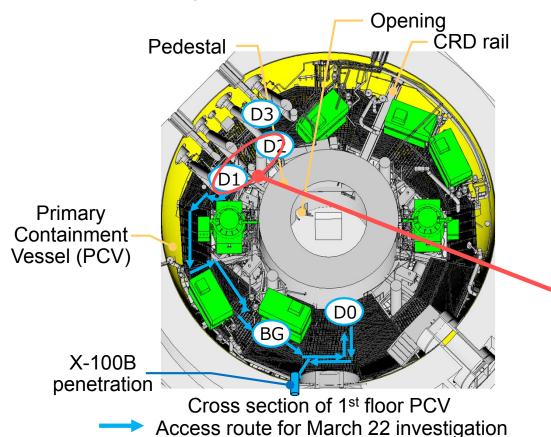
1. Progress of Unit 1 PCV internal investigation

(Preliminary report of March 22 investigation) 1/3

Reference March 23, 2017 Tokyo Electric Power Company Holdings, Inc.

Investigation results at the vicinity of the measurement point D2 are as follows.



Measurem ent point	Contents of estimation, etc.	
D0	Estimation of presence or absence of diffusion of fuel debris from the drain sump	
D1, D2	Estimation of presence or absence of diffusion of fuel debris from the opening	
D3	Estimating whether or not the fuel debris is likely to have reached the PCV shell	
BG	Understanding the background level corresponding to measurement of D0 - D3	



Underwater image at the vicinity of the measuring point D2

Radiation dose at the vicinity of the measurement point D2 (Provisional values)

- On metal grating: 9.3 Sv/h
- The lowest point: 9.4 Sv/h (About 0.9m above the PCV basement floor*)

The conditions of PCV basement will be evaluated after organizing digital images and radiation data.

*The exact height from the PCV basement floor will be examined later.

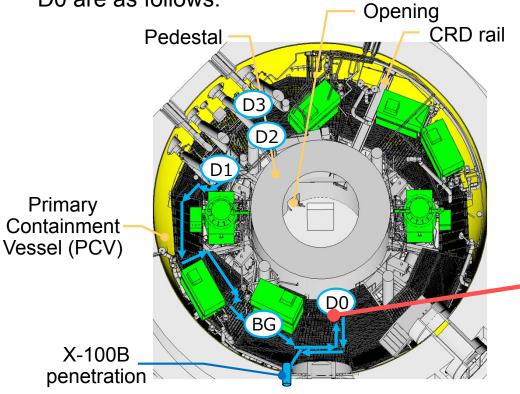


Measurement image

1. Progress of Unit 1 PCV internal investigation

(Preliminary report of March 22 investigation) 2/3

Investigation results at the measurement point D0 are as follows.



Cross section of 1st floor PCV

Access route for March 22 investigation

Measurem ent point	Contents of estimation, etc.	
D0	Estimation of presence or absence of diffusion of fuel debris from the drain sump	
D1, D2	Estimation of presence or absence of diffusion of fuel debris from the opening	
D3	Estimating whether or not the fuel debris is likely to have reached the PCV shell	
BG	Understanding the background level corresponding to measurement of D0 - D3	



Underwater image at the measuring point D0

Radiation dose at the measurement point D0 (Provisional values)

- On metal grating: 6.7 Sv/h
- The lowest point: 1.6 Sv/h
 (About 0.6m above the PCV basement floor*)

The conditions of PCV basement will be evaluated after organizing digital images and radiation data.

*The exact height from the PCV basement floor will be examined later.

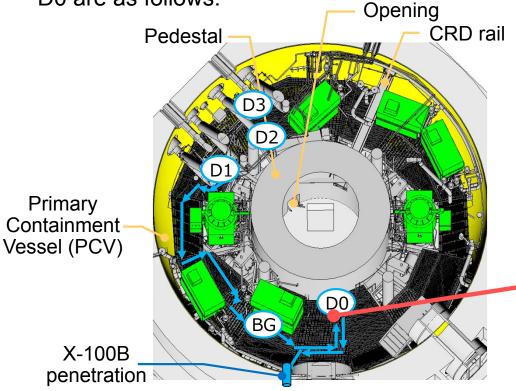


Measurement image

1. Progress of Unit 1 PCV internal investigation

(Preliminary report of March 22 investigation) 3/3

Investigation results at the measurement point D0 are as follows.



Cross section of 1st floor PCV

Access route for March 22 investigation

Measurem ent point	Contents of estimation, etc.	
D0	Estimation of presence or absence of diffusion of fuel debris from the drain sump	
D1, D2	Estimation of presence or absence of diffusion of fuel debris from the opening	
D3	Estimating whether or not the fuel debris is likely to have reached the PCV shell	
BG	Understanding the background level corresponding to measurement of D0 - D3	



Underwater image at the measuring point D0

Radiation dose at the measurement point D0 (Provisional values)

- On metal grating: 3.6 Sv/h
- The lowest point: 5.4 Sv/h
 (About 0.3m above the PCV basement floor*)

The conditions of PCV basement will be evaluated after organizing digital images and radiation data.

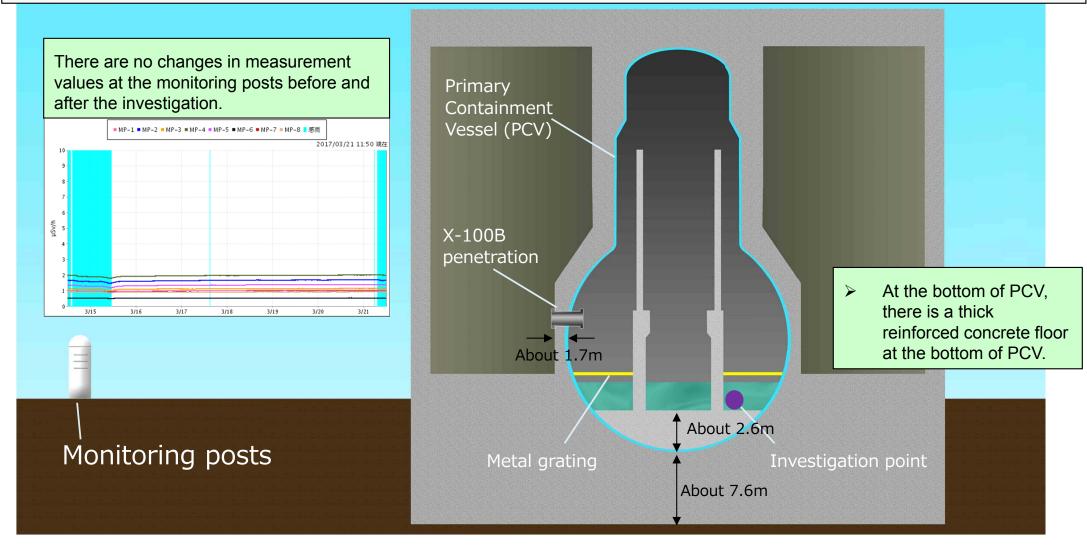
*The exact height from the PCV basement floor will be examined later.



Measurement image

2. Impact to the surrounding environment (1/4)

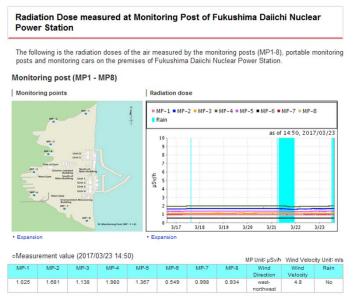
No radiation impact has occurred to the surrounding environment because the radiation has been reduced by the shielding of PCV concrete walls and steels.

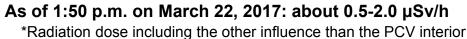


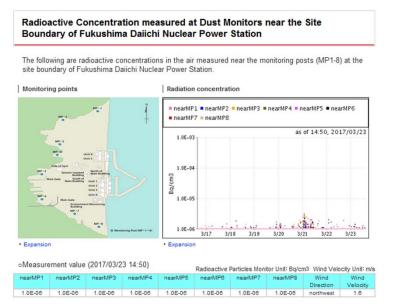
2. Impact to the surrounding environment (2/4)

- The radiation level of 12 Sv/h* was measured by a dosimeter during the March 20 investigation, but the radiation impact has been reduced by the shielding of PCV concrete walls and steel.
 No radiation impact has been observed in the surrounding environment.
 - *The radiation rates measured on the metal grating in April 2016 were 4.7-9.7 Sv/h, almost the same levels as the measurement result this time.
- The investigation is conduced while creating a boundary around the guiding pipe to prevent the air inside the PCV from leaking to the outside.
- No significant changes have been observed at the monitoring posts and dust monitors after the investigation, compared to the before.
- Real-time data of the monitoring posts and dust monitors along the site boundary are available on the website.

Reference URL: http://www.tepco.co.jp/en/nu/fukushima-np/f1/index-e.html http://www.tepco.co.jp/en/nu/fukushima-np/f1/dustmonitor/index-e.html







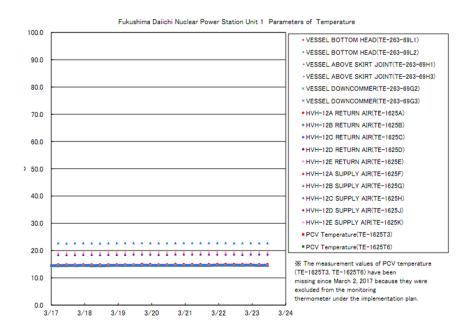
As of 10:50 a.m. on March 23, 2017: 1.0E-06Bq/cm³

2. Impact to the surrounding environment (3/4)

- The measurement result during the investigation does not mean that a new phenomenon has occurred in the PCV, but rather the area that has not been investigated since the March 2011 accident was investigated for the first time.

 *The radiation rates measured on the metal grating in April 2016 were 4.7-9.7 Sv/h, almost the same levels as the measurement result this time.
- Plant parameters are monitored all the time during the investigation, and no significant changes have been observed in the PCV internal temperatures after the investigation, compared to the before. The condition of cold shutdown has not been changed.
- Temperature data inside the PCV are available on the website.

Reference URL: http://www.tepco.co.jp/en/nu/fukushima-np/f1/pla/index-e.html



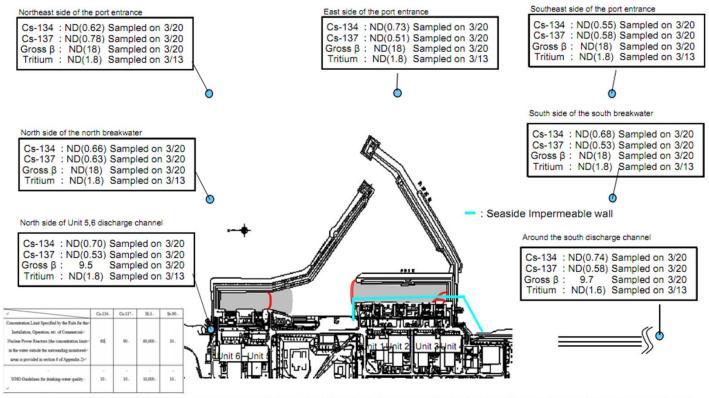
	Unit 1	Unit 2	Unit 3	Unit 4
Status of water injection to the reactor	FDW line 1.5nt/h CS line 1.5nt/h (as of 11:00 , 3/23)	FDW line 1.5nl/h CS line 1.4nl/h (as of 11:00 , 3/23)	FDW line 1.5nl/h CS line 1.4nl/h (as of 11:00 , 3/23)	
Temperature at the bottom of RPV	VESSEL BOTTOM HEAD (TE-283-6841): 14.7°C VESSEL ABOVE SORT JONT (TE-283-6811): 14.6°C VESSEL DOWNCOMMER (TE-283-6862): 14.5°C (as of 1100.3/23)	VESSE, WALL ABOVE BOTTOM HEAD (TE-2-3-69H3): 19.3°C RPV TEMPERATURE (TE-2-9-69R): 19.7°C (as of 1100, 3/23)	VESSEL BOTTOM HEAD (TE-2-3-69L1): 18.4°C VESSEL BOTTOM ABOVE SKRT JOT (TE-2-3-69F1): 18.5°C VESSEL WALL ABOVE BOTTOM HEAD (TE-2-3-69F1): 17.1°C (as of 1100, 3123)	
Temperature in PCV	HVH-12A RETURN AIR (TE-1625A): 15.0°C HVH-12A SUPPLY AIR (TE-1625F): 14.5°C (as of 11:00, 3/23)	RETURN AIR DRYWELL COOLER (TE-16-114B): 20.1°C SUPPLY AIR D/W COOLER HVH2-16B (TE-16-114G±1): 19.8°C (as of 11:00, 3/23)	RETURN AIR DRYWELL COOLER (TE-16-114A): 18.3°C SUPPLY AIR DW COOLER (TE-16-114F=1): 16.7°C (as of 11:00, 3/23)	
Pressure in PCV	0.57kPa g (as of 11:00.3/23)	3.95kPa g (as of 11:00, 3/23)	0.26kPa g (as of 11/00.3/23)	_
Flow rate of nitrogen gas injection to Reactors #3	RPV: 26.19Nml/h PCV: =Nml/h (as of 11:00.3/23) #4	RPV: 13.57Nn/h PCV: -Nn/h (as of 11:00 , 3/23) #4	RPV: 16.58Nml/h PCV: -Nml/h #4 (as of 11/00.3/23)	
Outlet flow from PCV gas control system	20.3nl/h (as of 11:00 , 3/23)	17.91Nrl/h (as of 11:00.3/23)	20.34Nrl/h (as of 11:00 , 3/23)	
Hydrogen concentration in PCV #1	System A : 0.00vol% System B : 0.00vol% (as of 11:00 , 3/23)	System A : 0.05vol% System B : 0.06vol% (as of 11:00 , 3/23)	System A : 0.05vol% System B : 0.08vol% (as of 11:00 , 3/23)	
Radioactive concentration in PCV (Xe 135) #2	System A : nicidated value 7.90E-04 Ba/ord System B : nicidated value 8.10E-04 Ba/ord Indicated value 8.10E-04 Ba/ord Idea of 1100, 3/23)	System A : indicated value ND detection limit 1,7E-01 Ba/ord System B : indicated value ND detection limit 1,5E-01 Ba/ord (as of 1100, 3/23)	System A : ndicated value ND ndicate	
Temperature in the spent fuel pool	25.4°C (as of 11:00.3/23)	27.7°C (as of 11:00.3/23)	27.0°C (as of 11:00.3/23)	14.2°C (as of 11:00.3/23)
FPC skimmer surge tank level	2.49m (as of 11:00, 3/23)	3,59m (as of 11:00 , 3/23)	3.01m (as of 11/00 , 3/23)	41,43×100mm (as of 11:00 , 3/23)

As of 1:00 p.m. on March 23, 2017: about 14-23 °C

2. Impact to the surrounding environment (4/4)

- Analysis results of radioactive materials in seawater are monitored, and no significant changes have been observed after the investigation, compared to the before.
- Analysis results of radioactive materials in seawater around the Fukushima Daiichi Nuclear Power Station are available on the website.

Reference URL: http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/index-e.html



Concentration Limit Specified by the Rule: Concentration Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the concentration limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2)