

As of 19:00, March 29, 2011
Japan Atomic Energy Agency

Situation and response of JAEA to the Earthquake in Northeastern Japan (Outline of activities on March 11-29)

Summary

The Japan Atomic Energy Agency (JAEA) established emergency response headquarters lead by the president immediately after the earthquake in northeastern Japan. The headquarters are continuously collecting detailed information of the equipment and facilities from all the sites of JAEA as well as giving directions to the sites towards recovery. JAEA is also, as a designated public institute, supporting activities of other organizations.

Assistance to the Accident of Fukushima No.1 and No. 2 Nuclear Power Plants

- Nuclear Emergency Assistance & Training Center (NEAT) is assisting activities of the Fukushima No.1 and No. 2 Nuclear Power Plants.
- Experts from JAEA are cooperating with the Nuclear Safety Commission of Japan and the Ministry of Education, Culture, Sports, Science and Technology (MEXT).

Situation of each site

- Checks of facilities were made immediately after the earthquake of March 11.
- Commercial electric supply was stopped at the sites in Ibaraki Prefecture after the earthquake. There has been no effect on the environment, no fire accident and no serious injury, although there were some damages to facilities and equipment. Necessity minimum facilities were operated based on electric supply from emergency electric generators using heavy oil or other fuel.
- On March 13, commercial electric supply has resumed and facilities are in the process of restart in the Nuclear Science Research Institute and the Nuclear Fuel Cycling Engineering Laboratories. In O-arai R&D Center, commercial electric supply has resumed in the northern half part of the Center on March 14 and in the southern part on March 22. On March 16, commercial electric supply to Naka Fusion Institute has resumed and facilities are in the process of restart.
- On March 11, electric supply to the Aomori R&D Center was stopped. There was no damage to the facility. Commercial electric supply was resumed by March 13.
- There has been no abnormality in any other sites (Horonobe, Takasaki, Tono, the

Tsuruga Head Office, Monju, Fugen, Kansai, and Ningyotoge).

Assistance to the Accident of Fukushima No.1 and No. 2 Nuclear Power Plants
Nuclear Emergency Assistance & Training Center (NEAT)

- Emergency activities have been conducted in cooperation with the government.
- Experts of environmental radiation monitoring were dispatched to Fukushima No. 1 Nuclear Power Plant upon request from MEXT. The first group of 7 experts departed at 4:30 by a helicopter from Hyakuri airbase and started monitoring work at 10:00 March 12.
- The second group of 9 experts departed with a monitoring car over the land route and started monitoring work on March 13.
- The third group of 12 monitoring experts arrived on March 14 at a building (called Jichikaikan) of Fukushima local government and started its activities using this place as a base.
- The fourth group of 11 experts with 5 vehicles (monitoring 2, mobile whole-body counter 1, body surface contamination counter 1 and body cleansing 1) left NEAT at around 12:30 on March 15 over the land route and started activities in the morning of March 16 based on the Fukushima Jichikaikan.
- On March 15, experts were dispatched to the head office of Fukushima prefectural government to perform radiation dose assessment upon request from Fukushima Prefecture and started activities on March 16.
- On March 16, an expert of radiation assessment made explanation about health influence of radiation at the meeting for evacuees from Fukushima Prefecture in Tsukuba city.
- On March 17, Resident health consultation hotlines were installed and are responding about 400 inquiries per day.
- The fifth group of 12 experts was dispatched to Fukushima Prefecture on March 18.
- On March 18, two experts were dispatched to the public consultation section installed in Fukushima Prefectural Office.
- On March 19, 1 expert of monitoring survey was dispatched to Ibaraki Prefectural Government to participate in the planning of environmental sampling program (monitoring program) of the prefecture.
- On March 20, the sixth group of 12 experts was dispatched to Fukushima Prefecture.
- On March 21, a whole body counter car was dispatched and started measurement

upon request of Tokyo Electric Power Company.

- On March 22, the seventh group of 12 experts was dispatched to Fukushima Prefecture.
- On March 23, JAEA received sea water samples collected by Japan Agency for Marine-Earth Science and Technology (JAMSTEC).
- On March 24, the eighth group of 12 experts was dispatched to Fukushima Prefecture.
- On March 26, the ninth group of 12 experts was dispatched to Fukushima Prefecture.
- On March 28, the tenth group of 16 experts was dispatched to Fukushima Prefecture.
- On March 28, with the help from other organizations, the resident health consultation hotlines were reinforced.

Emergency advisory group of The Nuclear Safety Commission of Japan and other organizations

- Seven experts of JAEA are participating in the emergency advisory group of The Nuclear Safety Commission of Japan. Experts of several Departments of JAEA are also supporting the activities.

MEXT

- On March 29, JAEA started assisting the Emergency Operation Center (EOC) of MEXT for the data compilation of environmental radiation/radioactivity monitoring on a 24-hours-a-day basis.
- On March 29, the cooperation on the international activities of EOC was started.

JAEA's Assistance regarding the Fukushima No.1 and No. 2 Nuclear Power Plants

1. Supporting Staff members (as of March 29)

(1) Dispatched members to other organizations

Place	Prime objective	March 29	Accumulated Man-days from March 11
Fukushima Prefecture	Emergency monitoring	11	285
	Contamination survey (Fukushima Prefectural Medical University)	15	217
	Consultation to the Public (Fukushima Jichikaikan)	4	46

	Body radioactivity measurement	2	24
	Logistics support (Transportation, etc.)	9	171
Ibaraki Prefecture	Consultation to the Public (Ibaraki Prefecture)	-	12
	Contamination survey (Hitachi Health Center)	-	28
	Explanation to evacuated residents, etc. (Tsukuba-city Douhou Park)	-	3
	Support of Monitoring Program (Ibaraki Prefecture Emergency Response Headquarters)	-	5
Cabinet Secretariat, Cabinet Office, Government of Japan	Emergency Response Committee, Nuclear Safety Commission	7	96
MEXT	Data compilation of radiation/radioactivity	28	42
	International cooperation and other activities	1	1
Sub-total (A)		77	930

(2) Activities at Nuclear Emergency Assistance & Training Center (NEAT),etc.

Place	Prime objective	March 29	Accumulated Man-days from March 11
NEAT (Ibaraki)	Direction, Report and Coordination by NEAT	32	541
	Coordination of dispatching experts by Safety Administration Department	5	124
	Environmental Monitoring Cars	4	34
	Whole body countering in NEAT	6	12
	Public consultation at NEAT	20	272
	Assessment and analysis of diffusion	-	27
NEAT (Fukui Branch)	Direction, Report and Coordination by NEAT	6	97
Nuclear Science and Engineering Directorate*	Assessment and analysis of diffusion	6	53
Sub-total (B)		79	1160
Total (A+B)		156	2090

*Experts from other departments of JAEA are also supporting activities.

2. Supporting equipment from JAEA (As of March 28)

Items	Categories	Numbers
Special Mobile Cars	Whole Body Counter Car	1
	Surface Contamination Counter Car	1
	Body Decontamination Car	1
	Monitoring Cars	3
Measurement Devices	Survey Meters	192
	Personal Dosimeters	18

Situation of each Site

Nuclear Science Research Institute including J-PARC

- Checks of facilities were made immediately after the earthquake of March 11. There have been no effects on the environment, no fire accident and no serious injury, although there were some damages to facilities and equipment.
- Great gaps between buildings of J-PARC and surrounding ground have occurred.

Examination on the accelerators inside the facilities has not been conducted due to lack of electric supply. Restart of the facility may take long time.

- On March 13, commercial electric supply has resumed since around 15 o'clock and electric supply from the ultrahigh voltage transformer station to each facility has completely restored by March 16. Electric power sources for lightings and other purposes were recovered in almost all facilities and fire alarms were recovered in around 80% of facilities.
- On March 15, industrial water supply from Ibaraki Prefecture was received and water supply was restored to the inlet of each facility. Checkups of piping and related equipment are being conducted.
- Due to the damage to the 1st Administration Building, the use of the building was stopped and the on-site emergency headquarters was established in a temporary building in front of the 1st Administration Building.
- On March 23, the public clean water supply to the site resumed. Facilities are in the process of clean water flow tests.

Nuclear Fuel Cycling Engineering Laboratories

- Checks of facilities were made immediately after the earthquake of March 11. There has been no effect on the environment, no fire accident and no serious injury, although there were some damages to facilities and equipment.
- On March 13, commercial electric supply has resumed since around 15:30 and all the electric supply was replaced from emergency electric generators to commercial supply by March 14. Other systems, for which soundness of buildings are being conducted, are in the process of restart.
- On March 15, industrial water supply from Ibaraki Prefecture was received and water supply was restored to the reprocessing facility within the same day. Checkups of piping and related equipment of the other facilities are being conducted.
- On March 19, 1 expert of monitoring survey was dispatched to Ibaraki Prefectural Government to participate in the planning of environmental sampling program (monitoring program) of the prefecture.
- On March 22, the public clean water supply to the site resumed. Facilities are in the process of clean water flow tests.

O-arai Research and Development Center

- Checks of facilities were made immediately after the earthquake of March 11. There has been no effect on the environment, no fire accident and no serious injury, although there were some damages to facilities and equipment.
- Commercial electric supply resumed through transformer station of the northern part of the center at around 20:00 on March 13, all the equipment and facilities have been restored on March 14.
- The northern part of the center is receiving public drinking water supply as well as industrial water as usual.
- The center is supporting drinking water supply to the public in Oarai-town from March 18 to March 21.
- Reinforcement works on the transformer station building of the southern part of the Center were almost finished on March 18. Commercial electric supply was recovered on March 19. Experimental Fast Reactor Joyo has started to receive commercial electric supply and the emergency electric generator has been stopped. On March 22, electric supply to all the facilities in the southern part of the center was recovered.

Naka Fusion Institute

- Checks of facilities were made immediately after the earthquake of March 11. There has been no effect on the environment, no fire accident and no serious injury, although there were some damages to facilities and equipment. Electricity supply was terminated at around 17:30 and the operation of facilities was stopped.
- The monitoring posts resumed operation at around 19:30 on March 12 using emergency electric generators.
- Situation of damages to equipment and facilities were checked on March 13.
- On March 16, commercial electric supply has resumed since around 18:30 and all the electric supply to each facility will be resumed after checkup of equipment.
- On March 28, water supply to the institute was recovered. The works for water supply to the facilities inside the institute are underway, because water is stained.

Aomori Research and Development Center

- Checks of facilities were made immediately after the earthquake of March 11. There has been no damage to the facilities.
- Electric supply was resumed to the Ominato facility on March 12 and the Sekinehama facility on March 13. Electric supply resumed to the Rokkasho facility on March 13. All the facilities are receiving commercial electric supply.

Head Office (Tokai, Ibaraki)

- Almost all functions inside of the building have been recovered, although some facilities including air-conditioners are still damaged.
- On March 23, water supply to the building was recovered.
- Emergency activities are conducted at the Nuclear Emergency Assistance & Training Center (NEAT).

Other sites

- There has been no trouble in other sites, namely, Horonobe, Takasaki, Tono, Tsuruga Head Office, Monju, Fugen, Kansai, and Ningyotoge
- No abnormality at intakes of sea water at Monju and Fugen.