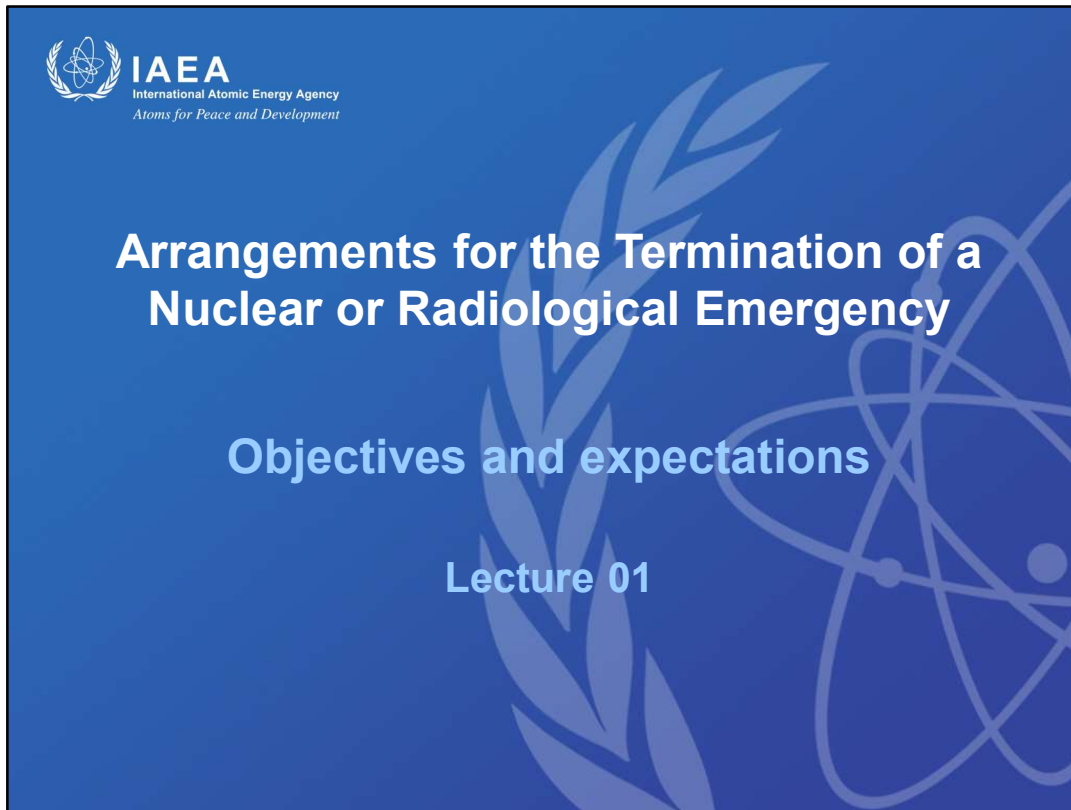


# Arrangements for the Termination of a Nuclear or Radiological Emergency



**Lecture:** 01. Objectives and expectations

## **Purpose of the Presentation:**

- Recap the purpose and objectives of the workshop, the learning activities to be implemented and the expectations
- Inform participants of the newly published IAEA Safety Standards Series No. GSG-11 on Arrangements for the Termination of a Nuclear or Radiological Emergency and how this training supports its implementation

## **Learning Objectives:**

- Become aware of the workshop purpose, objectives and expectations
- Improve the knowledge of the coverage of IAEA Safety Standards Series No. GSG-11 and its place in the IAEA Safety Standards Series on emergency preparedness and response

**Duration:** 15 minutes

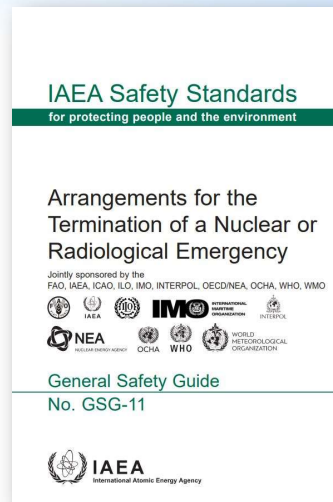
**References:**

1. International Atomic Energy Agency, Preparedness and Response for a Nuclear or Radiological Emergency, IAEA Safety Standards Series No. GSR Part 7, IAEA, Vienna (2015).
2. International Atomic Energy Agency, Arrangements for the Termination of a Nuclear or Radiological Emergency, IAEA Safety Standards Series No. GSG-11, IAEA, Vienna (2018).
3. International Atomic Energy Agency, Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards, IAEA Safety Standards Series No. GSR Part 3, IAEA, Vienna (2014).

# 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.



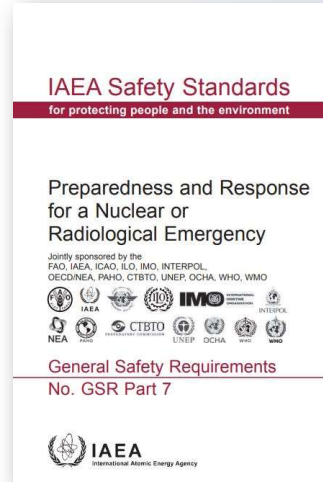
# Background



## 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.”*



**Lecture notes:**

**Reference:**

1. International Atomic Energy Agency, Preparedness and Response for a Nuclear or Radiological Emergency, IAEA Safety Standards Series No. GSR Part 7, IAEA, Vienna (2015).

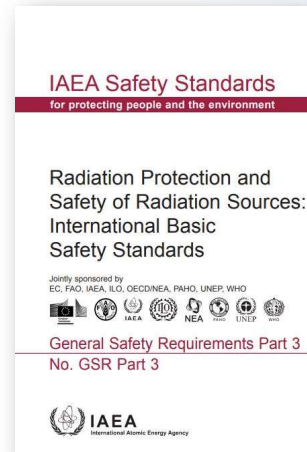
## Background (cont'd.)



### 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.”*



**Lecture notes:**

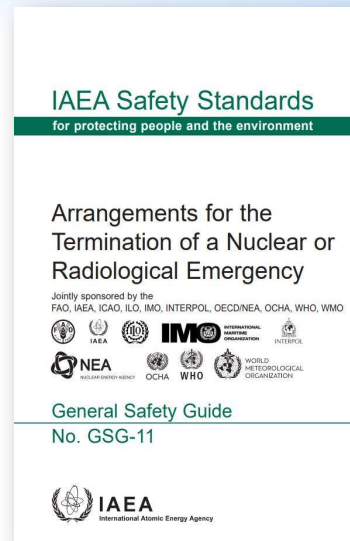
**Reference:**

1. International Atomic Energy Agency, Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards, IAEA Safety Standards Series No. GSR Part 3, IAEA, Vienna (2014).

## 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.



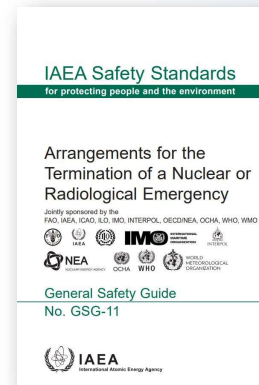
### Lecture notes:

It is obvious that, at some point, there is a need to declare the end of an emergency situation and to allow the return to a more or less "normal" life. This implies a number of changes, for example, in the management authority and in the radiation protection approach for both the public and the emergency workers. In order to be able to implement these changes, preparation is required. However, up to now, no specific detailed guidance has been available on how to deal with this transition and to allow the implementation of GSR Part 3 and GSR Part 7 in a harmonized manner. The need for this guidance has been identified in the response to past emergencies and has been repeatedly emphasized by Member States.

## IAEA Safety Standards Series No. GSG-11

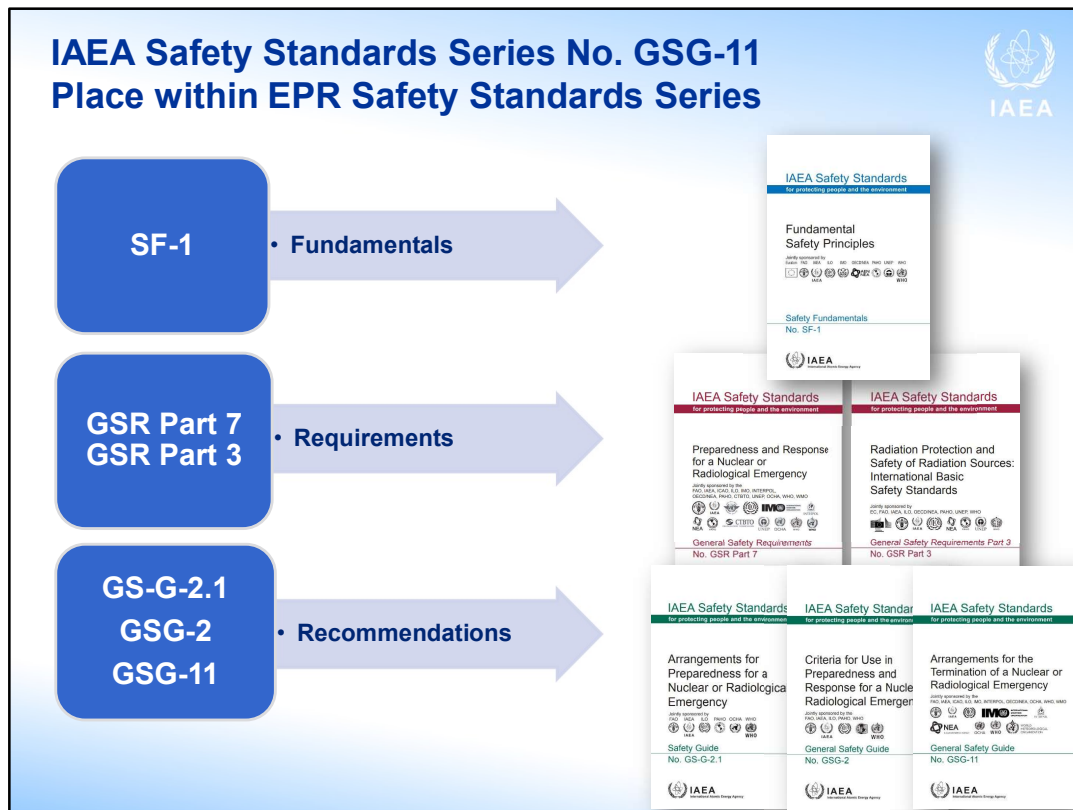


- Provides guidance and recommendations on:
  - Developing arrangements, as part of overall emergency preparedness efforts, for transition to either an existing exposure situation or a planned exposure situation, as appropriate, and for the termination of the emergency;
  - The primary objective and 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.



### Lecture notes:

The publication was conceived with the goal of providing recommendations on the development of arrangements, at the preparedness stage, to respond to a nuclear or radiological emergency with regard to the transition to either an existing exposure situation or a planned exposure situation, and the termination of the emergency. It specifically includes the primary objective of, and the prerequisites for, the termination of an emergency and provides detailed guidance on adapting or lifting protective actions and other response actions.



### Lecture notes:

GSG-11 belongs to the group of General Safety Guides (that are applicable to any facility or activity) in Emergency Preparation and Response (EPR). These guides support the implementation of specific safety requirements set forth in GSR Part 3 (Section 4) and GSR Part 7. These safety requirements address Principle 9 of the Safety Fundamentals, which deal with EPR.

As such, GSG-11 should always be used in combination with other EPR Safety Standards to ensure that the national EPR framework addresses various aspect of EPR and different phases of a nuclear or radiological emergency.



## 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

### Lecture notes:

The Safety Guide contains four main sections, an appendix and annexes.

The introductory section is followed by a section that describes various phases of a nuclear or radiological emergency. It aims to explain various concepts that exist in EPR Safety Standards; it also seeks to define the concept of ‘transition phase’ in order to enhance the understanding of ‘termination’ and to clarify the scope of the Safety Guide.

The third section provides the primary objective of, and the prerequisites for, the termination of the emergency. These are intended to constitute the main drivers for authorities in identifying what needs to be achieved under particular circumstances so that an emergency can be formally declared ended, and the transition to other exposure situations can take place. As such, they will be useful in developing the protection strategy for the transition phase; identifying the adequate arrangements for the transition phase; and determining specific criteria that need to be met in order to be able to take the formal decision to end the emergency. It also provides guidance on the appropriate timeframes in which a specific emergencies can be ended.

## 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

### Lecture notes:

Section 4 provides detailed guidance on various aspects to be considered at the preparedness stage when arrangements for the transition phase of a nuclear or radiological emergency are being established. The implementation of this guidance is intended to provide support in meeting the prerequisites for terminating an emergency, specified in Section 3.

## 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

### Lecture notes:

The Appendix provides further considerations including criteria for adapting or lifting protective actions.

The Annex 1 contains case studies that consider the guidance and recommendations provided in this Safety Guide in the context of the emergency response to the Fukushima Daiichi accident in Japan (2011), the radiological accident in Goiânia, Brazil (1987), the Paks fuel damage incident in Hungary (2003) and the incident involving a stolen radioactive source in Hueypoxtla, Mexico (2013). The four case studies were selected to present representative examples for transition to either a planned exposure situation (the Paks fuel damage incident and the stolen radioactive source in Hueypoxtla) or an existing exposure situation (the Fukushima Daiichi accident and the radiological accident in Goiânia). The examples have also been chosen to cover emergencies associated with the nuclear industry as well as with the use of radioactive sources in other applications, and to cover a range of initiating circumstances.

**Lecture notes:**

The case studies in this annex are not intended to give an extended description of the incidents or accidents and the respective emergency response, nor are they intended to provide an evaluation of the manner in which these events were managed. Each case study is used to draw conclusions from a comparison with the prerequisites described in Section 3 of this Safety Guide, with the aim of facilitating understanding of this guidance.

The Annex 2 provides list of factors to be considered when justifying and optimizing the protection strategy for the transition phase (although not exclusive to the transition phase).

All these aspects addressed in the Safety Guide are covered in this workshop.

# 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

Monday		
Time	Subject	Facilitator/Chair
08:30-09:00	Registration and Welcome	IAEA Secretariat
09:00-09:30	Breakfast	
09:30-10:00	Introduction and Welcome	IAEA Secretariat
10:00-10:30	Overview of the Workshop	IAEA Secretariat
10:30-11:00	Breakfast	
11:00-11:30	Session 1: Basic Concepts	IAEA Secretariat
11:30-12:00	Session 2: Primary Objective and Prerequisites for Termination	IAEA Secretariat
12:00-12:30	Session 3: Protection Strategy for the Transition Phase	IAEA Secretariat
12:30-13:00	Session 4: Adapting and Lifting Protective Actions	IAEA Secretariat
13:00-13:30	Session 5: Characterization of Exposure Situation	IAEA Secretariat
13:30-14:00	Session 6: Medical Response during the Transition Phase	IAEA Secretariat
14:00-14:30	Session 7: Radioactive Waste Management	IAEA Secretariat
14:30-15:00	Session 8: Protection of Emergency Workers and Helpers	IAEA Secretariat
15:00-15:30	Session 9: Consultation with Relevant Interested Parties	IAEA Secretariat
15:30-16:00	Session 10: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
16:00-16:30	Session 11: Summary and Conclusions	IAEA Secretariat
16:30-17:00	Session 12: Final Remarks	IAEA Secretariat
17:00-17:30	Session 13: Dinner	
17:30-18:00	Session 14: Welcome to the Workshop	IAEA Secretariat
18:00-18:30	Session 15: Overview of the Workshop	IAEA Secretariat
18:30-19:00	Session 16: Basic Concepts	IAEA Secretariat
19:00-19:30	Session 17: Primary Objective and Prerequisites for Termination	IAEA Secretariat
19:30-20:00	Session 18: Protection Strategy for the Transition Phase	IAEA Secretariat
20:00-20:30	Session 19: Adapting and Lifting Protective Actions	IAEA Secretariat
20:30-21:00	Session 20: Characterization of Exposure Situation	IAEA Secretariat
21:00-21:30	Session 21: Medical Response during the Transition Phase	IAEA Secretariat
21:30-22:00	Session 22: Radioactive Waste Management	IAEA Secretariat
22:00-22:30	Session 23: Protection of Emergency Workers and Helpers	IAEA Secretariat
22:30-23:00	Session 24: Consultation with Relevant Interested Parties	IAEA Secretariat
23:00-23:30	Session 25: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
23:30-24:00	Session 26: Summary and Conclusions	IAEA Secretariat
24:00-24:30	Session 27: Final Remarks	IAEA Secretariat
24:30-25:00	Session 28: Dinner	
25:00-25:30	Session 29: Welcome to the Workshop	IAEA Secretariat
25:30-26:00	Session 30: Overview of the Workshop	IAEA Secretariat
26:00-26:30	Session 31: Basic Concepts	IAEA Secretariat
26:30-27:00	Session 32: Primary Objective and Prerequisites for Termination	IAEA Secretariat
27:00-27:30	Session 33: Protection Strategy for the Transition Phase	IAEA Secretariat
27:30-28:00	Session 34: Adapting and Lifting Protective Actions	IAEA Secretariat
28:00-28:30	Session 35: Characterization of Exposure Situation	IAEA Secretariat
28:30-29:00	Session 36: Medical Response during the Transition Phase	IAEA Secretariat
29:00-29:30	Session 37: Radioactive Waste Management	IAEA Secretariat
29:30-30:00	Session 38: Protection of Emergency Workers and Helpers	IAEA Secretariat
30:00-30:30	Session 39: Consultation with Relevant Interested Parties	IAEA Secretariat
30:30-31:00	Session 40: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
31:00-31:30	Session 41: Summary and Conclusions	IAEA Secretariat
31:30-32:00	Session 42: Final Remarks	IAEA Secretariat
32:00-32:30	Session 43: Dinner	
32:30-33:00	Session 44: Welcome to the Workshop	IAEA Secretariat
33:00-33:30	Session 45: Overview of the Workshop	IAEA Secretariat
33:30-34:00	Session 46: Basic Concepts	IAEA Secretariat
34:00-34:30	Session 47: Primary Objective and Prerequisites for Termination	IAEA Secretariat
34:30-35:00	Session 48: Protection Strategy for the Transition Phase	IAEA Secretariat
35:00-35:30	Session 49: Adapting and Lifting Protective Actions	IAEA Secretariat
35:30-36:00	Session 50: Characterization of Exposure Situation	IAEA Secretariat
36:00-36:30	Session 51: Medical Response during the Transition Phase	IAEA Secretariat
36:30-37:00	Session 52: Radioactive Waste Management	IAEA Secretariat
37:00-37:30	Session 53: Protection of Emergency Workers and Helpers	IAEA Secretariat
37:30-38:00	Session 54: Consultation with Relevant Interested Parties	IAEA Secretariat
38:00-38:30	Session 55: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
38:30-39:00	Session 56: Summary and Conclusions	IAEA Secretariat
39:00-39:30	Session 57: Final Remarks	IAEA Secretariat
39:30-40:00	Session 58: Dinner	
40:00-40:30	Session 59: Welcome to the Workshop	IAEA Secretariat
40:30-41:00	Session 60: Overview of the Workshop	IAEA Secretariat
41:00-41:30	Session 61: Basic Concepts	IAEA Secretariat
41:30-42:00	Session 62: Primary Objective and Prerequisites for Termination	IAEA Secretariat
42:00-42:30	Session 63: Protection Strategy for the Transition Phase	IAEA Secretariat
42:30-43:00	Session 64: Adapting and Lifting Protective Actions	IAEA Secretariat
43:00-43:30	Session 65: Characterization of Exposure Situation	IAEA Secretariat
43:30-44:00	Session 66: Medical Response during the Transition Phase	IAEA Secretariat
44:00-44:30	Session 67: Radioactive Waste Management	IAEA Secretariat
44:30-45:00	Session 68: Protection of Emergency Workers and Helpers	IAEA Secretariat
45:00-45:30	Session 69: Consultation with Relevant Interested Parties	IAEA Secretariat
45:30-46:00	Session 70: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
46:00-46:30	Session 71: Summary and Conclusions	IAEA Secretariat
46:30-47:00	Session 72: Final Remarks	IAEA Secretariat
47:00-47:30	Session 73: Dinner	
47:30-48:00	Session 74: Welcome to the Workshop	IAEA Secretariat
48:00-48:30	Session 75: Overview of the Workshop	IAEA Secretariat
48:30-49:00	Session 76: Basic Concepts	IAEA Secretariat
49:00-49:30	Session 77: Primary Objective and Prerequisites for Termination	IAEA Secretariat
49:30-50:00	Session 78: Protection Strategy for the Transition Phase	IAEA Secretariat
50:00-50:30	Session 79: Adapting and Lifting Protective Actions	IAEA Secretariat
50:30-51:00	Session 80: Characterization of Exposure Situation	IAEA Secretariat
51:00-51:30	Session 81: Medical Response during the Transition Phase	IAEA Secretariat
51:30-52:00	Session 82: Radioactive Waste Management	IAEA Secretariat
52:00-52:30	Session 83: Protection of Emergency Workers and Helpers	IAEA Secretariat
52:30-53:00	Session 84: Consultation with Relevant Interested Parties	IAEA Secretariat
53:00-53:30	Session 85: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
53:30-54:00	Session 86: Summary and Conclusions	IAEA Secretariat
54:00-54:30	Session 87: Final Remarks	IAEA Secretariat
54:30-55:00	Session 88: Dinner	
55:00-55:30	Session 89: Welcome to the Workshop	IAEA Secretariat
55:30-56:00	Session 90: Overview of the Workshop	IAEA Secretariat
56:00-56:30	Session 91: Basic Concepts	IAEA Secretariat
56:30-57:00	Session 92: Primary Objective and Prerequisites for Termination	IAEA Secretariat
57:00-57:30	Session 93: Protection Strategy for the Transition Phase	IAEA Secretariat
57:30-58:00	Session 94: Adapting and Lifting Protective Actions	IAEA Secretariat
58:00-58:30	Session 95: Characterization of Exposure Situation	IAEA Secretariat
58:30-59:00	Session 96: Medical Response during the Transition Phase	IAEA Secretariat
59:00-59:30	Session 97: Radioactive Waste Management	IAEA Secretariat
59:30-60:00	Session 98: Protection of Emergency Workers and Helpers	IAEA Secretariat
60:00-60:30	Session 99: Consultation with Relevant Interested Parties	IAEA Secretariat
60:30-61:00	Session 100: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
61:00-61:30	Session 101: Summary and Conclusions	IAEA Secretariat
61:30-62:00	Session 102: Final Remarks	IAEA Secretariat
62:00-62:30	Session 103: Dinner	
62:30-63:00	Session 104: Welcome to the Workshop	IAEA Secretariat
63:00-63:30	Session 105: Overview of the Workshop	IAEA Secretariat
63:30-64:00	Session 106: Basic Concepts	IAEA Secretariat
64:00-64:30	Session 107: Primary Objective and Prerequisites for Termination	IAEA Secretariat
64:30-65:00	Session 108: Protection Strategy for the Transition Phase	IAEA Secretariat
65:00-65:30	Session 109: Adapting and Lifting Protective Actions	IAEA Secretariat
65:30-66:00	Session 110: Characterization of Exposure Situation	IAEA Secretariat
66:00-66:30	Session 111: Medical Response during the Transition Phase	IAEA Secretariat
66:30-67:00	Session 112: Radioactive Waste Management	IAEA Secretariat
67:00-67:30	Session 113: Protection of Emergency Workers and Helpers	IAEA Secretariat
67:30-68:00	Session 114: Consultation with Relevant Interested Parties	IAEA Secretariat
68:00-68:30	Session 115: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
68:30-69:00	Session 116: Summary and Conclusions	IAEA Secretariat
69:00-69:30	Session 117: Final Remarks	IAEA Secretariat
69:30-70:00	Session 118: Dinner	
70:00-70:30	Session 119: Welcome to the Workshop	IAEA Secretariat
70:30-71:00	Session 120: Overview of the Workshop	IAEA Secretariat
71:00-71:30	Session 121: Basic Concepts	IAEA Secretariat
71:30-72:00	Session 122: Primary Objective and Prerequisites for Termination	IAEA Secretariat
72:00-72:30	Session 123: Protection Strategy for the Transition Phase	IAEA Secretariat
72:30-73:00	Session 124: Adapting and Lifting Protective Actions	IAEA Secretariat
73:00-73:30	Session 125: Characterization of Exposure Situation	IAEA Secretariat
73:30-74:00	Session 126: Medical Response during the Transition Phase	IAEA Secretariat
74:00-74:30	Session 127: Radioactive Waste Management	IAEA Secretariat
74:30-75:00	Session 128: Protection of Emergency Workers and Helpers	IAEA Secretariat
75:00-75:30	Session 129: Consultation with Relevant Interested Parties	IAEA Secretariat
75:30-76:00	Session 130: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
76:00-76:30	Session 131: Summary and Conclusions	IAEA Secretariat
76:30-77:00	Session 132: Final Remarks	IAEA Secretariat
77:00-77:30	Session 133: Dinner	
77:30-78:00	Session 134: Welcome to the Workshop	IAEA Secretariat
78:00-78:30	Session 135: Overview of the Workshop	IAEA Secretariat
78:30-79:00	Session 136: Basic Concepts	IAEA Secretariat
79:00-79:30	Session 137: Primary Objective and Prerequisites for Termination	IAEA Secretariat
79:30-80:00	Session 138: Protection Strategy for the Transition Phase	IAEA Secretariat
80:00-80:30	Session 139: Adapting and Lifting Protective Actions	IAEA Secretariat
80:30-81:00	Session 140: Characterization of Exposure Situation	IAEA Secretariat
81:00-81:30	Session 141: Medical Response during the Transition Phase	IAEA Secretariat
81:30-82:00	Session 142: Radioactive Waste Management	IAEA Secretariat
82:00-82:30	Session 143: Protection of Emergency Workers and Helpers	IAEA Secretariat
82:30-83:00	Session 144: Consultation with Relevant Interested Parties	IAEA Secretariat
83:00-83:30	Session 145: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
83:30-84:00	Session 146: Summary and Conclusions	IAEA Secretariat
84:00-84:30	Session 147: Final Remarks	IAEA Secretariat
84:30-85:00	Session 148: Dinner	
85:00-85:30	Session 149: Welcome to the Workshop	IAEA Secretariat
85:30-86:00	Session 150: Overview of the Workshop	IAEA Secretariat
86:00-86:30	Session 151: Basic Concepts	IAEA Secretariat
86:30-87:00	Session 152: Primary Objective and Prerequisites for Termination	IAEA Secretariat
87:00-87:30	Session 153: Protection Strategy for the Transition Phase	IAEA Secretariat
87:30-88:00	Session 154: Adapting and Lifting Protective Actions	IAEA Secretariat
88:00-88:30	Session 155: Characterization of Exposure Situation	IAEA Secretariat
88:30-89:00	Session 156: Medical Response during the Transition Phase	IAEA Secretariat
89:00-89:30	Session 157: Radioactive Waste Management	IAEA Secretariat
89:30-90:00	Session 158: Protection of Emergency Workers and Helpers	IAEA Secretariat
90:00-90:30	Session 159: Consultation with Relevant Interested Parties	IAEA Secretariat
90:30-91:00	Session 160: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
91:00-91:30	Session 161: Summary and Conclusions	IAEA Secretariat
91:30-92:00	Session 162: Final Remarks	IAEA Secretariat
92:00-92:30	Session 163: Dinner	
92:30-93:00	Session 164: Welcome to the Workshop	IAEA Secretariat
93:00-93:30	Session 165: Overview of the Workshop	IAEA Secretariat
93:30-94:00	Session 166: Basic Concepts	IAEA Secretariat
94:00-94:30	Session 167: Primary Objective and Prerequisites for Termination	IAEA Secretariat
94:30-95:00	Session 168: Protection Strategy for the Transition Phase	IAEA Secretariat
95:00-95:30	Session 169: Adapting and Lifting Protective Actions	IAEA Secretariat
95:30-96:00	Session 170: Characterization of Exposure Situation	IAEA Secretariat
96:00-96:30	Session 171: Medical Response during the Transition Phase	IAEA Secretariat
96:30-97:00	Session 172: Radioactive Waste Management	IAEA Secretariat
97:00-97:30	Session 173: Protection of Emergency Workers and Helpers	IAEA Secretariat
97:30-98:00	Session 174: Consultation with Relevant Interested Parties	IAEA Secretariat
98:00-98:30	Session 175: Management Organization and Infrastructure for the Transition Phase	IAEA Secretariat
98:30-99:00	Session 176: Summary and Conclusions	IAEA Secretariat
99:00-99:30	Session 177: Final Remarks	IAEA Secretariat
99:30-100:00	Session 178: Dinner	

## 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!*

**Lecture notes:**

Thank you!