### Certified translation from Polish

President of the National Atomic Energy Agency/-

Warsaw, /electronic time indicator/ /-

L.dz. DOR.44.98.2024 /-

/Electronic document/

National Centre for Nuclear Research /-05-400 Otwock /ul. Andrzeja Soltana 7 /-

# **DECISION /-**

# CERTIFICATE PL/0033/S-96 (Rev. 2) /for special form radioactive material /-

On the basis of: /-

- Art. 104 of the Act of June 14, 1960 the Code of Administrative Procedure (Journal of Laws of 2024, item 572), /-
- Art. 9 clause 1 item 5 of the Act of August 19, 2011 on Transport of Dangerous Goods (Journal of Laws of 2024, item 643), /-
- Art. 3 clause 2 item 2 of the Act of August 5, 2022 on Transport of Dangerous Goods by Air (Journal of Laws of 2022, item 1715), /-

in connection with the requirements specified in: /-

- 5.1.5.2.1 and 6.4.23.13 of Appendix A to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws of 2023, item 891), /-
- 5.1.5.2.1 and 6.4.23.13 of Appendix to the Regulation concerning the International Carriage of Dangerous Goods by Rail (RID) forming Appendix C to the Convention concerning International Carriage by Rail (COTIF) (Journal of Laws of 2023, item 789), /-
- 5.1.5.2.1 of the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (Journal of Laws of 2023, item 1167), /-
- ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air, 2025-2026 Edition /-

taking into consideration: /-

- the Act of November 15, 1984 the Transport Law (Journal of Laws of 2024, item 1262), /-
- Regulations for Safe Transport of Radioactive Material, 2018 Edition, No. SSR-6 (Rev. 1), issued by the International Atomic Energy Agency (IAEA), /-



having examined the application submitted by the National Centre for Nuclear Research, 05-400 Otwock, ul. Andrzeja Sołtana 7, dated November 14, 2024 (date of receipt: November 20, 2024), sign: OR.D.TD.225.2024, OR.HM.KP.1.2024, I find that the radioactive source design described below /-

### meets the requirements for special form radioactive material /-

specified in the international and national regulations concerning safe transport of radioactive materials. /-

### 1. Description of special form source /-

The certificate concerns the radioactive source design of **Ir-192** encased in a **YAT** type housing (source code: **YR1YAT**) manufactured by the POLATOM Radioisotopes Centre of the National Centre for Nuclear Research in Otwock, whose structure, dimensions and mode of manufacture are defined by "the Technological and Dosimetric Instruction for the Manufacture of Sealed Ir-192 and Co-60 Sources". The active part of the radioactive material source is placed in a titanium **YAT**-type housing which is hermetically sealed using electrical argon-shielded welding (the TIG method). /-

# 2. Description of radioactive material /-

The radioactive material concerned is Ir-192 in the form of metallic iridium pellets with a maximum diameter of 3.0 mm and a height of 0.2 mm. Pellets with a diameter less than 3.0 mm are pressed into an aluminium ring with an outer diameter equal to 3.0 mm. The maximum dimension of the active part of the source is  $\emptyset$  3.0 mm x 4.0 mm. The gaps in the housing, created after placing the necessary number of iridium pellets in it, are filled with aluminium spacers with a diameter of 3.0 mm and a height of 0.2 mm. /-

The maximum activity of the radioactive material in the YAT-type housing amounts to 10 GBq./-

# 3. Management System /-

The specification of the applied management system is the Program of Quality Assurance in the Field of Nuclear Safety and Radiological Protection of POLATOM Radioisotope Centre (No: NJ 4001/9 dated October 27, 2023, issue 9). /-

# 4. Validity of the certificate /-

This certificate is valid from February 1, 2025 to December 31, 2025. /-

# JUSTIFICATION /-

The decision was issued on the basis of an application submitted by the National Centre for Nuclear Research, dated November 14, 2024 (date of receipt: November 20, 2024), sign: OR.D.TD.225.2024, OR.HM.KP.1.2024, after assessment of the submitted documentation in the case. /-

The applicant submitted the application for re-issuance of the decision on approval of the certificate for special form radioactive material due to the impending expiration of the decision of the President of the National Atomic Energy Agency dated February 1, 2022. /-

The application was accompanied by: /-

The Quality Assurance Program for Nuclear Safety and Radiological Protection of the a. POLATOM Radioisotope Centre (No: NJ 4001/9 dated October 27, 2023, issue 9), /-

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- b. The Technological and Dosimetric Instruction for the Manufacture of Sealed Ir-192 and Co-60 Industrial Sources (No: DP 2311/9 dated October 24, 2018, issue 9), /-
- c. Certificate No. 2/2018/NCBJ dated June 18, 2018, on assigning a classification symbol to the sealed radioactive source. /-
- d. Report No. 2/2018 NCBJ OR POLATOM dated May 23, 2018 on the source type classification tests and on the test for special form radioactive material for iridium-192 source sealed in the YAT housing - code IR1YAT. /-

After examination of the above documentation, the authority concluded that the design of special form radioactive material PL/0033/S-96 (Rev. 2) meets the requirements set out in the regulations for the safe transport of radioactive materials. /-

Andrzej Głowacki /-

President /-

of the National Atomic Energy Agency /-

/e-signed/ /-

Caution: /-

A party dissatisfied with the decision may apply to the President of the National Atomic Energy Agency for reconsideration of the case within 14 days from the date of delivery of the decision to the party. If the party does not wish to exercise its right to request a reconsideration, it may file a complaint against the decision with the Provincial Administrative Court in Warsaw within 30 days of delivery of the decision to the party. The complaint should be submitted through the President of the National Atomic Energy Agency. The fee for the complaint amounts to PLN 200. The party submitting the complaint may be granted, at its request, assistance in the form of exemption from court costs and the appointment of a lawyer, legal adviser, tax adviser or patent agent. During the time limit for filing the application for reconsideration, the party may waive its right to apply for reconsideration to the President of the National Atomic Energy Agency. On the date of delivery to the President of the National Atomic Energy Agency of a statement waiving the right to file the application for reconsideration by the last party to the proceedings, the decision becomes final and binding, which means that it is not possible to file a complaint against this decision to the Provincial Administrative Court. /-

CC: /-

1. the Addressee /-

/to the electronic service address entered in the electronic addresses base/ /-

2. ad acta /-

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I, the undersigned, Grażyna Jabłońska, sworn translator of English, registered by the Minister of Justice under No. TP/4603/05, certify that this is true and complete translation of the original e-signed electronic document in Polish Number of translation pages: 7 Warsaw, January 28, 2025 Register No. 47/2025

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