	Request for Information (RFI)	Document Identifier	240-72663051	Rev	1
		Effective Date	October 2022		
		Review Date	October 2027		
		RFI Number	WCKBG2496XM		

PART A REQUEST FOR INFORMATION (RFI)			
Description of the works/goods/services	Request for Information (RFI) for the Koeberg Nuclear Power Station (KNPS) dosimetry system for assessing dose to individuals arising from external irradiations as well as workplace and environmental monitoring.		
Deadline for submission	25 October 2023	At (South African Standard Time)	10h00
Clarification meeting	Compulsory Clarification meeting will be held on the <b>10<sup>th</sup> of October 2023</b> at 11h00 the Via MS Teams <a href="#">Click here to join the meeting</a>		
Tender Office address	Tender Centre Block "E" Stores Building Brackenfell Complex Eskom Road Brackenfell (7560) Western Cape, South Africa		

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Eskom Holdings SOC Ltd ("Eskom") invites you to submit a:

- **Request for information (RFI)** to submit information for the works/goods/services as stated in the description. This RFI is a stand-alone information-gathering and market-testing exercise.

Eskom has delegated the responsibility for this **RFI** to the signatory of this document, whose details can be found below. Queries relating to this RFI document may be addressed to:

The Eskom Representative


Name: Xoliswa Mfaku

Tel no: 021 522 1774

E-mail: [MfakuX@eskom.co.za](mailto:MfakuX@eskom.co.za)


We look forward to receipt of your response.

Yours faithfully

Name	Designation	Signature	Date
Mpho Tshivhase	Senior Advisor Procurement		27 September 2023
Telephone number	021 550 5416	E-mail address	<a href="mailto:TshivhMp@eskom.co.za">TshivhMp@eskom.co.za</a>

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<b>PART B</b> <b>RESPONSE SHEET IN TERMS OF A REQUEST FOR INFORMATION</b> To be completed by the supplier			
<b>To</b>	Eskom Holdings SOC Ltd	<b>Date</b>	
<b>Attention</b>	Xoliswa Mfaku		
<b>Tel no</b> <i>[insert your tel number]</i>		<b>Fax no and /or e-mail address</b>	
<b>From</b> <i>[insert the registered full legal name of the company]</i>		<b>Address</b> <i>[insert the business address of the company]</i>	
<b>Address</b> <i>[insert the physical address of the company]</i>			
<b>Sender</b> <i>[insert the full name of the sender at the company]</i>			
<b>Description of the works/goods/services</b>			

## 1. Introduction


Koeberg Nuclear Power Station implements a personal dosimetry program for assessing dose to individuals arising from external irradiations as well as workplace and environmental monitoring.

The KNPS requirements include:

- Legal and extremity dosimeter demonstrating the capability of measuring Hp(10), Hp(3) and/or Hp(0.07), as appropriate, for all relevant types of radiation i.e. x-ray, beta, gamma and neutron radiation.
- Workplace and environmental dosimeter demonstrating the capability of measuring H\*(10), H'(3) and/or H'0.07), as appropriate, for all relevant types of radiation i.e. X ray, beta and gamma.
- The dosimetry system should comply to the following standards:

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- BS-EN-ISO-14146: 2021 EDITION: Radiological protection. Criteria and performance limits for the periodic evaluation of dosimetry services
- IAEA SAFETY STANDARDS SERIES No. GSG-7
- ISO/DIS 21909-1:2020-02: Passive neutron dosimetry systems - Part 1: Performance and test requirements for personal dosimetry
- ISO/DIS 21909-2:2020-02: Passive neutron dosimetry systems - Part 2: Methodology and criteria for the qualification of personal dosimetry systems in workplaces

- Dosimeters must measure the dose range 0.1 mSv and 10 Sv

The table below indicates the energy ranges to be covered by the dosimeters:

Measuring quantity	Energy range for neutron radiation	Energy range for gamma radiation	Energy range for beta radiation
Hp(10)	Thermal to 20MeV	-	-
Hp(10), H*(10)	-	12keV to 7MeV	-
Hp(3), H'(3)	-	8keV to 7MeV	0.7MeV to 1.2MeV
Hp(0.07), H'(0.07)	-	8keV to 1.25MeV	0.07MeV to 1.2MeV

- Initial installation of the system and its associate equipment for example (but not limited to) readers, computer, calibration sources etc.
- The supply of dosimeters as per their described uses (legal, extremity, workplace and environmental)
  - 7000 legal
  - 200 extremity
  - 200 workplace
  - 400 environmental
  - Associated quality control and calibration dosimeters
- Training of staff on how to use the system, including the routine calibration and maintenance of the dosimeters and associated processing equipment.

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- Supply of calibration and routine exposure sources.
- Support to obtain accreditation in line with South African requirements for a dosimetry service, prescribed by SAHPRA
- All dosimeters and associated analysing or processing equipment should be supplied calibrated and ready for immediate use
- Continuous maintenance support for the foreseeable future
- Availability of spares and spare parts for the foreseeable future

## 2. Purpose

The purpose of this RFI is to obtain detailed information about the products and support services that are available that will satisfy the stated requirements.

## 3. Background/Current state

The current dosimetry program has been in use for nearly 4 decades. Due to the current dosimetry system becoming obsolete, the need has arisen to change over to a new dosimetry system and implement a new dosimetry program for Koeberg Nuclear Power Station.

## 4. Requirements

Suppliers are to respond to the table below. The Eskom technical team will evaluate the submissions following the Commercial process.

## 5. Format, Method, and place of delivery

### Format of Submission

The response must be submitted as **1 (one) printed** original RFI, **plus 1 (one) printed copy**, **plus 1 (one) softcopy (flash drive)**.

### Method and place of delivery

All responses must be sealed and delivered before the closing date and time to the tender box located at:

**Tender Centre**

**Block 'E' Stores Building**

**Brackenfell Complex**

**Eskom Road**

**Brackenfell (7560)**

**Western Cape, South Africa**

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Please find below our response to Eskom's questions:

No.	Question	Please indicate your response in this column
1.	Company name and registration number	
2.	Contact name and contact details	
3.	<p>Please supply information and indicative prices on the dosimeters that you can supply, including the following:</p> <ul style="list-style-type: none"> <li>○ Dosimeters to measure personnel exposure</li> <li>○ Environmental dosimeters</li> <li>○ Extremity, eye dosimeters</li> <li>○ Ability to measure skin dose</li> <li>○ Neutron dosimeters</li> <li>○ Training support</li> <li>○ Installation support</li> <li>○ Documentation relating to the equipment for licensing purpose (technical and user manuals)</li> <li>○ Information on the tests performed (hardware and software)</li> </ul> <p>The information needs to include the required items KNPS requirements.</p>	
4.	Please supply information on the supporting processing equipment.	
5.	Please supply accreditation information and statements as to which international standards the system complies with.	
6.	Please provide information on training, maintenance, accreditation support and continued long term support that can be provided.	

Yours faithfully

Name	Designation	Signature	Date
Xoliswa Mfaku	Assistant Procurement Officer		27 September 2023 27.09.2023
<b>Telephone number</b>	021 522 1774	<b>Fax and/or e-mail address</b>	<a href="mailto:MfakuX@eskom.co.za">MfakuX@eskom.co.za</a>

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