



60 Years

IAEA

Atoms for Peace and Development

Emergency Response Training at the IAEA

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ETRAP 2017

Valencia, Spain

Emergency Response Training at the IAEA

- Introduction
- Incident and Emergency System (IES)
 - Emergency Response Roles and Responsibilities
 - IES Response Structure
 - IES Training Structure
- Challenges, Lessons Learned

Incident and Emergency Centre (IEC)

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



IEC
Incident and
Emergency Centre

Incident and Emergency Centre



60 Years

Atoms for Peace and Development

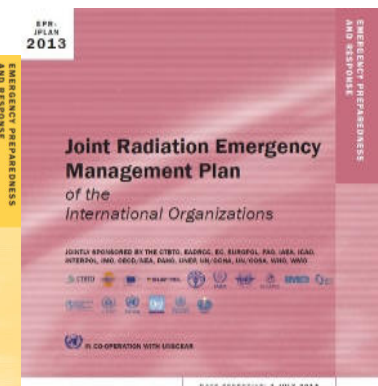
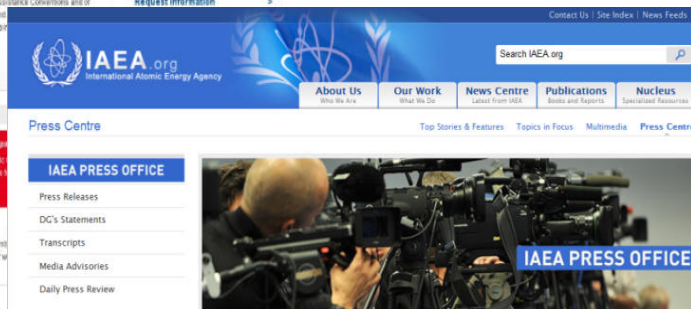


"Effective national and global response capabilities are essential to minimize the impacts from nuclear and radiological incidents and emergencies and to build public trust in the safety and security of nuclear technology. The Agency's **Incident and Emergency Centre (IEC)** is the global focal point for international preparedness and response to nuclear and radiological safety or security related incidents"

Yukiya Amano
Director General of the IAEA

Emergency Response Roles and Responsibilities

- Notification and official information exchange: USIE
- Provision of public information
- Assessment of potential emergency consequences and prognosis of possible emergency progression
- Provision of assistance on request: RANET
- Coordination of inter-agency response: IACRNE



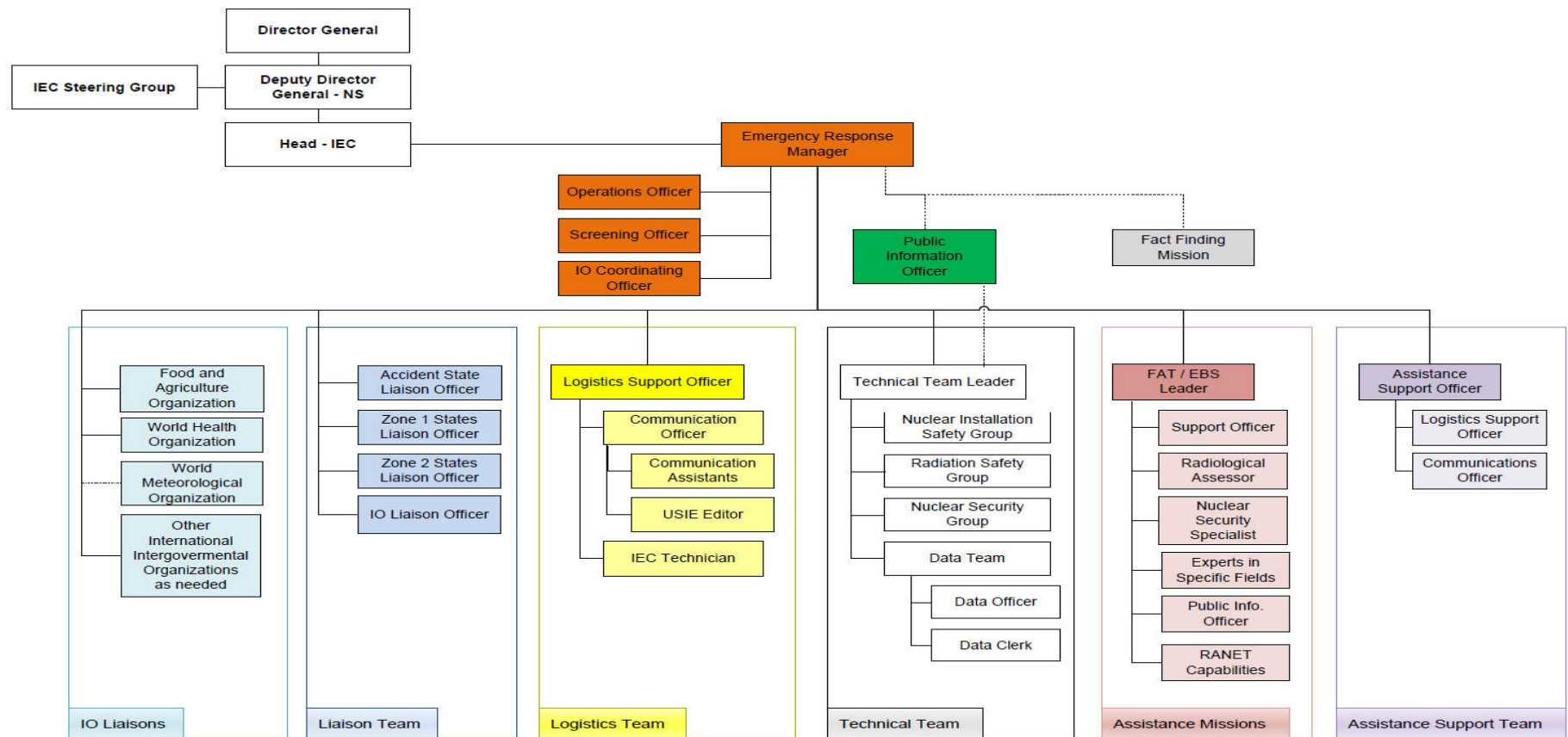
IES Response Structure

24/7 Coverage



IES Response Structure

- Full Response Mode organization chart:



Remarks:

- Positions are activated based on needs
- On-call officers continue to be available at all times
- In Basic response mode, more than one function may be assigned to a person

EBS External Based Support
 FAT Field Assistance Team
 IEC Incident and Emergency Centre
 IO International Organizations

OPIC Office of Public Information and Communication
 RANET Response and Assistance Network
 USIE Unified System for Information Exchange in Incidents and Emergencies

IES Training Structure

- **Initial Certification in the IES**
 - General Orientation Training (4 hours)
 - Team or Position Specific Training (2-3 hours)
 - Demonstration of Proficiency (4-5 hours)
- **Maintaining or Expanding IES Certification**
 - Team or Position Specific Training
 - Demonstration of Proficiency
- Demonstrations of Proficiency:
Full Response / Convention Exercise, or actual Event Response activation

Challenges, Lessons Learned



- Pre-2015

- Whole-year schedule
- Short exercises
- 3-day Initial Training
- 1 hour/year Refresher Training
- Individual e-mails for every training class
- Contact Training Officer for details

- 2015 – Forward

- Monthly focus areas
- Expanded exercises
- 4 hour General Orientation Training
- Standard Annual Training (~2-4 hours)
- Monthly e-mails with enrollment links
- IES Home Page

Challenges, Lessons Learned

Pre-2015

2015-Forward

Two hours Regular Training sessions:

ERM - Initial Information Exchange/USIE:	2 nd Wednesday of the 1 st month of the quarter
ERM /Ops Officer- Full Response Operations:	4 th Tuesday of the 3 rd month of the quarter
LSO Activation/Emergency Travel Training:	2 nd Wednesday of the 2 nd month of the quarter
NIS Assessment and Tools Training:	2 nd Wednesday of the 3 rd month of the quarter
NSS Assessment and Tools Training:	2 nd Thursday of the 1 st month of the quarter
RSS Assessment and Tools Training:	2 nd Thursday of the 2 nd month of the quarter
EES Assessment and Tools Training:	2 nd Thursday of the 3 rd month of the quarter
Tech Team Leader Assessment Training:	3 rd Thursday of the 3 rd month of the quarter

January							February							March							April						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
1	2	3	4	5	6	7				1	2	3	4				1	2	3	4							1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31					26	27	28					26	27	28	29	30	31	23	24	25	26	27	28	29	
																					30						

May							June							July							August						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
	1	2	3	4	5	6				1	2	3							1			1	2	3	4	5	
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31				25	26	27	28	29	30	23	24	25	26	27	28	29	27	28	29	30	31			
														30	31												

September							October							November							December							
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	
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17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	
																					31							

Response Management Team Technical Team (incl. On-Call) Liaison & Public Info Officers Logistics Team



January 2014

Date	Time	Description
27-29 Jan-2014		First Initial Training Course

February 2014

Date	Time	Description
5-Feb-2014	10:00-12:00	ERM Initial Information Exchange/USIE
5-Feb-2014	14:00-15:00	Liaison Officer Training
6-Feb-2014	14:00-16:00	Tech Team Drill – Security
10-Feb-2014	14:00-15:00	Basic USIE Training
10-Feb-2014	15:00-16:00	Advanced USIE Training
11-Feb-2014	10:00-12:00	ERM/LSO Activation Drill
11-Feb-2014	14:00-16:00	NSS Assessment and Tools Training
12-Feb-2014	14:00-16:00	LSO Activation/Emergency Travel Training
13-Feb-2014	14:00-16:00	RSS Assessment and Tools Training
18-Feb-2014	10:00-11:00	Comms Officer Training
18-Feb-2014	14:00-16:00	Tech Team Drill - Radiation



Date	Time	Class Name	Classes are required once every 12 months for the following roles:		
			ERM	Ops	Scrn
On-Call ERM Training					
10 January	14:00 – 16:00	Initial Information Exchange	YES		
24 January	10:00 – 12:00				
Response Management Team Training					
12 January	14:00 – 16:00	Full Response Operations	YES	YES	Optional
26 January	10:00 – 16:00				
18 January	14:00 – 15:00	IEC Information Screening	Optional	YES	YES
25 January	14:00 – 15:00				
11 January	14:00 – 15:30	USIE for Response Mgmt	YES	YES	Optional
19 January	10:00 – 11:30				
Drills and Exercises					
To be scheduled individually		Task Perf. Evaluations	YES		
Practical Session					
27 January	10:00 – 12:00	Practical Session No registration required	Voluntary, open "drop-in" practice time w/ IEC Staff. Simply show up as you like		

Challenges, Lessons Learned

- 2015-Forward

Online Resources:

- IES Home Page
- HR website “AIPS” with **Learning Certifications**

Course	Component Completion Date	Component Status	Enrollment Details	Choose or Enroll in class
Response Management Team Training - IEC Information Screening & Workflow		Planned		
USIE for Response Management	2015-02-23	Completed		
ConvEx and Full Response Exercises		Completed		

Lessons Learned, Results

	Pre-2015 (approx)	2015	2016
Number of IES Training Classes Offered	50	75	84
Hours of IES Training Classes Offered	100	131	147
Number of IES Responders	170	185	191
Participation “Met <u>or</u> Exceeded” Expectations	N/A	78%	81%
Participation “Exceeded” Expectations	N/A	11%	19%

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Thank You for your Attention!

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