



الوكالة الدولية للطاقة الذرية  
国际原子能机构  
International Atomic Energy Agency  
Agence internationale de l'énergie atomique  
Международное агентство по атомной энергии  
Organismo Internacional de Energía Atómica

## **Bidder Clarifications – Request for Expression of Interest 398310-SK - Field-Verifiable Passive Loop Seal**

Dear Bidder,

Please note that we are in receipt of the following set of clarifications regarding EOI 398310-SK, as follows:

### **Question 1:**

Would you be able to send more information through on quantities of seals needed for this project?

### **IAEA Response:**

Unfortunately, the IAEA cannot disclose the expected demand/quantity for this technology as it will depend on the technical acceptability/usability of the proposed designs.

### **Question 2:**

Considering the deadlines in Table 1. Roadmap and Due Dates, I was wondering if IAEA or any other organization provides the required funding for the development of the conceptual prototypes that are due in January 2021?

### **IAEA Response:**

If the selected designs require any significant customization level of effort, the IAEA may consider financing some of the associated development cost to be agreed between the Parties in providing 20 Conceptual Prototypes to the IAEA for further testing.

### **Question 3:**

What is the approximate length of wire needed to loop around the application below?



### **IAEA Response:**

To answer the question directly, approximately 50 cm of wire is needed for that application. However, the picture was provided only as an example application; many other applications are used with different wire lengths. See the IAEA Response to Question 4.

### **Question 4:**

Do you currently use the CAPS seal on other applications that require different wire lengths?

### **IAEA Response:**

Yes. The wire may be longer, or shorter. The wire length is cut to fit the needed length by the inspector in the field.

**Question 5:**

I also could not find anything related to “SG Testing Annex” – did I miss anything? The specs attached has this item: “7.3.1 Mechanical Tests Reliable The seal body shall pass mechanical tests described in **SG Testing Annex**”

**IAEA Response:**

The relevant document can be found here:

<https://www.ungm.org/UNUser/Documents/DownloadPublicDocument?docId=849750>

**Question 6:**

We would like to submit samples. Is it okay for us to manufacture and deliver a few samples instead?

**IAEA Response:**

As the EOI document states, only technical proposals (paper-based) are accepted at this time. After the evaluation of the proposals, selected participants will be requested to manufacture potential prototype sample units.

**Question 7:**

How do the seals desired by the IAEA differ from ISO 17712’s “High Security” seals?

**IAEA Response:**

Answer: The IAEA is far more concerned with tamper resistance and tamper indication than the strength requirements of ISO 17712’s High Security seals (Clause 5). An IAEA seal is not a barrier seal. Additionally, just because a device is certified as High Security does not mean it meets the IAEA’s rigorous needs for tamper resistance – the test methods described in ISO 17712 Section 6.4.3 are a start, but the IAEA has extensive experience with additional defeat mechanisms<sup>1</sup>. It is also important to protect the seal from cloning. Developers should assume the seal will reside in an untrusted environment for months at a time.

Note also that the IAEA is able to perform assembly or unique marking operations prior to issuing a seal to an inspector, as is performed with the current seals.

**Question 8:**

How do I submit a response to the EOI?

**IAEA Response:**

- A. Assemble a technical proposal, not to exceed eight (8) pages, with contents as described in Section 4 of the EOI.
- B. Assemble a commercial description of the company, as described in Section 4 of the EOI.
- C. Send A & B as separate attachments to the same email to the Procurement Officer at [s.kim@iaea.org](mailto:s.kim@iaea.org), preferably with the subject: “PASSIVE SEAL DEVELOPMENT PROJECT – [Company Name]”.

**Submissions are due by 5pm, Vienna time, 27 July 2020.**

Best regards,

**Ms Ivory Sangah Kim** | Procurement Officer

Office of Procurement Services | Department of Management |

International Atomic Energy Agency | Vienna International Centre, PO Box 100, 1400 Vienna, Austria |

Email: [S.Kim@iaea.org](mailto:S.Kim@iaea.org) | T: (+43-1) 2600-22909 |

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<sup>1</sup> See Los Alamos National Laboratory’s “Vulnerability Assessment of Security Seals,” LA-UR-96-3672, for a description of how 94 different security seals were defeated by low-technology means. Although that report is nearly 25 years old and the technology has improved since it was written, the point is still valid that some seemingly well-qualified security seals can be easily defeated, which is unacceptable for IAEA purposes.