Correction of operation results in the report of “Plant data of Fukushima Daiichi Nuclear Power Station at the time of Tohoku-Chihou-Taiheiyou-Oki Earthquake”

June 13 2011

Tokyo Electric Power Company

Pursuant to “Collection of Reports pursuant to the Provisions of Article 67, Paragraph 1 of the Act on the Regulation of Nuclear Source Materials, Nuclear Fuel Materials and Reactors”, hereby we would like to correct the foregoing press of “Plant data of Fukushima Daiichi Nuclear Power Station at the time of Tohoku-Chihou-Taiheiyou-Oki Earthquake (hereinafter referred to as the “Report”)” as shown in the below.

1. Facts

In the Report dated on May 16, you can find the following descriptions concerning sea water injection into the reactor of Unit 1 in “Table 7.1(4) Summarization of operation records—Operation records of use of fire pumps and alternative water injection such as sea water injection” in “7. Summarization of operation records”

・From 7:04 pm to 7:25 pm on March12 we injected sea water.

・At 20:20 on March 12 we started to inject sea water and boracic acid

On the other hand, it is very highlighted and under discussion in the diet if the injection of sea water was really implemented or not and therefore we thought that we needed to confirm the facts again and we conducted hearing investigation. As a result, it turned out that although the headquarters ordered the site people to stop the injection into the reactor of Unit 1 at 19:25 on March 12th, plant manager did not obey the order (for the reason that in order to stop the accident the continuous water injection into the reactor is the most important, etc.) and they continued to inject water. Considering this fact, we hereby correct the description concerning the water injection part.

Also, with regard to other data, we have found some mistakes that have to be corrected after checking the data with actual data and therefore we correct the mistakes.

2. Contents of correction

(1) With respect to the description in “1F1” in “Record of water injection into the reactor” in “Table 7.1(4) Summarization of operation records—Operation records of use of fire pumps and alternative water injection such as sea water injection” in “7. Summarization of operation records”, we would like to correct it from “Before correction” to “After correction” as follows. The result of correction is shown in the attachment 1.

Before correction	After correction
・From 5:46 am to 2:53 pm on March 12 we constantly inject 80t of fresh water with fire pumps. ・From 7:04 pm to 7:25 pm on March12 we injected sea water. ・At 20:20 on March 12 we started to inject sea water and boracic acid An operation record including the above is shown in the appendix-1	・From 5:46 am to around 2:53 pm on March 12 we constantly inject 80t of fresh water with fire pumps. ・At around 7:04 pm on March12 we started to inject sea water (at around 8:45 we started to inject boracic acid). An operation record including the above is shown in the appendix-1

(2) We correct the descriptions of Appendix-1, “Volume of water injected into the reactor of Unit 1 to Unit 3 of Fukushima Nuclear Power Station <Estimation>” in “7. Summarization of operation records” from those of “Before correction” to those of “After correction” as follows.

Fukushima Daiichi Nuclear Power Station Unit 1 Amount of injected water (per day)

Date	Before correction	After correction	Remarks
March 12	Approx. 21 kL(sea water)	Approx. 31 kL(sea water)	Correction due to the reflection of change of the injection time period*1
March 13	Approx.185 kL(sea water)	Approx.259 kL(sea water)	Correction due to the reflection of change of the injection time period*2
March 14	Approx.23 kL(sea water)	Approx.56 kL(sea water)	Correction due to the reflection of change of the injection time period*2
March 21	Approx.37 kL(sea water)	Approx.38 kL(sea water)	Correction due to the time of change of injection flow rate*3
March 23	Approx.314	Approx.301	Correction due to the time of change of

	kL(sea water)	kL(sea water)	injection flow rate*3
May 14	Approx.184 kL(fresh water)	Approx.192 kL(fresh water)	Correction due to the mistake concerning time for collection*4
May 15	Approx. 0 kL(fresh water)	Approx.213 kL(fresh water)	Correction due to submission of data before collection*5

Fukushima Daiichi Nuclear Power Station Unit 2 Amount of injected water (per day)

Date	Before correction	After correction	Remarks
March 14	Approx.415 kL(sea water)	Approx.416 kL(sea water)	Correction due to the mistake concerning broken numbers*6
April 11	Approx.163 kL(fresh water)	Approx.162 kL(fresh water)	Correction due to the reflection of change of the injection time period*7
April 15	Approx.166 kL(fresh water)	Approx.167 kL(fresh water)	Correction due to the mistake concerning broken numbers*6
May 2	Approx.167 kL(fresh water)	Approx.168 kL(fresh water)	
May 14	Approx.161 kL(fresh water)	Approx.168 kL(fresh water)	Correction due to the mistake concerning time for collection*4
May 15	Approx. 0 kL(fresh water)	Approx.168 kL(fresh water)	Correction due to submission of data before collection*5

Fukushima Daiichi Nuclear Power Station Unit 3 Amount of injected water (per day)

Date	Before correction	After correction	Remarks
March 25	Approx.270 kL(sea water)	Approx.271 kL(sea water)	Correction due to the mistake concerning broken numbers*6
April 11	Approx.163 kL(fresh water)	Approx.162 kL(fresh water)	Correction due to the reflection of change of the injection time period*7
May 2	Approx.162 kL(fresh water)	Approx.163 kL(fresh water)	Correction due to the mistake concerning broken numbers*6
May 14	Approx.275	Approx.337	Correction due to

	kL(fresh water)	kL(fresh water)	the mistake concerning time for collection*4
May 15	Approx. 0 kL(fresh water)	Approx.370 kL(fresh water)	Correction due to submission of data before collection*5

*1 Reflection of the injection time period that is newly confirmed through the hearing of those concerned

*2 The actual record of injection time is not reflected

*3 Mistake concerning the actual record time of change of injection flow rate

*4 Mistake due to setting the collection time before 24:00

*5 Mistake due to submitting date before completing collection of data

*6 Mistake due to rounding down the numbers that we should have round down

*7 Mistake about the reflection of actual record of injection stop time

As a result of the above correction of "Volume of injected water (per day)", we hereby correct the cumulative record and sum of injected water about Units 1 to 3. The result is as follows.

(3) We correct the descriptions of "(Appendix-2) Status of injecting water into the spent fuel pool in Fukushima Daiichi Nuclear Power Station" in "7. Summarization of operation records" as follows, from those of "Before correction" to those of "After correction". The result of correction is shown as in attachment 3.

<Unit 1 Before correction>

Date	Measure	Type	Amount of injected water (t)
3/31 13:03～16:04	TEPCO's concrete pumping vehicle(62m-class)	fresh water	90
4/2 17:16～17:19	TEPCO's concrete pumping vehicle(62m-class)	fresh water	(Confirmation of position of water spray)
5/13 16:04 ～ 19:04(spray)	TEPCO's concrete pumping vehicle(62m-class)	fresh water	(Confirmation of position of water spray)
5/14 15:07 ～ 15:18spray(spray)	TEPCO's concrete pumping vehicle(62m-class)	fresh water	(Cancelled due to strong winds)

<Unit 1　After correction>

Date	Measure	Type	Amount of injected water(t)
3/31 13:03～16:04	TEPCO's concrete pumping vehicle(62m-class)	fresh water	90
4/2 17:16～17:19	TEPCO's concrete pumping vehicle(62m-class)	fresh water	(Confirmation of position of water spray)
5/14 15:07～15:18 (spray)	TEPCO's concrete pumping vehicle(62m-class)	fresh water	― (Cancelled due to strong winds)

Correction for the clerical mistake about the track record of Unit 4.

<Unit 2　Before correction>

Date	Measure	Type	Amount of injected water(t)
・・・	・・・	・・・	・・・
5/15 13:00～14:37	FPC	fresh water	56

<Unit 2　After correction>

Date	Measure	Type	Amount of injected water(t)
・・・	・・・	・・・	・・・
5/14 13:00～14:37	FPC	fresh water	56

Correction for the clerical mistake of date

(4)　With respect to names of the transmission lines described in "Table 7.1(3) Summary of Operation Results -- Result of securing power source and restoration (Restoration by receiving external source of power)" in "7. Summarization of operation records",

- "1F1"---in line 3, 15, 27 and 30~31
- "1F2"---in line 3, 11, 28 and 31~32
- "1F3"---in line 31, 42 and 45~46
- "1F4"---in line 12

we will correct as follows;

from "Before correction" Tohoku Genshiryoku Line

to “After correction” Toden Genshiryoku Line of Tohoku Electric(clerical correction)

The result of correction is as shown in the Attachment-4.

(3) We correct the descriptions of ”(Appendix-2) Status of injecting water into the spent fuel pool in Fukushima Daiichi Nuclear Power Station” in “7. Summarization of operation records” as follows, from those of “Before correction” to those of “After correction”. The result of correction is shown as in attachment 3.

(5) We correct the parameters relating to the plant in “8. Parameters relating to the plant” as follows from those of “Before correction” to those of “After correction” (correction for clerical mistakes).The results are shown as in the Attachment-5.

	Before correction	After correction	Remarks
1F2 Water Level / Pressure	3/12 7:55 Remarks Change D/W Pressure gage with abs	3/12 8:46 Remarks Change D/W Pressure gage with abs	Correction of the difference of time
	3/12 9:30 Remarks Change D/W Pressure gage with abs	3/12 12:55 Remarks Change D/W Pressure gage with abs	Correction of the difference of time
	3/12 11:20 Remarks Change D/W Pressure gage with abs	3/12 15:22 Remarks Change D/W Pressure gage with abs	Correction of the difference of time
	3/12 13:26 Remarks Change D/W Pressure gage with abs	3/12 18:20 Remarks Change D/W Pressure gage with abs	Correction of the difference of time
	3/14 14:00 A System, Reactor pressure 7.639	3/14 14:00 A System, Reactor pressure 7.527	Correction of numbers
	2011/3/14 18:40 2011/3/14 18:39 2011/3/14 18:40	2011/3/14 18:39 2011/3/14 18:40	Deleted the duplicative data (the same date and time were in the data)
	3/15 2:39 Remarks S/C Pressure Malfunction of equipment	3/15 11:25 Remarks S/C Pressure Malfunction of equipment	Correction of the difference of time
	2011/3/15 6:00	2011/3/14 6:00	Correction for clerical mistake of date
1F3 Water Level / Pressure	3/12 8:30 3/12 8:30	3/12 8:30	Deleted the duplicative data (the same date

			and time were in the data)
1F3temperature	3/20 10:35 Feed water nozzle N4Btemperature	3/20 10:35 Feed water nozzle N4Btemperature 214.4	Correction for data reflection
	3/21 10:00 D/W HVH back temperature 171.1	3/21 10:00 D/W HVH back temperature 167.2	Correction of numbers
	3/22 22:39		Deleted because there are no data in this time period
	3/24 6:45	3/24 6:35	Correction for clerical mistakes of time and date
	3/24 18:00 bottom of reactor pressure temperature155.7 3/24 18:00 bottom of reactor pressure temperature155.7	3/24 18:00 bottom of reactor pressure temperature155.7	Deleted the duplicative data (the same date and time were in the data)

<Appendix>

1. Table 7.1(4) Summarization of operation records—Operation records of use of fire pumps and alternative water injection such as sea water injection
2. Appendix-1 sited in “Table 7.1(4) Summarization of operation records—Operation records of use of fire pumps and alternative water injection such as sea water injection” (Volume of water injected into the reactor of Unit 1 to Unit 3 of Fukushima Nuclear Power Station <Estimation>)
3. Appendix-2 sited in “Table 7.1(4) Summarization of operation records—Operation records of use of fire pumps and alternative water injection such as sea water injection” (Status of injecting water into the spent fuel pool in Fukushima Daiichi Nuclear Power Station (Unit 1andUnit 2))
4. Table 7.1(3) Summary of Operation Results -- Result of securing power source and restoration (Restoration by receiving external source of power)

5. Pages that corrected data are contained in “8. Parameters relating to the plant” (graph, data of numbers and tables)

END

Table 7.1(4) Summarization of operation records—Operation records of use of fire pumps and alternative water injection such as sea water injection

	1F1	1F2	1F3	1F4
Record of water injection into the reactor	・From 5:46 to 14:53 on March 12nd we constantly injected 80t of fresh water with fire pumps ・At 19:04 on March 12 we started to inject sea water (at 20:45 we started to inject boracic acid) An operation record including the above is shown in appendix 1.	・3/14 16:34; we began to inject sea water through fire extinction lines ・3/14 19:20; fire pumps stopped due to shortage of fuel but at 19:54 and 19:57 other 2 pumps were activated and we began to inject water ・Around 21:20; we confirmed recovery trend of water level in the reactor An operation record including the above is shown in appendix 1	・3/13 09:25; we began to inject fresh water with boracic acid ・3/13 13:12; instead of fresh water we started to inject sea water. 3/14 1:10 ～ 3:20 we stopped injecting water in order to feed the water into water source pits An operation record including the above is shown in appendix 1.	
Record of water injection into the spent fuel pool	・Injection of water with a concrete pumping vehicle was implemented An operation record is shown in appendix 2	・Water injection was implemented through temporary tanks from FPC (spent fuel pool cooling and filtering system) An operation record is shown in the appendix 2.	・We constantly injected water with helicopters, high pressure spraying vehicle and bending spray tower vehicles at the beginning and then with concrete pumping vehicles. An operation record is shown in the appendix 2.	・We constantly injected water with high pressure spraying vehicles at the beginning and then with concrete pumping vehicle. An operation record is shown in the appendix 2.

Volume of water injected into the reactor of Unit 1 to Unit 3 of Fukushima Nuclear Power Station <Estimation>
(Start of seawater injection*) ～ May 15, 2011

* For Unit 1, there were 80 kl of fresh water injected before injecting sea water. For Unit 3, there were uncertain amount of fresh water injected before swithing to seawater during May 12 to 13.

(Note) Volume stated above contains result of calcuration using temporary flow meters and not taking instantaneous variance of flow into consideration and may different from actual volume of water injected into the reactor.

Date	Unit 1 Fukushima Daiichi NPS			Unit 2 Fukushima Daiichi NPS			Unit 3 Fukushima Daiichi NPS		
	volume (per day)	accum.（seawater）	accum.（fresh water）	volume (per day)	accum.（seawater）	accum.（fresh water）	volume (per day)	accum.（seawater）	accum.（fresh water）
2011/3/12	approx. 31 kL （seawater）	approx. 31 kL					approx. 390 kL （seawater）	approx. 390 kL	
2011/3/13	approx. 259 kL （seawater）	approx. 290 kL		approx. 416 kL （seawater）	approx. 416 kL		approx. 319 kL （seawater）	approx. 709 kL	
2011/3/14	approx. 56 kL （seawater）	approx. 346 kL		approx. 1,872 kL （seawater）	approx. 2,288 kL		approx. 774 kL （seawater）	approx. 1,483 kL	
2011/3/15	approx. 259 kL （seawater）	approx. 605 kL		approx. 1,872 kL （seawater）	approx. 4,160 kL		approx. 864 kL （seawater）	approx. 2,347 kL	
2011/3/16	approx. 259 kL （seawater）	approx. 864 kL		approx. 1,157 kL （seawater）	approx. 5,317 kL		approx. 490 kL （seawater）	approx. 2,836 kL	
2011/3/17	approx. 294 kL （seawater）	approx. 1,158 kL		approx. 802 kL （seawater）	approx. 6,119 kL		approx. 360 kL （seawater）	approx. 3,196 kL	
2011/3/18	approx. 475 kL （seawater）	approx. 1,633 kL		approx. 711 kL （seawater）	approx. 6,830 kL		approx. 494 kL （seawater）	approx. 3,691 kL	
2011/3/19	approx. 449 kL （seawater）	approx. 2,082 kL		approx. 480 kL （seawater）	approx. 7,310 kL		approx. 393 kL （seawater）	approx. 4,083 kL	
2011/3/20	approx. 48 kL （seawater）	approx. 2,130 kL		approx. 384 kL （seawater）	approx. 7,694 kL		approx. 24 kL （seawater）	approx. 4,107 kL	
2011/3/21	approx. 38 kL （seawater）	approx. 2,167 kL		approx. 261 kL （seawater）	approx. 7,955 kL		approx. 24 kL （seawater）	approx. 4,131 kL	
2011/3/22	approx. 42 kL （seawater）	approx. 2,209 kL		approx. 279 kL （seawater）	approx. 8,234 kL		approx. 24 kL （seawater）	approx. 4,155 kL	
2011/3/23	approx. 301 kL （seawater）	approx. 2,510 kL		approx. 278 kL （seawater）	approx. 8,512 kL		approx. 69 kL （seawater）	approx. 4,225 kL	
2011/3/24	approx. 226 kL （seawater）	approx. 2,736 kL					approx. 271 kL （seawater）	approx. 4,495 kL	
2011/3/25	approx. 106 kL （seawater）	approx. 2,842 kL		approx. 478 kL （seawater）	approx. 8,990 kL				
	approx. 60 kL （fresh water）		approx. 60 kL				approx. 88 kL （fresh water）		approx. 88 kL
2011/3/26	approx. 173 kL （fresh water）		approx. 233 kL	approx. 207 kL （seawater）	approx. 9,197 kL		approx. 336 kL （fresh water）		approx. 424 kL
				approx. 245 kL （fresh water）		approx. 245 kL			
2011/3/27	approx. 169 kL （fresh water）		approx. 402 kL	approx. 382 kL （fresh water）		approx. 627 kL	approx. 311 kL （fresh water）		approx. 735 kL
2011/3/28	approx. 169 kL （fresh water）		approx. 571 kL	approx. 169 kL （fresh water）		approx. 797 kL	approx. 295 kL （fresh water）		approx. 1,030 kL
2011/3/29	approx. 196 kL （fresh water）		approx. 767 kL	approx. 168 kL （fresh water）		approx. 965 kL	approx. 241 kL （fresh water）		approx. 1,271 kL
2011/3/30	approx. 192 kL （fresh water）		approx. 958 kL	approx. 192 kL （fresh water）		approx. 1,157 kL	approx. 167 kL （fresh water）		approx. 1,438 kL
2011/3/31	approx. 192 kL （fresh water）		approx. 1,150 kL	approx. 216 kL （fresh water）		approx. 1,373 kL	approx. 167 kL （fresh water）		approx. 1,605 kL
2011/4/1	approx. 184 kL （fresh water）		approx. 1,334 kL	approx. 216 kL （fresh water）		approx. 1,589 kL	approx. 167 kL （fresh water）		approx. 1,772 kL
2011/4/2	approx. 165 kL （fresh water）		approx. 1,499 kL	approx. 213 kL （fresh water）		approx. 1,802 kL	approx. 167 kL （fresh water）		approx. 1,939 kL
2011/4/3	approx. 147 kL （fresh water）		approx. 1,646 kL	approx. 192 kL （fresh water）		approx. 1,994 kL	approx. 173 kL （fresh water）		approx. 2,112 kL
2011/4/4	approx. 144 kL （fresh water）		approx. 1,790 kL	approx. 192 kL （fresh water）		approx. 2,185 kL	approx. 168 kL （fresh water）		approx. 2,280 kL
2011/4/5	approx. 144 kL （fresh water）		approx. 1,934 kL	approx. 192 kL （fresh water）		approx. 2,377 kL	approx. 168 kL （fresh water）		approx. 2,448 kL
2011/4/6	approx. 144 kL （fresh water）		approx. 2,078 kL	approx. 192 kL （fresh water）		approx. 2,568 kL	approx. 168 kL （fresh water）		approx. 2,616 kL
2011/4/7	approx. 144 kL （fresh water）		approx. 2,222 kL	approx. 187 kL （fresh water）		approx. 2,755 kL	approx. 168 kL （fresh water）		approx. 2,784 kL
2011/4/8	approx. 144 kL （fresh water）		approx. 2,366 kL	approx. 168 kL （fresh water）		approx. 2,923 kL	approx. 168 kL （fresh water）		approx. 2,952 kL
2011/4/9	approx. 144 kL （fresh water）		approx. 2,510 kL	approx. 168 kL （fresh water）		approx. 3,091 kL	approx. 168 kL （fresh water）		approx. 3,120 kL
2011/4/10	approx. 144 kL （fresh water）		approx. 2,654 kL	approx. 168 kL （fresh water）		approx. 3,259 kL	approx. 168 kL （fresh water）		approx. 3,288 kL
2011/4/11	approx. 139 kL （fresh water）		approx. 2,793 kL	approx. 162 kL （fresh water）		approx. 3,421 kL	approx. 162 kL （fresh water）		approx. 3,450 kL
2011/4/12	approx. 144 kL （fresh water）		approx. 2,937 kL	approx. 168 kL （fresh water）		approx. 3,589 kL	approx. 168 kL （fresh water）		approx. 3,618 kL
2011/4/13	approx. 144 kL （fresh water）		approx. 3,081 kL	approx. 168 kL （fresh water）		approx. 3,757 kL	approx. 168 kL （fresh water）		approx. 3,786 kL
2011/4/14	approx. 144 kL （fresh water）		approx. 3,225 kL	approx. 168 kL （fresh water）		approx. 3,925 kL	approx. 168 kL （fresh water）		approx. 3,954 kL
2011/4/15	approx. 144 kL （fresh water）		approx. 3,369 kL	approx. 167 kL （fresh water）		approx. 4,092 kL	approx. 168 kL （fresh water）		approx. 4,122 kL
2011/4/16	approx. 144 kL （fresh water）		approx. 3,513 kL	approx. 168 kL （fresh water）		approx. 4,260 kL	approx. 168 kL （fresh water）		approx. 4,290 kL
2011/4/17	approx. 144 kL （fresh water）		approx. 3,657 kL	approx. 168 kL （fresh water）		approx. 4,428 kL	approx. 168 kL （fresh water）		approx. 4,458 kL
2011/4/18	approx. 144 kL （fresh water）		approx. 3,801 kL	approx. 168 kL （fresh water）		approx. 4,595 kL	approx. 168 kL （fresh water）		approx. 4,626 kL
2011/4/19	approx. 144 kL （fresh water）		approx. 3,945 kL	approx. 168 kL （fresh water）		approx. 4,763 kL	approx. 168 kL （fresh water）		approx. 4,794 kL
2011/4/20	approx. 134 kL （fresh water）		approx. 4,079 kL	approx. 168 kL （fresh water）		approx. 4,931 kL	approx. 144 kL （fresh water）		approx. 4,938 kL
2011/4/21	approx. 139 kL （fresh water）		approx. 4,218 kL	approx. 169 kL （fresh water）		approx. 5,100 kL	approx. 154 kL （fresh water）		approx. 5,092 kL

(Exhibit-1)

Date	Unit 1 Fukushima Daiichi NPS			Unit 2 Fukushima Daiichi NPS			Unit 3 Fukushima Daiichi NPS		
	volume (per day)	accum.(seawater)	accum.(fresh water)	volume (per day)	accum.(seawater)	accum.(fresh water)	volume (per day)	accum.(seawater)	accum.(fresh water)
2011/4/22	approx. 144 kL (fresh water)		approx. 4,362 kL	approx. 168 kL (fresh water)		approx. 5,268 kL	approx. 161 kL (fresh water)		approx. 5,254 kL
2011/4/23	approx. 143 kL (fresh water)		approx. 4,505 kL	approx. 166 kL (fresh water)		approx. 5,434 kL	approx. 160 kL (fresh water)		approx. 5,413 kL
2011/4/24	approx. 143 kL (fresh water)		approx. 4,649 kL	approx. 167 kL (fresh water)		approx. 5,601 kL	approx. 163 kL (fresh water)		approx. 5,576 kL
2011/4/25	approx. 143 kL (fresh water)		approx. 4,792 kL	approx. 168 kL (fresh water)		approx. 5,769 kL	approx. 164 kL (fresh water)		approx. 5,741 kL
2011/4/26	approx. 145 kL (fresh water)		approx. 4,937 kL	approx. 167 kL (fresh water)		approx. 5,936 kL	approx. 161 kL (fresh water)		approx. 5,902 kL
2011/4/27	approx. 200 kL (fresh water)		approx. 5,136 kL	approx. 167 kL (fresh water)		approx. 6,103 kL	approx. 161 kL (fresh water)		approx. 6,063 kL
2011/4/28	approx. 240 kL (fresh water)		approx. 5,376 kL	approx. 168 kL (fresh water)		approx. 6,271 kL	approx. 163 kL (fresh water)		approx. 6,226 kL
2011/4/29	approx. 185 kL (fresh water)		approx. 5,562 kL	approx. 167 kL (fresh water)		approx. 6,438 kL	approx. 159 kL (fresh water)		approx. 6,386 kL
2011/4/30	approx. 144 kL (fresh water)		approx. 5,706 kL	approx. 166 kL (fresh water)		approx. 6,604 kL	approx. 156 kL (fresh water)		approx. 6,542 kL
2011/5/1	approx. 144 kL (fresh water)		approx. 5,850 kL	approx. 166 kL (fresh water)		approx. 6,769 kL	approx. 157 kL (fresh water)		approx. 6,699 kL
2011/5/2	approx. 143 kL (fresh water)		approx. 5,993 kL	approx. 168 kL (fresh water)		approx. 6,937 kL	approx. 163 kL (fresh water)		approx. 6,861 kL
2011/5/3	approx. 143 kL (fresh water)		approx. 6,136 kL	approx. 168 kL (fresh water)		approx. 7,105 kL	approx. 165 kL (fresh water)		approx. 7,027 kL
2011/5/4	approx. 144 kL (fresh water)		approx. 6,280 kL	approx. 167 kL (fresh water)		approx. 7,272 kL	approx. 195 kL (fresh water)		approx. 7,222 kL
2011/5/5	approx. 144 kL (fresh water)		approx. 6,424 kL	approx. 168 kL (fresh water)		approx. 7,440 kL	approx. 216 kL (fresh water)		approx. 7,438 kL
2011/5/6	approx. 172 kL (fresh water)		approx. 6,596 kL	approx. 168 kL (fresh water)		approx. 7,608 kL	approx. 216 kL (fresh water)		approx. 7,654 kL
2011/5/7	approx. 192 kL (fresh water)		approx. 6,788 kL	approx. 168 kL (fresh water)		approx. 7,776 kL	approx. 216 kL (fresh water)		approx. 7,870 kL
2011/5/8	approx. 192 kL (fresh water)		approx. 6,980 kL	approx. 168 kL (fresh water)		approx. 7,944 kL	approx. 216 kL (fresh water)		approx. 8,086 kL
2011/5/9	approx. 192 kL (fresh water)		approx. 7,172 kL	approx. 168 kL (fresh water)		approx. 8,112 kL	approx. 216 kL (fresh water)		approx. 8,302 kL
2011/5/10	approx. 192 kL (fresh water)		approx. 7,364 kL	approx. 167 kL (fresh water)		approx. 8,279 kL	approx. 216 kL (fresh water)		approx. 8,518 kL
2011/5/11	approx. 191 kL (fresh water)		approx. 7,556 kL	approx. 168 kL (fresh water)		approx. 8,446 kL	approx. 216 kL (fresh water)		approx. 8,733 kL
2011/5/12	approx. 190 kL (fresh water)		approx. 7,746 kL	approx. 167 kL (fresh water)		approx. 8,613 kL	approx. 235 kL (fresh water)		approx. 8,968 kL
2011/5/13	approx. 191 kL (fresh water)		approx. 7,936 kL	approx. 166 kL (fresh water)		approx. 8,779 kL	approx. 287 kL (fresh water)		approx. 9,255 kL
2011/5/14	approx. 192 kL (fresh water)		approx. 8,128 kL	approx. 168 kL (fresh water)		approx. 8,947 kL	approx. 337 kL (fresh water)		approx. 9,592 kL
2011/5/15	approx. 213 kL (fresh water)		approx. 8,341 kL	approx. 168 kL (fresh water)		approx. 9,115 kL	approx. 370 kL (fresh water)		approx. 9,963 kL
	Total	approx. 11,183 kL		Total	approx. 18,312 kL		Total	approx. 14,458 kL	

Status of injecting water into the spent fuel pool in Fukushima Daiichi Nuclear Power Station

Unit 1

Date	Measure	Type	Amount of water injection(t)
3/31 13:03～16:04	TEPCO's concrete pumping vehicle(62m-class)	Fresh water	90
4/2 17:16～17:19	TEPCO's concrete pumping vehicle(62m-class)	Fresh water	(Confirmation of position of water spray)
5/14 15:07～15:18(spraying)	TEPCO's concrete pumping vehicle(62m-class)	Fresh water	— (Cancelled due to strong winds)

Unit 2

Date	Measure	Tyrp	Amount of water injection(t)
3/20 15:05～17:20	FPC	Sea water	40
3/22 16:07～17:01	FPC	Sea water	18
3/25 10:30～12:19	FPC	Sea water	30
3/29 16:30～18:25	FPC	Fresh water	15～30
3/30 19:05～23:50	FPC	Fresh water	Below 20
4/1 14:56～17:05	FPC	Fresh water	70
4/4 11:05～13:37	FPC	Fresh water	70
4/7 13:29～14:34	FPC	Fresh water	36
4/10 10:37～12:38	FPC	Fresh water	60
4/13 13:15～14:55	FPC	Fresh water	60
4/16 10:13～11:54	FPC	Fresh water	45
4/19 16:08～17:28	FPC	Fresh water	47
4/22 15:55～17:40	FPC	Fresh water	50
4/25 10:12～11:18	FPC	Fresh water	38
4/28 10:15～11:28	FPC	Fresh water	43
5/2 10:05～11:40	FPC	Fresh water	55
5/6 9:36～11:16	FPC	Fresh water	58
5/10 13:09～14:45	FPC	Fresh water	56
5/14 13:00～14:37	FPC	Fresh water	56

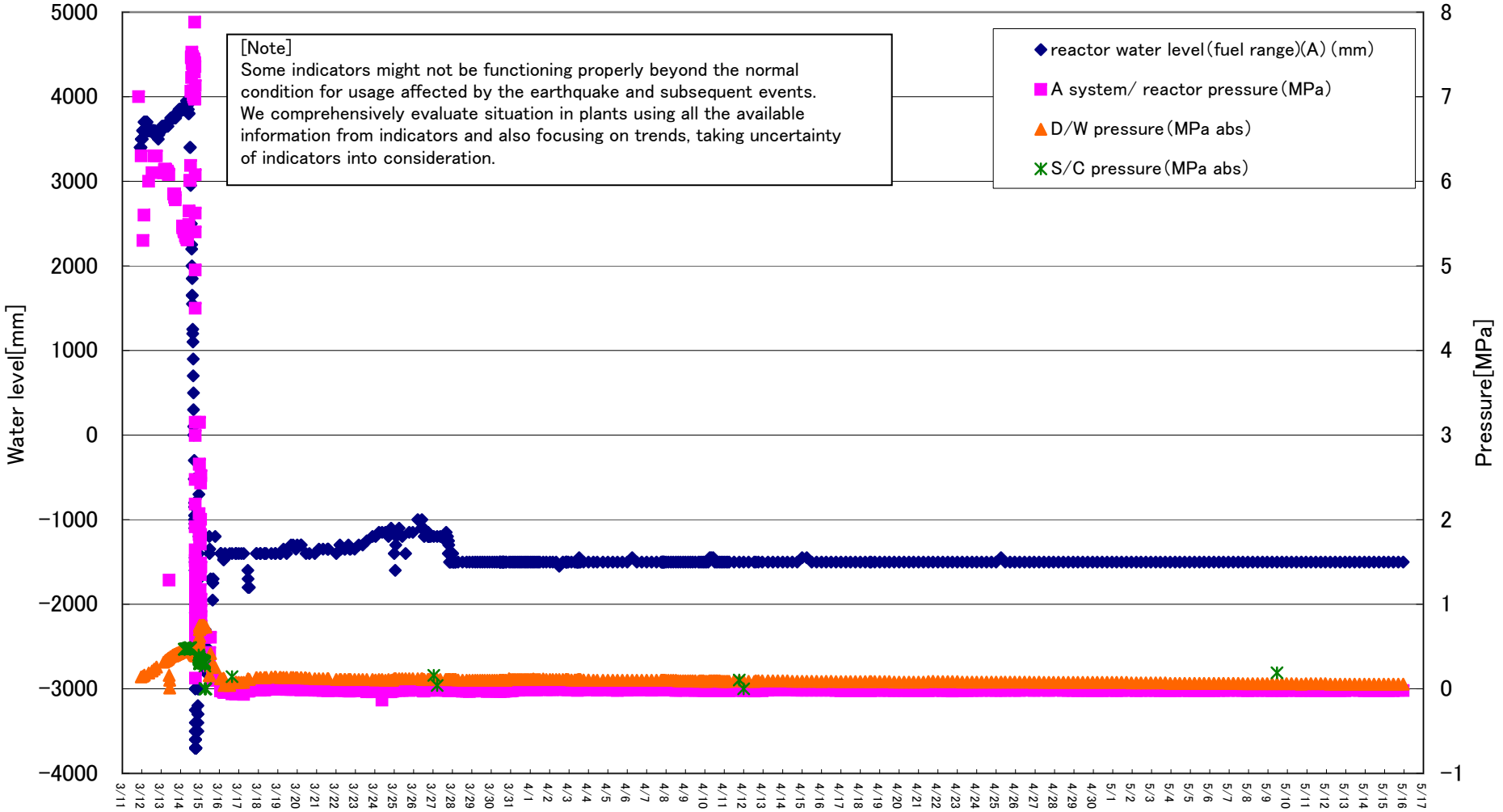
Table 7.1(3)　Summary of Operation Results -- Result of securing power source and restoration (Restoration by receiving external source of power)

1F1	1F2	1F3	1F4	1F5	1F6	Common pool Centralized RW
■ 480V P/C2C power received. (3/20 15:46) ・ Temporary power from Toden Genshiryoku line of Tohoku Electric. ■ MUW system insulation checked (3/21 zero Ω) ■ Main BUS panel for instruments power received. AC120V（3/23 1:40） ■ Main control room lighting restored (3/24 11:30) ■ Monitoring Post (MP-5～8) restored ■ 1/2u – 3/4u tie line cabled (Toden Gensiryoku line – Okuma line mutually available)(4/19 10:23) ■ 5/6u tie line cabled btw transmission BUS. (4/25) ■ 3/29 8:32 Reactor water injection switched from fire pump to temporary electricity pump. ■ 4/3 11:50 Reactor water injection temporary electricity pump power source switched from temporary power to main power. ■ 4/11 17:16 Reactor water injection pump 1u to 3u tripped due to external power shutdown of 1/2u (Toden Genshiryoku line of Tohoku Electric) by earthquake. ■ 4/11 17:56 1/2u external power (Toden Genshiryoku line of Tohoku Electric) restored. ■ 4/11 18:04 Reactor water injection pump of 1u to 3u restarted. (Current power condition, as of 4/26, will be shown in “single-line diagram of Unit 1 to 4 of Fukushima Daiichi	■ 480V P/C2C power received. (3/20 15:46) ・ Temporary power from Toden Genshiryoku line of Tohoku Electric. ■ T/B MCC 2A-1 power received. (3/26 16:40) ■ Main control room lighting restored.(3/26 16:46) ■ 1/2u – 3/4u tie line cabled (Toden Gensiryoku line – Okuma line mutually available)(4/19 10:23) ■ 5/6u tie line cabled btw transmission BUS. (4/25) ■ 3/27 18:31 Reactor water injection switched from fire pump to temporary electricity pump. ■ 3/29 16:30 SFP water injection switched from fire pump to temporary electricity pump. ■ 4/3 11:50 Reactor water injection temporary electricity pump power source switched from temporary power to main power. ■ 4/11 17:16 Reactor water injection pump 1u to 3u tripped due to external power shutdown of 1/2u (Toden Genshiryoku line of Tohoku Electric) by earthquake. ■ 4/11 17:56 1/2u external power (Toden Genshiryoku line of Tohoku Electric) restored. ■ 4/11 18:04 Reactor water injection pump of 1u to 3u restarted. (Current power condition, as of 4/26, will be shown in “single-line diagram of Unit 1 to 4 of Fukushima Daiichi NPS”)	■ P/C(4D) power received (3/22 10:36) ・ Temporary power from Yonomori line 1L via Okuma line. ・ 3/18 14:28 3/4u M/C vehicle testing charge completed. ・ 3/19 installing multi circuit switching gear and cabling completed. ・ 3/20 cabling site inspection from switching gear to ・ 3/21 cabling completed. ・ Power shut down due to 3/4u external power reinforcement plan (upgrading 66kv)(4/26 10:23～15:27) ■ T/B MCC 3C-2 power received. (3/22 22:10) ■ T/B MCC 3C-1 (3/22 22:21) ■ Main BUS panel for instruments power received. AC120V(3/22 22:28) ■ Main control room lighting restored (3/22 22:46) ■ T/B MCC 3D-1 power received.(3/29) ■ T/B MCC 3A-1 power received (3/30) ■ 1/2u – 3/4u tie line cabled (Toden Gensiryoku line – Okuma line mutually available)(4/19 10:23) ■ 3/28 8:30 Reactor water injection temporary electricity pump power source switched from temporary power to main power. ■ 4/3 11:50 Reactor water injection temporary electricity pump power source switched from temporary power to main power. ■ 4/11 17:16 Reactor water injection pump 1u to 3u	■ P/C(4D) power received (3/22 10:35) ・ Power shut down due to 3/4u external power reinforcement plan (upgrading 66kv)(4/26 10:23～15:27) ■ Main BUS panel for instruments power received. AC120V(3/23 1:40) ■ Main control room lighting restored (3/29 11:56) ■ 1/2u – 3/4u tie line cabled ■ (Toden Gensiryoku line – Okuma line mutually available)(4/19 10:23) (Current power condition, as of 4/26, will be shown in “single-line diagram of Unit 1 to 4 of Fukushima Daiichi NPS”)	■ Power supply using sound part of Yonomori line (1L, 2L). ■ Power received from Str 5SA to M/C(6C)(3/21 11:36), from M/C6C to P/C(5A-1)(3/22 20:13) ・ Power supply sound part of Yonomori line (1L, 2L). ■ Normal line 5A, 5B unavailable. ■ Temporary pumps(RHRS) installed and operating(powered by P/C) ■ Main Anti-Earthquake Building received power (3/24 8:48). ■ Water treatment building received power (3/24 9:10) ■ Monitoring Post(MP-1～4), temporary cable installed and connected.(3/26) ■ T/BMCC5D-2 received power.(3/31) ■ 5/6u tie line cabled btw transmission BUS. (4/25) ■ 3/19 5:00 RHR(C) started up. ■ 3/23 17:24 Temporary RHRS tripped at commissioning after power source switched from temporary power to main power. ■ 3/24 16:14 Temporary RHRS restarted. RHR pump started up by SHC mode. (Current power condition, as of 4/26, will be shown in “single-line diagram of Unit 1 to 4 of Fukushima Daiichi NPS”)	■ Power supply using sound part of Yonomori line (1L, 2L). ■ Power received from Str 5SA to M/C(6C)(3/21 11:36), from M/C(6D) to P/C(5A-1)(3/22 19:17) ・ Power supply sound part of Yonomori line (1L, 2L). ■ Normal line 6A, 6B unavailable. ■ Temporary pumps(RHRS alternative) installed and operating(powered by P/C) ■ Installed cable testing.(3/20) ■ Monitoring Post (MP-1～4) ■ 5/6u tie line cabled btw transmission BUS. (4/25) ■ 3/19 4:22 D/G(A) started up. ■ 3/19 5:11 FPC started up. ■ 3/19 21:26 Temporary RHRS pump started up. ■ 3/19 22:14 RHR(B) started up. ■ 3/25 15:38, 42 two RHRS pumps power switched from temporary power to main power. (Current power condition, as of 4/26, will be shown in “single-line diagram of Unit 1 to 4 of Fukushima Daiichi NPS”)	■ Common pool temporary power restored.(3/24 18:05 15:37) ・ 3/24 18:05 Fuel pool cooling pump started up. ・ Common pool temporary power tripped (4/17 14:36 ～ 17:30. Cooling function restored at 17:44. Short circuit of Takaido switching gear 1L925 due to operation practice for next day operation of isolation suspected(actually L921 has tripped). (Current power condition, as of 4/26, will be shown in “single-line diagram of Unit 1 to 4 of Fukushima Daiichi NPS”)

1F1	1F2	1F3	1F4	1F5	1F6	Common pool Centralized RW
NPS”)		tripped due to external power shutdown of 1/2u (Toden Genshiryoku line of Tohoku Electric) by earthquake. ■ 4/11 17:56 1/2u external power (Toden Genshiryoku line of Tohoku Electric) restored. ■ 4/11 18:04 Reactor water injection pump of 1u to 3u restarted. (Current power condition, as of 4/26, will be shown in “single-line diagram of Unit 1 to 4 of Fukushima Daiichi NPS”)				

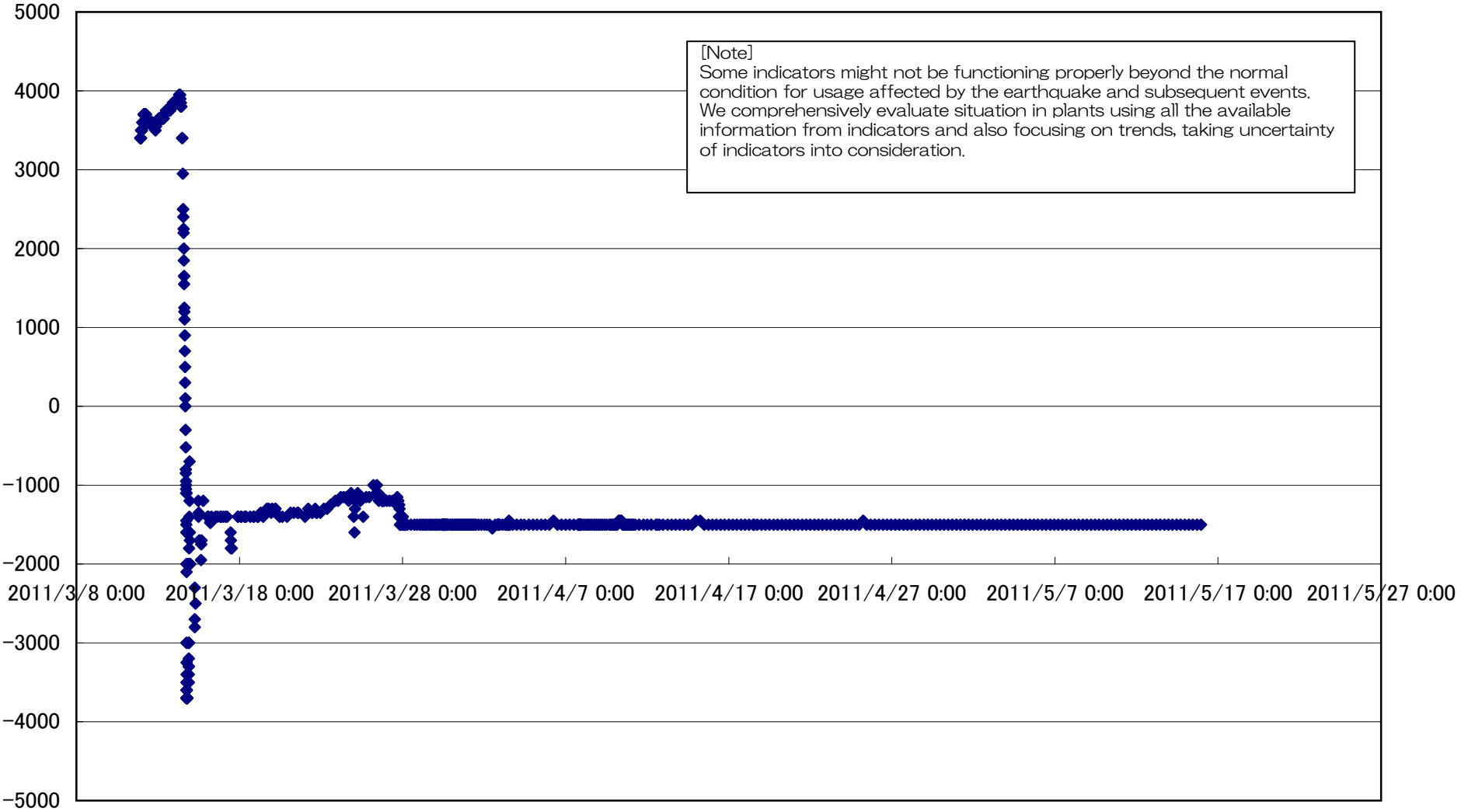
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit 2　Parameters of Water level and　Pressure



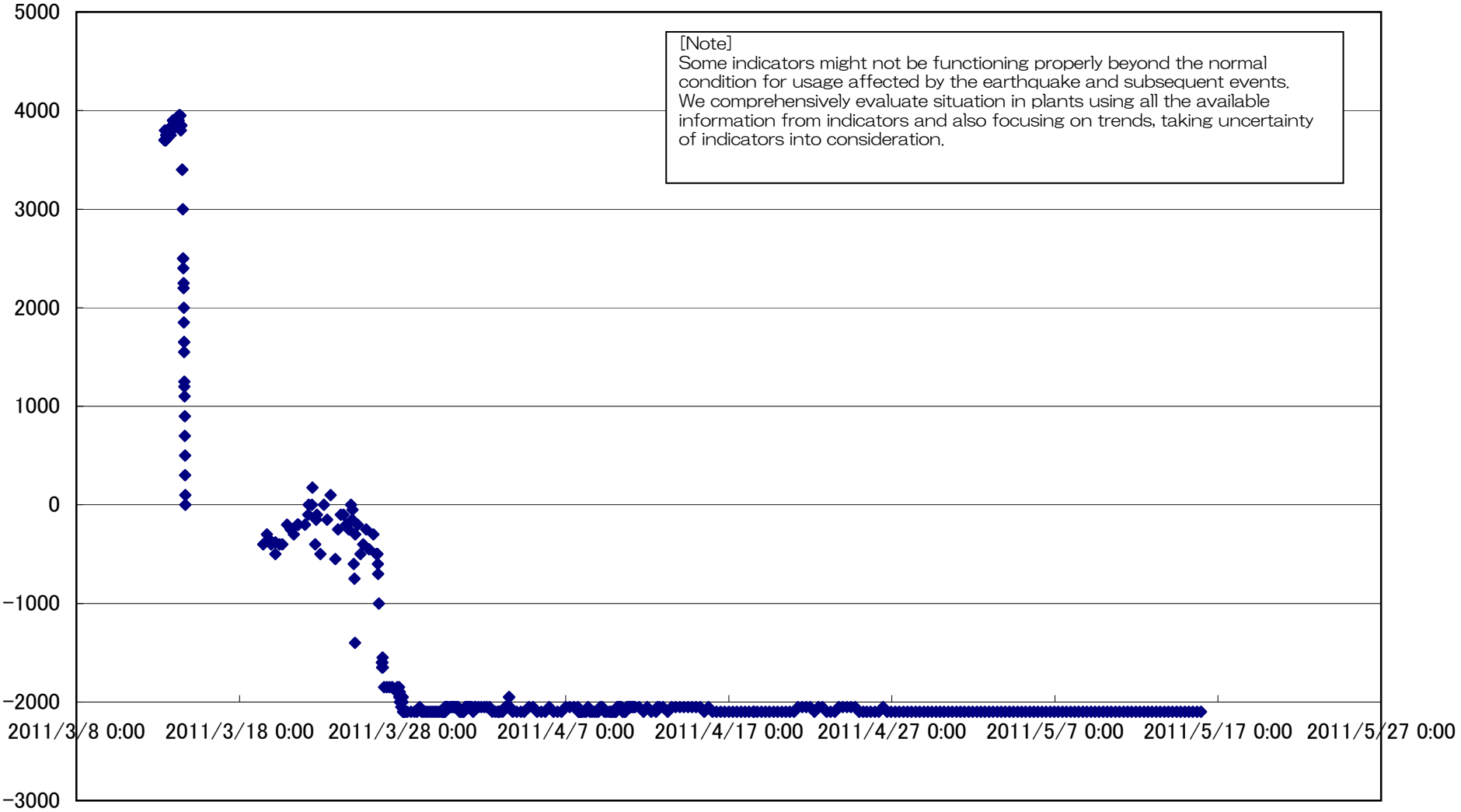
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit 2 reactor water level (fuel range)(A) (mm)



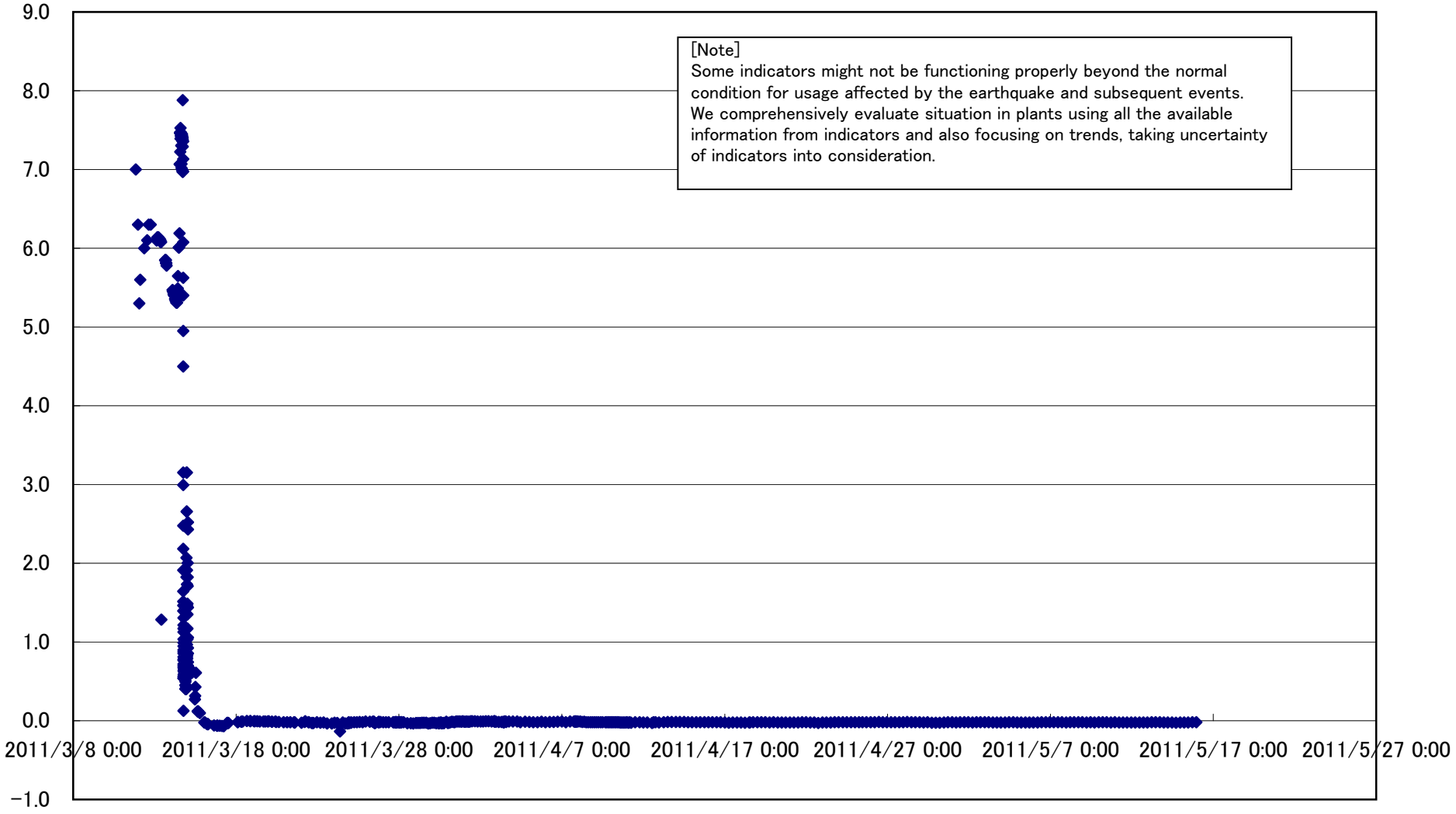
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit 2 reactor water level (fuel range)(B) (mm)



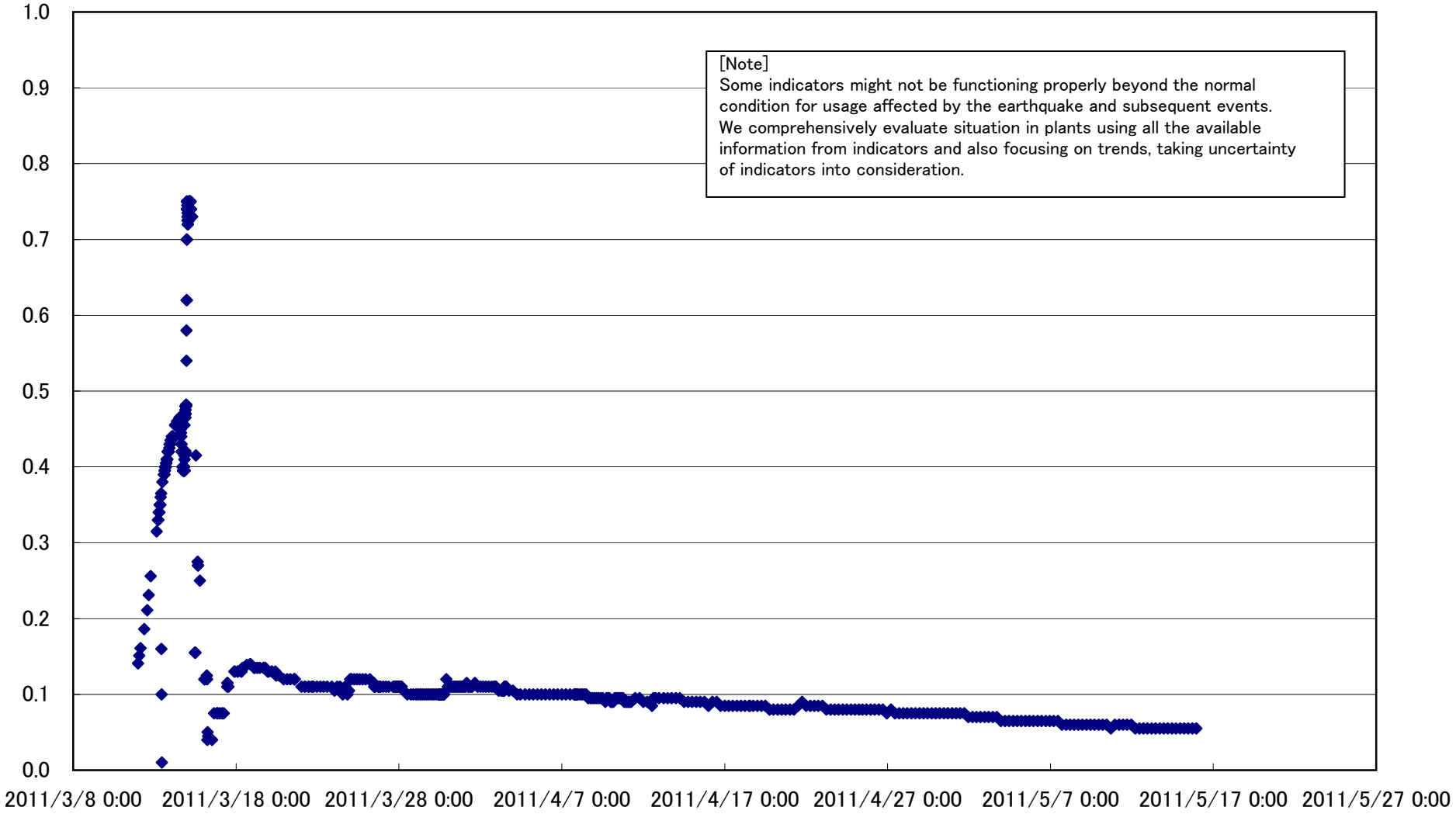
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit 2 A system/ reactor pressure(MPa)



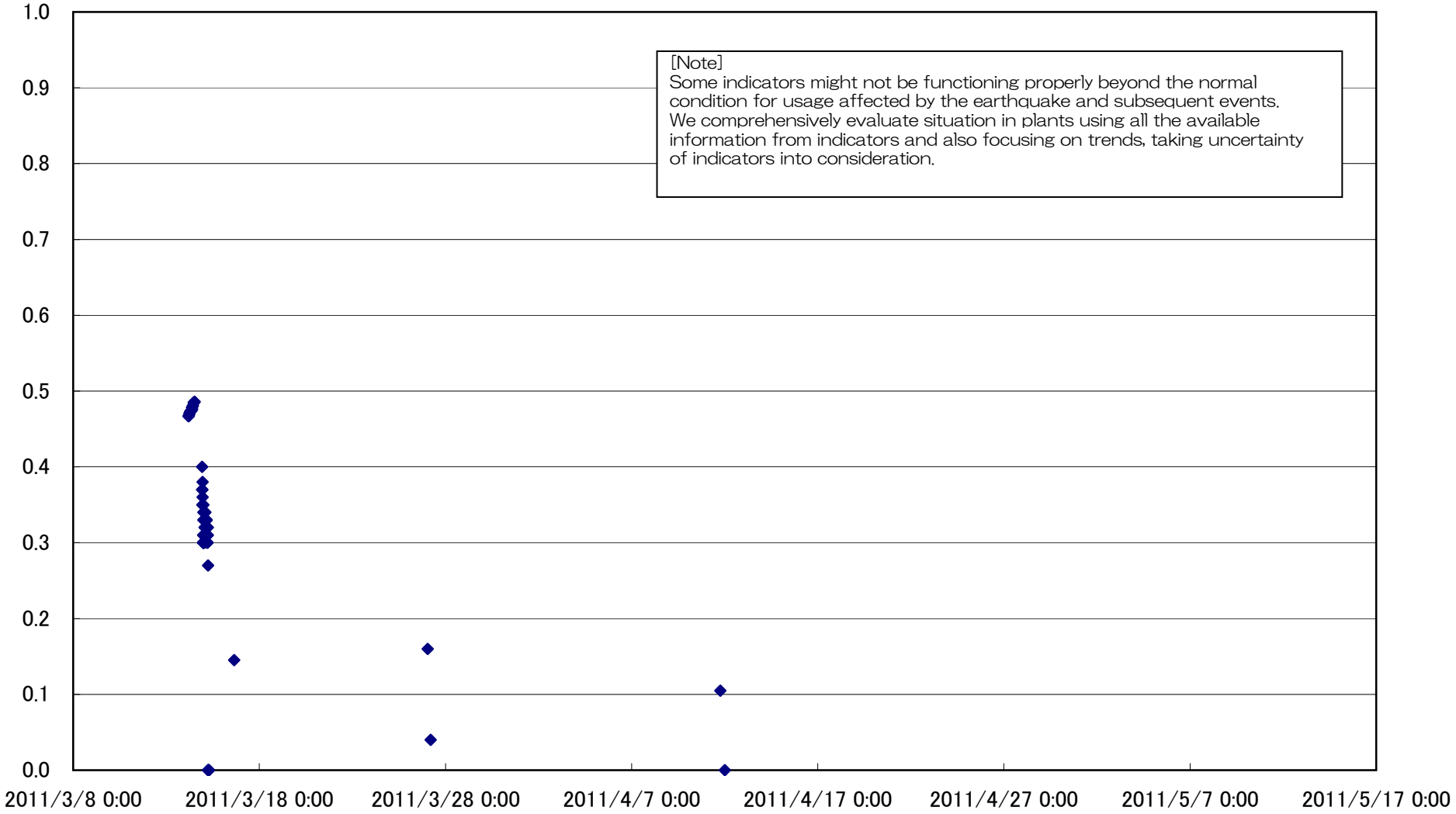
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit 2 D/W pressure(MPa abs)



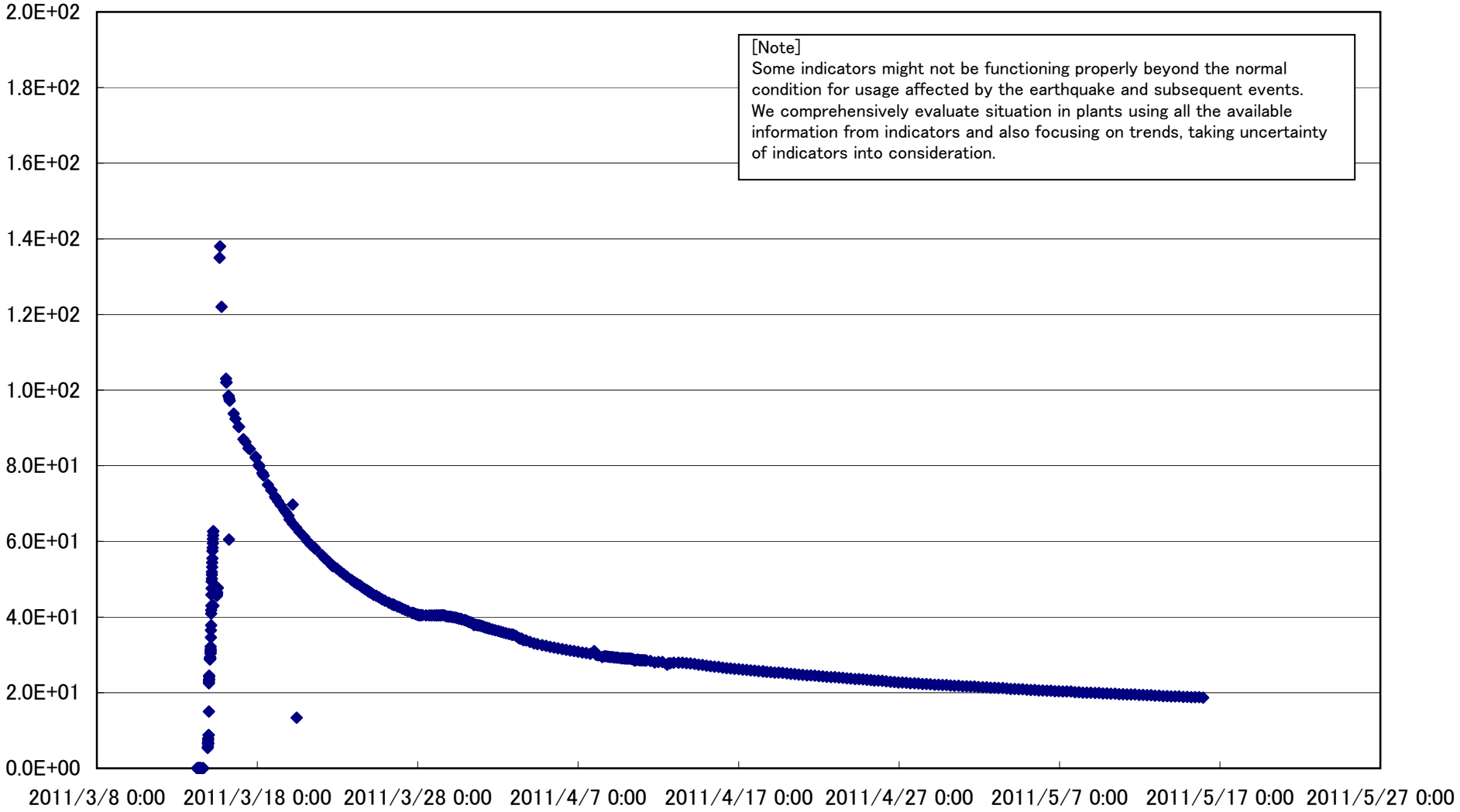
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit 2 S/C pressure (MPa abs)



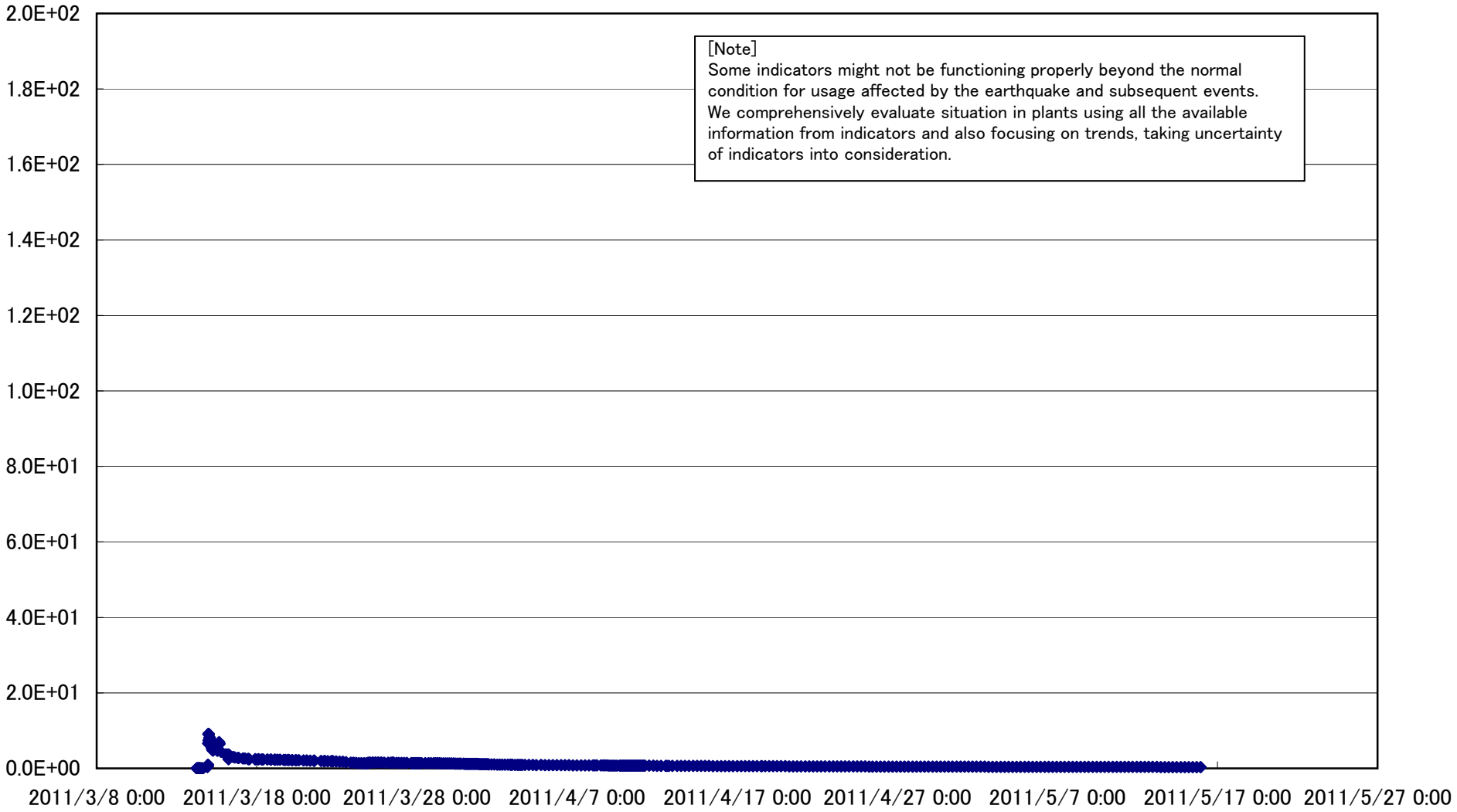
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit 2　CAMS D/W(A) (Sv/h)



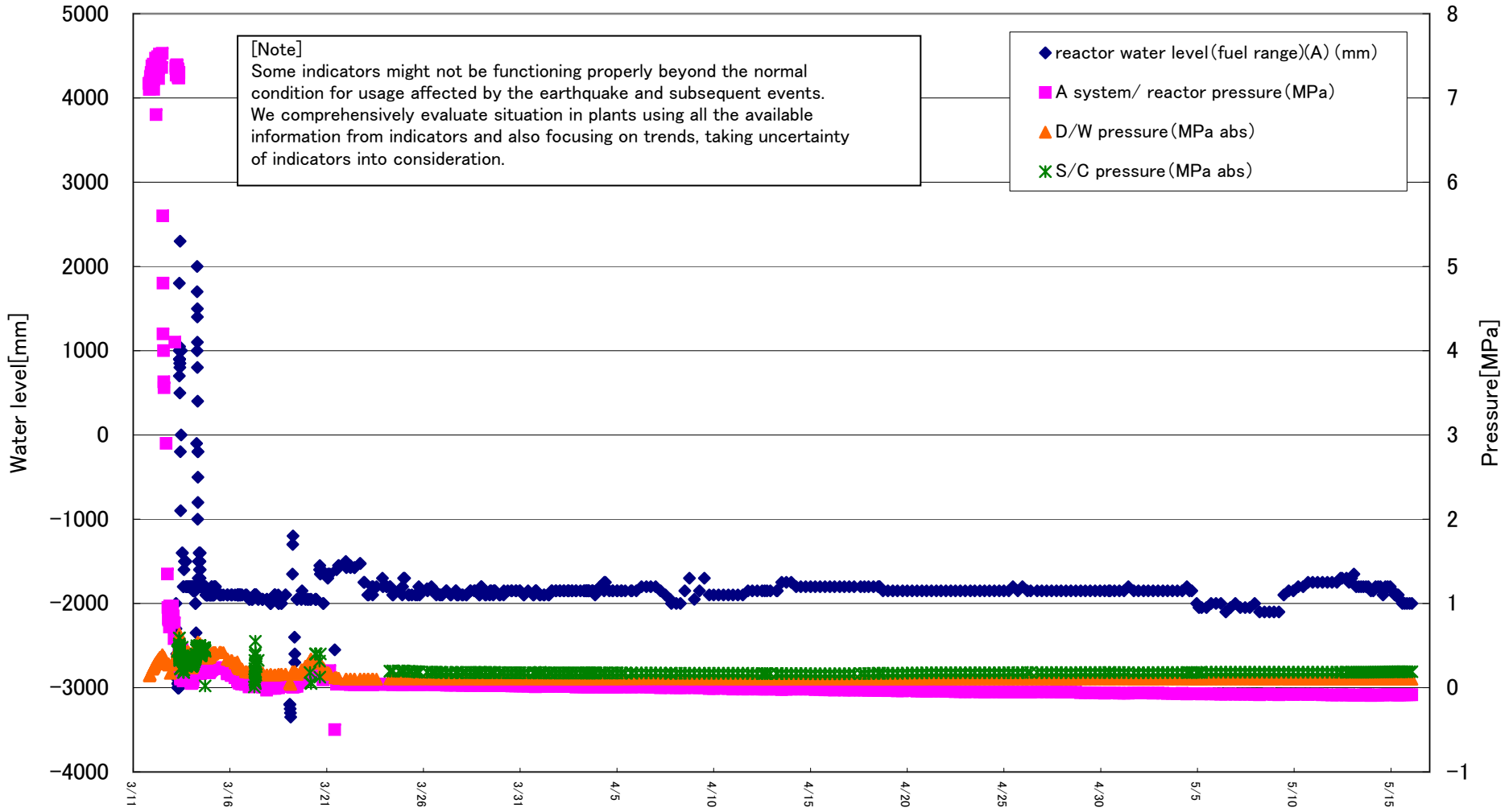
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit 2　CAMS S/C(A) (Sv/h)



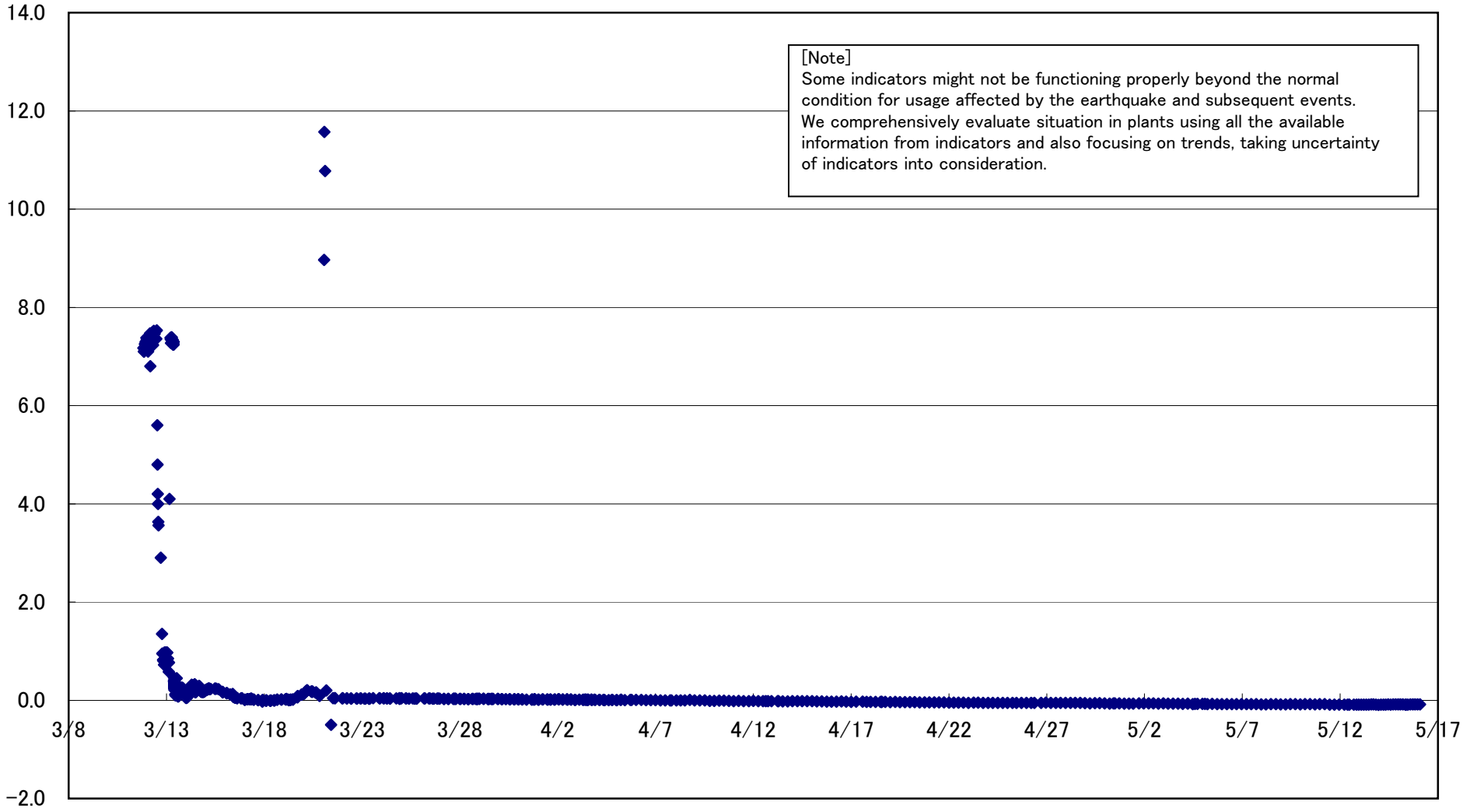
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit3 Parameters of Water level and Pressure



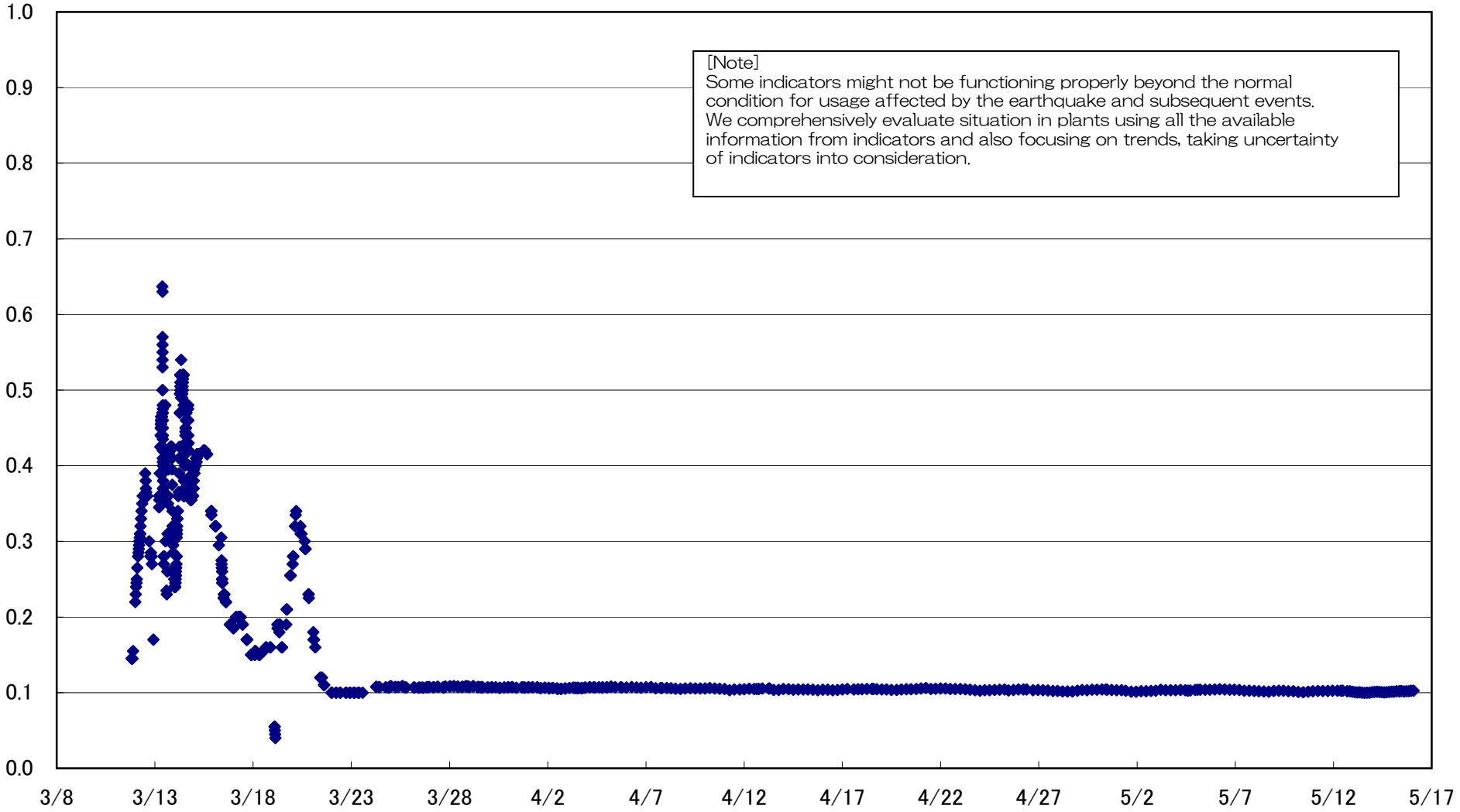
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit3　A system/ reactor pressure（MPa）



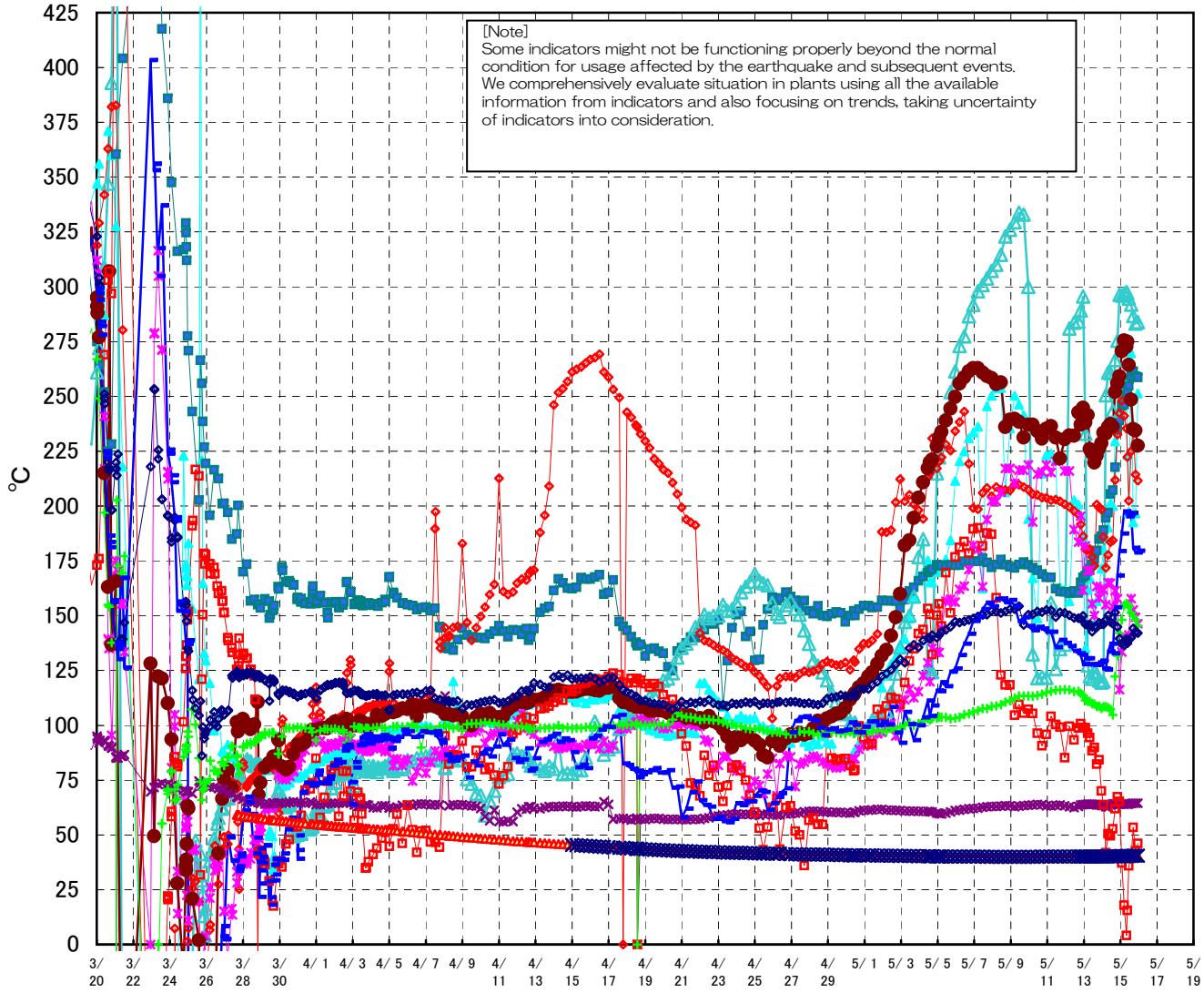
2011/6/13 Corrected

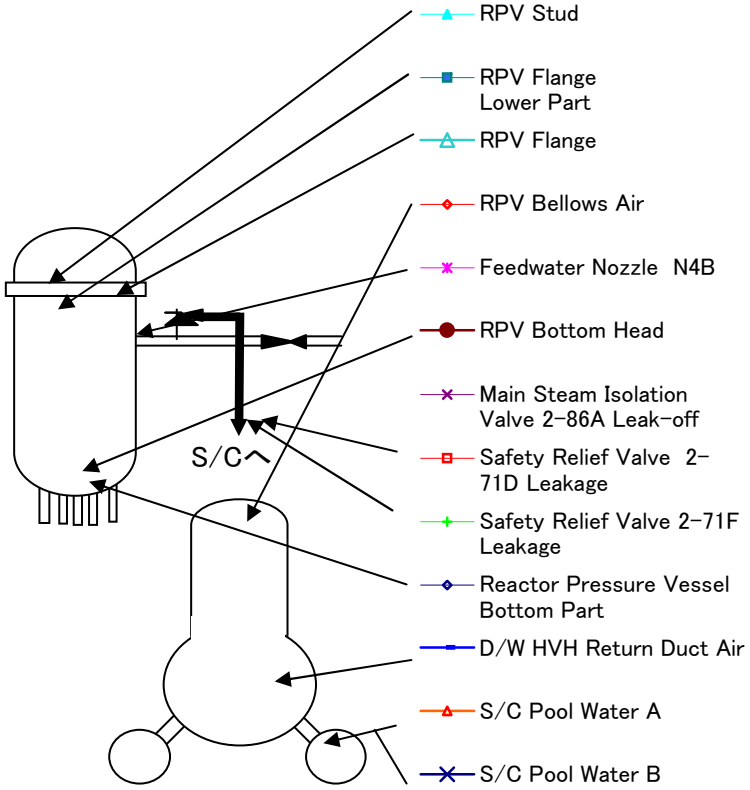
Fukushima Daiichi Nuclear Power Station Unit3　D/W pressure(MPa abs)



2011/6/13 Corrected

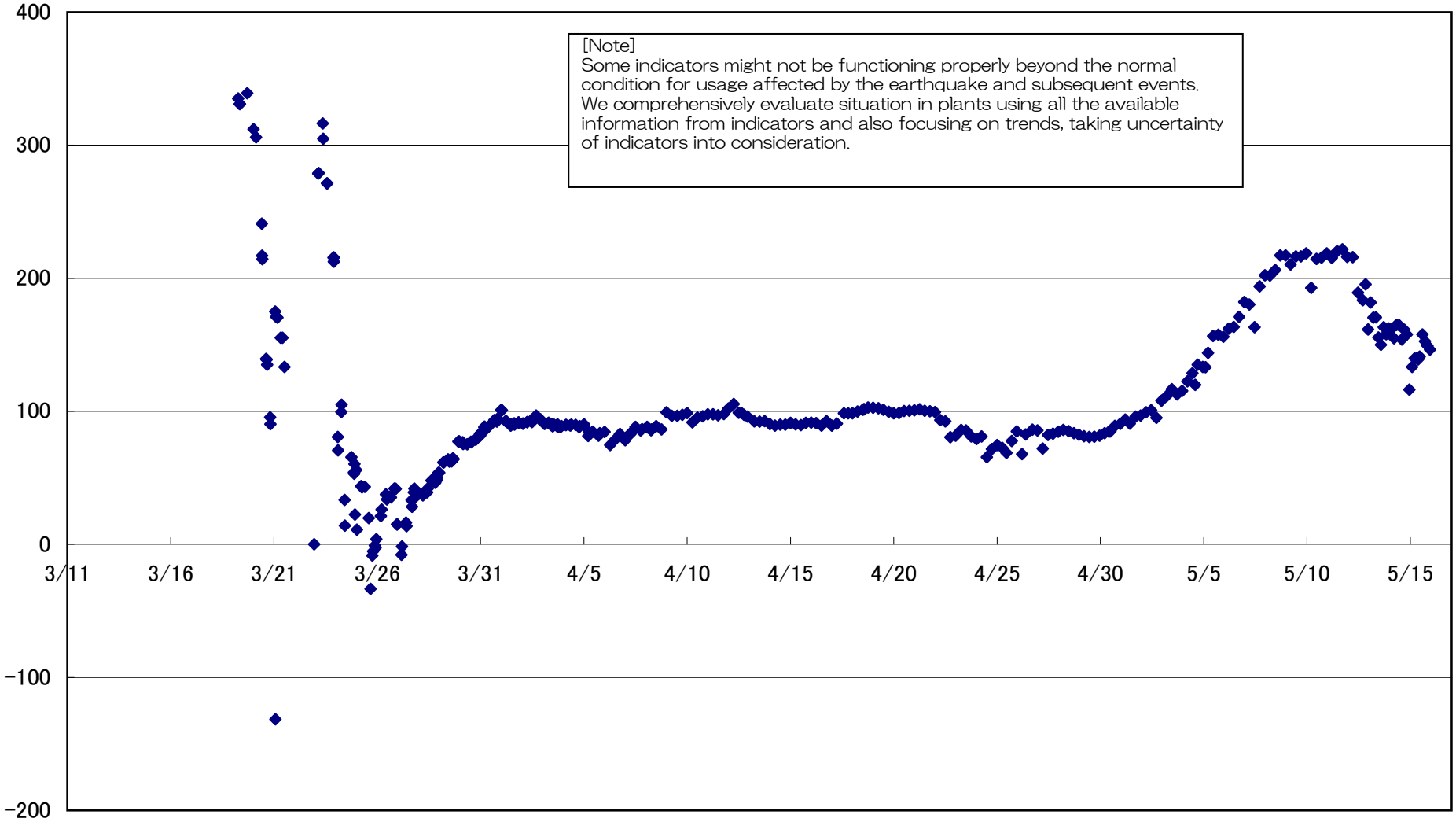
Fukushima Daiichi Nuclear Power Station Unit3 Parameters of Temperature (Typical Points)





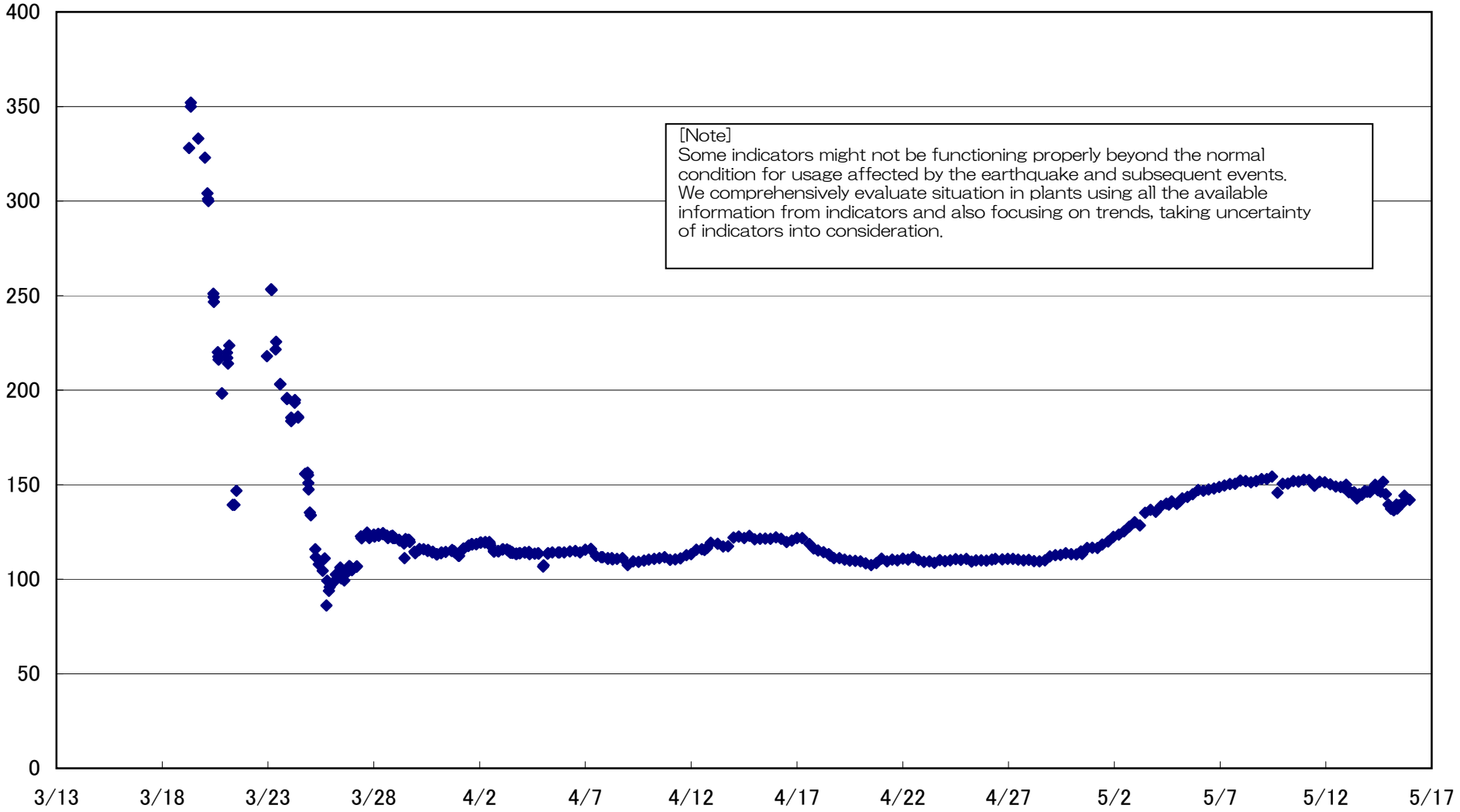
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit3　Feedwater Nozzle　N4B(℃)



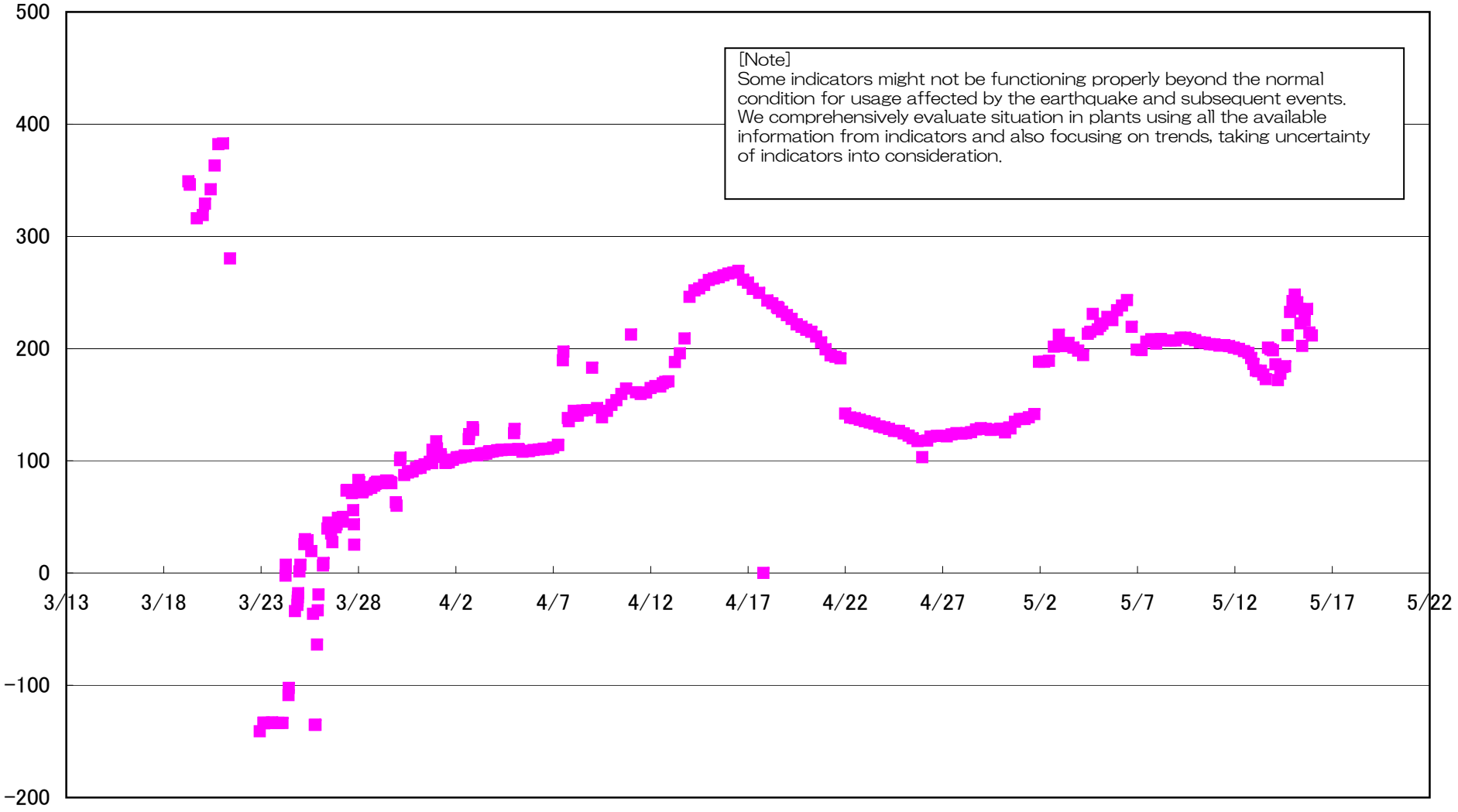
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit3　Reactor Pressure Vessel Bottom Part(℃)



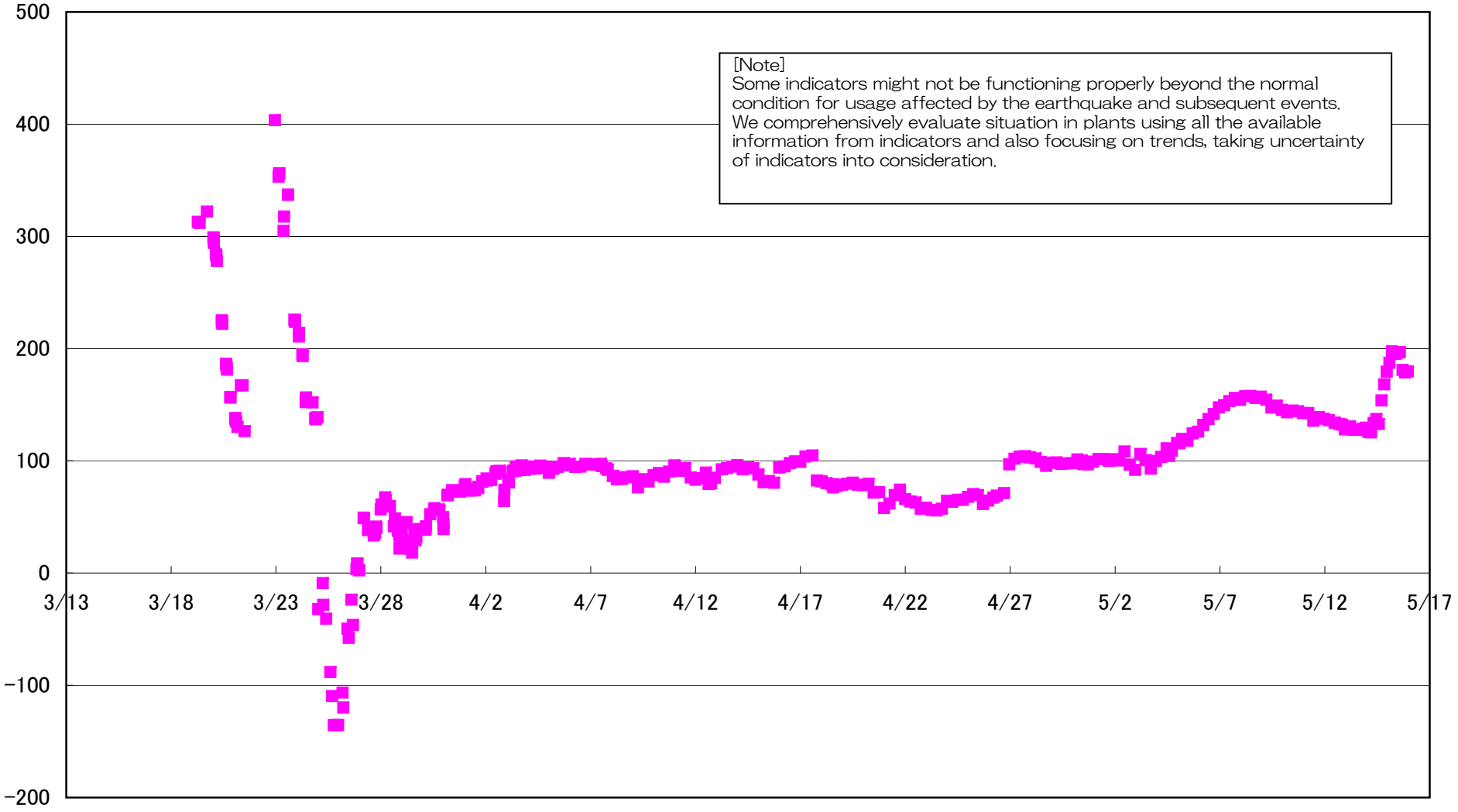
2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit3　RPV Bellows Air(℃)



2011/6/13 Corrected

Fukushima Daiichi Nuclear Power Station Unit3　D/W HVH Return Duct Air(℃)



Fukushima Daiichi Nuclear Power Station Unit2 Parameters of Water level and Pressure

2011/6/13 Corrected

[Note]
Some indicators might not be functioning properly beyond the normal condition for usage affected by the earthquake and subsequent events.
We comprehensively evaluate situation in plants using all the available information from indicators and also focusing on trends, taking uncertainty of indicators into consideration.

Date	reactor water level(fuel range)(A) (mm)	reactor water level(fuel range)(B) (mm)	A system/ reactor pressure (MPa)	B system/ reactor pressure (MPa)	D/W pressure (MPa abs)	S/C pressure (MPa abs)	CAMS D/W(A) (Sv/h)	CAMS D/W(B) (Sv/h)	CAMS S/C(A) (Sv/h)	CAMS S/C(B) (Sv/h)	radiation dose in main control room (mSv/h)	note
2011/3/12 4:55	3700											
2011/3/12 5:20	3700											
2011/3/12 5:30	3700											
2011/3/12 5:55	3700											
2011/3/12 6:00	3700											
2011/3/12 6:30	3700											
2011/3/12 6:47	3600											
2011/3/12 7:00	3600											
2011/3/12 7:15	3600											
2011/3/12 7:30	3600											
2011/3/12 7:55	3600											
2011/3/12 8:10	3600											
2011/3/12 8:20												
2011/3/12 8:25												
2011/3/12 8:30	3600											
2011/3/12 8:38	3600											
2011/3/12 8:46	3600		6.000		0.186							D/W pressure – converted from gage to abs
2011/3/12 8:49												
2011/3/12 8:58	3600											
2011/3/12 9:10												
2011/3/12 9:25	3600											
2011/3/12 9:30												
2011/3/12 9:48	3600											
2011/3/12 10:41	3600											
2011/3/12 10:52	3600											
2011/3/12 11:20	3600											
2011/3/12 11:30	3600											
2011/3/12 12:05												
2011/3/12 12:12	3600											
2011/3/12 12:35												
2011/3/12 12:55	3600		6.100		0.211							D/W pressure – converted from gage to abs
2011/3/12 13:14	3600											
2011/3/12 13:26	3600											
2011/3/12 13:38	3600											
2011/3/12 13:58	3600											
2011/3/12 14:10	3600											

Fukushima Daiichi Nuclear Power Station Unit2 Parameters of Water level and Pressure

2011/6/13 Corrected

[Note]
Some indicators might not be functioning properly beyond the normal condition for usage affected by the earthquake and subsequent events.
We comprehensively evaluate situation in plants using all the available information from indicators and also focusing on trends, taking uncertainty of indicators into consideration.

Date	reactor water level (fuel range)(A) (mm)	reactor water level(fuel range)(B) (mm)	A system/ reactor pressure (MPa)	B system/ reactor pressure (MPa)	D/W pressure (MPa abs)	S/C pressure (MPa abs)	CAMS D/W(A) (Sv/h)	CAMS D/W(B) (Sv/h)	CAMS S/C(A) (Sv/h)	CAMS S/C(B) (Sv/h)	radiation dose in main control room (mSv/h)	note
2011/3/12 14:50	3600											
2011/3/12 15:22	3600		6.300		0.231							D/W pressure – converted from gage to abs
2011/3/12 15:37	3550											
2011/3/12 16:10	3600											
2011/3/12 16:31	3550											
2011/3/12 16:45	3550											
2011/3/12 17:00	3550											
2011/3/12 17:30	3550											
2011/3/12 18:00	3550											
2011/3/12 18:20			6.300		0.256							D/W pressure – converted from gage to abs
2011/3/12 18:30	3550											
2011/3/12 19:00	3550											
2011/3/12 19:27	3550											
2011/3/12 19:42	3550											
2011/3/12 20:00	3550											
2011/3/12 20:30	3500											
2011/3/12 21:00	3550											
2011/3/12 21:30	3600											
2011/3/12 22:00	3600											
2011/3/12 22:20	3600											
2011/3/12 23:00	3600											
2011/3/12 23:30	3600											
2011/3/13 0:00	3600											
2011/3/13 0:30	3600											
2011/3/13 1:00	3650											
2011/3/13 2:00	3650											
2011/3/13 3:00	3650		6.098		0.315							
2011/3/13 3:38												
2011/3/13 4:00	3650		6.140									
2011/3/13 5:00	3650		6.140		0.330							
2011/3/13 5:30	3650		6.140		0.330							
2011/3/13 6:00	3650		6.120		0.340							
2011/3/13 6:30	3650		6.120		0.340							
2011/3/13 7:00	3650		6.120		0.340							
2011/3/13 7:30	3650		6.120		0.350							
2011/3/13 8:00	3650		6.100		0.350							
2011/3/13 8:20	3650		6.100		0.350							
2011/3/13 8:30												

Fukushima Daiichi Nuclear Power Station Unit2 Parameters of Water level and Pressure

2011/6/13 Corrected

[Note]
Some indicators might not be functioning properly beyond the normal condition for usage affected by the earthquake and subsequent events.
We comprehensively evaluate situation in plants using all the available information from indicators and also focusing on trends, taking uncertainty of indicators into consideration.

Date	reactor water level (fuel range)(A) (mm)	reactor water level(fuel range)(B) (mm)	A system/ reactor pressure (MPa)	B system/ reactor pressure (MPa)	D/W pressure (MPa abs)	S/C pressure (MPa abs)	CAMS D/W(A) (Sv/h)	CAMS D/W(B) (Sv/h)	CAMS S/C(A) (Sv/h)	CAMS S/C(B) (Sv/h)	radiation dose in main control room (mSv/h)	note
2011/3/13 18:40	3800	3750			0.410							
2011/3/13 18:45												
2011/3/13 19:00	3800	3800			0.420							
2011/3/13 19:30	3800	3800			0.420							
2011/3/13 20:00	3800	3800			0.420							
2011/3/13 20:15	3800	3800			0.420							
2011/3/13 20:30	3800	3800			0.420							
2011/3/13 21:00	3800	3850			0.420							
2011/3/13 21:30	3800	3850			0.425							
2011/3/13 22:00	3850	3900			0.430							
2011/3/13 22:30	3850	3900			0.430							
2011/3/13 23:00	3850	3900			0.430							
2011/3/13 23:30	3850	3900			0.435							
2011/3/14 0:00	3850	3900			0.435							
2011/3/14 0:30	3850	3900			0.435							
2011/3/14 1:00	3850	3900			0.435							
2011/3/14 1:30	3850	3900			0.440							
2011/3/14 2:00	3850	3900			0.440							
2011/3/14 2:30	3850	3900	5.470		0.440							
2011/3/14 2:45	3850	3900	5.450		0.440							
2011/3/14 3:00	3850	3900	5.450									
2011/3/14 3:30	3850	3900	5.450									
2011/3/14 4:00	3850	3900	5.420									
2011/3/14 4:30	3850	3900	5.400			0.467						
2011/3/14 5:00	3900	3900	5.400			0.467						
2011/3/14 5:30	3900	3900	5.400			0.469						
2011/3/14 6:00	3900	3900	5.355			0.471	1.00E-03		9.00E-03			
2011/3/14 6:10					0.455							
2011/3/14 6:30	3900	3900	5.355		0.455		1.00E-03		9.00E-03			
2011/3/14 7:00	3900	3950	5.333		0.455	0.473	1.00E-03		8.50E-03			
2011/3/14 7:15	3950	3950										
2011/3/14 7:30	3950	3950	5.333		0.455	0.473	1.00E-03		8.00E-03			
2011/3/14 8:00	3950	3950	5.310		0.455	0.474	1.00E-03		1.00E-02			
2011/3/14 8:30	3950	3950	5.310		0.455	0.474	1.00E-03		1.10E-02			
2011/3/14 8:45							1.00E-03		1.10E-02			
2011/3/14 9:00	3900	3950	5.310		0.460	0.478	1.00E-03		1.15E-02			
2011/3/14 9:35	3800	3850	5.468		0.460	0.476	1.00E-03		1.15E-02			
2011/3/14 9:37	3850	3850										

Fukushima Daiichi Nuclear Power Station Unit2 Parameters of Water level and Pressure

2011/6/13 Corrected

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Date	reactor water level(fuel range)(A) (mm)	reactor water level(fuel range)(B) (mm)	A system/ reactor pressure (MPa)	B system/ reactor pressure (MPa)	D/W pressure (MPa abs)	S/C pressure (MPa abs)	CAMS D/W(A) (Sv/h)	CAMS D/W(B) (Sv/h)	CAMS S/C(A) (Sv/h)	CAMS S/C(B) (Sv/h)	radiation dose in main control room (mSv/h)	note
2011/3/14 9:45	3800	3800	5.445		0.460		1.00E-03		1.20E-02			
2011/3/14 10:00	3800	3850	5.490		0.460	0.480	1.00E-03		1.15E-02			
2011/3/14 10:15							1.00E-03		9.70E-03			
2011/3/14 10:30	3800	3850	5.648		0.460	0.481	1.00E-03		9.50E-03			
2011/3/14 11:30	3400	3400	6.008		0.460	0.485	1.00E-03		1.20E-02			
2011/3/14 12:00	3400	3400	6.008		0.460	0.485	1.00E-03		1.20E-02			
2011/3/14 12:30	2950	3000	6.188		0.465	0.486	1.00E-03		1.10E-02			
2011/3/14 13:00	2500	2500	7.065									
2011/3/14 13:10	2500	2500	7.065		0.465							
2011/3/14 13:24	2400	2400	7.470		0.465							
2011/3/14 13:30			7.459									
2011/3/14 13:40	2250	2250										
2011/3/14 13:45	2200	2200	7.225		0.460							
2011/3/14 14:00	2000	2000	7.527		0.460							
2011/3/14 14:10	1850	1850	7.392		0.460							
2011/3/14 14:20	1650	1650			0.455							
2011/3/14 14:27	1650	1650			0.455							
2011/3/14 14:40	1550	1550	7.425		0.450		1.00E-03		1.30E-02			
2011/3/14 14:50	1250	1250	7.470		0.445							
2011/3/14 15:00	1200	1200	7.392		0.440		1.00E-03		1.30E-02			
2011/3/14 15:15	1100	1100	7.302		0.440		1.08E-03		1.03E-02			
2011/3/14 15:30	900	900	7.020		0.430							
2011/3/14 15:40	700	700	7.070		0.430							
2011/3/14 15:50	500	500	7.425		0.420							
2011/3/14 16:00	300	300	7.448		0.420							
2011/3/14 16:10	100	100	7.448		0.420							
2011/3/14 16:20	0	0	6.998		0.420							
2011/3/14 16:34			6.998									
2011/3/14 16:36			7.403									
2011/3/14 16:39			7.425									
2011/3/14 16:43	-300											
2011/3/14 16:57	-520				0.400							
2011/3/14 17:12	-800		7.403									
2011/3/14 17:14	-850		7.403									
2011/3/14 17:16	-950		6.975									
2011/3/14 17:17	-1000											
2011/3/14 17:20			7.290									
2011/3/14 17:24			7.358		0.400							

Fukushima Daiichi Nuclear Power Station Unit2 Parameters of Water level and Pressure

2011/6/13 Corrected

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Date	reactor water level(fuel range)(A) (mm)	reactor water level(fuel range)(B) (mm)	A system/ reactor pressure (MPa)	B system/ reactor pressure (MPa)	D/W pressure (MPa abs)	S/C pressure (MPa abs)	CAMS D/W(A) (Sv/h)	CAMS D/W(B) (Sv/h)	CAMS S/C(A) (Sv/h)	CAMS S/C(B) (Sv/h)	radiation dose in main control room (mSv/h)	note
2011/3/14 18:36	-3700		0.698		0.400							
2011/3/14 18:37	-3700		0.675		0.400							
2011/3/14 18:39	-3700		0.540		0.400							
2011/3/14 18:40	-3700		0.563		0.400							
2011/3/14 18:42	-3700		0.540		0.400							
2011/3/14 18:45	-3700		0.563		0.400							
2011/3/14 18:47	-3700		0.585		0.400							
2011/3/14 18:50			0.585		0.400							
2011/3/14 18:52			0.638		0.400							
2011/3/14 18:55			0.638		0.400							
2011/3/14 19:00			0.630		0.400							
2011/3/14 19:03			0.630		0.400							
2011/3/14 19:12			0.653		0.400							
2011/3/14 19:13			0.653		0.400							
2011/3/14 19:18			0.653		0.400							
2011/3/14 19:22			0.650		0.395							
2011/3/14 19:35			0.608		0.395							
2011/3/14 19:45			0.585		0.395							
2011/3/14 19:49			0.585		0.395							
2011/3/14 19:54			0.563		0.395							
2011/3/14 19:55			0.563		0.395							
2011/3/14 19:57			0.560									
2011/3/14 19:59			0.563		0.455							
2011/3/14 20:03			0.540		0.410							
2011/3/14 20:05			0.540		0.410							
2011/3/14 20:07			0.540		0.415							
2011/3/14 20:08			0.563		0.415							
2011/3/14 20:10			0.540		0.418							
2011/3/14 20:12			0.563		0.419							
2011/3/14 20:13			0.540		0.420							
2011/3/14 20:15			0.540		0.420							
2011/3/14 20:18			0.563		0.420							
2011/3/14 20:20			0.563		0.420							
2011/3/14 20:21			0.563		0.420							
2011/3/14 20:23			0.563		0.420							
2011/3/14 20:26			0.585		0.420							
2011/3/14 20:28			0.608		0.420							

Fukushima Daiichi Nuclear Power Station Unit2 Parameters of Water level and Pressure

2011/6/13 Corrected

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Date	reactor water level (fuel range)(A) (mm)	reactor water level(fuel range)(B) (mm)	A system/ reactor pressure (MPa)	B system/ reactor pressure (MPa)	D/W pressure (MPa abs)	S/C pressure (MPa abs)	CAMS D/W(A) (Sv/h)	CAMS D/W(B) (Sv/h)	CAMS S/C(A) (Sv/h)	CAMS S/C(B) (Sv/h)	radiation dose in main control room (mSv/h)	note
2011/3/15 2:03			0.630		0.725	0.330	3.04E+01		7.40E+00			
2011/3/15 2:08			0.630		0.725	0.330	3.09E+01		7.37E+00			
2011/3/15 2:10			0.630		0.730	0.340	3.11E+01		7.27E+00			
2011/3/15 2:17			0.630		0.730	0.340	3.15E+01		7.15E+00			
2011/3/15 2:22			0.675		0.740	0.330	3.22E+01		7.00E+00			
2011/3/15 2:39			0.653		0.750	0.330	3.46E+01		6.96E+00			
2011/3/15 2:45			0.653		0.750	0.320	3.65E+01		6.88E+00			
2011/3/15 2:50			0.653		0.750	0.330	3.78E+01		6.82E+00			
2011/3/15 3:00			0.653		0.750	0.330	4.09E+01		6.60E+00			
2011/3/15 3:05			0.653		0.750	0.330	4.18E+01		6.58E+00			
2011/3/15 3:20			0.653		0.750	0.330	4.30E+01		6.42E+00			
2011/3/15 3:30			0.653		0.750	0.330	4.59E+01		6.31E+00			
2011/3/15 3:40			0.653		0.750	0.330	4.76E+01		6.23E+00			
2011/3/15 3:50			0.653		0.750	0.330	4.94E+01		6.22E+00			
2011/3/15 4:00			0.653		0.750	0.330	5.01E+01		6.09E+00			
2011/3/15 4:05			0.653		0.750	0.330	5.12E+01		5.87E+00			
2011/3/15 4:10			0.653		0.750	0.310	5.19E+01		5.72E+00			
2011/3/15 4:20			0.637		0.750	0.310	5.32E+01		5.65E+00			
2011/3/15 4:30			0.632		0.750	0.300	5.44E+01		5.58E+00			
2011/3/15 4:45			0.632		0.750	0.310	5.55E+01		5.52E+00			
2011/3/15 5:00			0.626		0.750	0.300	5.75E+01		5.29E+00			
2011/3/15 5:15			0.623		0.740	0.300	5.83E+01		5.19E+00			
2011/3/15 5:30			0.621		0.730	0.310	5.95E+01		5.08E+00			
2011/3/15 5:45			0.617		0.740	0.320	6.06E+01		5.00E+00			
2011/3/15 6:00			0.614		0.730	0.270	6.16E+01		4.89E+00			
2011/3/15 6:02			0.612		0.730	0.000	6.26E+01		4.80E+00			
2011/3/15 6:10	-2800				0.730	0.000						
2011/3/15 6:20	-2700		0.612		0.730	0.000	6.27E+01		4.80E+00			
2011/3/15 6:25	-2300		0.610		0.730	0.000	4.30E+01		4.70E+00			
2011/3/15 7:20	-2500		0.612		0.730	0.000						
2011/3/15 11:25	-1200		0.270		0.155		4.56E+01		5.79E+00			Instrument failure - S/C pressure
2011/3/15 11:42	-1400		0.315		0.155		4.61E+01		5.52E+00			
2011/3/15 11:58	-1350		0.428		0.155		4.65E+01		5.27E+00			
2011/3/15 13:00	-1700		0.608		0.415		4.77E+01		4.62E+00			
2011/3/15 15:25	-1950		0.119		0.275		1.35E+02		6.92E+00			
2011/3/15 15:50	-1750		0.117		0.270							
2011/3/15 16:10	-1700		0.119		0.270		1.38E+02		6.49E+00			
2011/3/15 18:43	-1200		0.099		0.250		1.22E+02		4.40E+00			

Fukushima Daiichi Nuclear Power Station Unit3 Parameters of Water level and Pressure

2011/6/13 Corrected

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Date	reactor water level (fuel range)(A) (mm)	reactor water level(fuel range)(B) (mm)	A system/ reactor pressure (MPa)	B system/ reactor pressure (MPa)	D/W pressure (MPa abs)	S/C pressure (MPa abs)	CAMS D/W(A) (Sv/h)	CAMS D/W(B) (Sv/h)	CAMS S/C(A) (Sv/h)	CAMS S/C(B) (Sv/h)	radiation dose in main control room (mSv/h)	note
2011/3/12 9:10			7.460		0.3600							
2011/3/12 9:30			7.460		0.3600							
2011/3/12 11:23			7.360		0.3600							
2011/3/12 12:10			7.530		0.3900							
2011/3/12 12:45			5.600		0.3800							
2011/3/12 13:05			4.800		0.3700							
2011/3/12 13:14			4.200		0.3650							
2011/3/12 13:38			4.000		0.3600							
2011/3/12 13:58			3.630		0.3600							
2011/3/12 14:25			3.560		0.3600							
2011/3/12 17:00			2.900		0.3000							
2011/3/12 18:30			1.350		0.2800							
2011/3/12 19:00			0.950		0.2850							
2011/3/12 19:42			0.820		0.2800							
2011/3/12 20:00			0.820		0.2800							
2011/3/12 20:15			0.800		0.2700							
2011/3/12 20:30			0.820									
2011/3/12 20:40			0.820									
2011/3/12 21:00			0.720									
2011/3/12 21:30			0.970									
2011/3/12 22:00			0.970		0.1700							
2011/3/12 22:30			0.970									
2011/3/12 23:00			0.960									
2011/3/12 23:30			0.970									
2011/3/13 0:00			0.970									
2011/3/13 0:30			0.970									
2011/3/13 1:00			0.970									
2011/3/13 2:00			0.850									
2011/3/13 2:44			0.580									
2011/3/13 3:00			0.770									
2011/3/13 3:44			4.100									
2011/3/13 5:00	−2000		7.380		0.3600							
2011/3/13 5:10	−2300		7.350		0.3450							
2011/3/13 5:25	−2400		7.270		0.3550							
2011/3/13 6:00	−2600		7.390		0.3900							
2011/3/13 6:30	−2800		7.390		0.4250							
2011/3/13 6:50	−2850		7.350		0.4400							

Fukushima Daiichi Nuclear Power Station Unit3 Parameters of Temperature

2011/6/13 Corrected

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Date	Feedwater Nozzle N4B	RPV Bottom Head	RPV Flange	Reactor Pressure Vessel Bottom Part	RPV Stud	RPV Flange Lower Part	Safety Relief Valve 2-71D Leakage	Safety Relief Valve 2-71F	Main Steam Isolation Valve 2-86A Leak-off	D/W HVH Return Duct Air	RPV Bellows Air	S/C Pool Water A	S/C Pool Water B	note
3/19 6:30	335	286	231	328	329	332	189	271	89	313	349			
3/19 8:20	331	295	228	352			189	271	90	312	346			
3/19 8:30	331	296	230	350			189	271	90	312	346			
3/19 17:00	339	327	228	333			164	281	89	322	316			
3/20 0:25	312	295	261	323	347	275	173	267	95	299	319			
3/20 0:50		291							94	297				
3/20 1:00		288							94	294				
3/20 3:10	306	277	272	304	356	264	176	249	92	284	329			
3/20 3:50				301					93	282				
3/20 4:20				300					93	278				
3/20 10:00	241	215	309	251	287	252	269	197	93	225	342			
3/20 10:10	216.9			249.2					92.9	223.9				
3/20 10:35	214.4			246.6					92.6	221.9				
3/20 15:00				220					90.9	186.5				
3/20 15:00	139.4	163	347		371	225	303	155			363			
3/20 15:35	138.8			217.7					90.7	183.5				
3/20 16:00	135			216.1					90.5	181.2				
3/20 16:30		307					307	154						
3/20 19:40				198.3					89.7	156.9				
3/20 19:40	95.4	136.7	393		359.9	228.2	296.9	137.7			382.1			
3/20 20:00	90.3			198.2					89.6	156.2				
3/21 1:25	175			219.8				137.7	85.6	138				
3/21 1:25		165.7	558.8		327.7	360.4	559.3				382.7			
3/21 1:45	-131.4			217				-133.2	85.1	136.5				
3/21 2:30	171			214				202.7	85.5	134.8				
3/21 4:00	170.4			223.6				172.6	85	130.1				
3/21 8:00	155.3			139.3				169.3	85.9	167.2				
3/21 10:00	155.3	-131.6	-131.5	139.3	218	404.2	532.3	169.3	85.9	167.2	280.3			
3/21 12:15	133.4			146.8				177.2	86.6	126.3				
3/22 22:40				218						403.4	-141.1			
3/22 22:40	-139.4	128.1	-139.7		-138.4	533.1	-141.3	-106.2	69.6					
3/23 3:00							-134.7	-78.4		353.1	-133.5			
3/23 3:30	278.6	49.4	-135	253.4	-129.1	504.3	-134.6	-75.9	71.6	356	-133.3			
3/23 4:00	279		-135	253			-135	-76		356	-134			
3/23 8:45	316.4	122.3	-132.2	221.5	-129.2	481.4	-134.3	0.1	73	304.8	-133.5			
3/23 9:10	304.8		-132.2	225.5			-134.2	-14.2		317.5	-133.6			
3/23 13:40	271.2		-132.3	203.1			-74.2	55.2		337	-133.4			
3/23 13:50	271.2	121.4	-132.3	203.1	-129.6	417.5	-74.2	55.2	73.5	337	-133.4			
3/23 21:10	215.4		-67.4	195.6			21.5	71		225.7	-133.6			
3/23 21:25	215.7	110.1	-65.3	195.8	-78.5	385.9	22	70.2	73.2	225.5	-133.6			
3/23 21:40	212.4		-64.8	195.3			20.4	68.7		223.8	-133.6			
3/24 2:20	80.7		-108	185.4			58.3	79.3		214	-133.6			
3/24 2:25	70.7	93.6	-115.2	183.6	-128.6	347.5	60.6	78.7	72.4	210.8	-133.6			
3/24 6:20	99.5		-81.8	193.3			82.8	70.7		194.8	-2.4			
3/24 6:35	104.9		-80.9	194.8			85.6	65.6		193.2	7.3			
3/24 10:00	33.3		-107	186			82.2	66.3		152.1	-108.7			
3/24 10:00		27.9			-43.7	316.1			70.7					
3/24 10:20	14.1		-124.6	185.5			81.1	72.8		156.4	-102.3			
3/24 18:00	65.6		-124.6	155.7			101.5	85.6		151.9	-33.9			
3/24 18:00		-14.9			222.9	317			70.5					
3/24 21:00	54.1	35.8	-81	156.4	171.8	329	125.9	88.9	69.7	138	-28.4			
3/24 21:20	53	33.9	-87	155	173.3	324.6	131.5	90.3	69.6	137	-24.9			
3/24 21:40	60.5		-85.4	150.9			131.5	91.2		137.3	-21.5			
3/24 21:40		38.7			168.4	318.1			69.8					
3/24 22:00	22.4		-83.7	147.5			136.6	87.8		138.4	-18			
3/24 22:00		45.9			163.8	312.1			69.8					
3/24 23:30	55.9		-57.9	135.2			148	97.1		138.7	1.4			
3/24 23:30		63.1			167.8	277.5			69.7					
3/25 0:30	11		-57.3	133.8			151.9	94.8		-32.2	7.4			
3/25 0:30		62			183	270.9			69.7					
3/25 5:30	43.8		-14.5	115.9			191	107.3		-8.9	25.6			
3/25 5:30		20.9			153.2	243			68.9					
3/25 6:10	42.8		-1.5	111.6			193.4	107.1		-28.4	30			
3/25 9:30	43.3		47.3	107.8			216.6	100.4		-40.7	28.9			
3/25 14:10	19.7		31.6	104.4			213.7	85		-88.2	19.4			
3/25 14:10		2			120.9	202.7			74.5					
3/25 16:10	-33.4		41.3	111			31.7	74.3		-109.6	-36.4			
3/25 16:10		-132.9			521.1	266.5			73.6					
3/25 18:10	-8.4		29.4	86.1			120.9	65.9		-135.6	-135.2			
3/25 18:10		-133			220.9	256			72.3					
3/25 19:10	-5.3		23.3	99.2			150.4	70.6		-135.7	-135.2			
3/25 19:10		-133			164.6	238.6			72.4					