair and apply approved coatings on various system components including but not limited to CRF outlet water-boxes and pipes, CRF & SEC pumps (volute casing, back plate, stuffing box, and pump sleeves) and defects that are recommended by Engineering in any other system covered by service specification(s) listed in this contract.
- The supplying and delivering and transportation of contractor equipment.
- The provision of labour, surface preparation, transport of labour force, supervision and suitably qualified QC personnel for the preparation, evaluation, application and completion of all tasks.
- The dose management of all personnel, effective resource scheduling and pre-job planning to ensure no delays to the Employer’s scheduled maintenance activities
- The provision of a capable site management team, in accordance with the Employer’s requirements including quality assurance, quality control, safety management and
- acceptable supervision for the performance of the service and
- Compilation of work packages.

4. CATEGORIES OF LABOUR REQUIRED

The Contractor and his representatives appointed to perform the work shall be competent in the field for which they are appointed. The Contractor to ensure that all staff are qualified and certified in line with the requires of their respective regulatory authorities. The Contractor will verify and ensure that only skilled and authorised personnel are resourced for the service. All staff must be able to communicate in English. The Contractor is to make provision for a site management team that will ensure work is executed on time, at the correct quality level and done so safely.

5. OCCUPATIONAL HEALTH & SAFETY REQUIREMENTS

The Contractor is required to comply with the requirements of the Construction Regulations and Occupational Health and Safety Act.

6. TIMING AND PLANNING

The Contractor would be required to ensure the online work scope as well as outage work scopes are sufficiently resourced. All work will be coordinated by an Eskom Senior Supervisor or his/her stand-in. It may be required that overtime be worked, this will be communicated to the Contractor as applicable. The Employers working hours are as follow. Some changes may be made in conjunction with the service manager

Online

Monday – Thursday	07h30 – 16h35 (30 min lunch break)
Friday	07h30 – 13h30 (no lunch break)
Last Friday of the month	07h30 – 12h00 (no lunch break)

All dates below are subject to Major Component Plan and are applicable to specialized corrosion protection only (rubber lining & corroglass) (**Note: These dates and durations are subject to change**).

MAJOR PUMP OVERHAULS

CRF PUMPS

Component	Description	Start	Duration (Days)
2CRF001PO	8Y Overhaul Pump	01/03/2027	162 (Pre-Outage 228)

SEC PUMPS

Component	Description	Start	Duration (Days)
1SEC004PO	5Y Overhaul Pump	26/08/2029	15
2SEC001PO	5Y Overhaul Pump	15/08/2027	15
2SEC002PO	5Y Overhaul Pump	26/03/2029	13
2SEC003PO	5Y Overhaul Pump	05/03/2029	15
2SEC004PO	5Y Overhaul Pump	12/11/2029	15

Outage

Work during a planned shutdown can require 24-hour representation by the Contractor

Monday – Sunday 07h00 – 19h00 (dayshift)

Monday – Sunday 19h00 – 07h00 (nightshift)

All dates below are subject to the 10-Year Production Plan (Note: **These dates and durations are subject to change**).

REFUELING OUTAGES

Refueling Outage	Start	Duration (Days)
128	10/08/2026	40
228	09/08/2027	40
129	28/02/2028	50
229	26/02/2029	50
130	08/10/2029	29

7. SHIFT REGIME

Shift work may be required during declared outages and emergency work on an as and when required basis.

8. TRAINING

Prior to the commencement of any work on site, the selected Contractor adheres to the Employer's procedure 335-68 - Fitness for Duty Process for Staff who are Required to Perform Work at the Nuclear Operating Unit.

The duration of training will vary according to the experience of the individual and the Contractor is to liaise with the Employer's Representative, prior to the execution of the works, for an appropriate training period.

Medical Assessments and Police Clearance are to be completed by the Contractor and proof supplied to the Employer for verification by the onsite Medical Centre and Security. Refer to Procedure 335-68 - Fitness for Duty Process for Staff who are Required to Perform Work at the Nuclear Operating Unit

The Contractor must ensure that all persons who work at height and those who will be required to do rescue at height receive training according to the relevant unit standards. All Supplemental personnel required to perform work at heights must meet the following minimum criteria:

- Attend the Work at Height Awareness course (Koeberg FFD Induction training course).
- Candidates will only gain access to this course upon presenting a Work at Height training certificate (US 229998) issued by an accredited Work at Height training provider.

8.1 Generic training

All staff brought onto site will need to have undergone the following training:

- Plant Induction Training (1 day) if required
- Human Performance Training (1day) if required
- Medical verification ½ day (if required)
- Radiation Workers training (3 days) if required
- Fitness for duty program
- Contractor's Induction Program (1/2 day)

8.2 Technical training (As per the employer's requirements)

- Confined space training
- Diesel room entry
- Clean condition training
- Technical FME
- Arc Flash training
- Material Handling Awareness
- Work at Height Awareness
- Hazardous chemicals
- Supervisory Program
- Technical Assessments as required

9. ACCESS FORMALITIES

After successful completion of the generic training as stipulated above, each member of the contractor's staff will be issued with a personal Identification Access Card. Lost or damaged cards will be for the cost of the contractor.

Personal Protective Equipment (PPE) is mandatory at Koeberg Nuclear Power Station. The contractor is responsible for the provision of all appropriate safety gear prior to its staff starting any work. Personal protective equipment must comply with SABS standards.

The contractor will be given access to parts of the plant as and when required for the execution of its identified work scope, this might in certain instances be controlled by a permit to work

10. EQUIPMENT

Koeberg equipment

11. ESKOM SCOPE OF SUPPLY

- All water and electrical power points, unless otherwise stated in the contract.
- Ablution facilities for on-line staff
- Confined space training
- Diesel room entry training
- Respirator training
- Clean condition training
- Full Time Radiation Protection coverage for on-line and outage work in the controlled zone.
- Decontamination Services, if required.
- Crane availability, if required.
- Access to work areas, for personnel and equipment.

12. CONTRACTOR SCOPE OF SUPPLY

- Site establishment
- Temporary accommodation for staff during planned outages and online.
- Temporary ablution facilities for staff during planned outages
- Temporary Offices for the Contractor's site management team
- Transport for the Contractor's staff to the KOU, and on the Employer's site
- All tools, plant and equipment required for the service
- Effective Resource Scheduling

13. QUALITY REQUIREMENTS

Quality Assurance (QA)/Quality Control (QC) actions and controls may be required for the service as well as a final inspection if so requested. The tasks will be executed in accordance with Eskom procedures, and aligned to relevant industry standards and codes

14. DOCUMENTATION

The Contractor will be required to document and file all approved special designed scaffolds and structures.

All work will be performed will the relevant paperwork in hand.

The Contractor must make use of the latest revision of procedure KWM-MM-COR-001 when performing corroglass coating applications. The Contractor ensures Engineering issues new service specification for new applications that are not covered by this contract.

15. PRICING STRUCTURE

The pricing structure will be in accordance with the rates in the contract.

16. APPENDICES

KWM-MM-COR-001