**APPLICATION FORM**

**EURADOS WG3-SG2 Calibration intercomparison IC2023calib**

1. **Participant contact information**

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| --- | --- |
| **Institute** |  |
| **Institute address** |  |
| **Country** |  |
| **VAT ID (if available)** |  |
| **EURADOS sponsor** | yes no |

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| --- | --- |
| **Contact person** |  |
| **Phone** |  |
| **E-mail** |  |
| **E-mail 2 (optional)** |  |
| **Delivery address for dosemeters** |  |

1. **Intercomparison specifications**

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| **Intercomparison** | IC2023calib by EURADOS Working Group 3 Subgroup 2 |
| **Organization Group** | Julia Aslan, Christian Naber (KIT, Germany)  Maria A. Duch (UPC, Spain)  Christian Hranitzky (Seibersdorf Labor, Austria) |
| **Dosemeter Lab** | IRSN, France |
| **Reference Lab** | PTB, Germany |
| **Irradiation conditions and requirements** | The participant chooses one, two, three or four of the following ISO 4037 x-ray and gamma radiation qualities: N-30, N-150, S-Cs (caesium-137), and S-Co (cobalt-60).  The participant will get 6 area dosemeters per chosen quality from IRSN for irradiation and at least 7 additional dosemeters. 5 of them are not allowed to be irradiated and will be used for background dose subtraction, the other additional dosemeters are spare dosemeters and can be used in case of a wrong irradiation.  The participant carries out the dosemeter irradiations free-in-air in terms of *H*\*(10) equal to 10 mSv. The irradiation dose shall be between 9.5 mSv and 10.5 mSv.  For S-Cs and S-Co, two dosemeters can be irradiated at a time and a 3 mm PMMA build-up plate is recommended directly in front of the dosemeters (irradiation conditions used by the reference lab). |
| **Timing requirements** | The irradiation must be carried out on or as close as possible to **11 October 2023**, at least within the time period 01 – 21 October. The dosemeters must be sent back to IRSN and must arrive not later than **31 October 2023**. |
| **Reporting requirements** | The participant has to report the irradiated dose values, radiation quality with the associated dosimeters ID and all the information required by the organisation group. The participant’s reported irradiation dose values will be compared with the measured dose values based on the calibration by the reference laboratory PTB. |
| **Certificates** | For each quality a EURADOS certificate of participation will be provided with the final result of the mean relative dose deviation and its uncertainty. Additionally, the following requirements will be evaluated: irradiation date, irradiation dose and ISO 13528 |En-score|<1 with *k*=2 expanded uncertainty. |

1. **Terms and conditions of participation**

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| 1. The participant must provide contact information in section 1 and agree with the intercomparison specifications and requirements given in section 2 of this Application Form. Participants especially from non-European countries have to be aware of their risk of transport delays and increased transport dose! |
| 1. The participation fees depend on the number of radiation qualities and the status of being a EURADOS sponsor. The fees can be taken out of the following table:  |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | 1 quality | 2 qualities | 3 qualities | 4 qualities | | Sponsor | 750 € | 1000 € | 1250 € | 1500 € | | Non-sponsor | 825 € | 1100 € | 1375 € | 1650 € |   Fees must be transferred to the EURADOS bank account (free of bank transfer costs) after receiving the invoice from EURADOS including instructions for payment until **31 August 2023**. Refunding will only be possible in the unlikely event that the intercomparison is cancelled by EURADOS. |
| 1. The intercomparison organization will not accept additional costs for customs and or import/export duties when receiving/sending the dosemeters from/to participants. Participants from non-EU countries are responsible for making the necessary arrangements (e.g. preparation of documents such as pro forma invoices). |
| 1. The participant must irradiate the dosemeters provided by IRSN/France according to the given instructions within the strict time schedule. The irradiation conditions must be documented in the given form and must be provided by return. Delays in reshipment or loss in transit will make the dose evaluation and therefore the issuing of a certificate impossible. The fee will not be refunded in any case. |
| 1. The participant should provide information about irradiation problems or errors in the reported data. Changes of results after distribution of the draft reports are only possible in case of errors not made by the participant (to be judged by the intercomparison organization group). |
| 1. Intercomparison results will be treated by EURADOS as confidential data. Data used in technical and scientific studies will be anonymous. |
| 1. EURADOS, members the intercomparison organization group and the coordinating laboratory accept no liability for any direct or consequential loss or damage arising from this intercomparison. |

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| **I accept the terms and conditions of participation**  **in the EURADOS Calibration intercomparison IC2023calib.**  **I want to participate with the following radiation qualities**  **(please choose “Yes” or “No”)**   |  |  |  | | --- | --- | --- | |  | | **choice** | | *H*\*(10) area dosemeters | N-30  x-ray | please choose | | *H*\*(10) area dosemeters | N-150  x-ray | please choose | | *H*\*(10) area dosemeters | Caesium-137 gamma | please choose | | *H*\*(10) area dosemeters | Cobalt-60 gamma | please choose |   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature Name Date |

Please complete, print and sign this form.

Please scan the signed form and send it in pdf-format by e-mail as soon as possible, but not later than **31 July 2023**.

**E-mail contact:**   [ic2023calib@eurados-intercomparison.org](mailto:ic2023calib@eurados-intercomparison.org)