



12th International Symposium

Release of Radioactive Materials –
Provisions for Clearance and Exemption

15th – 17th November 2022

Crowne Plaza Congress Hotel, Frankfurt, Germany

12th International Symposium

Release of Radioactive Materials – Provisions for Clearance and Exemption

Scope of the Symposium

Since 1998 TÜV NORD organizes various symposia dedicated to the “Release of Radioactive Material from Regulatory Control”. During the previous international symposium in Berlin in 2017 more than 130 clearance experts were welcomed to contribute to the discussions of this issue, which due to huge decommissioning projects moves in the focus of public interest. These interchanges of experience help to optimize release procedures and to reduce the amount of radioactive waste. In November 2022, we would like to continue the fruitful exchange of experience.

From the very beginning in 1998, the symposia have followed up the change of international regulation and guidelines in the area of clearance. Currently, the new IAEA Safety Guide DS500 on the “Application of the concept of clearance” is in the process of endorsement and will update and supersede the previous Safety Guide RS-G-1.7 “Application of the concept of Exclusion, Exemption and Clearance”.

Considering this highlighted starting point, we invite you, as interested experts from many countries, to continue the exchange of experience, expertise and information in the field of clearance. TÜV NORD will organize a symposium, which is intended to take place on **15th - 17th November 2022 in the Crowne Plaza Congress Hotel in Frankfurt**. We would be pleased to welcome you to the **Get Together** on the evening of the **14th November 2022**.

Participants

The symposium is directed towards scientists, engineers, technicians and lecturers in the field of radiation protection or whose tasks require knowledge in this area. It will be of interest not only to radiation protection and nuclear safety representatives in companies and other organizations, and health and safety specialists, but also to public authorities, independent experts and inspectors, applicants for planning permissions in the field of atomic energy and others with related site responsibilities.

Industrial Exhibition

The symposium will include an industrial exhibition. Would you like to present your products and services as an exhibitor? For more information, do not hesitate to contact us. Please note in advance that the exhibition area is limited.

Programme

14th November 2022

19.00 – 22.00 Pre-Registration and Get Together at the Industrial Exhibition

Day 1, 15th November 2022

9.00 Registration

TÜV NORD Akademie, Germany

10.00 Welcome/Opening Remarks

J. Aign, TÜV NORD EnSys, Germany

G. Kraus, Hessian Ministry of the Environment, Climate Protection, Agriculture and Consumer Protection, Germany

Section A: Overview of national and international framework

10.20 The new International Guidance on Clearance – IAEA Perspective

V. Ljubenov, IAEA

10.50 International Perspectives on Clearance and Characterization for Clearance of Materials

A. Larsson, CYCLIFE, Sweden

11.20 Coffee Break/Industrial Exhibition

11.50 Overview of Regulation and Practices for Exemption and Clearance in Japan

H. Ogino, NRA, Japan

12.20 The Current Status of Clearance in Sweden

H. Efraimsson, SRSA, Sweden

12.50 Lunch Break

14.00 Clearance – A clear Story

J. Feinhals, DMT, Germany

14.25 Spanish Strategies on Clearance of Radioactive Materials from NPPs

M. de Toro, Consejo de Seguridad Nuclear, Spain

14.50 Clearance of material from the dismantling of NPP – current statements by the German Nuclear Waste Management Commission

D. Beltz, ESK, Germany

15.15 Qualification and Training Needs for an Expert on Clearance on an International Scope
S. Müller, TÜV NORD EnSys, Germany

15.40 Clearance principles and regulatory adaptations in Germany
M. Fabian, BMUV, Germany

16.05 Coffee Break/Industrial Exhibition

Section B: Derivation of Clearance Levels

16.30 Derivation of Specific Clearance Levels for Materials Suitable for Recycling, Reuse or Disposal in Landfills
A. Lagumdzija, S. Dhlomo, G. Bruno, V. Ljubenov, IAEA

16.50 Clearance levels for C-14 and H-3 for the specific clearance related to incineration
O. Nitzsche, Brenk, Germany

17.10 Probabilistic study deriving nuclide-specific surface-clearance levels for the normal reuse of objects leaving the controlled area of a nuclear facility
T. van Dillen, RIVM, Netherlands

17.30 Wrap up Discussion of the Day

18.00 End of the 1st Day

19.00 – 22.00 Evening Event

Day 2, 16th November 2022

Section C: Technical Aspects

9.00 Improved Clearance Verification Applied to Real Data from a Real Site
R. A. Meck, SaTS, United States
J. Jiselmark, Green Field Strategies AB

09.20 Automation of clearance measurements
B. Weinhorst, Safetec, Germany

09.40 On the use of collimators in gamma ray spectrometry
H.-J. Lange, Mirion, Germany

10.00 Coffee Break/Industrial Exhibition

10.30 Basic Study on the Radioactivity Evaluation of Control Panels
T. Yoshii, SNRA, Japan

10.50 Development of Measurements Methods used for Release of Radioactive Materials in Accordance with Clearance Levels
D. Gurau, Horia Hulubei, Romania

11.10 The impact of decommissioning strategy and measurement techniques on the clearance volume at the dismantling of NPP
A. Filby, GRS, Germany

11.30 Improvements in measuring equipment for final radiological survey for the release of buildings
S. Wörten, Brenk, Germany

11.50 Wrap up Discussion of the Morning

12.20 Lunch Break

13.40 Use of a standard nuclide vector for clearance of material
R. Kunz, Brenk, Germany

14.00 Radiological Characterization in Clearance at Barsebäck NPP
N. Markovic, UNIPER Barseback, Sweden

14.20 Experiences in the control and monitoring of releases and clearance of wastes from the Centre of Isotopes of Cuba
Z. H. Amador Balbona, Col, Cuba

14.40 Coffee Break / Industrial Exhibition

Section D: Specific Clearance

15.10 Conditional Clearance in Switzerland – Theory vers. Practice

R. Stroude, BAG, Switzerland

15.40 Implementation of unconditional release and landfill disposal in Belgium

S. Boden, SCK CEN, Belgium

16.00 Safe Clearance of Metals for Recycling to the Conventional Industry

A. Larsson, CYCLIFE, Sweden

16.20 Wrap up Discussion of the Day

17.00 End of the 2nd Day

18.00 Evening Event

11.20 Clearance of burnable waste produced at CERN

R. Harbron, CERN

11.40 Clearance of material irradiated in CERN's LEP accelerator – Example of the collimators

K. Bauer, CERN

12.00 Wrap up Discussion of the Morning

12.30 Lunch Break

Section F: Release of Sites and Buildings

13.30 Preliminary determination of the activation profile of the containment walls at the Barsebäck NPP

Ü. Ören, UNIPER Barseback, Sweden

13.50 Clearance of land areas at the Risø nuclear site in Denmark

J. Søgaard-Hansen, DEKOM, Denmark

14.10 Release of buildings from regulatory control outside the nuclear industry – an example of a nuclear laboratory

S. Wörlen, Brenk, Germany

14.30 Challenges and plans for NPP site release in Slovakia

T. Hrnčíř, JAVYS, Slovakia

14.50 Closing Remarks

15.00 End of the Symposium

Day 3, 17th November 2022

Section E: Clearance Process

09.30 Clearance process during ND&D of Barsebäck NPP

M. Persson, UNIPER Barseback, Sweden

09.50 Clearance Procedures within the A1 NPP Decommissioning Project

M. Listjak, VUJE, Slovakia

10.10 Methodology for Clearance of Oil-based Muds Originating from Oil Industry

A. Savidou, NCSR D, Greece

10.30 Coffee Break/Industrial Exhibition

11.00 Clearance of remediation materials in Austria – Experience report of an expert

V. Grill, AGES, Austria

Fee: 1.332,80 € incl. VAT

3 Days
1.120,- €
(plus VAT)

The conference language is English. The fee will cover a copy of the proceedings, three lunches and three special evening events. Reductions are available for authors with accepted papers (970,00 €) and representatives of authorities (720,00 €, limited availability).

Venue



Crowne Plaza Frankfurt – Congress Hotel

Lyoner Straße 44 - 48 | 60528 Frankfurt/Main

Phone: +49 (0) 69 66330

Mail: reservation@cp-frankfurt.com

www.cp-frankfurt.com/

Please book a room in the hotel by yourself until the 4th October 2022 and use the following password: TÜV NORD. The price for a room including breakfast is 124,00€. Phone: +49 69 66 330

LOCATION AND ACCESSIBILITY

- Frankfurt Int. Airport (3.7 miles)
- City center (4.2 miles)
- excellent motorway (A3/A5) and public transport connection
- ideally located in business district
- next to idyllic City Forest Frankfurt

Parking

Underground parking, hotel car park, public bus park
EUR 2.50 per hour // EUR 18.00 per day.

Executive Committee



Organization

Clariisa Hörnke-Dobrick

TÜV NORD Akademie GmbH & Co. KG
Conferences & Symposia
Große Bahnstraße 31, 22525 Hamburg
Phone: +49 (0)40 8557-2920
E-Mail: tagungen@tuev-nord.de



Jörg Feinhals

DMT GmbH & Co. KG
Große Bahnstraße 31, 22525 Hamburg
Phone: +49 (0)40 8557-2253
E-Mail: Joerg.Feinhals@dmnt.de



Detlef Beltz

TÜV NORD EnSys GmbH & Co. KG
Am TÜV 1, 30519 Hannover
Phone: +49 (0)511 998-61861
E-Mail: dbeltz@tuev-nord.de



Thomas Pöhlsen

TÜV NORD EnSys GmbH & Co. KG
Große Bahnstraße 31, 22525 Hamburg
Phone: +49 (0)40 8557-2624
E-Mail: tpoehlsen@tuev-nord.de



Stephan Müller

TÜV NORD EnSys GmbH & Co. KG
Am TÜV 1, 30519 Hannover
Phone: +49 (0)511 998-61806
E-Mail: stemueller@tuev-nord.de

Programme Committee

V. Ljubenov, IAEA (Head of Programme Committee)
H. Efraimsson, Swedish Radiation Safety Authority, Sweden
G. Kraus, Hessian Ministry of the Environment, Climate Protection, Agriculture and Consumer Protection, Germany
H. Ogino, Nuclear Regulation Authority of Japan, Japan
R. Stroude, Federal Office of Public Health FOPH, Suisse
M. de Toro, Consejo de Seguridad Nuclear, Spain

Registration

by E-Mail: tagungen@tuev-nord.de,
by Fax: + 49 (0) 40 8557-2782 or by post



TÜV NORD Akademie
GmbH & Co. KG

Große Bahnstraße 31
22525 Hamburg
Germany

I/We would take part in the symposium:

12th International Symposium on Release of Radioactive Materials – Provisions for Clearance and Exemption
15th – 17th November 2022, Crowne Plaza Congress Hotel, Frankfurt

More information about the conference-hotel you will get with confirmation of registration.

Participant (Please enter in block capitals)

First name/Last name	E-Mail
Function	

Sender/Company (Please enter in block capitals)

Company/Company stamp	Phone
Street/No.	Sector
Postcode/Town	No. of employees in the company

Invoice Adress (if different)

Company/Company stamp	Street/No.	Postcode/Town
-----------------------	------------	---------------

I/We accept the organiser's conditions of entry.

Place/Date	Stamp/Signature
------------	-----------------



Sign up now: by E-Mail, by Fax, by Post
or on www.tuev-nord.de/tk-rrm