

IAEA Roles and Responsibilities in Nuclear or Radiological Emergency Preparedness and Response

IAEA's IEC – ILO Webinar
6 May 2016

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Incident and Emergency Centre



IAEA

International Atomic Energy Agency

Basis for Secretariat's EPR

- IAEA's Statute
- Early Notification Convention
- Assistance Convention
- IAEA safety standards
- Relevant decisions of policy-making organs
- International agreements
- Best international practice



Incident and Emergency Centre (IEC)



IEC
Incident and
Emergency Centre

Global focal point

for emergency preparedness and response

for nuclear and radiological safety or security related
emergencies, threats or events of media interest

and

world's centre for coordination of international emergency
preparedness and response assistance

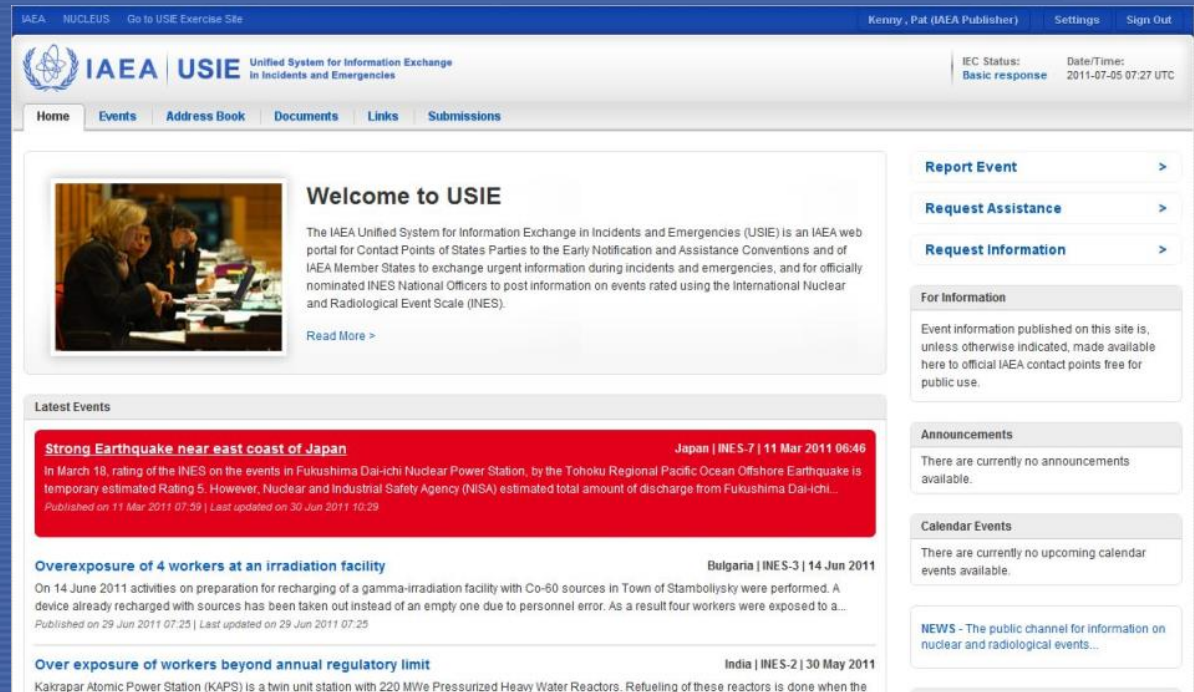


Roles and Responsibilities in Response (1)

- Notification and official information exchange
 - Through officially designated Contact Points

Convention
on Early Notification
of a Nuclear Accident
and
Convention on Assistance
in the Case
of a Nuclear Accident
or Radiological Emergency

 INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1987



IAEA NUCLEUS Go to IUSE Exercise Site Kenny, Pat (IAEA Publisher) Settings Sign Out

IAEA USIE Unified System for Information Exchange
In Incidents and Emergencies IEC Status: Basic response Date/Time: 2011-07-05 07:27 UTC

Home Events Address Book Documents Links Submissions

Welcome to USIE

The IAEA Unified System for Information Exchange in Incidents and Emergencies (USIE) is an IAEA web portal for Contact Points of States Parties to the Early Notification and Assistance Conventions and of IAEA Member States to exchange urgent information during incidents and emergencies, and for officially nominated INES National Officers to post information on events rated using the International Nuclear and Radiological Event Scale (INES).

[Read More >](#)

Latest Events

Strong Earthquake near east coast of Japan Japan | INES-7 | 11 Mar 2011 06:46
In March 18, rating of the INES on the events in Fukushima Dai-ichi Nuclear Power Station, by the Tohoku Regional Pacific Ocean Offshore Earthquake is temporary estimated Rating 5. However, Nuclear and Industrial Safety Agency (NISA) estimated total amount of discharge from Fukushima Dai-ichi...
Published on 11 Mar 2011 07:59 | Last updated on 30 Jun 2011 10:29

Overexposure of 4 workers at an irradiation facility Bulgaria | INES-3 | 14 Jun 2011
On 14 June 2011 activities on preparation for recharging of a gamma-irradiation facility with Co-60 sources in Town of Stambolysky were performed. A device already recharged with sources has been taken out instead of an empty one due to personnel error. As a result four workers were exposed to a...
Published on 29 Jun 2011 07:25 | Last updated on 29 Jun 2011 07:25

Over exposure of workers beyond annual regulatory limit India | INES-2 | 30 May 2011
Kakrapar Atomic Power Station (KAPS) is a twin unit station with 220 MWe Pressurized Heavy Water Reactors. Refueling of these reactors is done when the

Report Event >
Request Assistance >
Request Information >

For Information
Event information published on this site is, unless otherwise indicated, made available here to official IAEA contact points free for public use.

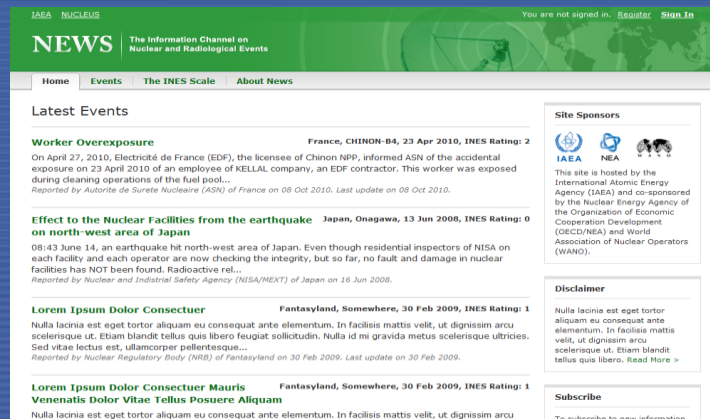
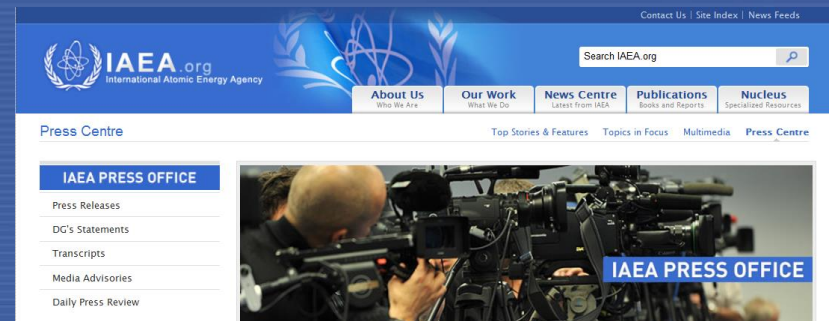
Announcements
There are currently no announcements available.

Calendar Events
There are currently no upcoming calendar events available.

NEWS - The public channel for information on nuclear and radiological events...

Roles and Responsibilities in Response (2)

- Provision of public information
 - Timely, clear, correct and easily understandable



Roles and Responsibilities in Response (3)

- Assessment of potential emergency consequences and prognosis of possible emergency progression

IAEA Action Plan on Nuclear Safety

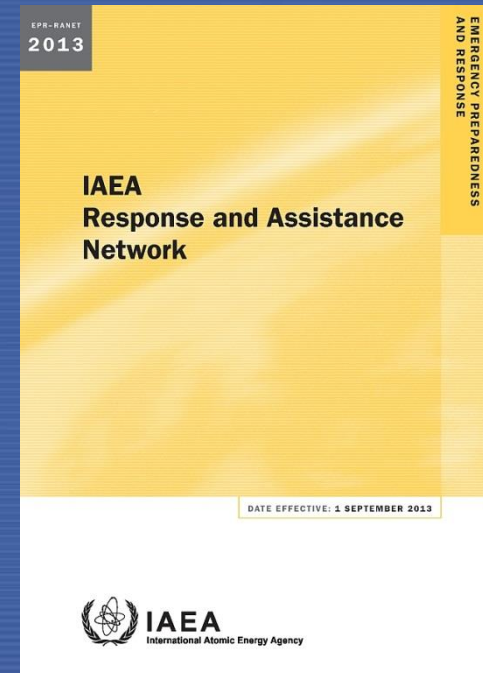
‘Enhance transparency and effectiveness of communication and improve dissemination of information’

- “The IAEA Secretariat to provide Member States, international organizations and the general public with **timely, clear, factually correct, objective and easily understandable information** during a nuclear emergency on its **potential consequences, including analysis of available information and prognosis of possible scenarios** based on evidence, scientific knowledge and the capabilities of Member States.”

Roles and Responsibilities in Response (4)

- Provision of assistance on request
 - Provide/facilitate and coordinate

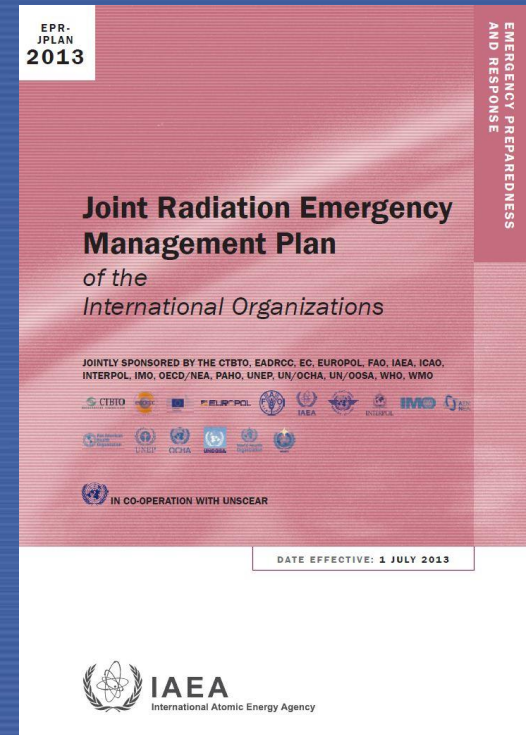
28 Member States registered in RANET



Roles and Responsibilities in Response (5)

- Coordination of inter-agency response
 - Achieve synergy, speak with ‘one voice’

18 International Organizations members
of the Inter-Agency Committee on
Radiological and Nuclear Emergencies
(IACRNE)



Examples of IEC Responses

Response to the accident at TEPCO's Fukushima Daiichi Nuclear Power Plant, 2011

- Full Response Mode – March 11- May 3, 2011
 - 54 days (24 h)
 - 230 IAEA's staff worked in IEC in shifts
- Basic Response Mode
 - May 4 – December 21, 2011
- Normal/Ready Mode
 - Since December 21, 2011
 - Liaising with PM Japan and counterparts in Japan related to assessment matters and monitoring data
 - Continuing to prepare/publish Status Summary Reports **including IAEA assessment**



Roles and Responsibilities in Preparedness

- Emergency Preparedness and Response (EPR)
Safety Standards, guidance and tools
- EPR capacity building
- Emergency Preparedness Review (EPREV)
- IAEA's in-house and inter-agency preparedness

Standards, Guidance and Tools

IAEA Safety Standards
for protecting people and the environment

Preparedness and Response for a Nuclear or Radiological Emergency

Jointly developed by the IAEA, WHO, UNEP, UNISDR, OCHA, WFP, WMO, ILO, ITC, UNFPA, UNCTAD, UN Women, UNICEF, UN Women, UN Women

General Safety Requirements
No. GS-R Part 7

IAEA Safety Standards
for protecting people and the environment

Arrangements for Preparedness for a Nuclear or Radiological Emergency

Jointly developed by the IAEA, WHO, UNEP, UNISDR, OCHA, WFP, WMO, ILO, ITC, UNFPA, UNCTAD, UN Women, UNICEF, UN Women, UN Women

Safety Guide
No. GS-G-2.1

IAEA Safety Standards
for protecting people and the environment

Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency

Jointly developed by the IAEA, WHO, UNEP, UNISDR, OCHA, WFP, WMO, ILO, ITC, UNFPA, UNCTAD, UN Women, UNICEF, UN Women, UN Women

General Safety Guide
No. GSG-2

The Radiological Accident in Goiânia

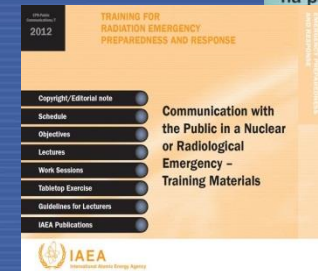
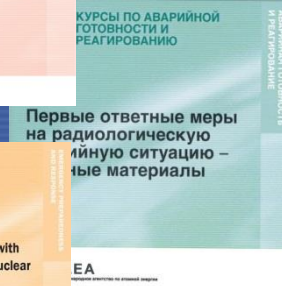
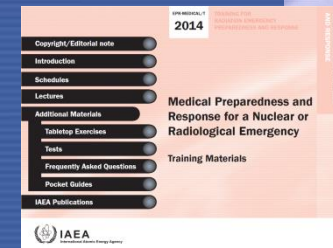
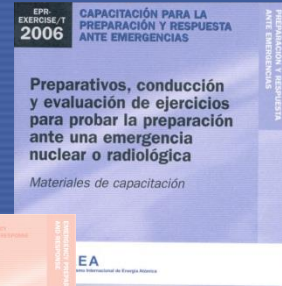
INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1999

Accidental Overexposure of Radiotherapy Patients in Białystok

The Radiological Accident in Cochabamba

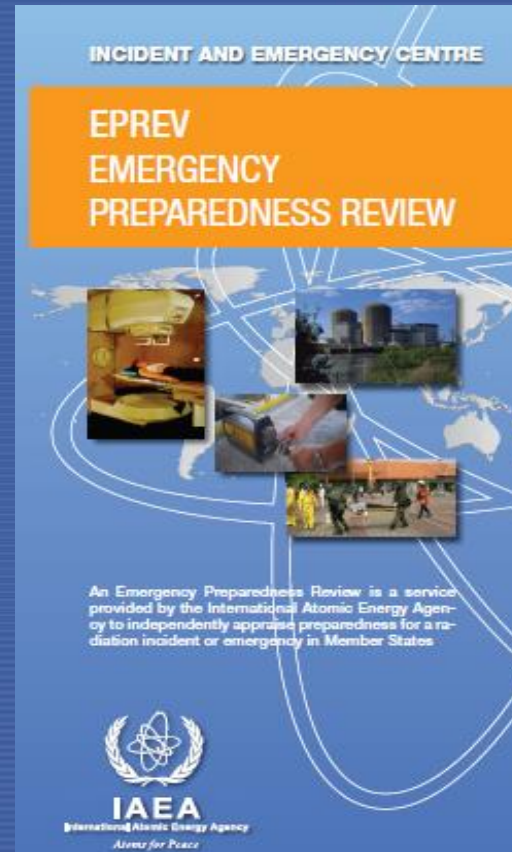
Capacity Building in EPR

- Strategy: Train-the-Trainers approach
 - National follow-up courses encouraged
- Standardized training materials
 - Ensures compatibility of approaches
- New training tools
 - E-learning, portable digital tools
- Emphasis on practical aspects
 - Functionality, drills, exercises
- IAEA training materials in UN languages available for Member States' application



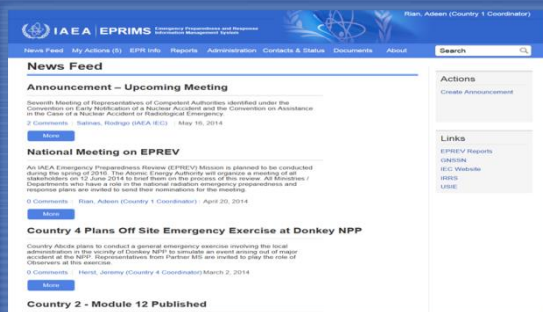
Emergency Preparedness Review (EPREV)

- To independently appraise national capabilities in emergency preparedness and response
- Service since 1999
- Some 40 missions conducted



IEC Information Source

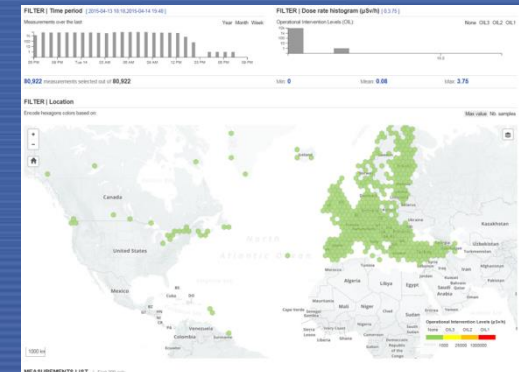
- **EPRIMS** (Emergency Preparedness and Response Information Management System): improve access and promote EPR information exchange
- **EPNET** (Emergency Preparedness Network): strengthen transparency and information exchange
- **IRMIS** (International Radiation Monitoring Information System): share routine and emergency monitoring data
- **USIE** (As referred on Slide 4)



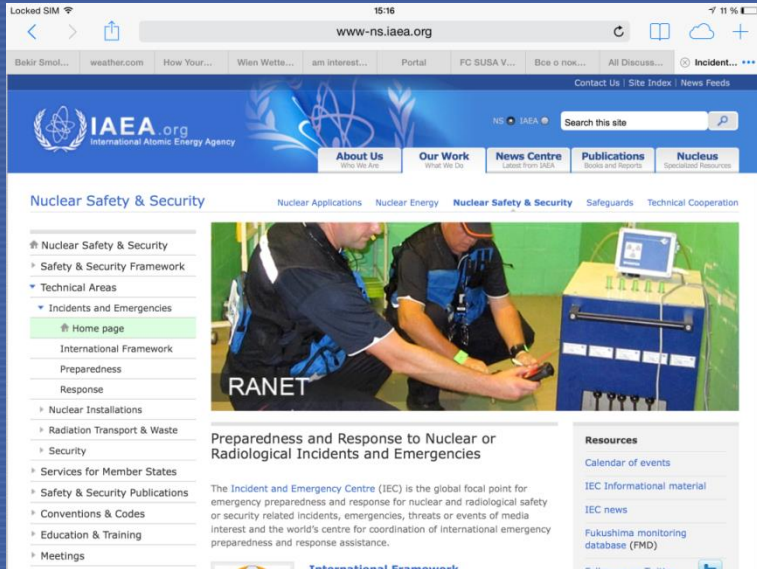
The screenshot shows the IAEA EPRIMS website interface. The header includes the IAEA logo and navigation links like 'Home', 'My Actions (5)', 'EPR Info', 'Reports', 'Administration', 'Contacts & Status', 'Documents', and 'About'. A search bar is present. The main content area is titled 'News Feed' and lists several news items:

- Announcement – Upcoming Meeting**: Seventh Meeting of Representatives of Competent Authorities, identified under the Convention on Early Notification of a Nuclear Accident and the Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency. 27 Comments | Sabine, Rodrigo (OEA, EC) | May 16, 2014.
- National Meeting on EPREV**: An IAEA Emergency Preparedness Review (EPREV) Mission is planned to be conducted in the Republic of Korea from 12 June 2014 to 10 July 2014. The mission will be a part of a series of EPREV missions in the region. The mission will be conducted in the context of the project of the reactor. All EPR operators, departments, who have a role in the national decision making procedures and response plans are invited to send their nominations for the meeting. 0 Comments | Wook, Aileen (Country 1 Coordinator) | April 20, 2014.
- Country 4 Plans Off Site Emergency Exercise at Donkey NPP**: Country 4Adeca plans to conduct a general emergency exercise involving the local administration in the vicinity of Donkey NPP to simulate an event involving a fire or major accident at the NPP. Regional bodies from Partner 4Ade are invited to play the role of observers at the exercise. 0 Comments | Harriet, Jeremy (Country 4 Coordinator) March 2, 2014.
- Country 2 - Module 12 Published**

On the right side, there are sections for 'Actions' (Create Announcement), 'Links' (EPR-IV Reports, UNISON, SEC Manuals, IRIS, USIE), and 'Comments'.



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Thank you!

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