

IAEA International Conference on Global Emergency Preparedness and Response

Communication in an Emergency

G.Winkler

Incident and Emergency Centre
International Atomic Energy Agency



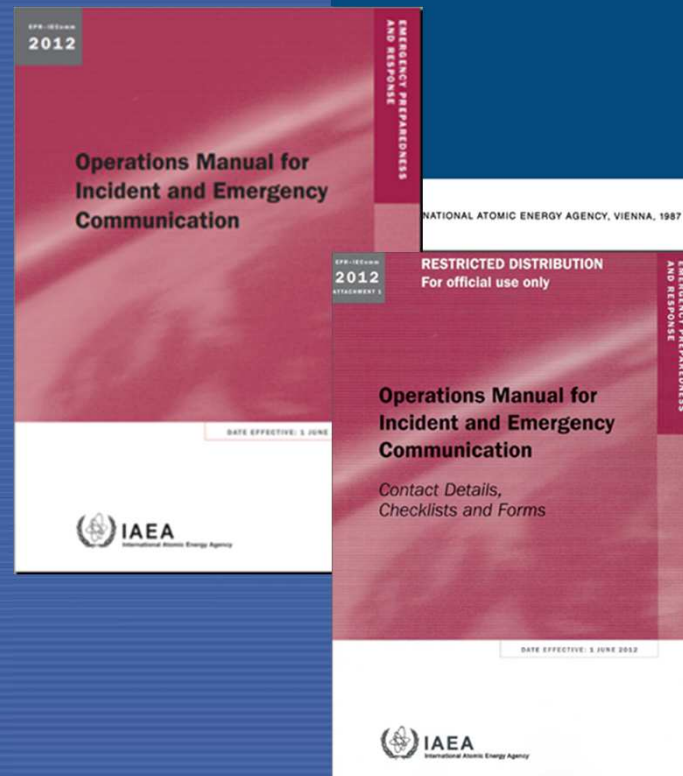
IAEA

International Atomic Energy Agency

Basis for Notification and Reporting

- Notification Convention
 - Obligations
- IEComm 2012
 - Arrangements
 - Attachment 1
 - Contacts, forms ...

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



Event Categorization

Nuclear installation events

- General Emergency
- Site Area Emergency
- Alert
 - Facility Emergency
 - Other event

Criminal

- Criminal or other unauthorized act (e.g. RDD)

Radiological events

- Release from facility
- Missing dangerous source
- Severe overexposure
- Space object re-entry
- Release from facility
- Elevated radiation of unknown origin

Contact points

- Parties, MS and non-MS to designate
 - **NWP** - National Warning Point
 - **NCA(D)** - National Competent Authority for a Domestic Emergency
 - **NCA(A)** - National Competent Authority for an Emergency Abroad
 - **INES National Officer**
- Permanent Missions to the IAEA

Contact points

National Warning Point - NWP

- Assigned to **single** institution in a state
- Staffed to be alerted **24/7**
- Immediate activation of response
- English
- Communications
 - Fax/email
 - Telephones (directly with IEC)
 - USIE

Contact points

NCA(D) - For Domestic Emergency

- Assigned to **one or more** institutions for
 - Initial notifications
 - Advisory messages
 - Follow-up messages
 - Assistance requests
 - Replies to requests
- Authorized to make requests for assistance
- Communication (fax/email, phones, USIE)

Contact points

NCA(A) - For Emergency Abroad

- Assigned to **single** institution in a state to
 - Verify info on emergency abroad
 - Receive, send or provide information during emergency originating in another State
- Authorized to make requests for assistance
- Communication (fax/emails, phones, USIE)

Contact points

Permanent Mission to the IAEA

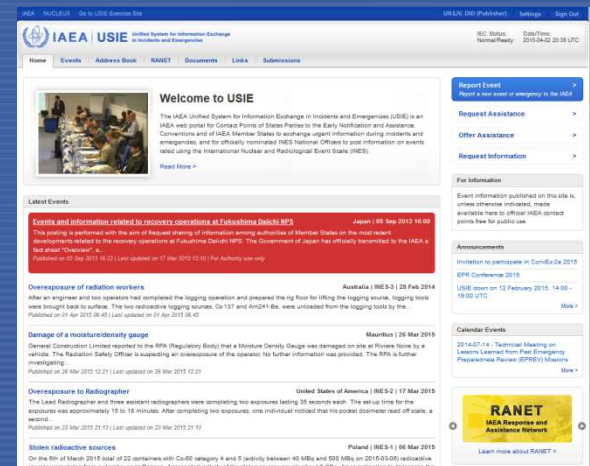
- Receives copies IEC sends to the State
- Assists in communication
- Assists with delivering of assistance
 - Visas for personnel entering the state
 - Customs clearance for equipment

Typical Steps & Response Time

- NCA sends initial notification Δt 2 h
- IEC acknowledges it
- IEC verifies it by calling NCA
- IEC offers the IAEA's good offices
- IEC notifies relevant states 2 h
- NCA sends further information ... 4 h

Emergency Channels

- IEC constantly monitors:
 - Primary Fax
 - Primary Telephone
 - USIE
- Once IEC is activated:
 - Email
 - Video conferences



Communication by fax

- For notifying /reporting
- Paper forms or MS Word templates on USIE
- Use primary IEC channels (24/7)!
- IEComm Attachment 1

STANDARD REPORT FORM (SRF) MESSAGE No. Enter Number Here

To: IAEA (IEC) For IAEA Secretariat use only For authority use only Free for public use
 Enter additional recipient For authority use only
 Enter additional recipient(s) Free for public use

EMERCON **EMERCON** **ADVISORY**

BASIC INFORMATION

1 Reporting STATE: Enter country name Number of pages 1 + Enter number here

2 Is this an official Notification under the Early Notification Convention of an actual or potential transboundary release that is or may be of radiological significance for another State? Yes No

3 Competent Authority: Enter your organizations name
Tel: + Enter number here E-mail: Enter email address here
Fax: + Enter number here Website URL: Enter web address here
Contact person (official position): Enter contact person Here

4 NATURE OF EVENT 5 Facility/Event Location
Event type: Choose an item. Name of Place/Facility: enter place/facility here
Type of facility/Activity: Choose an item. Co-ordinates
Emergency class declared: Select class Latitude: deg. dec* N S
Basis for declaration: Enter text here Longitude: deg. dec* E W

Datetime of emergency declaration: Click here to enter a date. Enter time here UTC (24 hour clock)

6 Date and time of occurrence: Click here to enter a date. Enter time here UTC (24 hour clock)

7 Information VALID at: Click here to enter a date. Enter time here UTC (24 hour clock)

8 EVENT DESCRIPTION: Enter description here

9 ACTIONS BEING TAKEN/PLANNED: Enter text here

10 MEDIA INFORMATION Press release attached see web site
Media contact tel: + Enter number here URL of public web-site: Enter webaddress here

11 OTHER RELEVANT INFORMATION: Enter text here

12 Further information in attachment Further information web: Enter webaddress here

SRF form version 3.0 (Nov 2012)

Communication via USIE

- For notifying /reporting
- Forms consistent with paper/electronic
- Direct notification to other countries!
- Users registered with appropriate roles! (editor, publisher)
- Session Timeout!

The image shows two screenshots of the USIE (Unified System for Information Exchange in Incidents and Emergencies) web interface. The top screenshot displays the "Standard Report Form" (SRF) for reporting an incident or emergency. It includes a header with the IAEA logo and navigation tabs like Home, Events, Address Book, RANET, Documents, Links, and Submissions. The form fields include "To:" (IAEA (IEC)), "Add Recipients", and "Add Contact Points". The bottom screenshot shows the "Request for Assistance" (RFA) form. It includes a header with the IAEA logo and navigation tabs. The form fields include "To:" (IAEA (IEC)), "Subject of Request:", "Confidentiality:" (set to "For Authority use only"), "Requesting State:" (Slovenia), "Request under Assistance Convention" (checkbox), "Competent Authority:" (Slovenian Nuclear Safety Administration (SNSA), Ministry of the environment, climate and energy), "Telephone:", "Fax:", "E-mail:", and "Assistance Coordinator:" (Name, Organization, Telephone, Fax, E-mail).

EMERCON Forms

- **General Emergency Form - GENF**
 - For General Emergencies at Nuclear Installations
- **Standard Report Form - SRF**
 - For all other classes and event types
- **Measurement and Protective Actions - MPA**
 - For submitting measurement data and
 - Information on planned or taken protective actions

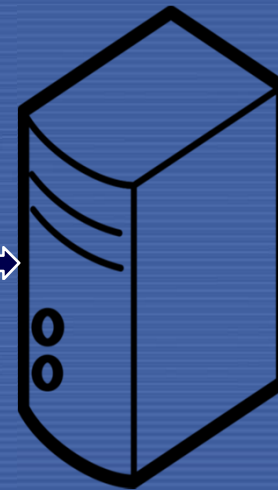
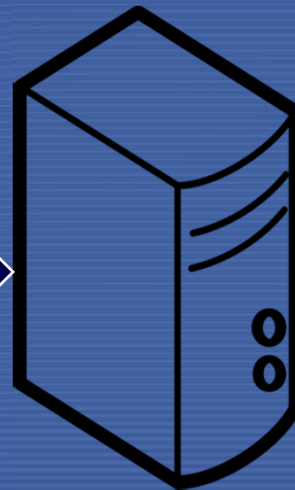
Other Forms (non EMERCON)

- **Event Notice Form - ENF**
 - Report events without urgency
- **Request for Information Form - RFI**
 - Request official information
- **Request for Assistance Form - RFA**
 - Request international assistance
- **Offer of Assistance Form - OFA**
 - Offer emergency assistance
- **INES Event Rating Form - ERF**
 - Report event to provide an INES rating

USIE Connect

- web service using IRIX data format
- Registered USIE connect accounts
- For direct machine to machine exchange of information

National System



USIE



After the submission of initial message

- IEC on-call staff call for authentication and verification
- Confirmation of critical information and possible initial questions
- IEC will send 'Offer of good offices'
- IEC will provide dedicated communication channels (telephone, fax, email, video-conference)
- Publish message on USIE (restricted)

Further IEC Actions

- IEC starts assessment and prognosis
 - Forecast of atmospheric release
- Completes 'status report' – distribution USIE and fax/email
- Public Information (Workshop on Thursday)
- IEC tries to anticipate development of the situation
- IEC response based on guidance within IEC publications

'Accident' State needs Liaison Officer

- Several questions to 'Accident' State (email)
- Connection to technical staff on coordination of assessment and prognosis (email, tel, video)
- Coordination on assessment, press releases and assistance issues
- 'Accident' state has to man at least one staff for liaison with IAEA!

Response Procedures

- For each of 12 event types
- They give
 - Description
 - Purpose
 - Obligation under convention
 - Expectation from Safety Standard
 - Encouragement
 - **List of actions** expected by Contact Points and IEC



Emergency Class: GENERAL EMERGENCY							
Description:	Events resulting in an actual or substantial risk of a release or radiation exposure warranting taking urgent protective actions off the site.						
Purpose:	To notify and provide relevant information with the aim of minimizing consequences of a transnational emergency; and, as appropriate, in order to minimize the transboundary radiological consequences of any release.						
Obligation:	If a release of radioactive material occurs or is likely to occur and results or may result in an international transboundary release, States Parties to the Early Notification Convention are obliged to notify potentially affected States and the IAEA, provide relevant information and respond to requests for information from affected States.						
Expectation:	Member States , in order to meet the requirements in [2], are expected to notify, provide relevant information and respond to requests for information concerning a transnational emergency, related to a declared 'General Emergency'.						
Encouragement:	The IAEA Secretariat strongly encourages States to notify a General Emergency in line with the response time objectives set out in Section 2.3 and described in Appendix VI of [8].						
	<table border="1"> <thead> <tr> <th colspan="2">GENERAL EMERGENCY</th> </tr> <tr> <th>ACTIONS BY CONTACT POINTS</th> <th>ACTIONS BY THE IEC</th> </tr> </thead> <tbody> <tr> <td> <p>Initial notification of a General Emergency by notifying State</p> <p>NCA(D) sends the initial notification by fax EMERCON form GENF to the IEC, possibly with attachments and/or URL for its own web site, or submits the notification using a GENF form to USIE.</p> <p>NCA(D) calls the IEC to confirm receipt²⁹ of notification</p> </td> <td> <p>Acknowledges the message</p> <p>Authenticates and verifies the content of the initial notification by telephone call to the designated NCA(D) of the notifying State</p> <p>Offers the IAEA's good offices to the notifying State</p> <p>Establishes 24/7 response mode (including dedicated phone, fax and email with notifying State)</p> <p>Informs forthwith NWP's of Member States; and other States that may be physically affected and relevant international organizations of the notification received</p> </td> </tr> </tbody> </table>	GENERAL EMERGENCY		ACTIONS BY CONTACT POINTS	ACTIONS BY THE IEC	<p>Initial notification of a General Emergency by notifying State</p> <p>NCA(D) sends the initial notification by fax EMERCON form GENF to the IEC, possibly with attachments and/or URL for its own web site, or submits the notification using a GENF form to USIE.</p> <p>NCA(D) calls the IEC to confirm receipt²⁹ of notification</p>	<p>Acknowledges the message</p> <p>Authenticates and verifies the content of the initial notification by telephone call to the designated NCA(D) of the notifying State</p> <p>Offers the IAEA's good offices to the notifying State</p> <p>Establishes 24/7 response mode (including dedicated phone, fax and email with notifying State)</p> <p>Informs forthwith NWP's of Member States; and other States that may be physically affected and relevant international organizations of the notification received</p>
GENERAL EMERGENCY							
ACTIONS BY CONTACT POINTS	ACTIONS BY THE IEC						
<p>Initial notification of a General Emergency by notifying State</p> <p>NCA(D) sends the initial notification by fax EMERCON form GENF to the IEC, possibly with attachments and/or URL for its own web site, or submits the notification using a GENF form to USIE.</p> <p>NCA(D) calls the IEC to confirm receipt²⁹ of notification</p>	<p>Acknowledges the message</p> <p>Authenticates and verifies the content of the initial notification by telephone call to the designated NCA(D) of the notifying State</p> <p>Offers the IAEA's good offices to the notifying State</p> <p>Establishes 24/7 response mode (including dedicated phone, fax and email with notifying State)</p> <p>Informs forthwith NWP's of Member States; and other States that may be physically affected and relevant international organizations of the notification received</p>						

(Non)Affected States

- Receive first (verified) message from IEC with a confirmation request
 - fax/email – according to the address book
 - USIE – Alert channels – set by administrator
- For messages for which we don't request confirmation - subscribe to event information!
- Request for information
- Request for assistance

Affected States

- Countermeasures
- Environmental monitoring results

Fax

Primary IEC fax number: +43 1 26007 29000

Backup : +43 1 2630959

- Transmission OK = received by IEC Warning Point
- On-call staff will be activated
- **Authentication and verification:**
 - IEC will call back within 30 minutes OR
 - MS calls +43 1 2632000 to confirm receipt

Telephone

Primary IEC telephone: +43 1 2632000

Backup : +43 1 2632012

- Call will be taken by IEC Warning Point
- On-call staff will be activated
- **Authentication and verification:**
 - IEC will call back within 30 minutes OR
 - MS calls +43 1 2632000 to confirm receipt

USIE

<http://iec.iaea.org/usie>

- Unified System for Information Exchange in Incidents and Emergencies
- Restricted website for official Contact Points

Routine Channels

iec3@iaea.org

- Use routine contacts in USIE Address Book

Thank You for Your Attention!

Questions?



IAEA

International Atomic Energy Agency