





# Accident-generated information

#### **Document type**

a) Technical information (design, plant response, environmental consequence), relevant analysis (seismic response, SA analysis, atmospheric dispersion, event tree, RCA...), crisis management records (meeting records, action records)

b) Interviews (TEPCO, NSC, NISA, Cabinet members, other Government officials, Politicians, nuclear experts, evacuees, other stakeholders)
c) Accident Investigation Committee's record and reports (Japanese

(Diet, Government, NPO, AESJ etc) , ANS, US Academy, INPO..), IAEA etc d) Technical papers from conferences, workshops, seminars....

e) Policy papers (regulatory bodies, AEC, Industry, Utility) and proposals for changes

- f) Published papers/books /papers to magazine & journals...)
- g) Media reports (newspaper, TV, film, You-tube, social media)

IAEA IEM, Jan28-Feb1, 2013

# Accident Investigation Committee's record & reports (Some with videotapes, transcript...)

Diet

会事故調第5回委員会 2012/02/2

IAEA IEM, Jan28-Feb1, 2013

Government: http://icanps.go.jp/eng/final-report.html Diet: http://warp.da.ndl.go.jp/info:ndljp/pid/3856371/naiic.go.jp/en/index.html TEPCO: http://www.tepco.co.jp/en/nu/fukushima-np/interim/index-e.html NPO-1: http://rebuildjpn.org NPO-2: http://pr.bbt757.com/2011/1028.html JANTI: http://www.gengikyo.jp/english/shokai/Tohoku\_Jishin/summary.pdf etc.

2011年10月28

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NPO-2

大前研一

福島第一原子力発電所事故から何を学ぶか(詳細解説)













<b>Activities</b> \Time	2/2 2012	1/2 2013	2/2 2013	1/2 2014	2/2 2014	1/2 2015	2/2 201
1. To create a "Glossary" of terms for the MNAKP Project	x	x		х			
2. To identify subject matter experts and create a roster of these interested to participate in the project	x	x	x				
3. To develop a Taxonomy for (Major) Nuclear Accidents Knowledge Preservation							
<ul> <li>Development of the Taxonomy Structure, incl. description</li> </ul>	х	x					
Review (consistently) and benchmarking of the Taxonomy Structure		x	x				
· Programming of the Taxonomy		x					

<ul> <li>Testing of the Taxonomy</li> </ul>			x	х			
<ul> <li>Extension and Modification of the Taxonomy</li> </ul>			x	x	x		
4. To identify sources of credible scientific and technical information	х	x	x	x	x	x	3
5. Collect and archive (or link) existing information into a repository within and outside the IAEA	х	x	x	x	x	x	3
6. To develop a Multimedia Archive of expert presentations, interviews etc		x	x	x	x	x	,
<ol> <li>Develop an IAEA publication on (Major) Nuclear Accidents knowledge organizational System</li> </ol>			x	x	x		
8. To develop a Multimedia Training Module to preserve tacit knowledge on Major Nuclear Accidents			x	x	x	x	3



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### NAKT to help Why/How query

NAKT (Nuclear Accident Knowledge Taxonomy) should help to the users to find information and recommendation relevant to any nuclear accidents:

- ✓ Historical background (accident rooted in history)
- ✓ Pre-accident condition
- ✓ What caused the accident?
- ✓ How it could have been prevented?
- ✓ What are the consequences?
- ✓ What are the Lessons Learned?
- ✓ Changes in the aftermath of the Accident
- ✓ Long-term actions

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		List of JAEA R & [		~~		update m				
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		List of the R&D results done b	y JAEA(Fukushima Dalichi Nuclear Pow	er Station)	[Nov.2012]	*JAEA Rep	orts:		e dose conversion coefficients for radionuclides	
*Ri	Author	JAEA-OPAC Database on World Wide Web : Title	http://lbrary-documents.jaea.go.jp/op- Journal-Book Title/Meeting Information	Publication	Vol. No. Page	Link Ja	1412mm		tially distributed in the ground	
	Saito, Kimiaki; et	Effective dose conversion coefficients for radionuclides exponentially distributed in the	Radiation and Environmental Biophysics	Date 2012.11	vol.51, no.4, p.411-423	http://dx.doi.org/10.1007/ s00411-012-0432-y		Nina Petanoi	-Bone - Holmat Schlett	
	2 Nagase,	ground Examinations of fuel debris samples from Three Mile Island Unit 2	Enerugi To Doryoku	2012.11	vol.62, no.279, p.1-7	http://ci.nii.ac.ip/naid/400			ar 2023 Accepted 24 EM 2022 (Philiphed subst. 7 August 2022) 2023. The article is published with open sections of Springefield core	
	<sup>2</sup> Fumihisa; et al. 3 Nakajima, Hidemitsu; et al.	Study for development of the Fukushima Dai- ichi Nuclear Power Station accident archive	Joho Chishiki Gakkai-Shi / Dai 17 Kai Jyoho Chishikigaku Foramu(2011/12 Tokyo Japan)	2012.11	vol.22, no.4, p.344-353	http://ciniiac.ip/naid/400 19490032		for dose ends for dose core rise for well a	onder in provide (andrement) data required. done sets applicately informer the effective data ensurement, characteristic and the set of the excitonesset. Descriptionally effective data ensurement, being ensu	
1	4 Izawa, Kazuhiko; et al.	Infinite multiplication factor of low-enriched U02-concrete system	Journal of Nuclear Science and Technology	2012.11	vol.49, no.11, p.1043-1047	http://dx.doi.org/10.1080/ 00223131.2012.730893	>	Avai	ilable for full-text data	3
	5 Kawatsuma, Shinji; et al.	Emergency response by robots to Fukushima- Daiichi accident: Summary and lessons learned	Industrial Robot	2012	vol.39, no.5, p.428-435	http://www.emeraldinsight. com/journals.htm?articleid =17047824		in effective between the within 30 S pion, differen	2012-018	
	6 Kawase, Keiichi; et al.	Decontamination technology	Funtai Gijutsu	2012.10	vol.4, no.10, p.971-980	http://cinii.ac.jp/naid/400 19463218		dene peruni by a factor o 5 g.t.m <sup>2</sup> , also that impleme		
	7 Terada, Hiroaki; et al.	Atmospheric discharge and dispersion of radionuclides during the Fukushims Dai-ichi Nuclear Power Plant accident. 2: Verification of the source term and enalysis of regional-scale atmospheric dispersion	Journal of Environmental Radioactivity	2012.10	vol.112, p.141-154	http://dx.doi.org/10.1016/j jenvrad 2012.05.023		A State (77) Space Annual Chaptan Annual Chaptan Annual Chaptan Annual Chaptan Annual Chaptan Annual Chaptan Annual Chaptan School	7	FA-
	8 Kawatsuma. Shinji; et al.	Overview and issues to be solved on emergency response of robots to Fukushima NPP accidents	Dekomisshoningu Giho	2012.9	no.46, p.14- 26	http://ciniiac.jp/naid/400 19445803		1.1.30 Des La constanción No Interpretario de Department de Metadorel 200	福島第一原子力発電所の燃料組成評価 Internation of Fuel Compositions in Fukuetima-Dalichi Nuclear Pawer Plant	Ċ
	9 Nishihara, Kenji: et al.	Estimation of fuel compositions in Fukushima- Dalichi Nuclear Power Plant	JAEA-Data/Gode 2012-018	2012.9	190p.	http://jolissrch- inter.tokai- sc.isea.zo.ip/search/servio	>	ETta Neiler	民族 健有 初元 大柳 頃山 賢告 Kený NEHE HAL, Hossi MANAZED and Kenys SUTRAM	2
1	0 Satoh, Daiki; et el.	Decontamination planning based on computer simulation code CDE	RIST News	2012.9	no.53, p.12- 23	http://www.rist.or.jp/rist/r news/53/53s3.pdf				
1	1 Yasuhiko	Health effects of the radioactive contaminated foods	Nippon Kikai Gakkai-Shi	2012.9	voL115, no.1126,	http://www.isme.or.ip/publ ish/kaisi/120902t_pdf	>		875 <b>881.94</b> 982	P
1	2 Nagai, Haruyasu	Analysis on the atmospheric dispersion by WSPEEDI for the Fukushima Dai-ichi Nuclear Power Plant accident	Shuninsha Nyusu	2012.9	no.18.p.63-64				株工学・新工学はニット Device of Nacional Data and Roactor Engineering Nacional Science and Engineering Discovers	2
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									September 3812 Japan Monic Energy Agrees 日本田子力研究開発開發	P

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# JAEA Library

Posts pdf and link to other web sites

- 1) JAEA R&D relevant to Fukushima-Daiichi Accident
- Nuclear Accident information (Fukushima-Daiichi, TMI, Chernobyl)
   Eukushima: Plant behavior, Emergency plan, Badiation

Fukushima: Plant behavior, Emergency plan, Radiation exposure, onsite 3D (decontamination, Defueling and Decommissioning) etc.

3) Major reports (Investigation Committees, TEPCO, IAEA, ANS...)

Coarse taxonomy No keyword or label With strong linkage with IAEA-INIS

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**MOE (Ministry of Environment)-1 Off-site decontamination** (1)Policy, plan and monitoring results for the basis of planning Policy and technical information on decontamination and management of generated radioactive waste Laws and Regulations, Basic Policy, Roadmap, Technical guidance/guidelines Implementation plan for decontamination and disposal of generated radioactive waste by each municipality Monitoring Results (Radioactive material concentration) in the environment, dose rates, in areas to be decontaminated etc.) Documents and minutes of expert meetings etc. http://www.env.go.jp/jishin/rmp.html 32 IAEA IEM, Jan28-Feb1, 2013



MOE (Ministry of Environment)-2
Public health (Fukushima Health Survey)
Long-term public health survey programme* and its results (operated by Fukushima prefecture under the financial support of the Japanese government) *Exposure Estimation, Thyroid Ultrasound Examination, Comprehensive Health Check, Mental Health and Lifestyle Survey, Pregnancy and Birth Survey http://wwwcms.pref.fukushima.jp/pcp_portal/PortalServlet?DISPLAY_ID=DIRECT& NEXT_DISPLAY_ID=U000004&CONTENTS_ID=24287
Fukushima Medical University's web site <u>http://www.fmu.ac.jp/radiationhealth/</u>
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N	RA (Nuclear Regulatory Authority)	
	<u>Scope</u> Causal relationship of the accident, onsite/offsite monitoring and emergency actions taken, modeling and analysis, regulations	l
	<u>Roadmap</u> Collection of primary information Classification and labeling System for public access	
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L (National Diet Library)		
	Schedule	
Time	Event	
05 Nov 2012	First prototype release (Simple search, Advanced search, etc.)	
10 Jan 2013	Second prototype release (Image search, Movie search, etc.)	
Beginning of March 2013	Formal version release (Map search, Timeline search, API, other languages version, ASP service, etc.)	
After April 2013	<ul> <li>Improve system</li> <li>Continue to collect records</li> <li>Expand</li> </ul>	



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