

Arrangements for the Termination of a Nuclear or Radiological Emergency

Objectives and expectations

Lecture 01

Purpose of the Workshop



- Familiarize participants with the guidance and recommendations of the IAEA Safety Standards Series No. GSG-11 on Arrangements for the Termination of a Nuclear or Radiological Emergency.
- Train participants on:
 - How to prepare for facilitating the timely resumption of social and economic activity after an emergency;
 - What needs to be ensured so that the emergency can be declared formally ended and the transition to an existing exposure situation or a planned exposure situation can take place.

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Arrangements for the Termination of a Nuclear or Radiological Emergency

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General Safety Guide

No. GSG-11



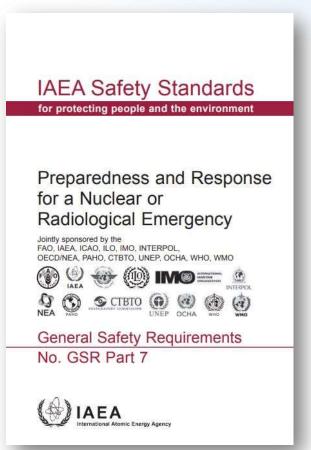
Background



General Safety Requirements No. GSR Part 7 (2015)

Requirement 18: Terminating a nuclear or radiological emergency

"The government shall ensure that arrangements are in place and are implemented for the termination of a nuclear or radiological emergency, with account taken of the need for the resumption of social and economic activity."



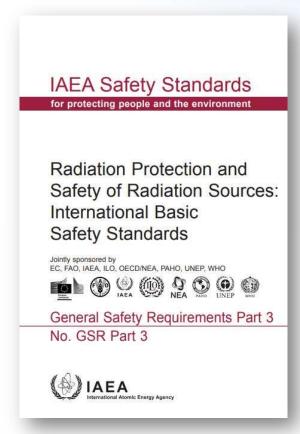
Background (cont'd.)



General Safety Requirements No. GSR Part 3 (2014)

Requirement 46: Transition from an emergency exposure situation to an existing exposure situation

"The government shall ensure that arrangements are in place and are implemented as appropriate for the transition from an emergency exposure situation to an existing exposure situation."



Background (cont'd.)



- Justifications for developing **GSG-11**:
 - Absence of detailed guidance for Member States on how to meet the requirements of GSR Part 3 and GSR Part 7;
 - Lessons identified from past emergencies;
 - Requests by Member States.

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General Safety Guide

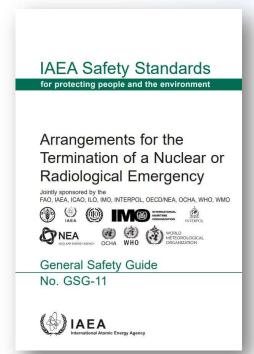
No. GSG-11



IAEA Safety Standards Series No. GSG-11

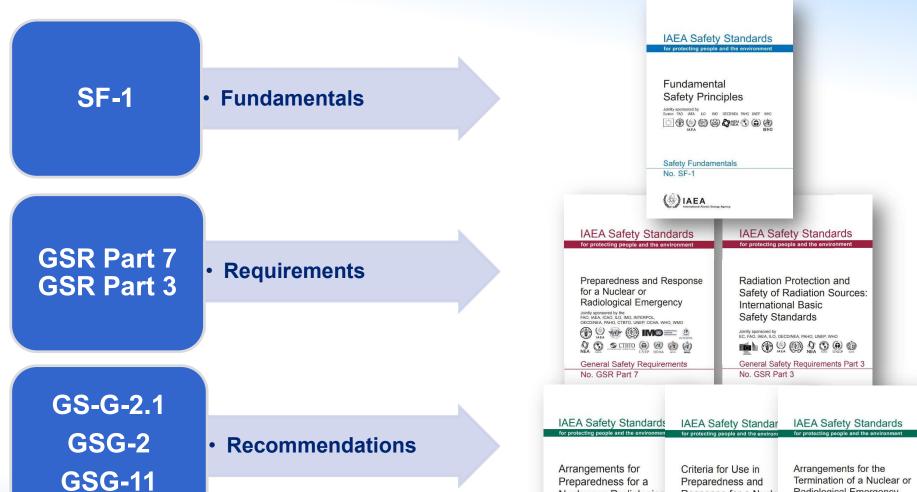


- Provides guidance and recommendations on:
 - Developing arrangements, as part of overall emergency preparedness efforts, for transition to either an existing exposure situation or a planned exposure situation, as appropriate, and for the termination of the emergency;
 - The primary objective and prerequisites for enabling the emergency to be terminated.
- Applies to any nuclear or radiological emergency irrespective of its cause;
- Published in March 2018;
- Joint sponsorship by: FAO, IAEA, ICAO, IMO, ILO, INTERPOL, OECD/NEA, UN OCHA, WHO, WMO.



IAEA Safety Standards Series No. GSG-11 Place within EPR Safety Standards Series





Preparedness for a Preparedness and Radiological Emergency Nuclear or Radiologica Response for a Nucle Jointly sponsored by the FAO, IAEA, ICAO, ILO, IMO, INTERPOL, DECDINEA, OCHA, WHO, WMC Radiological Emergen Emergency ⊕ ⊕ @ IM**©**≡ ≜ Jointly sponsored by FAO IAEA ILO PAHO OCHA WHO Jointly sponsored by the FAO, IAEA, ILO, PAHO, WHO NEA () WORLD NOON 1000000 Safety Guide General Safety Guide General Safety Guide No. GS-G-2.1 No. GSG-2 No. GSG-11 (A) IAEA (A) IAEA (A) IAEA

IAEA Safety Standards Series No. GSG-11 Structure



- 1. Introduction
 - Background
 - Objective
 - Scope
 - Structure
- 2. Phases of a nuclear or radiological emergency
 - General
 - Emergency response phase
 - Transition phase
- 3. Primary objective and prerequisites
 - General
 - Primary objective
 - General prerequisites
 - Specific prerequisites
 - Timeframes for the termination

IAEA Safety Standards Series No. GSG-11 Structure (cont'd)



- 4. Arrangements for the transition phase
 - General
 - Authority, responsibilities and management
 - Hazard assessment
 - Protection of the public
 - Protection strategy
 - Adapting and lifting the protective actions
 - Characterization of the exposure situation
 - Medical follow-up and counselling
 - Protection of emergency workers and helpers
 - Radioactive waste management
 - Consultation with the public and other interested parties
 - Compensation for victims of damage
 - Infrastructure

IAEA Safety Standards Series No. GSG-11 Structure (cont'd)



- Appendix: considerations for lifting protective actions and other response actions
- References
- Annex I: case studies

The Fukushima Daiichi accident in japan

The radiological accident in Goiânia, Brazil

The severe nuclear incident at Paks NPP, Hungary

The radiological incident in Mexico

 Annex II: factors for consideration in the justification and optimization of the protection strategy

Topics covered at the workshop



- Basic concepts
- Primary objective of and prerequisites for the termination of the emergency
- Protection strategy for the transition phase
- Adapting and lifting protective actions
- Characterization of exposure situation
- Medical response during the transition phase
- Radioactive waste management
- Protection of emergency workers and helpers
- Consultation with relevant interested parties
- Management organization and infrastructure for the transition phase



Workshop Objectives



- Identify and apply the prerequisites for declaring an emergency ended for postulated emergency scenarios;
- Identify activities to be carried out during the transition phase;
- Recognize important elements of the protection strategy for the transition phase;
- Recognize the preparedness infrastructure and other arrangements necessary for the transition phase;
- Analyse past emergencies in the context of the guidance for transition to different exposure situations.

Learning activities



- Lectures
- Case studies
 - Past emergencies
- Working session
 - Based on postulated emergency scenarios

Active participation is essential!

Expectations



- Better understanding of the guidance contained in IAEA Safety Standards Series No. GSG-11;
- Harmonized application of IAEA Safety Standards Series No. GSG-11 in national contexts.



Thank you!

