



INCIDENT AND EMERGENCY CENTRE

Subject: Status of the Fukushima Daiichi, nuclear power plants.

The Incident and Emergency Centre (IEC) is continuing to monitor the status of the nuclear power plants in Japan following the earthquake.

Based on information received up to 17:00 UTC on March 16, 2011 the following detailed update for the six reactor units at the Fukushima Daiichi nuclear power plant is provided:

Fukushima Daiichi

On-site Radiological situation:

At 21:40 UTC on 15 March a dose rate of 400 milliSv/h was measured near the west side of Unit 3 and 100 milliSv/h near Unit 4. No neutrons were detected.

Included at the end of this status report are two pages of fixed point monitoring data for Fukushima Daiichi (1 F) and Fukushima Daini (2 F). The first row on the table of results for Fukushima Daiichi presents the time (Japanese local time), the second row the gamma dose rate (microSv/h) and neutron dose rates are presented in the third row. N.D. stands for not detected.

The fixed monitoring data presented from the Fukushima Daini monitoring points, should be attributed to the releases from Fukushima Daiichi. All four units at Fukushima Daini are in cold shutdown and there is no indication of any elevated dose rates which can be attributed to Fukushima Daini.

Radiation dose rates, as of 16 March 12:00 UTC, measured at the main gate of the Fukushima Daiichi NPP are shown in Appendix I.

Off-site Radiological situation:

The following dose rates were measured off-site between 00:70 and 08:00 UTC on 16 March 2011:

| Location | Dose rate (microSv/h) | |
|----------|--------------------------|----------------------------|
| | 23:00-24:00 UTC 15 March | 07:00 - 08:00 UTC 16 March |
| Miyagi | 0.161 | 0.153 |
| Tokyo | 0.089 | 0.054 |
| Ibaraki | 0.962 | 0.252 |

Additional off-site dose rate monitoring closer to the site is shown in Appendix II.

Implementation of countermeasures

Evacuation of 20 km radius zone around Fukushima Daichi NPP is complete.

Sheltering has been ordered for distances from 20 to 30 km from the NPP.

Stable iodine pills are provided to distribution centres in preparation for administration among the public if deemed necessary.

Units 1, 2 and 3 Plant Status

The following data was verified on the status of Units 1, 2 and 3 as of 03:25 to 03:40 March 16 (UTC) (underlined are the new available data).

| Parameter / Indications | Unit | Fukushima Daiichi | | |
|---|---|-------------------|--------------------|------------------|
| | | Unit 1 | Unit 2 | Unit 3 |
| Reactor Pressure Vessel Pressure | MPa | <u>0.207(A)</u> | <u>No Data</u> | <u>0.059 (A)</u> |
| | | <u>0.171(B)</u> | | <u>0.065 (B)</u> |
| Reactor Pressure Vessel Level | mm (above the top of active fuel) | <u>-1750(A)</u> | <u>-1400 (A)</u> | <u>-1900(A)</u> |
| | | <u>-1750(B)</u> | <u>No Data (B)</u> | <u>-2300(B)</u> |
| Containment Vessel (Drywell) Pressure | kPa | No Data | <u>400</u> | <u>230</u> |
| Suppression Pool Temperature | °C | No Data | No Data | No Data |
| Suppression Pool Pressure | kPa | No Data | No Data | No Data |
| Adding water to Reactor Pressure Vessel | <ul style="list-style-type: none"> • Adding • Not adding Unknown | Adding | Adding | Adding |

* (A) and (B) refer to two measurement channels

*All pressures shown are in gauge pressure

*Containment vessel (drywell) pressure for Unit 2 in the previous reports have been one tenth of the true value (Correction of data by TEPCO on March 16 15:00 UTC Press Release)

For Unit 3, white smoke is confirmed from the reactor building at 23:37 UTC on March 15. Further investigation is in process.

Unit 4

A second fire in the reactor building was visually observed at 20:45 UTC on 15 March but no more flame nor smoke can be seen anymore as of 22:26 UTC on the same day.

Unit 5

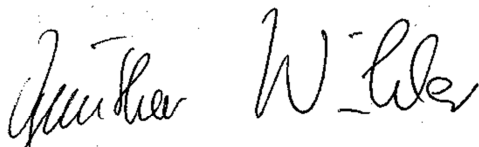
At 12:00 UTC on March 15 the water level in Unit 5 had decreased to 201 cm above the top of the fuel. This was a 40 cm decrease in the level since 07:00 UTC. Officials at the plant are planning to use an operational diesel generator in Unit 6 to supply water to Unit 5.

Spent Fuel Ponds

The temperatures of the water in the spent fuel ponds in Units 4, 5 and 6 have been measured with the results below:

| Unit 4 | Unit 5 | Unit 6 |
|-------------------------|------------------------------|------------------------------|
| 84°C at 19:08 14-Mar | 59.7°C at 16:00 on 15-Mar | 58.0°C at 16:00 on 15-Mar |
| 84°C at 19:00 15-Mar | 60.4°C at 19:00 on 15-Mar | 58.5°C at 19:00 on 15-Mar |
| - | 62.7°C at 05:00 16-Mar | 60.0°C at 05:00 on 16-Mar |

Emergency Response Manager

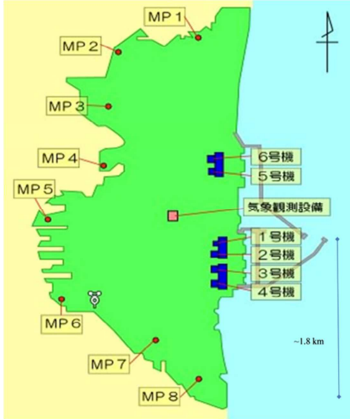


Guenther Winkler

16-March-2011 19:45 UTC

IAEA Incident and Emergency Centre

Appendix I: Dose rate measurements near main gate of Fukushima Daiichi



| 16 March (UTC) | Doserate at Measurement Point 6 (near main gate Fukushima Daiichi (microSv/h) |
|----------------|---|
| 03:00 | 4418 |
| 03:10 | 3188 |
| 03:20 | 3261 |
| 03:30 | 10850 |
| 03:40 | 8234 |
| 03:50 | 2851 |
| 04:00 | 2672 |
| 04:10 | 2536 |
| 04:20 | 2430 |
| 04:30 | 2331 |
| 04:40 | 2257 |
| 04:50 | 2182 |
| 05:00 | 2122 |
| 05:10 | 2059 |
| 05:20 | 2022 |
| 05:30 | 1937 |
| 05:40 | 1888 |
| 05:50 | 1835 |
| 06:00 | 1788 |
| 06:10 | 1752 |
| 06:20 | 1697 |
| 06:30 | 1664 |
| 06:40 | 1629 |
| 06:50 | 1591 |
| 07:00 | 1556 |
| 07:10 | 1530 |
| 07:20 | 1472 |

Appendix II: Off-site dose rate monitoring south west from Fukushima Daiichi

| From Fukushima Site | Monitoring time | Dose Rate (micro Sv/hr) | Weather condition | Monitor |
|--------------------------|---------------------|-------------------------|-------------------|---------|
| 25 Km Southwest (13) | 16 March, 05:15 UTC | 9.5 | No rain | MEXT |
| 25 Km Southwest (12) | 16 March, 04:53 UTC | 0.8 | No rain | MEXT |
| | 16 March, 04:52 UTC | 1.0 | No rain | MEXT |
| | 16 March 04:53 UTC | 6.7 | No rain | MEXT |
| 25 Km Southwest (11) | 16 March 04:36 UTC | 10.5 | Snowing | MEXT |
| 20 Km Westsouthwest (10) | 16 March 04:31 UTC | 10.0 | Snowing | MEXT |
| 20 Km West (8) | 16 March 04:28 UTC | 12.2 | Snowing | MEXT |
| 20 Km West (7) | 16 March 04:24 UTC | 12.5 | Snowing | MEXT |
| 30 Km Southwest (22) | 16 March 03:10 UTC | 26.0 | No rain | JAEA |
| 25 Km Westnorthwest (5) | 16 March 02:58 UTC | 10.2 | Snowing | MEXT |
| 25 Km Westnorthwest (4) | 16 March 02:35 UTC | 80.0 | Snowing | MEXT |
| 30 Km Southwest (21) | 16 March 02:30 UTC | 80.0 | No rain | JAEA |
| 30 Km Northwest (6) | 16 March 02:23 UTC | 58.5 | Snowing | MEXT |
| 30 Km Northwest (E) | 16 March 01:49 UTC | 14.2 | No rain | MEXT |
| 50 Km Northwest (D) | 16 March 01:17 UTC | 12.5 | No rain | MEXT |
| 55 Km Northwest (C) | 16 March 01:06 UTC | 22.2 | No rain | MEXT |
| 60 Km Northwest (B) | 16 March 00:50 UTC | 20.0 | No rain | MEXT |
| 60 Km Northwest (A) | 15 March 23:15 UTC | 18.0 | No rain | MEXT |