IAEA Post Graduate Educational Course in Radiation Protection and Safety of Radiation Sources

Intervention for Chronic and Emergency Exposure Situations

Developing a National Capability for Response

Emergency Plan Outline

Lecture

Introduction

- Radiation Emergency Plan is a description of the roles and responsibilities of all the responding persons, units, organisations and their relationships
- Procedures are then needed to carry out the plans
- In this lesson suggested plan outlines at national, local and operator level are given

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Content

- Radiation emergency plans' outlines
  - National Radiation Emergency Plan
  - Local government and participating organisations emergency plans
  - Facility's (on-site) emergency plan
  - Operator's contingency plan
- Summary

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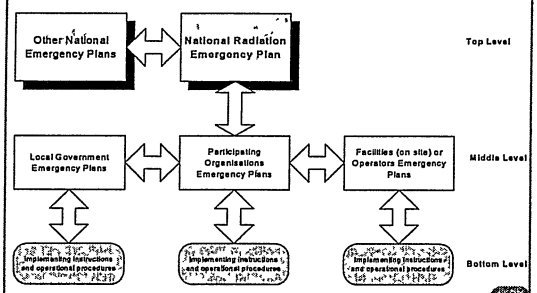
Overall Emergency System



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National Radiation Emergency Plan

- The NREP is a general description of the roles and responsibilities of all the responding organisations and their relationships
- It is a summary of the more detailed plans and assures that all the other planning is integrated and compatible

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NREP Outline

- Title (cover) page
- Table of Contents
- Chapter 1: Introduction and Background
- Chapter 2: Planning Basis
- Chapter 3: Emergency Organisation and Responsibilities

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NREP Outline – Cont'd

- Chapter 4: Emergency response
- Chapter 5: Emergency Preparedness

- References
- List of Abbreviations
- Distribution List
- Appendices

Title (Cover) Page

- Title of the plan
- Version No.
- Approval date
- Validation date
- Signatures

Chapter 1: Introduction and Background

- Purpose
- Participating organisations
- Scope
- Definitions
- Authorities
- Relationship to other plans

Chapter 2: Planning Basis

- Types of the accidents
- Basis for activating the NREP
- Resources commitment
- Requests for government assistance
- Reimbursement

Chapter 3: Emergency Organisation and Responsibilities

- General responsibilities and authorities
- National emergency response organisation
- Interfaces

Chapter 4: Emergency Response

- Concepts of operations
- Stages of the government response
- International co-ordination

Chapter 5: Emergency Preparedness

- Authorities and responsibilities
- Plan maintenance
- Training
- Exercises
- Public education

Additional Information

- References
- List of abbreviations
- Distribution list

Appendices

- Appendix 1 – Authorities, Responsibilities and Capabilities of National Agencies, Ministries and Organisations
- Appendix 2 – Table of International Legal Authorities and Agreements
- Appendix 3 – National Intervention Levels
- Appendix 4 – Facilities and Specialized Radiological Resources
- Appendix 5 – Implementing Procedures
- Appendix 6 – Supporting Documentation

Local Government and Participating Organisations' Emergency Plans

- The plan should contain
  - Introductory information
  - Emergency response organisation
  - Activation of emergency organisation
  - Response activities within overall emergency response
  - Emergency capabilities, and
  - Emergency preparedness maintenance

Plan Outline

- Introduction: purpose, scope and applications, overall response activities, definitions, relations to other plans
- Response organisation
- Emergency response: stages of response, *response co-ordination*

Plan Outline – Cont'd

- Emergency preparedness: authorities and responsibilities, plan maintenance, *facilities and equipment maintenance*, training and exercises
- References, List of abbreviations, Distribution list
- Appendences
  - Organisation authorities, responsibilities and capabilities
  - *Notification tables*
  - Implementing procedures
  - Supporting documentation

Facility (On-site) Emergency Plan

- It should contain:
  - Organisation for coping with radiation emergencies
  - Assessment activities
  - Notification mechanism
  - Activation of emergency organisation
  - Emergency capabilities, and
  - Elements of emergency preparedness

Plan Outline

- Introduction
  - Purpose, scope, definitions, relationship to off-site emergency plans
- Organisation, authorities and responsibilities
  - Facility operating organisation, on-site emergency response organisation

Plan Outline – Cont'd

- Emergency response
  - Concept of operations
  - Initial accident assessment and classification
  - Notification mechanism
  - Activation of emergency organisation
  - Co-ordination with off-site
  - Emergency resources
  - Response deactivation and recovery

Plan Outline – Cont'd

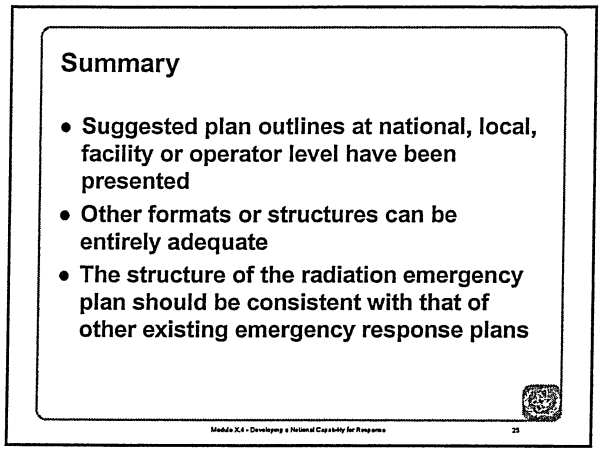
- Emergency preparedness
  - Authorities and responsibilities, plan maintenance, training, exercises, public education
- List of abbreviations, distribution list
- Appendences
  - Notification tables, implementing procedures, supporting documentation, tables of EALs, ILs and OILs

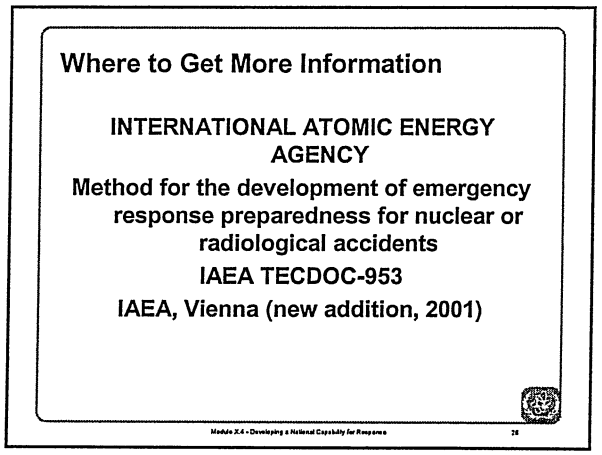
Operator's Contingency Plan

- It should contain
  - Short introductory information
  - Response instructions for copying with radiological emergencies
  - List of equipment, and
  - Some elements of emergency preparedness

Plan Outline

- Introduction: purpose, scope and applications
- Emergency response: responsibilities, initiation events and notification process, response instructions and equipment needed
- Emergency preparedness: plan and equipment maintenance, training and drills
- Distribution list


Summary
• Suggested plan outlines at national, local, facility or operator level have been presented
• Other formats or structures can be entirely adequate
• The structure of the radiation emergency plan should be consistent with that of other existing emergency response plans


Where to Get More Information
INTERNATIONAL ATOMIC ENERGY AGENCY
Method for the development of emergency response preparedness for nuclear or radiological accidents
IAEA TECDOC-953
IAEA, Vienna (new addition, 2001)