

CLARIFICATION QUESTIONS FOR TENDER : E2560GXNOU : UPGRADE OF THE RADWASTE TRACKING PROGRAM (RTP) SOFTWARE

Item	Communication Method	Tenderer Clarification Question	Eskom Response
1.	E-Mail	Please confirm the current RTP technical environment at a high level:	<ul style="list-style-type: none"> • Application technology (language or framework) <ul style="list-style-type: none"> - Application was developed in Visual Studio, so has some application modules accessible via a Web application - certificates are being used as part of the IIS webserver application • Database technology <ul style="list-style-type: none"> - SQL server database • Operating system and deployment footprint (workstation or server) • Server is a VM hosted on one machine with a login/access control database. The accounts is also linked to an Active domain. • Managing of Radwaste drums in a different Database also in the same VM. Running MS Windows Server 2012 • From workstation perspective, a certificate is deployed as part of web application active controls, implemented during first use. Now functional on windows 11

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2.	E-Mail	Will the appointed contractor receive access to the current RTP source code and database schema/data for upgrade purposes, or should the solution be treated as a replacement implementation	These depend on the budget available, The source code can be shared as part of an upgrade scope; please can it be confirmed if a Non-Disclosure Agreement will apply
3.	E-Mail	Please confirm the interface method to	LIMS (API, file-based import/export, database link, other) LIMS is accessed daily around 03h00 through a linked server in the SQLdatabase. This process filters Gamma etc reports and make it available to the RTP database Chemistry Access database (direct Access DB, export files, other)linked server connected via ODBC in the database
4.	E-Mail	Please confirm the safety classification / quality management level applicable to this system for purposes of nuclear QA requirements (for example Level 1 or Level 2).	The applicable RD-0034 (Quality and Safety Management Requirements for Nuclear Installation) safety level for this system is Level 2.
5.	E-Mail	Please confirm the approximate number of operational users and administrator users to size training and support, and to confirm whether any per-user licensing constraints apply	This should be perpetual based and no licensing applied. Eskom will own the software and source code, 11 operational users

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6.	E-Mail	Is there any mandated or preferred technology stack for the upgraded solution (for example Microsoft stack only), or is the technology choice open provided requirements are met?	These are currently linked to Visual Studio 2010.
7.	E-Mail	Should respondents include an indicative price for ongoing maintenance and support, or is Eskom only seeking indicative implementation and commissioning pricing at this RFI stage?	Eskom would require some level of support during implementation and a warranty period to fix bugs and issues not identified during FAT (Factory Acceptance Test), and (SAT) Site Acceptance Test.
8.	E-Mail	The Request for Information is a summary of the URS RP-2025-006 and therefore does not contain all of the valuable information of the URS. For the purpose of clarification is it therefore acceptable that the clarifications can be linked to the URS directly – as below?	Please see attached URS
9.	E-Mail	The scope includes the complete system – software and hardware (specifically looking at section 5.4.2). Would the Employer be willing to provide a drawing / diagram of the system to allow a better understanding of the battery limits?	No drawing is available. RTP is a software program loaded on pc's. It is supposed to interface with the RTP instrumentation and the Chemistry databases to obtain information which serves as inputs to radwaste shipment calculations
10.	E-Mail	Can the Employer please elaborate as to what is foreseen as being part of the “design”, or is this a design in terms of the Minor Mod process, 240-86502715 (KAA-803), or 331-86? It is noted that these documents are not in the references.	This a design in terms of the minor mod process, 240-86502715 (KAA-803)

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11.	Email	It is assumed, based on Reference 2.2.2 [13] and 2.2.2 [14], that the design includes the KAA-709 (240-143604773) process?	a. YES
12.	Email	a.) What is the scope of work foreseen as part of the support to the NNR?	<p>NIL-01 variation 22 (appendix A) states: "All safety related modifications (classification SR, CSR) shall be submitted to the regulator for approval. Modification classified as non-safety related that may incur radioactive dose to the public or personnel either during implementation or operation shall be submitted to the regulator for approval. Modifications classified as non-Safety related that are implemented in order to provide a mitigation function or that impact on a mitigation function during beyond design accidents shall be submitted to the regulator for approval. The regulator shall be informed of all non-safety related modifications at least 3 months prior to implementation. All non-safety related modifications should be adequately documented and accessible to the regulator.'</p> <p>Radwaste produced and processed at Koeberg Nuclear Power Station (KNPS) for shipment to Vaalputs must comply to the National Nuclear Regulator (NNR), South African Nuclear Energy Corporation (NECSA) and International Atomic Energy Agency (IAEA) regulations.</p> <p>Radwaste Tracking Program (RTP) is used for managing the activities associated with the drumming intermediate storage and shipment of all radiological waste packages on-site at Koeberg Nuclear Power Station (KNPS). It performs calculations of radioactivity inside waste</p>

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			<p>packages using NNR approved methodologies to determine compliance with these shipment regulations.</p> <p>Consequence of failure can result in potential exposure to public which will adversely affect KNPS license to ship and its license for long-term operation (LTO). Based on this, RTP has been classified as safety-related (SR) and subsequently included in software listing 331-398.</p> <p>a. Therefore, the scope of support provided includes submission to the regulator i.e., minor mod process, 240-86502715 (KAA-803) and resolution of comments received from the regulator.</p>
13.	Email	As the body of the specification does not refer to this reference, can the Employer please provide the relevance of this?	a. The document relates to safety and quality requirements for nuclear installations. It is attached for more information.
14.	Email	It is assumed that the reference to KIS is not applicable to the project, but that KIS can be replaced with the RTP System?	Correct. This is an error, and it should be RTP.
15.	Email	What does the system look like physically, i.e. in terms of the hardware and how does it interface with the LIMS and Chemistry Access Database, i.e. via what data and which protocols?	a. RTP installation guide is attached, outlining software and hardware requirements for the system
16.	Email	1. How is the survey data entered into the system – which devices and which protocols, and are these devices part of the scope of work or not?	Currently data is entered manually, however as per design, information is supposed to be scanned in. All applicable devices should be part of scope of work.

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17.	Email	Can the Employer please provide classification 0013/14Q rev 1 so that the Contractor may understand the reasoning for the SR classification and make provision for this in his offer?	Classification 0013/14Q rev 1 attached
18.	Email	Can the Employer please explain what is included in this for the Contractor to consider in his proposal?	<ol style="list-style-type: none"> 1. Regulations for the Safe Transport of Radioactive Material, IAEA Safety Standards SSR-6, 2018 Edition 2. VLP-WAC-001: Waste Acceptance Criteria for Vaalputs, Rev 10 3. SSG-26: Advisory Material for The IAEA Regulations for The Safe Transport of Radioactive Material (2018 Edition) 4. KWH-S-033: Processing and Administration of Solid Radwaste 5. RG 0016: Guidance on The Verification and Validation of Evaluation and Calculation Models Used in Safety and Design Analyses. 6. ISO 9001 Quality Management Systems. 7. RD-0034: Quality and Safety Management Requirements for Nuclear Installations Rev 0, September 2008. 8. Limited Scope Study for The Disposal of Koeberg Nuclear Power Station Operational Waste and Original Steam Generator at Vaalputs, ASC-1004G, September 2024. TR-2018-001: LSA-II And LILW-SL Requirements

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19.		Can the Employer please provide detail of the hardware and all software?	All hardware and software requirements are outlined in RTP installation guide.
20.		a) Can the Employer please give guidance as to what the current documentation and drawings for the system contains (which documents and drawings, and their numbers)?	<p>To our knowledge there is no drawing of the system. The RTP is primarily a software program which was custom designed/developed to manage the on-site radwaste inventory and to perform the calculations required to demonstrate compliance to SSR-6 Transport Regulations and the Vaal puts Waste Acceptance Criteria.</p> <p>a) The original designer or service provide no longer exists. Therefore, we are looking for solutions to either fix/modify the existing system or completely replace the system with an off-the-shelf solution and customize it for Koeberg.</p>
21.		The scope of work is currently not defined to such a level that a Contractor can confidently put an RFI on the table. It is essential that the clarification questions be answered first. Given the time required for this and the assessment of the answers, can the Contractor please request an extension of time for the submittal of the RFI to 17 April (also allowing for the public holidays in March and April)?	This is subject to approval once approval granted communication will be made.