

# INES Event Rating Form (ERF)

Version 1

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<b>Sender's Name:</b>	Dr Björn Becker
<b>Sender's Organization:</b>	Gesellschaft für Anlagen und Reaktorsicherheit (GRS) mbH (Germany)
<b>Event Title:</b>	Worker Exceeded Statuary Annual Whole Body Dose Limits
<b>Event Date:</b>	2023-09-24
<b>Location / Facility:</b>	Machine Factory, Baden-Württemberg
<b>Event Country:</b>	Germany
<b>Event Type:</b>	Other

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<b>INES Rating:</b>	2 - Incident (Final)
<b>Rating Date:</b>	2023-11-07

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## Impact on people and the environment

Release beyond authorized limits?	No
Overexposure of a member of the public?	No
Overexposure of a worker?	Yes

## Impact on the radiological barriers and controls at facilities

Contamination spread within the facility?	No
Damage to radiological barriers (incl. fuel damage) within the facility?	No

**Degradation of Defence In-Depth?** No

## Other information

Person injured physically or casualty?	No
Is there a continuing problem?	No

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## Event Description

On 24.09.2023, an employee of a company carried out a weld inspection in a radiation protection bunker using an X-ray device. After the measurement, the employee – who is also the radiation protection officer - went into the bunker to carry out further work. After completing the work inside the bunker, he realized that the X-ray device might still have been in operation during his stay. The immediate evaluation of the dosimeter provided a value of 71.5 mSv for September 2023. The dose measured with the dosimeter was above the annual limit of 20 mSv for occupationally exposed persons. The annual dose in 2023 before the event was 0.0 mSv. An expert inspection of the X-ray equipment determined that the equipment was technically in order. Therefore, it is assumed that it was not a malfunction of the device, but potentially a human error when operating the device. Further investigations are currently being carried out.

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## Rating Justification

According to chapter 2.3.1 of the INES manual, level 2 is the minimum level for events that result in an exposure of a worker in excess of statutory annual dose limits. There were no deterministic effects thus level 3 is not applicable.

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**Press Release Attached:** No

**Technical Document Attached:** No

## Further Information on Web:

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