

IAEA arrangements for international assistance in the framework of the Assistance Convention

NERIS Workshop
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- Process for the provision of assistance
- Expertise, resources available through IAEA
- IAEA Response and Assistance Network (RANET)
- RANET JAT Exercise



“Parties to Assistance Convention have undertaken to cooperate among them and with IAEA to facilitate prompt provision of assistance in case of a nuclear accident or radiological emergency, in order to mitigate its consequences.”

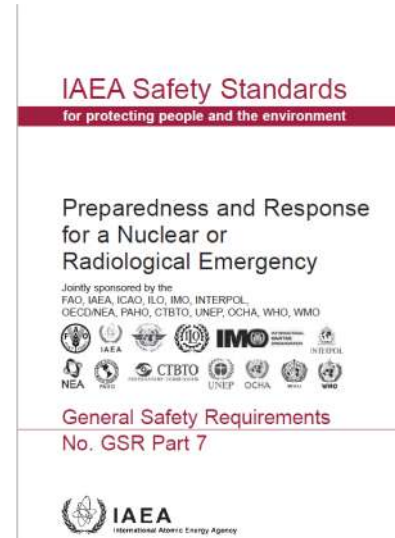
Convention
on Early Notification
of a Nuclear Accident
and
Convention on Assistance
in the Case
of a Nuclear Accident
or Radiological Emergency



INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1987

Requesting Assistance

- States must be prepared to request and receive assistance
- GSR-Part 7, para 5.29:
“... arrangements shall be made to determine whether and when additional assistance is necessary and to determine how to obtain such assistance.”

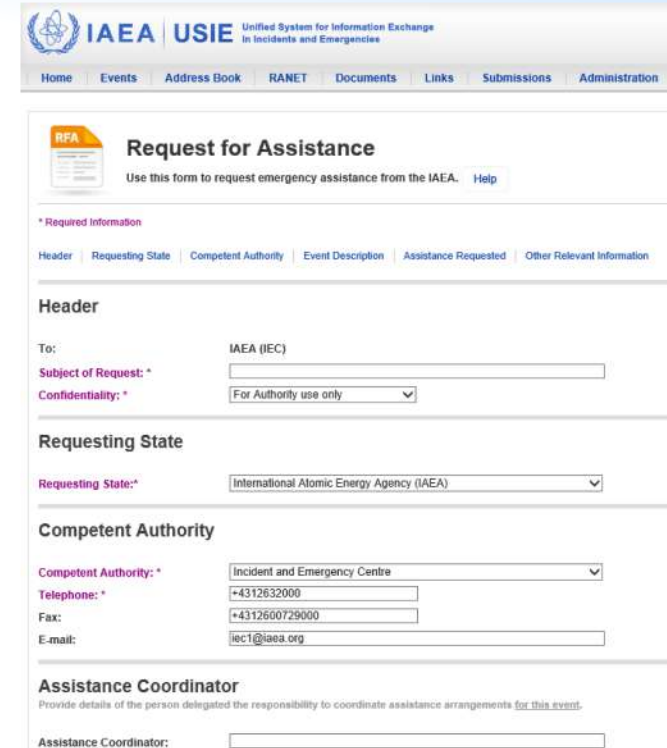


Requesting Assistance

- Whether an event originates on a State's territory or under its jurisdiction or control, a State may request assistance from or through the IAEA
 - State Parties may request assistance in accordance with the Assistance Convention
 - Member States and non-Member States may also request assistance
 - Limitations apply to provision of assistance outside the Convention

Requesting Assistance

- In the event of nuclear or radiological incident or emergency:
 - Competent Authority or Permanent Mission can request assistance (24/7)
 1. Submit a RFA form on USIE;
 2. Fax to the IEC; or
 3. Telephone the IEC.
- RFA include scope and type of assistance:
 - Information on event
 - Type(s) of assistance required



Request for Assistance
Use this form to request emergency assistance from the IAEA. [Help](#)

*** Required Information**

Header

To: IAEA (IEC)

Subject of Request: *

Confidentiality: * For Authority use only

Requesting State

Requesting State: * International Atomic Energy Agency (IAEA)

Competent Authority

Competent Authority: * Incident and Emergency Centre

Telephone: * +4312632000

Fax: +4312600729000

E-mail: iec1@iaea.org

Assistance Coordinator

Provide details of the person delegated the responsibility to coordinate assistance arrangements for this event.

Assistance Coordinator:

- On-call staff authenticate and verify the request
- Initial assessment to determine urgency
 - E.g. immediately, next day, next work day
- Internal assessment to scope and identify objectives a possible assistance mission
- Identification of possible resources
 - Internal and External (i.e. RANET)

Response and Assistance Network (RANET)

- RANET was established in 2000
 - Operational tool to implement the Assistance Convention
 - Provision of international assistance upon request
- RANET is network of States
 - Capable and willing to provide assistance upon request
 - Appropriately trained, equipped and qualified personnel
 - Respond quickly and effectively to emergencies



- Nuclear accidents or radiological emergencies in context of Emergency Conventions
- Other nuclear or radiological accidents
- Radiological consequences that exceed State's response capabilities

EPR-RANET

- Effective 1 Sept 2013
- 8 Functional Areas
 - Defines 41 National Assistance Capabilities (NAC)
 - Covers wide range of response and assistance capabilities
- EPR-RANET 2018



- 2018 edition of **EPR-RANET** to be published soon:
 - New NAC on geographic mapping capabilities
 - Updated capabilities for assistance
 - Description of RANET database in USIE
 - Updated Assistance Action Plan Template
 - New appendences:
 - International ATA Carnet document for customs equipment documentation
 - Example request for and offer of assistance

National Assistance Capabilities

- State Parties register National Assistance Capabilities (NAC) in RANET
- Field Assistance Teams (FAT)
 - Deployable assets consisting of qualified and equipped experts
- External Based Support (EBS)
 - Reach-back or off-scene capabilities
 - Assessment, analysis and advice

RS - Radiation Survey		
FAT	RS-1	Foot/manual/ground based survey
EBS		
FAT	RS-2	In-situ gamma spectrometry
EBS		
FAT	RS-3	Vehicle based survey
EBS		
FAT	RS-4	Aerial based survey
EBS		
SSR Source Search and Recovery		
FAT	SSR-1	Foot/manual/ground based search
EBS		
FAT	SSR-2	Vehicle based search
EBS		
FAT	SSR-3	Aerial search
EBS		
FAT	SSR-4	Maritime search
EBS		
FAT	SSR-5	Source recovery
EBS		
RAA Radiological Assessment and Advice		
FAT	RAA-1	Atmospheric dispersion
EBS		
FAT	RAA-2	Hydrospheric dispersion
EBS		
FAT	RAA-3	Radioecological models
EBS		
FAT	RAA-4	Dose predictions
EBS		
FAT	RAA-5	Public health protection
EBS		
FAT	RAA-6	Remediation and recovery
EBS		

RANET Functional Areas

- Source Search and Recovery (SSR)
- Radiation Survey (RS)
- Environmental Sampling and Analysis (ESA)
- Radiological Assessment and Advice (RAA)
- Decontamination (DE)
- Medical Support (MS)
- Dose Assessment (DA)
- Nuclear Installation Assessment and Advice (NAA)

Registering Resources

- Following lessons identified by Japan:
 - States may identify and register the resources that they may be able to provide to a requesting State

Examples of resources:

- Radiation survey instruments;
- Personal dosimetry;
- Medical equipment and supplies;
- Measurement systems;
- Personal protective equipment;
- Electrical generators and supplies;
- Cooling and purification systems;
- Criticality control materials;
- Ventilation systems;
- Specialized resources (e.g. robotics, aircraft, shielding); and
- General supplies to support field activities.

Registration in RANET

- Prerequisites
 - Competent Authority must complete and submit registration
- Information needed
 - Statement of endorsement by Competent Authority
 - Information on resources and areas of expertise of NAC
 - May include nominal list of generalized experience and equipment lists, statement of ability, quality and timeline for deployment of FAT and activation of EBS

REGISTRATION OF NAC RESOURCES

IN THE RESPONSE AND ASSISTANCE NETWORK – RANET

PART A: GENERAL INFORMATION

1. Applying State/International Organization

Name: _____

2. Competent Authority

Name: _____

Address: _____

Telephone: _____ Fax: _____

Email: _____ Web site: _____

(optional)

3. NAC coordinator

Name: _____

Org: _____

Address: _____

Telephone: _____ Fax: _____

Email: _____

State Parties Registered in RANET

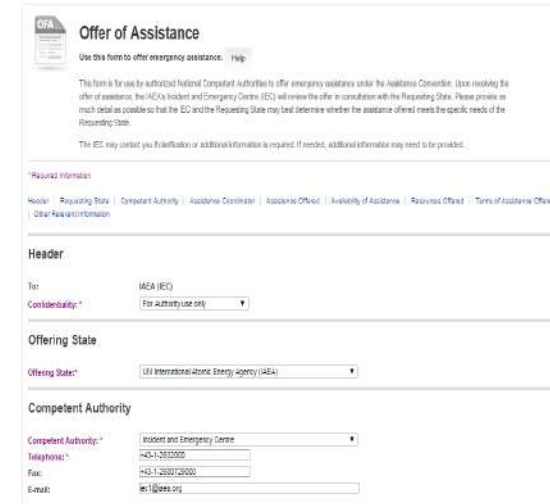
Current Status:

32 State Parties

Country	Radiation Survey	Environmental Sampling and Analysis	Source Search and Recovery	Radiological Assessment and Advice	Medical Support	Dose Assessment	Decontamination	Nuclear Installation Assessment and Advice
Argentina						FAT EBS		
Australia	FAT EBS	FAT	FAT				FAT	
Austria	FAT EBS		FAT EBS					
Belgium	FAT	FAT	FAT					
Bulgaria	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS
Canada						EBS		EBS
China	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	
Czech Republic	EBS	EBS	EBS	EBS		EBS		
Denmark	FAT EBS		FAT EBS	EBS				
Egypt	FAT EBS	FAT EBS						
Finland	FAT	EBS		EBS		EBS	EBS	
France	FAT	FAT EBS	FAT	EBS	FAT EBS	FAT EBS		
Germany	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT	
Hungary	FAT	FAT EBS	FAT	FAT EBS	FAT	EBS	EBS	
Israel	FAT EBS	FAT EBS	FAT	EBS		EBS		
Japan	EBS	EBS		EBS	EBS	EBS		FAT EBS
Korea, Republic of	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	EBS
Mexico	FAT	FAT	FAT			FAT		
Nigeria	FAT	FAT	FAT	FAT		FAT		
Norway	FAT	FAT EBS	FAT					
Pakistan	FAT EBS	FAT EBS	FAT EBS	EBS	EBS	EBS		FAT EBS
Romania	FAT EBS	FAT	FAT	FAT EBS		EBS	FAT	
Russian Federation	EBS	EBS		EBS	FAT EBS	FAT EBS		
Slovenia	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	EBS
Spain				EBS				FAT EBS
Sri Lanka	FAT	FAT	FAT					
Sweden	FAT	FAT EBS	FAT	FAT EBS		EBS		
Switzerland	FAT EBS	FAT EBS	FAT EBS			EBS		
Turkey	FAT EBS	FAT EBS	FAT EBS	EBS		EBS		
Ukraine	FAT EBS	FAT EBS	FAT EBS	EBS			FAT EBS	FAT EBS
United Kingdom		EBS		EBS		EBS		
United States of America	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS	FAT EBS		EBS

Offering Assistance

- RANET States offering assistance need to:
 - Coordinate with their NAC assets
 - Assess their current capacity to provide the requested assistance
 - Submit ‘offer of assistance’ on USIE including details of:
 - Experts
 - Equipment
 - Time until and duration of deployment
 - Any resources offered
 - Terms of assistance (e.g. financial)
 - Any requirements (e.g. technical)



The screenshot shows the 'Offer of Assistance' form on the USIE website. The form is titled 'Offer of Assistance' and includes a sub-header 'Use this form to offer emergency assistance. Help'. Below the header, there is a paragraph explaining the form's purpose: 'This form is for use by authorized National Competent Authorities to offer emergency assistance under the Assistance Convention. Upon receiving the offer of assistance, the IAEA's Incident and Emergency Centre (IEC) will review the offer in consultation with the Requesting State. Please provide as much detail as possible so that the IEC and the Requesting State may best determine whether the assistance offered meets the specific needs of the Requesting State.' A note below states: 'The IEC may contact you for clarification or additional information is required. If needed, additional information may need to be provided.'

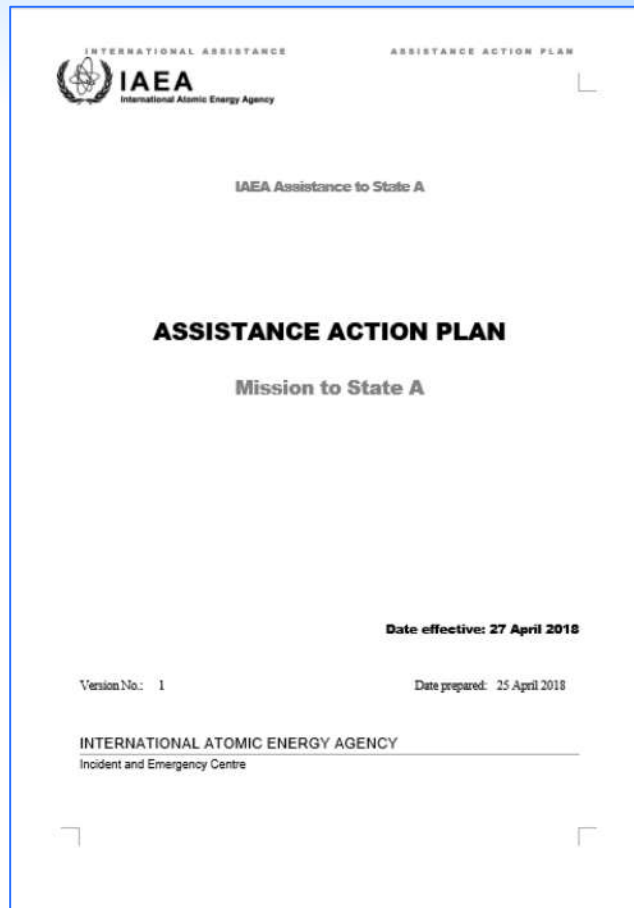
The form is divided into sections with tabs for 'Requesting State', 'Competent Authority', 'Assistance Convention', 'Assistance Offered', 'Availability of Assistance', 'Resources Offered', and 'Terms of Assistance Offered'. The 'Requesting State' section is currently active, showing a 'Header' section with 'To: IAEA (IEC)' and a 'Confidentiality' dropdown set to 'For Authority use only'. Below this is the 'Offering State' section with a dropdown menu set to 'Ukrainian International Atomic Energy Agency (Ukraine)'. The 'Competent Authority' section is also visible, showing a dropdown menu set to 'Incident and Emergency Centre' and fields for 'Telephone', 'Fax', and 'E-mail'.

Assistance Missions


- An Assistance Mission is performed by a group of qualified experts and can be:
 - A deployed **Field Assistance Team (FAT)**;
 - an **External Based Support (EBS)**;
or
 - a **Joint Assistance Team (JAT)**
comprising of a combination of FAT
and/or EBS.

Assistance Action Plan

- Objective and Scope
- Responsibilities
- Confidentiality
- Public Information
- Field Safety/Security
- Termination
- Financial Arrangements
- Workplan
- Team Composition
- Relevant Contact Details



INTERNATIONAL ASSISTANCE ASSISTANCE ACTION PLAN

 **IAEA**
International Atomic Energy Agency

IAEA Assistance to State A

ASSISTANCE ACTION PLAN

Mission to State A

Date effective: 27 April 2018

Version No.: 1 Date prepared: 25 April 2018

INTERNATIONAL ATOMIC ENERGY AGENCY
Incident and Emergency Centre

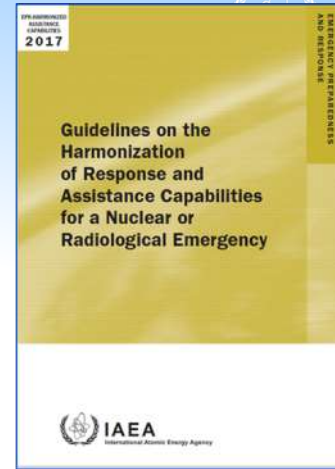
RANET JAT Exercise

- The first RANET JAT Exercise took place in the Fukushima Capacity Building Center in October 2017
- Simulated accident in a fictional state and using simulated measurement data
- IAEA Assistance Mission with a JAT comprising FATs and EBS experts from 7 Member States registered in RANET, as well as the IAEA Secretariat.

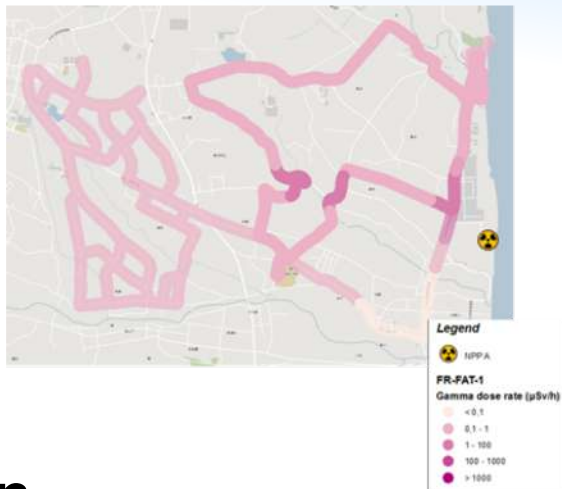


RANET JAT Exercise

- Tested management and resolution of administrative, logistical, technical, safety and security of personnel issues that may arise during an Assistance Mission
- Coordination of JAT assistance operations with the Accident State and delivered data reports and briefing products requested by the Accident State.
- Tested the Guidelines on the Harmonization of Response and Assistance Capabilities for a Nuclear or Radiological Emergency

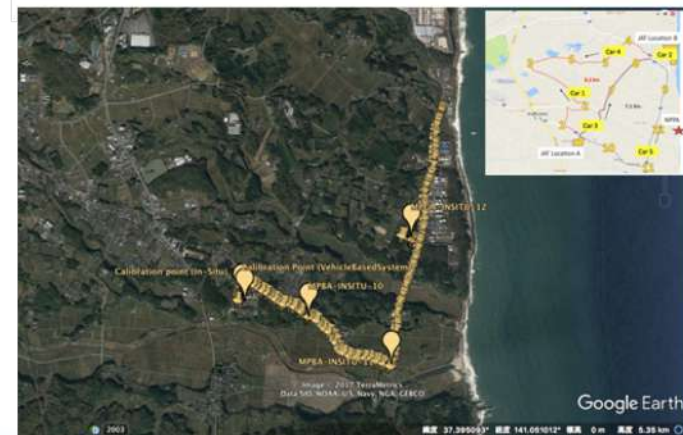


RANET JAT Exercise



Harmonization

- Measurement units
- Map products (colors)
- Naming conventions
- Data formats



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go raibh maith agat!

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