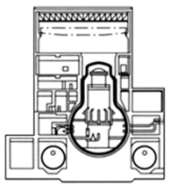
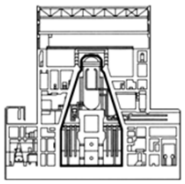
Attachment II-1

Overview of reactor facilities at the Fukushima Dai-ichi NPS

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Electric output (MWe)	460	784	784	784	784	1100
Thermal output (MWt)	1380	2381	2381	2381	2381	3293
Start of construction	Sep. 1967	May 1969	Oct. 1970	Sep. 1972	Dec. 1971	May 1973
Commissioning	Mar. 1971	Jul. 1974	Mar. 1976	Oct. 1978	Apr. 1978	Oct. 1979
Reactor type	BWR3	BWR4				BWR5
Reactor pressure vessel inside diameter (mm)	Approx. 4,800	Approx. 5,600	Approx. 5,570	Approx. 5,570	Approx. 5,570	Approx. 6,410
Reactor pressure vessel overall height (mm)	Approx. 20,000	Approx. 22,000	Approx. 22,000	Approx. 22,000	Approx. 22,000	Approx. 23,000
Reactor pressure vessel total weight (t)	Approx. 440	Approx. 500	Approx. 500	Approx. 500	Approx. 500	Approx. 750
Reactor pressure vessel design pressure (*1)	Approx. 8.62 MPa [gage] (87.9 kg/cm2 [gage])	Approx. 8.62 MPa [gage] (87.9 kg/cm2 [gage])	Approx. 8.62 MPa [gage] (87.9 kg/cm2 [gage])	Approx. 8.62 MPa [gage] (87.9 kg/cm2 [gage])	Approx. 8.62 MPa [gage] (87.9 kg/cm2 [gage])	Approx. 8.62 MPa [gage] (87.9 kg/cm2 [gage])
Reactor pressure vessel design temperature (C)	302	302	302	302	302	302
Number of fuel assemblies	400	548	548	548	548	764
Number of high burnup 8x8 fuels	68	-	-	-	-	-
Number of 9x9 fuels (type A)	-	-	516	-	-	-
Number of 9x9 fuels (type B)	332	548	-	548	548	764
Number of MOX fuels	-	-	32	-	-	-
Effective fuel rod length (m)	Approx. 3.66	Approx. 3.71	Approx. 3.71	Approx. 3.71	Approx. 3.71	Approx. 3.71
Number of control rods	97	137	137	137	137	185
Containment type	Mark I					Mark II
						
Containment overall height (m)	32	34	34.1	34.1	34.1	48.0
Containment diameter (m)	17.7 (sphere) 9.6 (cylinder)	20.0 (sphere) 10.9 (cylinder)	20.0 (sphere) 10.9 (cylinder)	20.0 (sphere) 10.9 (cylinder)	20.0 (sphere) 10.9 (cylinder)	25.9
Pool water volume in suppression chamber (m3)	1,750	2,980	2,980	2,980	2,980	3,200
Containment design pressure (*1)	Approx. 0.43 MPa [gage] (4.35 kg/cm2 [gage])	Approx. 0.38 MPa [gage] (3.92 kg/cm2 [gage])	Approx. 0.38 MPa [gage] (3.92 kg/cm2 [gage])	Approx. 0.38 MPa [gage] (3.92 kg/cm2 [gage])	Approx. 0.38 MPa [gage] (3.92 kg/cm2 [gage])	Approx. 0.28 MPa [gage] (2.85 kg/cm2 [gage])
Containment design temperature (C)	138 (D/W) 138 (S/C)	138 (D/W) 138 (S/C)	138 (D/W) 138 (S/C)	138 (D/W) 138 (S/C)	138 (D/W) 138 (S/C)	171 (D/W) 105 (S/C)
Spent fuel pool volume (% full core)	225	225	225	290	290	230
Spent fuel pool working temperature (C)	≦65	≦65	≦65	≦65	≦65	≦65
Spent fuel pool length (north-south: parallel to coastline) (m)	Approx. 7.2	Approx. 9.9	Approx. 9.9	Approx. 9.9	Approx. 9.9	Approx. 10.4
Spent fuel pool width (east-west: vertical to coastline) (m)	Approx. 12.0	Approx. 12.2	Approx. 12.2	Approx. 12.2	Approx. 12.2	Approx. 12.0
Spent fuel pool depth (deepest part) (m)	Approx. 11.8	Approx. 11.8	Approx. 11.8	Approx. 11.8	Approx. 11.8	Approx. 11.8
Spent fuel pool volume (m3)	Approx. 1,020	Approx. 1,424	Approx. 1,425	Approx. 1,425	Approx. 1,425	Approx. 1,497
Stockable number of spent fuels in pool	900	1,240	1,220	1,590	1,590	1,770
Number of spent fuels stored in pool (end of Dec. 2010)	292	587	514	1,331 (including 548 fuels extracted inside the reactor)	946	876
Number of new fuels stored in pool (end of Dec. 2010)	100	28	52	204	48	64

*1: The unit used in the application for the reactor establishment permit was kg/cm2 [gage].

Source: Tokyo Electric Power Company, “The impact of Tohoku-Chihou Taiheiyo-Oki Earthquake to Nuclear Reactor Facilities at Fukushima Dai-ichi Nuclear Power Station,” September 2011

Attachment II-2

Principle of power generation by boiling water reactor (BWR)

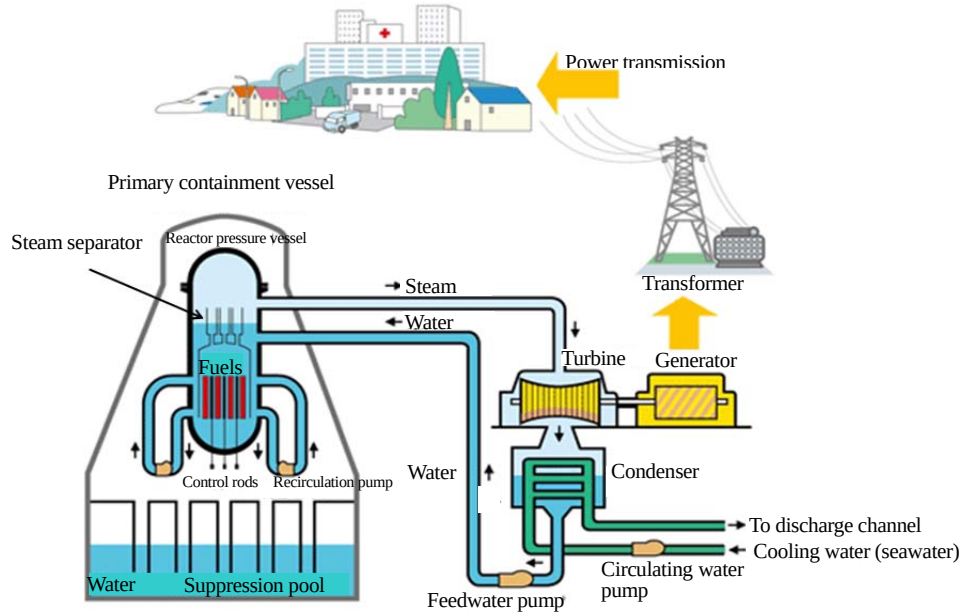
"Based on the link from the 'Disaster Prevention Network for Nuclear Environments' created by the Nuclear Safety Division, Ministry of Education, Culture, Sports, Science and Technology"

(1) Principle of nuclear power generation

All power reactors existing in Japan are so-called light water reactors. Light water means normal water, and water is used in light water reactors in order to cool reactors when extracting thermal energy. Light water reactors are divided into boiling water reactors (BWRs) and pressurized water reactors (PWRs). As of the end of February 2011, fifty-four power reactors are in operation in Japan. In a BWR, steam produced inside the reactor directly rotates the turbine of the generator.

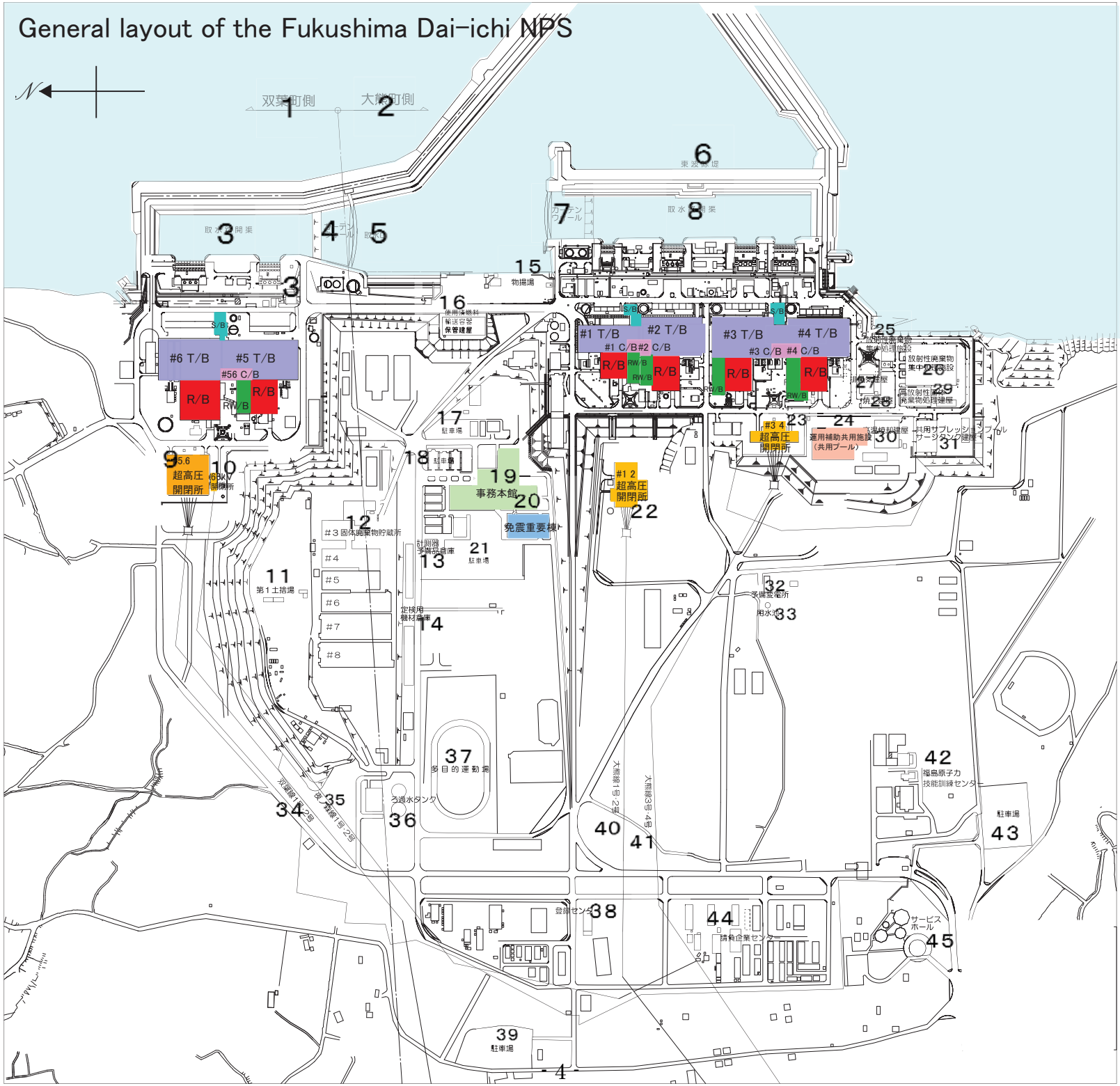
(2) Structure of boiling water reactor (BWR)

In a BWR, cooling water delivered by the feedwater pump and the recirculation pump flows along the fuel rods upward from the bottom of the reactor pressure vessel. Because the cooling water is heated by the fuel rods which are generating heat, the higher up it flows, the higher the water temperature becomes; it starts to boil along the way, emitting a mixture of water and steam upward. In a BWR whose electric output is comparable to 1,000,000 kW, the pressure of the cooling water is generally 7.0 MPa and the reactor exit stream temperature is 286 degrees Celsius in general. The steam separator located at the upper part of the reactor pressure vessel is to extract the steam from the boiling cooling water, and then, dry and deliver it to the turbine. The outline of a BWR nuclear power plant system is described in the figure below (the shape of the containment corresponds to that of Unit 6 in the Fukushima Daiichi Nuclear Power Station).



Based on 5-2, Graphical Flip-chart of “Nuclear & Energy Related Topics” 2011 by the Federation of Electric Power Companies of Japan

General layout of the Fukushima Dai-ichi NPS



Explanatory note

- R/B Reactor building
- T/B Turbine building
- RW/B Reactor waste treatment building
- C/B Control building
- S/B Service building
- Common auxiliary facilities (shared pool)
- Ultrahigh voltage switchyard
- Main office building
- Seismic isolation building

Attachment II-3

Based on data and documents by Tokyo Electric Power Company

福島第一原子力発電所　配置図：General layout of the Fukushima Daiichi NPS

図上部　左⇒右

①双葉町側：Futaba-machi
②大熊町側：Okuma-machi
③取水路開渠：Intake channel open ditch
④カーテンウォール：Curtain wall
⑤取水口：Water intake
⑥東波防堤：　East breakwater
⑦カーテンウォール：Curtain wall
⑧取水路開渠：Intake channel open ditch

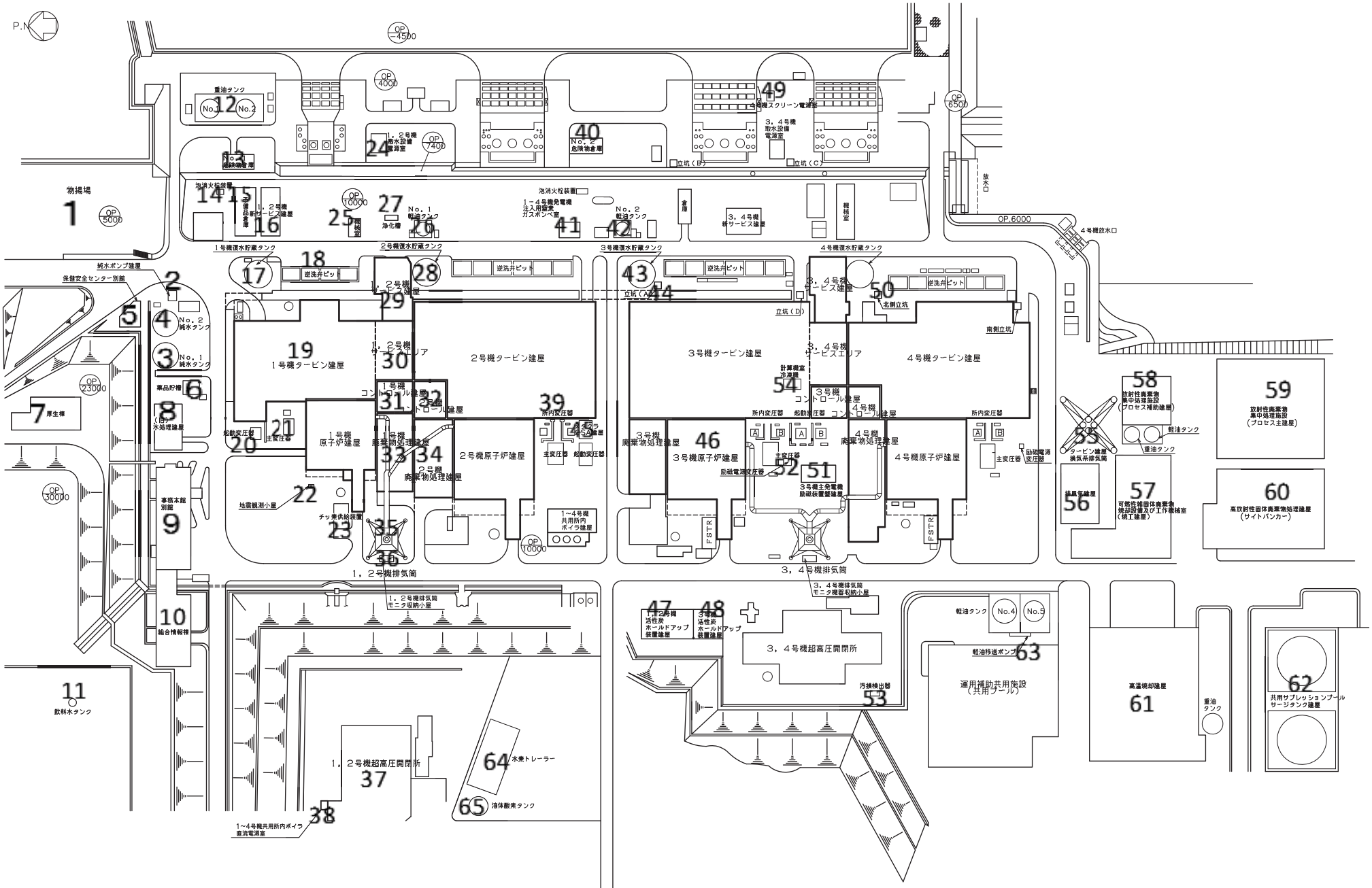
図中央部　左⇒右

⑨超高圧開閉所：Ultrahigh voltage switchyard
⑩66ＫＶ開閉所：66 kV switching station
⑪第１土捨場：1st Spoil bank
⑫固体廃棄物貯蔵所：Solid waste storage
⑬計測器予備品倉庫：Storage for measurement equipment and spare items
⑭定検用機材倉庫：Storage for regular inspection equipment
⑮物揚場：Shallow draft quay
⑯使用済燃料輸送容器保管建屋：Spent fuel transportation cask storage building
⑰駐車場：Parking space
⑱駐車場：Parking space
⑲事務本館：Main office building
⑳免震重要棟：Seismic isolation building
㉑駐車場：Parking space
㉒超高圧開閉所：Ultrahigh voltage switchyard
㉓超高圧開閉所：Ultrahigh voltage switchyard
㉔運用補助共用施設(共用プール)：Common auxiliary facilities (shared pool)
㉕放射性廃棄物集中処理施設：Centralized radioactive waste treatment facilities
㉖放射性廃棄物集中処理施設：Centralized radioactive waste treatment facilities
㉗排風気建屋：Air-exhaust ventilation building
㉘焼工建屋：Combustion building
㉙高放射性固体廃棄物処理建屋：High activity solid waste treatment building
㉚高温焼却建屋：High temperature incineration building

㉛共用サプレッションプールサージタンク建屋：Common suppression pool surge tank building
㉜予備変電所：Auxiliary substation
㉝用水池：Reservoir

図下部　左⇒右
㉞双葉線 1 号・2 号：Futaba Transmission Line, L1 and L2
㉟夜ノ森線 1 号・2 号：Yorunomori Transmission Line, L1 and L2
㊱ろ過水タンク：Filtrate tank
㊲多目的運動場：Multi-purpose athletic field
㊳登録センター：Registration center
㊴駐車場：Parking space
㊵大熊線 1 号・2 号：Okuma Transmission Line, L1 and L2
㊶大熊線 3 号・4 号：　Okuma Transmission Line, L3 and L4
㊷福島原子力技能訓練センター：Skills Training Center
㊸駐車場：Parking space
㊹請負企業センター：Contractor center
㊺サービスホール：Service hall

Plant layout for Units 1 to 4 of the Fukushima Dai-ichi NPS



Based on data and documents by
Tokyo Electric Power Company

Attachment II - 4

Attachment II-4: Plant layout for Units 1 to 4 of the Fukushima Dai-ichi NPS

①物揚場：Shallow draft quay

②純水ポンプ建屋：Pure water pump building

③No.1 純水タンク：Deionized water tank 1

④No.2 純水タンク：Deionized water tank 2

⑤保健安全センター別館：Annex of the health and safety center

⑥薬品貯槽：Chemical storage

⑦厚生棟：Welfare building

⑧（旧）水処理建屋：(Former) Water treatment building

⑨事務本館別館：Annex of the main office building

⑩総合情報等：General information building

⑪飲料水タンク：Drinking water tank

⑫重油タンク：Heavy oil tank

⑬No.1 危険物倉庫：Dangerous object storage No. 1

⑭泡消火栓装置：Foam fire extinguishing equipment

⑮予備品倉庫：Spare item storage

⑯新サービス建屋：Units 1 and 2 new service building

⑰1 号機復水貯蔵タンク: Unit 1condensate storage tank

⑱逆洗弁ピット：Reversing valve pit

⑲1 号機タービン建屋：Unit 1 turbine building

⑳起動変圧器：Startup transformer

㉑主変圧器：Main transformer

㉒地震観測小屋:Seismic observatory

㉓窒素供給装置:Nitrogen-supplying device

㉔1，2 号機取水設備電源室:Power room for the water intake facility for Units 1 and 2

㉕機械室:Machine room

㉖No.1 軽油タンク：Light oil tank No. 1

㉗浄化槽:Septic tank

㉘2 号機復水貯蔵タンク：Unit 2 condensate storage tank

㉙1，2 号機サービス建屋:Units 1 and 2 service building

㉚1，2 号機サービスエリア：Units 1 and 2 service area

㉛1 号機コントロール建屋：Unit 1 control building

㉜2 号機コントロール建屋：Unit 2 control building

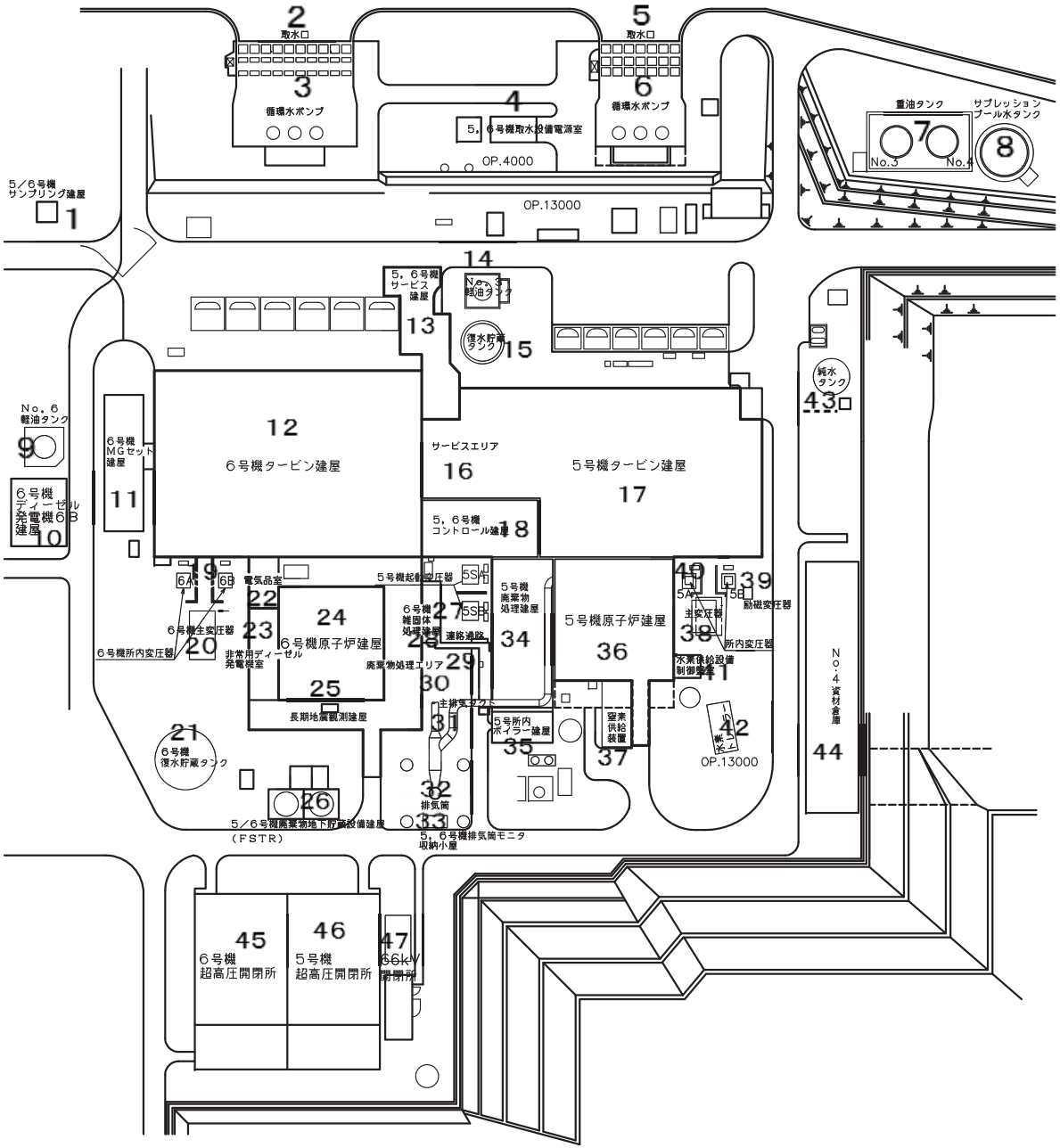
㉝1 号機廃棄物処理建屋：Unit 1 waste treatment building

㉞2 号機廃棄物処理建屋：Unit 2 waste treatment building

㉟1，2 号機排気筒：Stack for Units 1 and 2

㊱1，2 号機排気筒モニタ収納小屋：Monitoring equipment chamber for Units 1 and 2 stack
㊲1，2 号機超高圧開閉所　Ultrahigh voltage switching station for Units 1 and 2
㊳1～4 号機共用所内ボイラ直流電源室：DC power supply room for the common station-service boiler for Units 1-4
㊴所内変圧器：Auxiliary transformer
㊵No.2 危険物倉庫：Dangerous object storage No.2
㊶1～4 号機発電機注入用窒素ガスボンベ室：Nitrogen gas cylinder room for Units 1 to 4 generators
㊷No.2 軽油タンク Light oil tank No.2
㊸3 号機復水貯蔵タンク:　Unit 3 condensate storage tank
㊹立坑：Shaft
㊺メタクラ２ＳＡ建屋：Metal clad switch gear 2SA building
㊻3 号機原子炉建屋：Unit 3 reactor building
㊼1，2 号機活性炭ホールドアップ装置建屋：Units 1 and 2 charcoal building
㊽３号機活性炭ホールドアップ装置建屋：Unit 3 charcoal building
㊾4 号機スクリーン電源室：Power room of Unit 4 screen
㊿北側立坑：North shaft
(51)3 号機主発電機励磁装置盤建屋：Building for the energizing device of Unit 3 main generator
(52)励磁電源変圧器：Energizing power transformer
(53)汚損検出器：Contamination detector
(54)計算機室冷凍機：Computer room cooler
(55)タービン建屋換気系排気筒：Stack for the turbine building ventilation system
(56)排風気建屋：Air-exhaust ventilation building
(57)可燃性雑固体廃棄物焼却設備及び工作機械室（焼工建屋）：Miscellaneous flammable solid waste combustor and engineering machine room (combustion room)
(58)放射性廃棄物集中処理施設(プロセス補助建屋):Central radioactive waste treatment facilities (auxiliary processing building)
(59)放射性廃棄物集中処理施設（プロセス主建屋）：Central radioactive waste treatment facilities (main processing building)
(60)高放射線性固体廃棄物処理建屋（サイトバンカー）：High activity waste treatment building (side bunker)
(61)高温焼却建屋：High temperature incineration building
(62)共用サプレッションプールサージタンク建屋 : Common suppression pool surge tank building
(63)軽油移送ポンプ：Light oil transfer pump
(64)水素トレーラー：Hydrogen trailer
(65)液体酸素タンク：Liquid oxygen tank

Plant layout for Units 5 and 6 of the Fukushima Dai-ichi NPS



Created by Tokyo Electric Power Company

福島第一原子力発電所５号機及び６号機　配置図：Plant layout for Units 5 and 6 of the Fukushima Dai-ichi NPS

図上部　左⇒右

①５／６号機サンプリング建屋：Units 5 and 6 sampling building
②取水口：Water intake
③循環水ポンプ：Circulating water pump
④５，６号機取水設備電源室：Power room for Units 5 and 6 intake facilities
⑤取水口：Water intake
⑥循環水ポンプ：Circulating water pump
⑦重油タンク：Heavy oil tanks
⑧サプレッションプール水タンク：Suppression pool water tank

図中央部　左⇒右

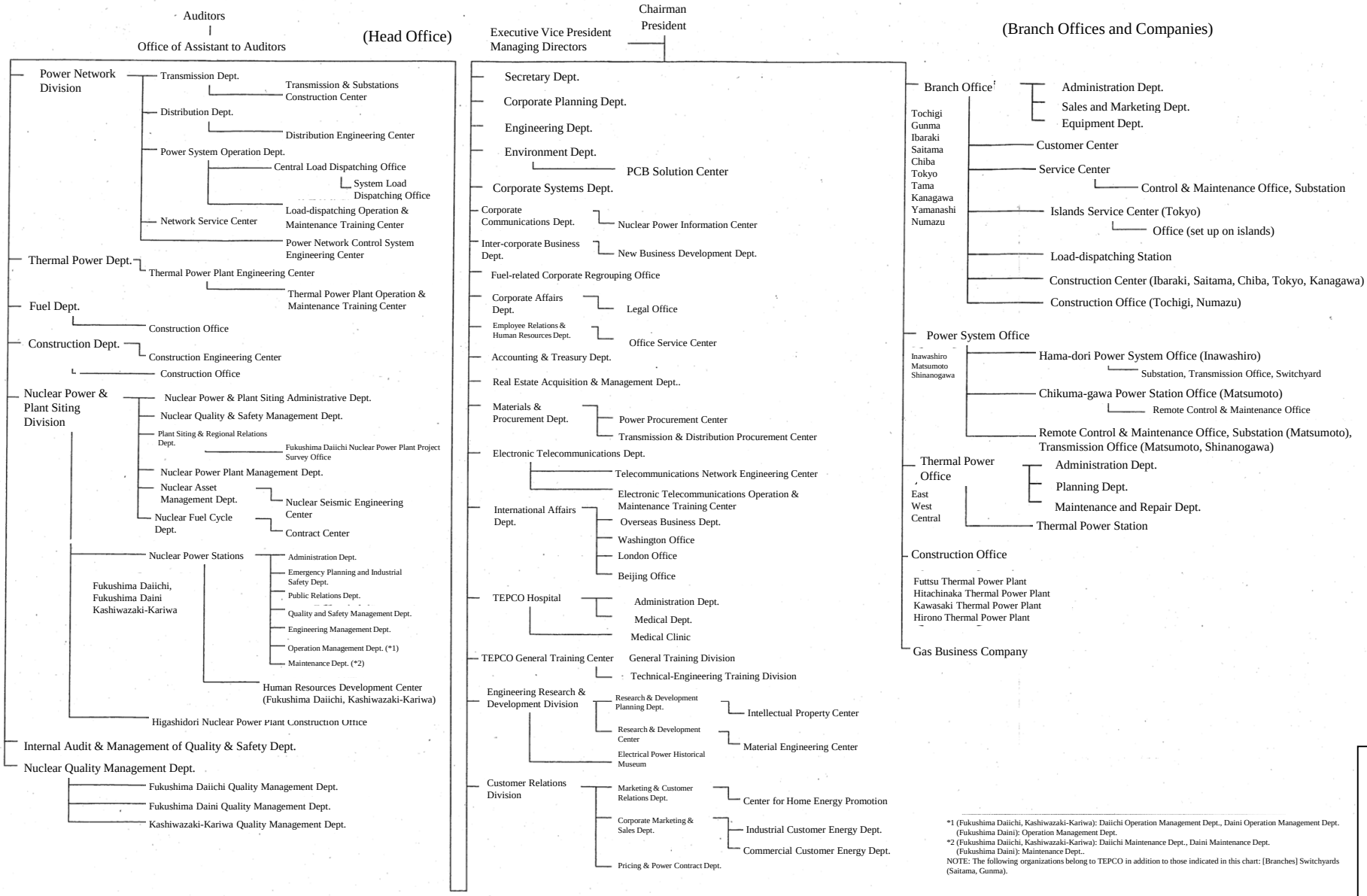
⑨Ｎｏ．６軽油タンク：Light oil tank No. 6
⑩６号機ディーゼル発電機建屋：Unit 6 diesel generator building
⑪６号機ＭＧセット建屋：Unit 6 MG set building
⑫６号機タービン建屋：Unit 6 turbine building
⑬５，６号機サービス建屋　：Units 5 and 6 service building
⑭Ｎｏ．３軽油タンク：Light oil tank No. 3
⑮復水貯蔵タンク：Condensate storage tank
⑯サービスエリア：Service area
⑰５号機タービン建屋：　Unit 5 turbine building
⑱５，６号機コントロール建屋：Units 5 and 6 control building
⑲６号機所内変圧器：Unit 6 auxiliary transformers
⑳６号機主変圧器：Unit 6 main transformer
㉑６号機復水貯蔵タンク：Unit 6 condensate storage tank
㉒電気品室：Electrical item room
㉓非常用ディーゼル発電機室：Emergency diesel generator room
㉔６号機原子炉建屋：Unit 6 reactor building
㉕長期地震観測建屋：Long-term seismic observation building
㉖５／６号機廃棄物地下貯蔵設備建屋：Units 5 and 6 filter sludge tank room
㉗５号機起動変圧器：Unit 5 startup transformers
㉘６号機雑固体処理建屋：Unit 6 miscellaneous solid treatment building
㉙連絡通路：Passageway
㉚廃棄物処理エリア：Waste treatment area

㉛主排気ダクト：Main exhaust air duct
㉜排気筒：Stack
㉝５，６号機排気筒モニタ収納小屋：Monitoring equipment chamber for the stack of Units 5 and 6
㉞５号機廃棄物処理建屋：Unit 5 waste treatment building
㉟５号所内ボイラー建屋：Unit 5 auxiliary boiler building
㊱５号機原子炉建屋：Unit 5 reactor building
㊲窒素供給装置：Nitrogen-supplying device
㊳主変圧器：Main transformer
㊴励磁変圧器：Energizing transformer
㊵所内変圧器：Auxiliary transformers
㊶水素供給設備制御盤室：Hydrogen-supplying facility control board room
㊷水素トレーラー：Hydrogen trailer
㊸純水タンク：Demineralized water tank
㊹Ｎｏ．４資材倉庫：Material storage No.4

図下部　左⇒右

㊺６号機超高圧開閉所：Ultrahigh voltage switching station for Unit 6
㊻５号機超高圧開閉所：Ultrahigh voltage switching station for Unit 5
㊼６６ＫＶ開閉所：66kv switching station

TEPCO Organization Chart



*1 (Fukushima Daiichi, Kashiwazaki-Kariwa): Daiichi Operation Management Dept., Daini Operation Management Dept. (Fukushima Daini): Operation Management Dept.
*2 (Fukushima Daiichi, Kashiwazaki-Kariwa): Daiichi Maintenance Dept., Daini Maintenance Dept. (Fukushima Daini): Maintenance Dept..
NOTE: The following organizations belong to TEPCO in addition to those indicated in this chart: [Branches] Switchyards (Saitama, Gunma).

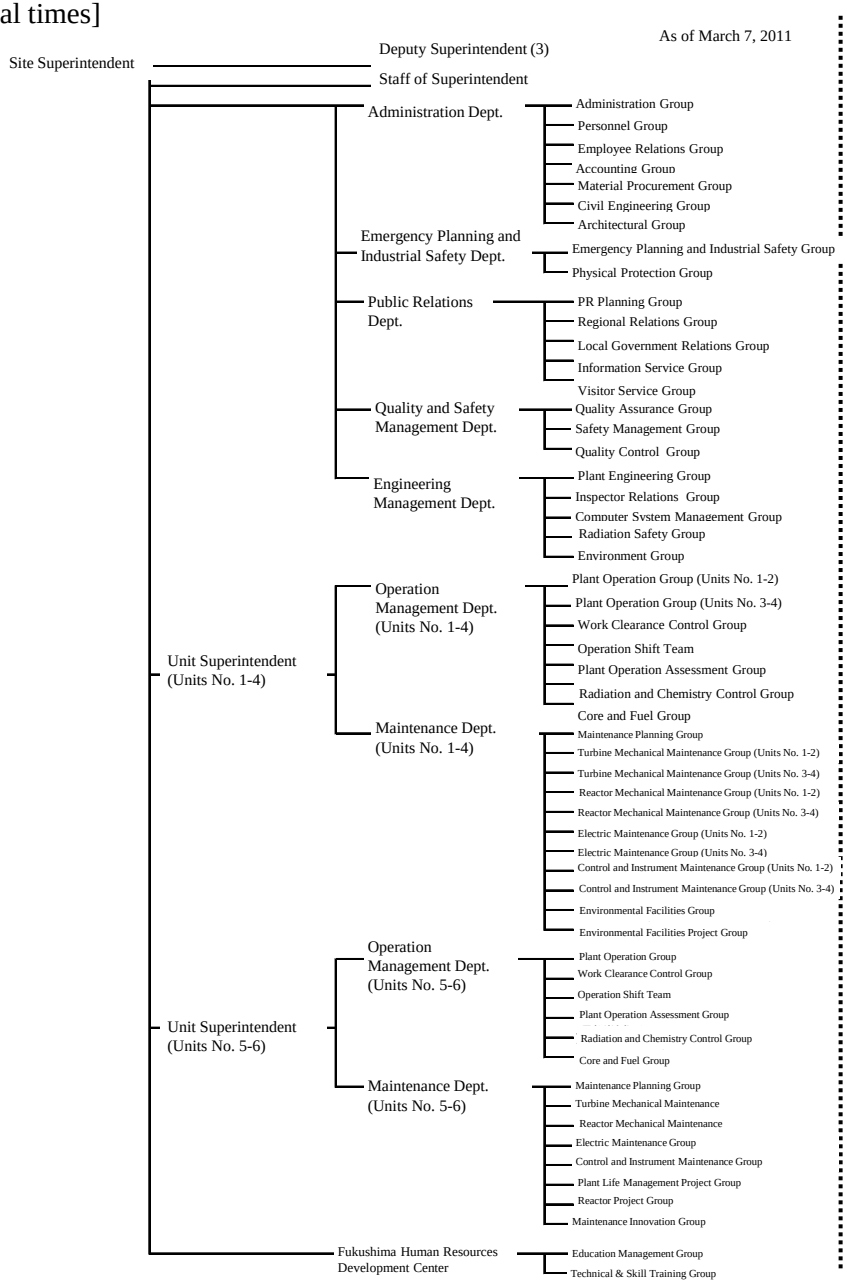
Created by Tokyo Electric Power Company

Attachment II-5

TEPCO organization at the Fukushima Dai-ichi NPS

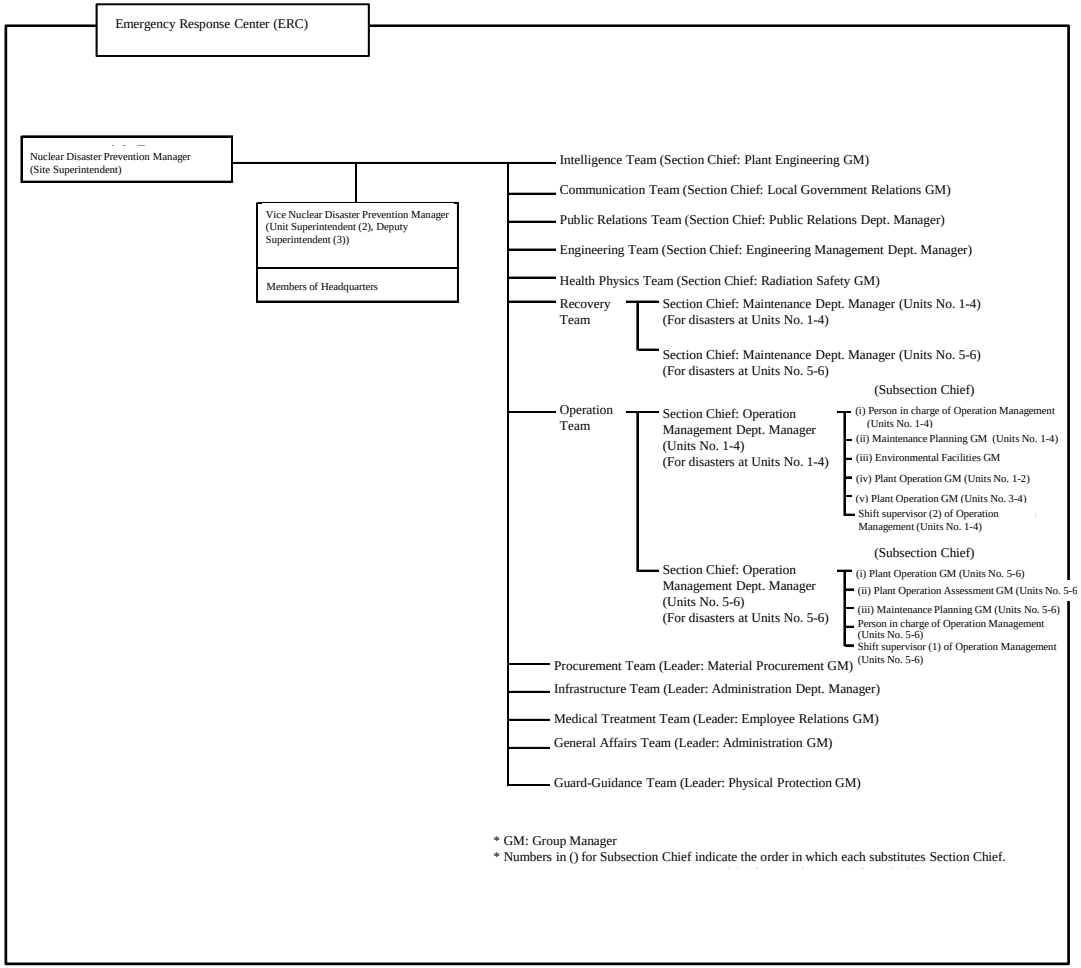
[At normal times]

As of March 7, 2011



[In a First Level Emergency] (after warning of an event specified in Article 10 of the Act on Special Measures concerning Nuclear Emergency Preparedness)
[In a Second Level Emergency] (after the occurrence of a situation specified in Section 1, Article 15 of the abovementioned Act)

As of February 1, 2011

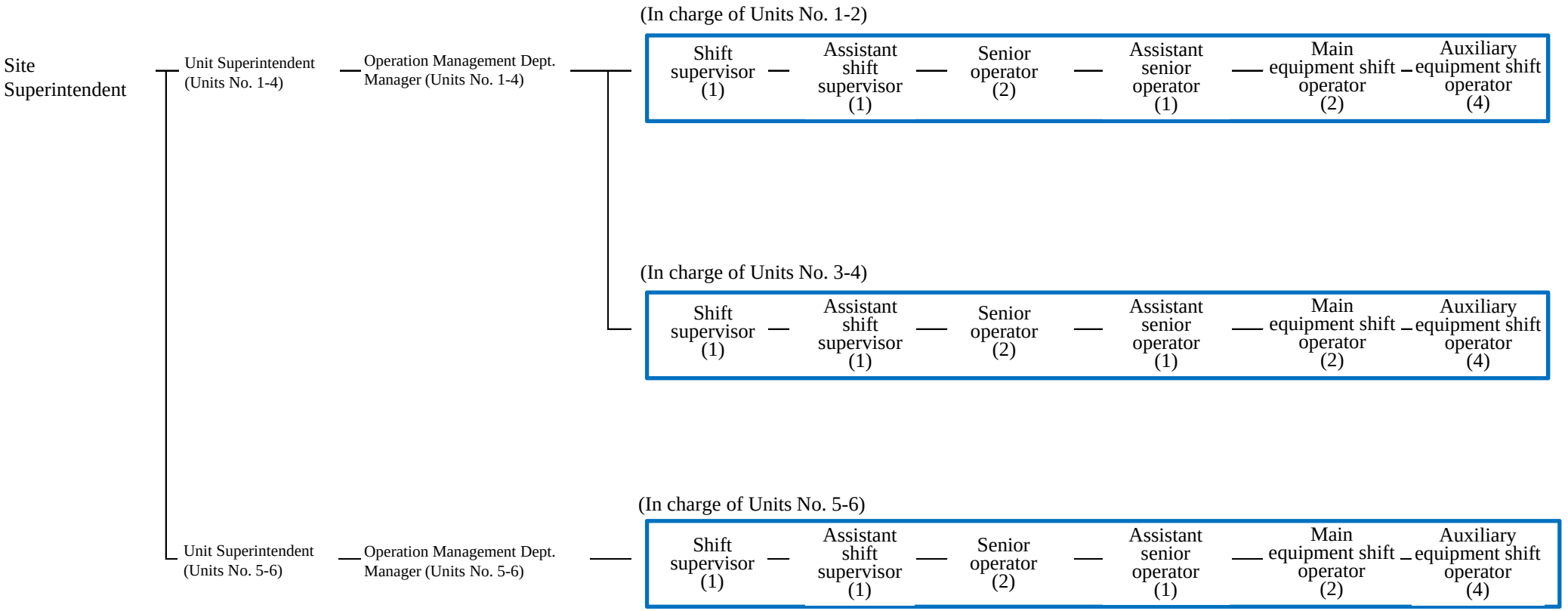


* GM: Group Manager
* Numbers in () for Subsection Chief indicate the order in which each substitutes Section Chief.

Based on data and documents by Tokyo Electric Power Company

Attachment II-6

Shift arrangements at the Fukushima Dai-ichi NPS

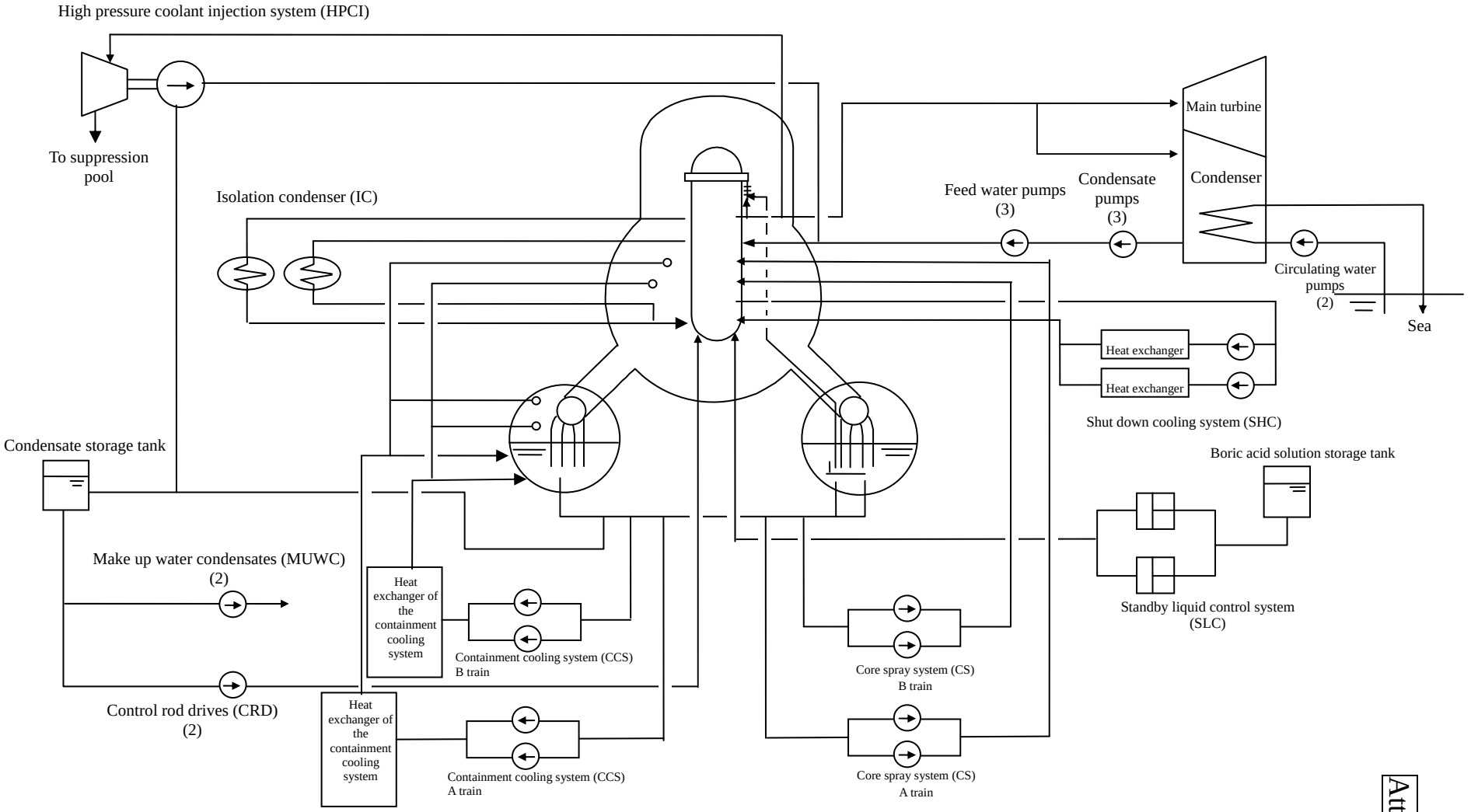


*1 One dedicated senior operator and main equipment shift operator are assigned to each plant.

*2 The number of operation shift team members may change depending on the circumstances at the relevant plant.

Based on the “Third Report on Regular Safety Review of the Fukushima Dai-ichi Nuclear Power Station Unit No.1” (November 2010) by Tokyo Electric Power Company

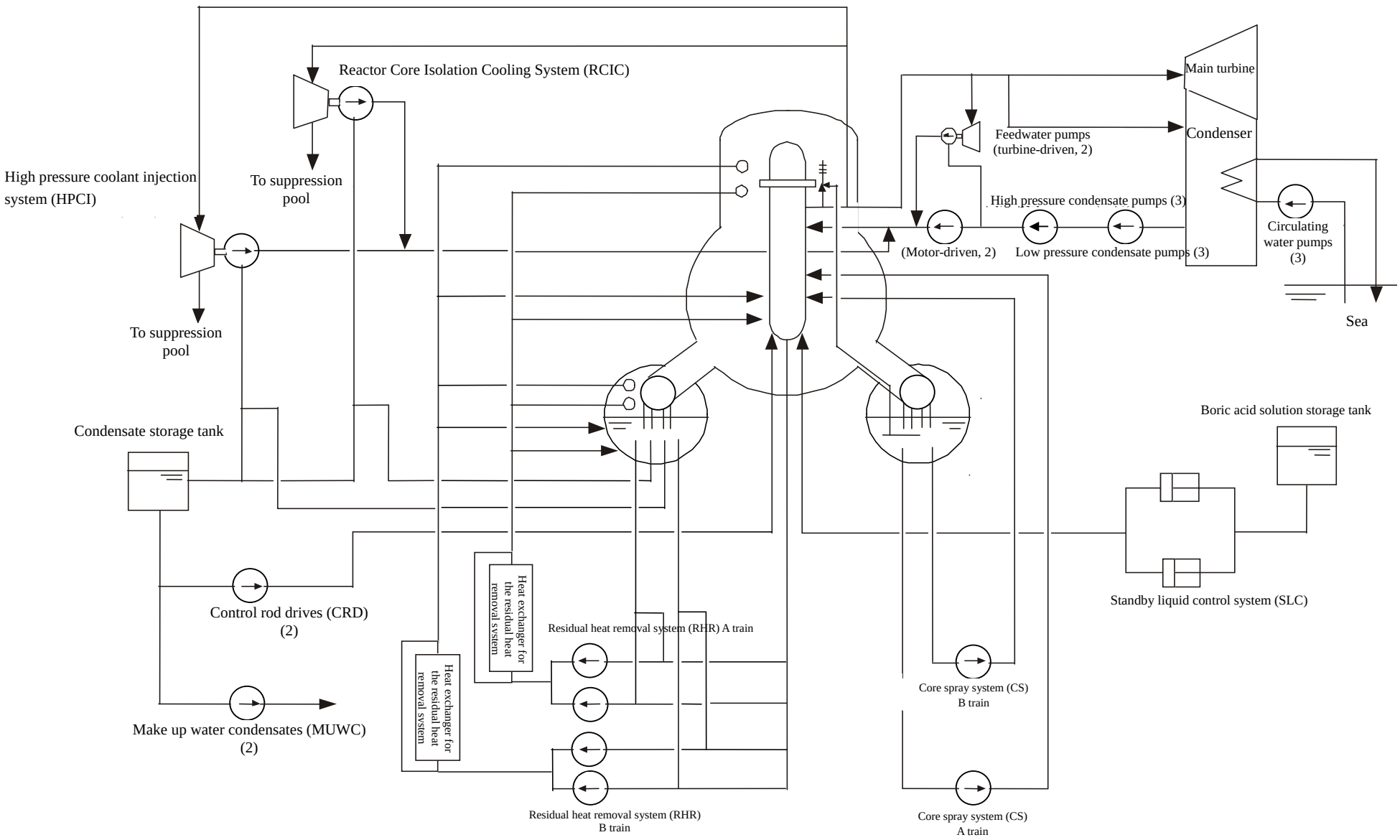
Attachment II-7



Reactor system configuration at Unit 1 of the Fukushima Dai-ichi NPS

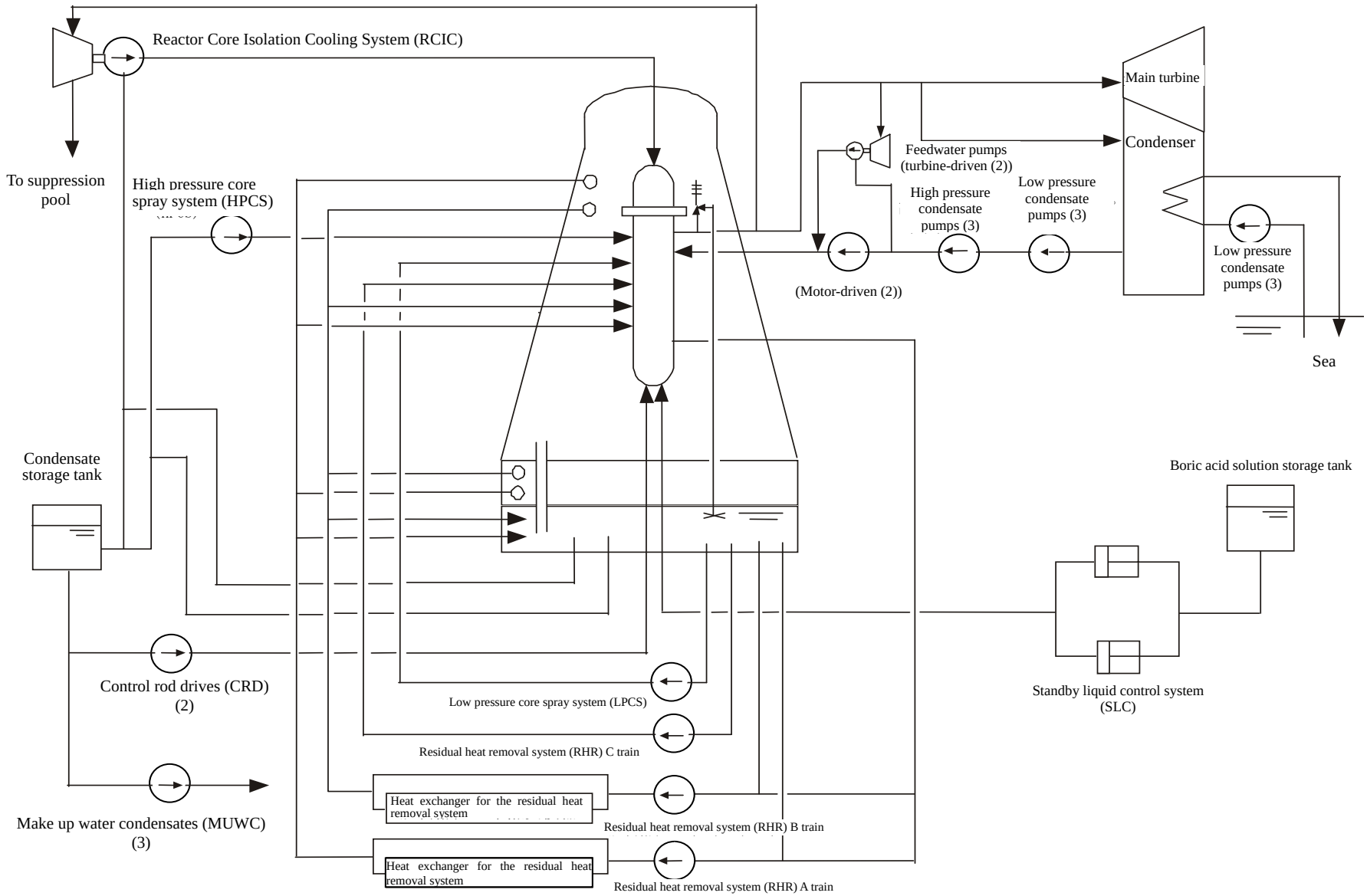
Source: Tokyo Electric Power Company, "Report on Accident Management Preparation at the Fukushima Dai-ichi Nuclear Power Station," May 2002

Attachment II-8



Reactor system configuration at Units 2 to 5 of the Fukushima Dai-ichi NPS

Source: Tokyo Electric Power Company, "Report on Accident Management Preparation at the Fukushima Dai-ichi Nuclear Power Station," May 2002



Reactor system configuration at Unit 6 of the Fukushima Dai-ichi NPS

Source: Tokyo Electric Power Company, “Report on Accident Management Preparation at the Fukushima Dai-ichi Nuclear Power Station,” May 2002

Prefecture	Personnel damage (number of persons)			Property damage (number of buildings)								
	Killed	Missing	Injured	Complete collapse	Partial collapse	Swept out	Total burn down	Partial burn down	Inundated above floor level	Inundated below floor level	Partial damage	Non-dwelling houses
Hokkaido	1		3		4				329	545	7	469
Aomori	3	1	61	311	853						121	1,194
Iwate	4,665	1,409	188	20,184	4,551		15		1,761	323	7,291	4,148
Miyagi	9,504	1,913	4,013	78,451	100,663		135		7,053	11,009	190,971	27,819
Akita			12								3	3
Yamagata	2		29	37	80							
Fukushima	1,605	221	241	18,432	57,850		77	3	62	339	133,492	1,071
Tokyo	7		90		11		3				257	20
Ibaraki	24	1	707	3,203	23,247		31		1,609	722	162,918	12,465
Tochigi	4		132	265	2,042						67,604	295
Gunma	1		38		7						16,154	195
Saitama			42	22	193		1	1		1	1,800	33
Chiba	20	2	251	783	9,221		15		153	720	34,237	660
Kanagawa	4		132		38						405	24
Niigata			3								9	7
Yamanashi			2								4	
Nagano			1									
Shizuoka			4							7	4	
Mie			1						2			9
Tokushima									2	9		
Kochi			1						2	8		
Total	15,840	3,547	5,951	121,688	198,760		281		10,973	13,683	615,277	48,412

Overview of damage caused by the Tohoku District - off the Pacific Ocean Earthquake and the ensuing tsunami (according to the latest information as of 16:00, December 1, 2011)

Based on the document (as of December 1, 2011) by the Emergency Disaster Countermeasures Headquarters, National Police Agency of Japan

Attachment II-9

Attachment II-10

Earthquake and tsunami data from the Japan Meteorological Agency

Date	Time	Information on hypocenter, magnitude, seismic intensity, tsunami, etc.		
		Hypocenter	Magnitude	Seismic intensity (Futabamachi, Fukushima)
March 11	14:46	Off the coast of Sanriku	9.0	Intensity 6 upper
	14:49	"Major tsunami warnings" were issued. (Fukushima Prefecture)		
	14:50	"The estimated arrival time of the tsunami" was announced as "15:10 with a projected height of 3 m		
	14:51	Off the coast of Fukushima Prefecture	6.8	4
	14:54	Off the coast of Fukushima Prefecture	5.8	4
	14:55	Off the coast of Ibaraki Prefecture	5.8	3
	14:58	Off the coast of Fukushima Prefecture	6.4	4
	(14:--)*	1.2 m backwash was observed in Soma point, Fukushima Prefecture.		
	15:05	Off the coast of Fukushima Prefecture	5.9	4
	15:06	Off the coast of Iwate Prefecture	6.4	3
	15:11	Northen Ibaraki Prefecture	5.6	2
	15:12	Off the coast of Fukushima Prefecture	6.1	4
	15:14	The announcement was made that "a tsunami arrived at the estimated arrival time with a projected height of 6 meters." (Fukushima Prefecture).		
	15:15	Off the coast of Ibaraki Prefecture	7.7	4
	15:25	Off the coast of Sanriku	7.5	3
	15:29	Off the coast of Sanriku	6.8	2
	15:31	The announcement was made that "a tsunami arrived at the estimated arrival time with a projected height of 10 meters." (Fukushima Prefecture)		
	15:38	Off the coast of Ibaraki Prefecture	5.5	2
	15:40	Off the coast of Iwate Prefecture	5.7	2
	15:44	Off the coast of Miyagi Prefecture	5.3	2
	15:46	Off the coast of Miyagi Prefecture	5.6	2
	15:48	Off the coast of Miyagi Prefecture	5.4	2
	15:49	Off the coast of Iwate Prefecture	5.8	2
	15:51	A tsunami water level of 9.3 m or higher was observed in Soma point, Fukushima Prefecture. (Announced by the Japan Meteorological Agency on April 13.)		
	15:57	Off the coast of Ibaraki Prefecture	6.1	3
	15:59	Off the coast of Fukushima Prefecture	6.7	2
	16:04	Off the coast of Miyagi Prefecture	5.8	2
	16:10	Off the coast of Fukushima Prefecture	6.0	2
	16:14	Off the coast of Ibaraki Prefecture	6.7	3
	16:16	Off the coast of Fukushima Prefecture	5.4	3
	16:22	Off the coast of Fukushima Prefecture	4.4	1
	16:25	Off the coast of Sanriku	6.4	2
	16:29	Off the coast of Iwate Prefecture	6.5	Intensity 5 lower
	16:34	Off the coast of Miyagi Prefecture	6.2	2
	16:36	Off the coast of Miyagi Prefecture	5.0	1

Date	Time	Information on hypocenter, magnitude, seismic intensity, tsunami, etc.		
		Hypocenter	Magnitude	Seismic intensity (Futabamachi, Fukushima)
March 11	16:40	Off the coast of Miyagi Prefecture	5.5	1
	16:54	Off the coast of Fukushima Prefecture	5.5	3
	17:05	Off the coast of Fukushima Prefecture	5.8	3
	17:12	Off the coast of Ibaraki Prefecture	6.6	3
	17:19	Off the coast of Ibaraki Prefecture	6.8	3
	17:31	Off the coast of Fukushima Prefecture	5.9	4
	17:35	Off the coast of Ibaraki Prefecture	5.2	2
	17:40	Off the coast of Fukushima Prefecture	6.1	4
	17:47	Off the coast of Fukushima Prefecture	6.0	2
	17:54	Off the coast of Fukushima Prefecture	4.8	1
	18:04	Off the coast of Ibaraki Prefecture	5.4	2
	18:15	Off the coast of Fukushima Prefecture	4.8	2
	18:19	Off the coast of Ibaraki Prefecture	5.0	1
	18:27	Off the coast of Miyagi Prefecture	5.3	2
	18:34	Off the coast of Fukushima Prefecture	4.8	2
	18:37	Off the coast of Ibaraki Prefecture	5.4	1
	18:42	Off the coast of Sanriku	5.6	1
	18:47	Off the coast of Sanriku	5.7	1
	18:52	Off the coast of Fukushima Prefecture	4.8	3
	18:55	Off the coast of Ibaraki Prefecture	5.3	2
	18:57	Off the coast of Ibaraki Prefecture	4.7	1
	18:59	Off the coast of Fukushima Prefecture	5.0	1
	19:10	Off the coast of Iwate Prefecture	6.2	2
	19:13	Off the coast of Miyagi Prefecture	5.3	1
	19:21	Off the coast of Fukushima Prefecture	5.5	3
	19:35	Off the coast of Fukushima Prefecture	5.0	2
	19:39	Off the coast of Miyagi Prefecture	4.9	1
	19:46	Off the coast of Ibaraki Prefecture	4.9	2
	20:00	Off the coast of Fukushima Prefecture	5.5	3
	20:07	Off the coast of Ibaraki Prefecture	4.7	2
	20:13	Off the coast of Ibaraki Prefecture	5.8	2
	20:17	Off the coast of Fukushima Prefecture	5.7	2
	20:20	Off the coast of Ibaraki Prefecture	5.7	2
	20:31	Southern Miyagi Prefecture	5.2	2
	20:36	Off the coast of Iwate Prefecture	6.7	3
	20:39	Off the coast of Miyagi Prefecture	5.5	2
	20:46	Off the coast of Ibaraki Prefecture	5.4	2
	20:56	Off the coast of Ibaraki Prefecture	5.4	1
	20:57	Off the coast of Iwate Prefecture	5.4	1

Date	Time	Information on hypocenter, magnitude, seismic intensity, tsunami, etc.		
		Hypocenter	Magnitude	Seismic intensity (Futabamachi, Fukushima)
March 11	21:13	Off the coast of Fukushima Prefecture	6.1	3
	21:15	Off the coast of Iwate Prefecture	5.9	2
	21:21	Off the coast of Fukushima Prefecture	4.9	3
	21:33	Off the coast of Sanriku	5.2	1
	21:49	Off the coast of Ibaraki Prefecture	5.2	2
	21:55	Off the coast of Miyagi Prefecture	5.1	3
	22:17	Off the coast of Ibaraki Prefecture	5.7	2
	22:33	Off the coast of Fukushima Prefecture	4.5	1
	22:34	Off the coast of Ibaraki Prefecture	5.6	1
	22:47	Off the coast of Fukushima Prefecture	4.7	1
	22:56	Off the coast of Fukushima Prefecture	5.3	2
	23:00	Off the coast of Ibaraki Prefecture	5.4	2
	23:10	Off the coast of Fukushima Prefecture	5.1	2
	23:44	Off the coast of Ibaraki Prefecture	4.9	2
	23:54	Off the coast of Ibaraki Prefecture	5.9	3
12-Mar	0:06	Off the coast of Fukushima Prefecture	5.3	2
	0:13	Off the coast of Ibaraki Prefecture	6.6	3
	0:15	Off the coast of Ibaraki Prefecture	5.4	2
	0:19	Off the coast of Ibaraki Prefecture	6.2	3
	0:24	Northern Gunma Prefecture	4.3	1
	0:26	Off the coast of Fukushima Prefecture	5.0	1
	0:32	Off the coast of Fukushima Prefecture	5.3	1
	0:42	Off the coast of Ibaraki Prefecture	5.5	1
	0:51	Off the coast of Fukushima Prefecture	5.2	1
	1:49	Off the coast of Ibaraki Prefecture	4.7	1
	1:57	Off the coast of Miyagi Prefecture	4.8	1
	2:30	Off the coast of Fukushima Prefecture	5.0	3
	2:56	Off the coast of Fukushima Prefecture	4.4	3
	3:11	Off the coast of Fukushima Prefecture	6.0	3
	3:44	Off the coast of Fukushima Prefecture	5.0	2
	3:59	Northern Nagano Prefecture	6.7	3
	4:02	Off the coast of Sanriku	6.3	2
	4:08	Off the coast of Ibaraki Prefecture	5.2	2
	4:09	Northern Nagano Prefecture	4.5	1
	4:16	Off the coast of Fukushima Prefecture	4.1	1
	4:24	Off the east coast of Chiba Prefecture	5.7	2
	4:31	Northern Nagano Prefecture	5.9	2
	4:45	Off the coast of Fukushima Prefecture	5.2	3
	4:46	Off the coast of Akita Prefecture	6.4	1

Date	Time	Information on hypocenter, magnitude, seismic intensity, tsunami, etc.		
		Hypocenter	Magnitude	Seismic intensity (Futabamachi, Fukushima)
12-Mar	5:11	Off the coast of Sanriku	6.4	2
	5:25	Off the coast of Fukushima Prefecture	4.9	2
	5:34	Off the coast of Fukushima Prefecture	5.0	2
	6:34	Off the coast of Fukushima Prefecture	4.8	3
	8:11	Hamadori, Fukushima Prefecture	4.6	2
	8:54	Off the coast of Fukushima Prefecture	5.0	2
	8:59	Off the coast of Ibaraki Prefecture	5.5	2
	9:25	Off the coast of Fukushima Prefecture	4.9	2
	10:04	Off the coast of Miyagi Prefecture	4.8	2
	10:12	Hamadori, Fukushima Prefecture	4.8	2
	10:13	Off the coast of Fukushima Prefecture	4.7	3
	10:35	Off the coast of Sanriku	5.8	1
	10:46	Off the coast of Fukushima Prefecture	5.2	2
	10:47	Off the coast of Fukushima Prefecture	6.8	3
	11:34	Off the coast of Fukushima Prefecture	5.2	2
	11:52	Off the coast of Fukushima Prefecture	5.0	2
	12:12	Off the coast of Ibaraki Prefecture	5.6	2
	13:06	Off the coast of Miyagi Prefecture	5.3	2
	14:14	Northen Ibaraki Prefecture	4.9	1
	14:45	Off the coast of Fukushima Prefecture	4.5	2
	15:18	Off the coast of Iwate Prefecture	5.5	2
	15:44	Off the coast of Ibaraki Prefecture	4.7	1
	16:36	Off the coast of Fukushima Prefecture	4.7	2
	19:53	Off the coast of Miyagi Prefecture	5.8	2
	20:20	"Major tsunami warnings" were changed to "tsunami warnings." (Fukushima Prefecture)		
	21:54	Off the coast of Sanriku	5.9	2
	22:15	Off the coast of Fukushima Prefecture	6.2	4
	22:24	Off the coast of Miyagi Prefecture	4.8	1
	23:14	Off the coast of Ibaraki Prefecture	5.2	1
	23:33	Off the coast of Ibaraki Prefecture	4.3	1
	23:43	Off the coast of Iwate Prefecture	5.9	2
13-Mar	3:09	Off the coast of Fukushima Prefecture	4.5	3
	5:41	Off the coast of Fukushima Prefecture	4.7	2
	6:58	Off the coast of Iwate Prefecture	5.4	1
	7:13	Off the coast of Fukushima Prefecture	6.0	3
	7:30	"Tsunami warnings" were changed to "tsunami advisories." (Fukushima Prefecture)		
	7:59	Off the coast of Fukushima Prefecture	4.4	2
	8:24	Off the coast of Miyagi Prefecture	6.2	4
	8:41	Off the coast of Fukushima Prefecture	5.2	1

Date	Time	Information on hypocenter, magnitude, seismic intensity, tsunami, etc.		
		Hypocenter	Magnitude	Seismic intensity (Futabamachi, Fukushima)
13-Mar	9:41	Off the coast of Ibaraki Prefecture	4.5	1
	10:26	Off the coast of Ibaraki Prefecture	6.6	2
	14:59	Off the coast of Fukushima Prefecture	4.7	3
	17:58	"Tsunami advisories" were cancelled. (Fukushima Prefecture)		
	20:37	Off the coast of Fukushima Prefecture	6.0	3
	21:44	Off the coast of Fukushima Prefecture	4.7	2
14-Mar	2:04	Off the coast of Fukushima Prefecture	4.4	1
	2:55	Off the east coast of Chiba Prefecture	5.7	2
	4:27	Off the coast of Fukushima Prefecture	4.2	1
	8:41	Off the coast of Ibaraki Prefecture	4.7	2
	10:02	Off the coast of Ibaraki Prefecture	6.2	3
	13:45	Off the coast of Fukushima Prefecture	4.7	2
	15:12	Off the coast of Miyagi Prefecture	6.5	3
	15:18	Off the coast of Fukushima Prefecture	5.2	3
	15:52	Off the coast of Fukushima Prefecture	5.2	3
	16:25	Off the coast of Ibaraki Prefecture	4.8	1
	18:07	Off the coast of Ibaraki Prefecture	4.8	2
March 15	3:35	Off the coast of Fukushima Prefecture	4.3	2
	3:41	Off the coast of Ibaraki Prefecture	5.6	2
	4:28	Off the coast of Miyagi Prefecture	5.0	1
	16:03	Northen Ibaraki Prefecture	4.9	2
	16:48	Off the coast of Fukushima Prefecture	4.3	1
	18:50	Off the coast of Fukushima Prefecture	6.3	2
	20:06	Off the coast of Fukushima Prefecture	5.2	2
	22:27	Off the coast of Fukushima Prefecture	6.2	4
	22:31	Eastern Shizuoka Prefecture	6.4	2
	22:37	Off the coast of Fukushima Prefecture	5.3	2
March 16	5:53	Hamadori, Fukushima Prefecture	4.5	1
	12:23	Off the coast of Fukushima Prefecture	4.6	2
	12:52	Off the east coast of Chiba Prefecture	6.1	3
	13:14	Off the coast of Fukushima Prefecture	5.6	4
	15:29	Off the coast of Iwate Prefecture	5.6	2
	18:15	Off the coast of Fukushima Prefecture	4.6	2
	20:45	Off the coast of Fukushima Prefecture	4.4	2
	22:39	Southern Ibaraki Prefecture	5.4	2
	22:54	Off the coast of Fukushima Prefecture	4.6	3
	23:46	Off the coast of Miyagi Prefecture	5.3	2
March 17	3:56	Hamadori, Fukushima Prefecture	4.4	1
	4:00	Off the coast of Fukushima Prefecture	4.5	1

Date	Time	Information on hypocenter, magnitude, seismic intensity, tsunami, etc.		
		Hypocenter	Magnitude	Seismic intensity (Futabamachi, Fukushima)
March 17	13:13	Off the coast of Iwate Prefecture	5.9	2
	17:25	Off the coast of Ibaraki Prefecture	5.4	2
	20:48	Off the coast of Fukushima Prefecture	4.4	2
	21:35	Off the coast of Fukushima Prefecture	5.1	2
	21:54	Off the coast of Ibaraki Prefecture	5.7	3
March 18	3:38	Off the coast of Fukushima Prefecture	4.7	3
	3:55	Off the coast of Fukushima Prefecture	5.7	2
	6:18	Off the coast of Fukushima Prefecture	4.5	2
	11:48	Off the coast of Fukushima Prefecture	5.1	2
	17:01	Off the east coast of Chiba Prefecture	5.4	2
March 19	4:53	Off the coast of Fukushima Prefecture	5.1	2
	8:32	Off the coast of Iwate Prefecture	5.7	2
	8:49	Off the coast of Fukushima Prefecture	5.3	2
	18:56	Northen Ibaraki Prefecture	6.1	4
20-Mar	5:48	Off the coast of Fukushima Prefecture	4.5	2
	10:30	Off the coast of Fukushima Prefecture	5.5	3
20-Mar	14:19	Hamadori, Fukushima Prefecture	4.6	2
	14:55	Off the coast of Fukushima Prefecture	5.4	3
	21:03	Off the coast of Iwate Prefecture	5.9	2
21-Mar	4:54	Off the coast of Fukushima Prefecture	4.6	3
	4:59	Off the coast of Fukushima Prefecture	4.2	3
	5:05	Off the coast of Fukushima Prefecture	4.5	2
	8:43	Off the coast of Fukushima Prefecture	4.6	1
	14:08	Off the coast of Ibaraki Prefecture	5.2	1
22-Mar	6:24	Off the coast of Ibaraki Prefecture	4.3	1
	16:18	Off the coast of Fukushima Prefecture	6.7	2
	17:33	Off the coast of Ibaraki Prefecture	4.7	1
	18:19	Off the coast of Fukushima Prefecture	6.4	4
	18:44	Off the coast of Sanriku	6.5	3
	21:04	Off the coast of Ibaraki Prefecture	5.9	3
	22:51	Off the coast of Ibaraki Prefecture	5.9	2
23-Mar	0:03	Off the coast of Ibaraki Prefecture	5.9	1
	7:12	Hamadori, Fukushima Prefecture	6.0	4
	7:34	Hamadori, Fukushima Prefecture	5.5	3
	7:36	Hamadori, Fukushima Prefecture	5.8	3
	7:53	Hamadori, Fukushima Prefecture	5.1	1
	18:55	Hamadori, Fukushima Prefecture	4.7	2
	19:43	Off the coast of Ibaraki Prefecture	5.1	2
24-Mar	8:56	Southern Ibaraki Prefecture	4.8	1

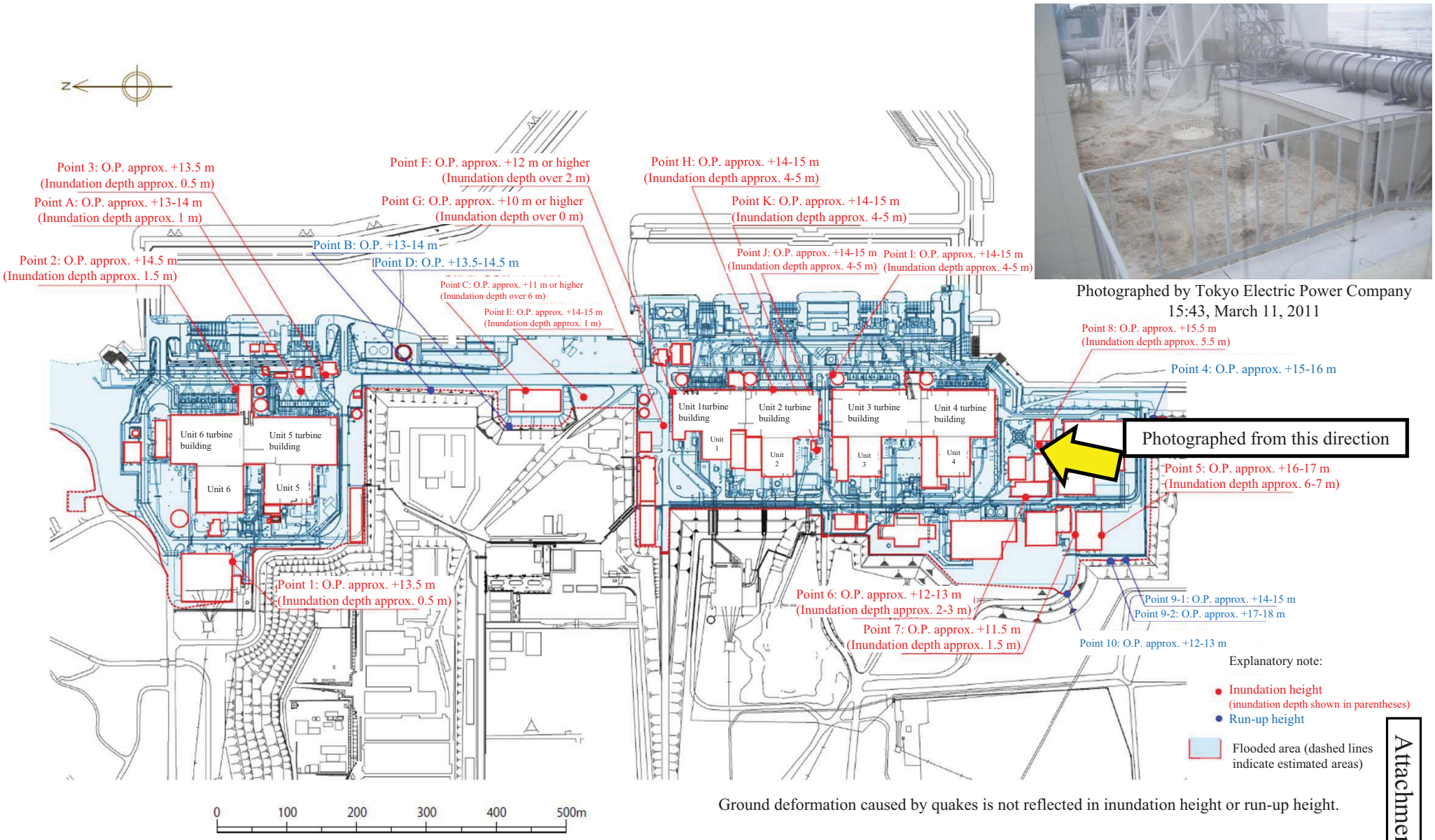
Date	Time	Information on hypocenter, magnitude, seismic intensity, tsunami, etc.		
		Hypocenter	Magnitude	Seismic intensity (Futabamachi, Fukushima)
24-Mar	17:20	Off the coast of Iwate Prefecture	6.2	3
25-Mar	2:08	Northen Ibaraki Prefecture	4.7	1
	3:16	Off the coast of Ibaraki Prefecture	4.3	1
	4:44	Off the coast of Miyagi Prefecture	4.8	1
26-Mar	19:18	Off the coast of Miyagi Prefecture	5.2	2
27-Mar	1:07	Off the coast of Ibaraki Prefecture	4.4	1
	20:08	Off the coast of Fukushima Prefecture	4.5	2
28-Mar	6:11	Off the coast of Ibaraki Prefecture	4.7	1
	7:23	Off the coast of Miyagi Prefecture	6.5	4
29-Mar	16:04	Off the coast of Fukushima Prefecture	4.3	3
	19:54	Off the coast of Fukushima Prefecture	6.6	3
30-Mar	22:00	Off the coast of Miyagi Prefecture	5.1	2
	22:19	Off the coast of Ibaraki Prefecture	5.0	2
31-Mar	16:15	Off the coast of Miyagi Prefecture	6.1	2

Explanatory note)

Earthquake with observed intensity 6 at Futabamachi, Fukushima Prefecture
Earthquake with observed intensity 5 at Futabamachi, Fukushima Prefecture
Earthquake with observed intensity 4 at Futabamachi, Fukushima Prefecture
Tsunami information and tsunami warnings/advisories

Based on the information on earthquakes, tsunamis and tsunami warnings/advisories

* The starting time of the first waves of the tsunami was unidentified from the tidal data due to changes in tidal level caused by quakes and other factors.



Photographed by Tokyo Electric Power Company
15:43, March 11, 2011

Ground deformation caused by quakes is not reflected in inundation height or run-up height.

Investigation results concerning the flooding of the Fukushima Dai-ichi NPS by the tsunami (level of inundation, water depth and flooded area)

Based on "The impact of Tohoku-Chihou Taiheiyo-Oki Earthquake to Nuclear Reactor Facilities at Fukushima Dai-ichi Nuclear Power Station" (September 2011) by Tokyo Electric Power Company

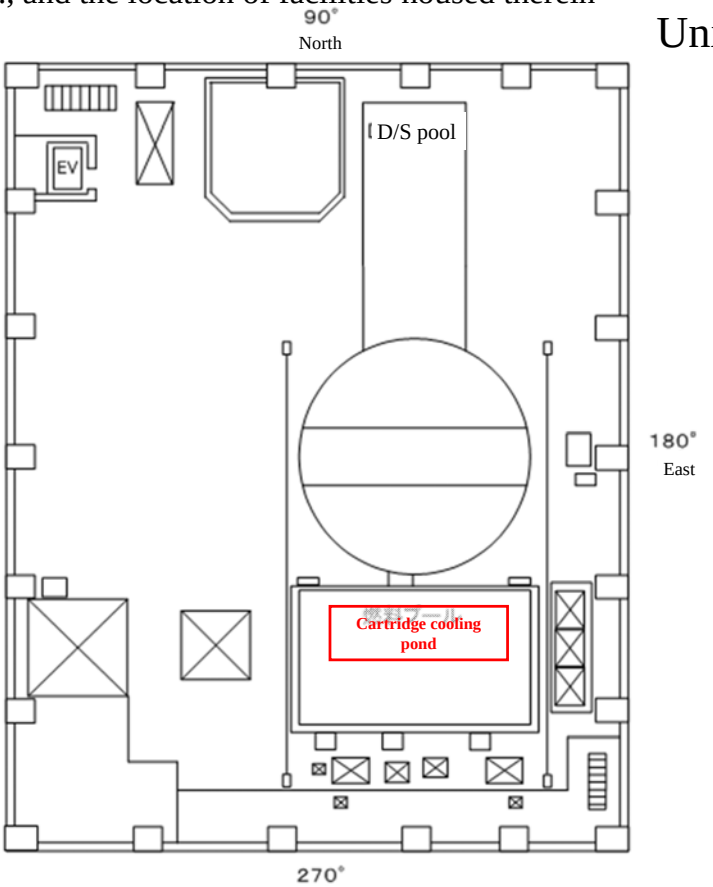
Attachment II-11

Radiation dose in R/B, T/B, etc., and the location of facilities housed therein

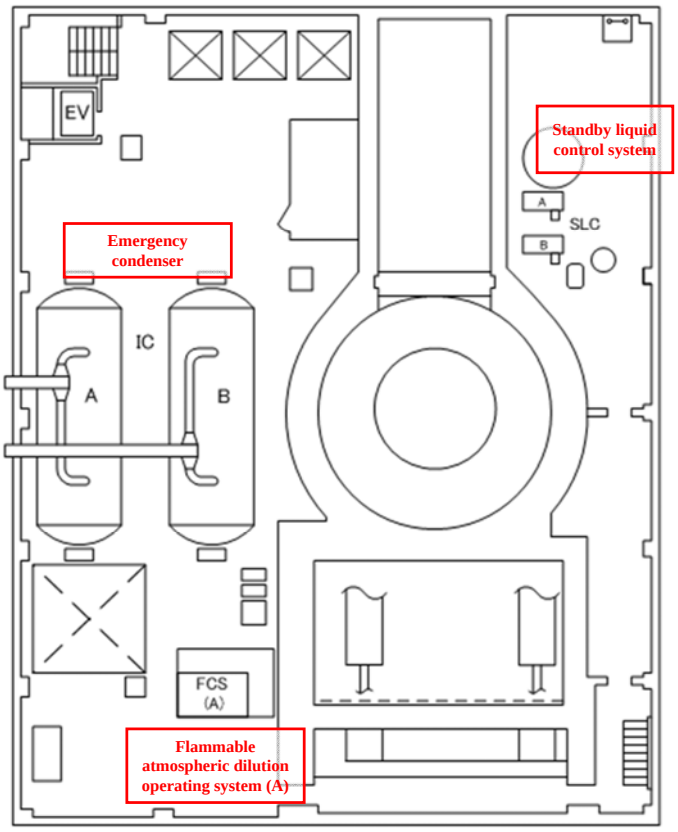
Unit 1

- This document describes the latest dose information provided by Tokyo Electric Power Company (TEPCO) while being based on the “Survey Map” which TEPCO created in order to organize past dose data for the purpose of radiation control.
- In addition, the document indicates the main facilities inside each building.
- The numbers in the figures indicate the radiation doses (mSv/h) measured at the respective spots. The colors circling the numbers correspond to the measurement dates listed in the margins of the figures.
- The radiation dose measurements were conducted for thirty-three days, from July 22 to October 1.

Unit for numbers in the document
-Dose: mSv/h



Fifth floor, R/B, Unit 1



Fourth floor, R/B, Unit 1

The parts colored in pale-blue in the documents on Units 1 to 4 indicate the areas considered to have been under water based on the level of residual water inside buildings as of October 4.

Based on data and documents by Tokyo Electric Power Company

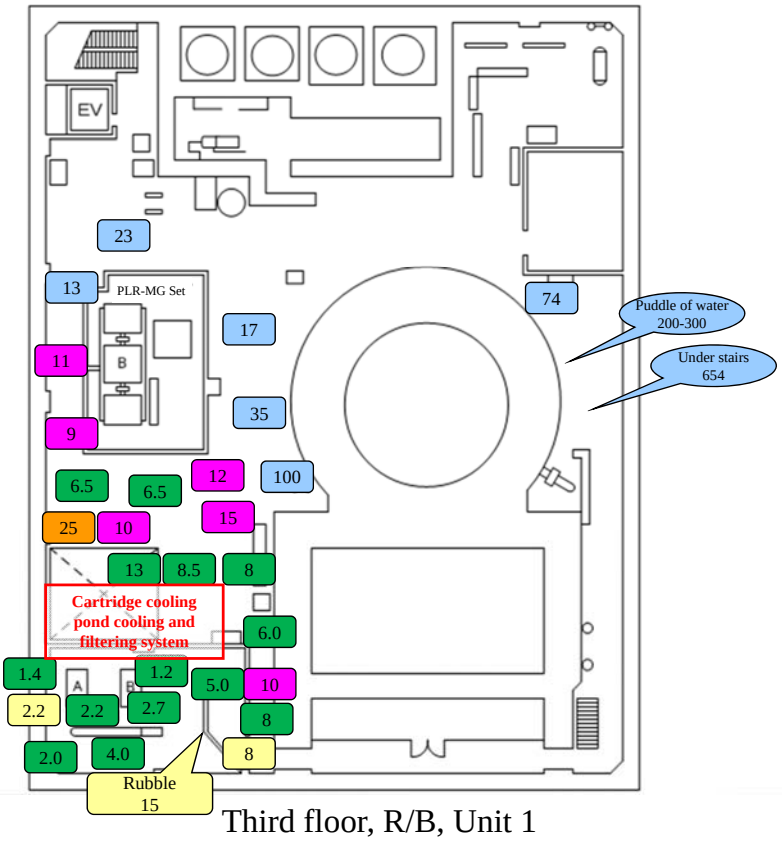
July 25, 2011

July 26, 2011

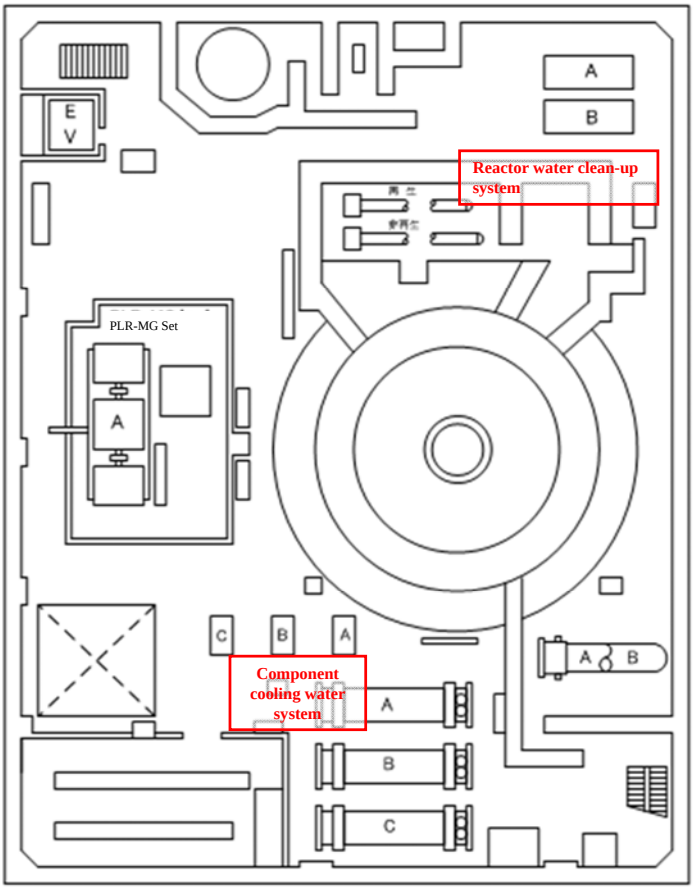
July 31, 2011

August 2, 2011

August 11, 2011

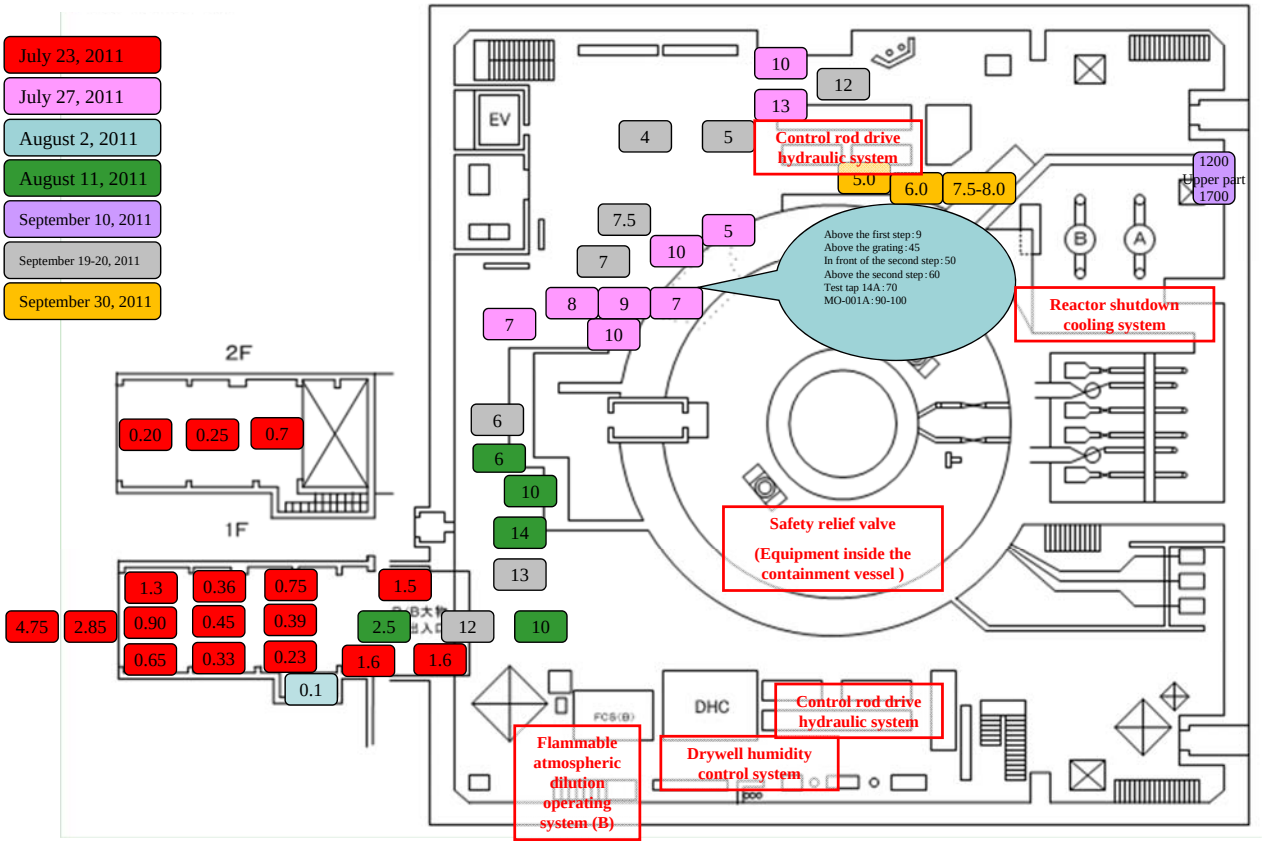


Third floor, R/B, Unit 1

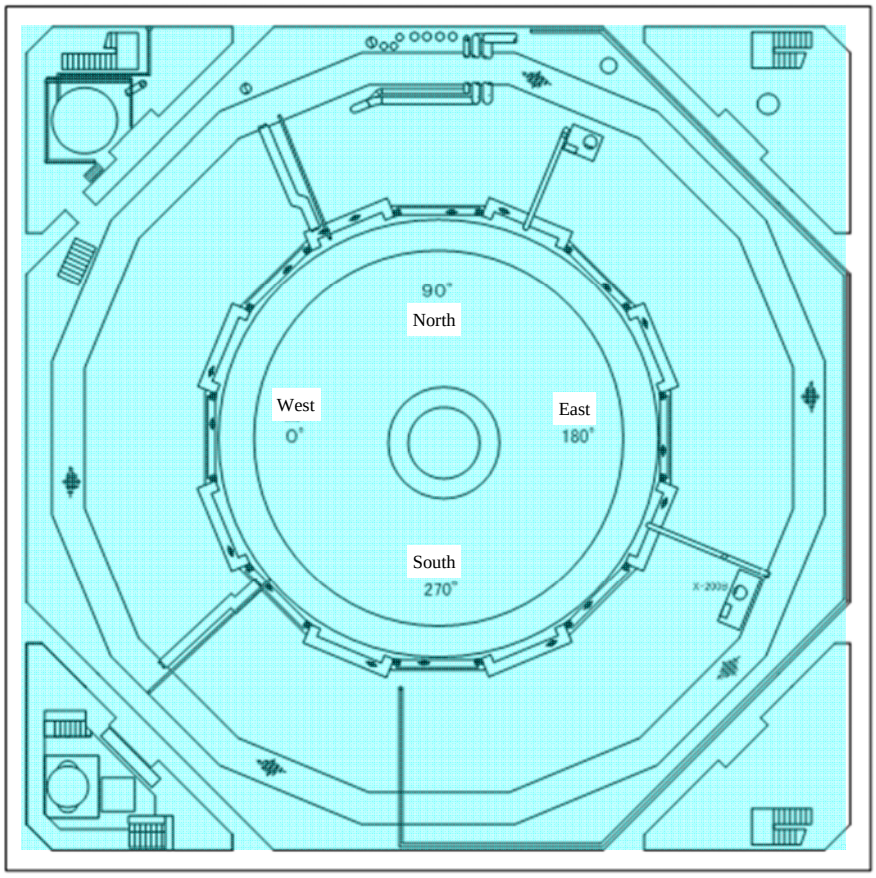


Second floor, R/B, Unit 1

Based on data and documents by Tokyo Electric Power Company

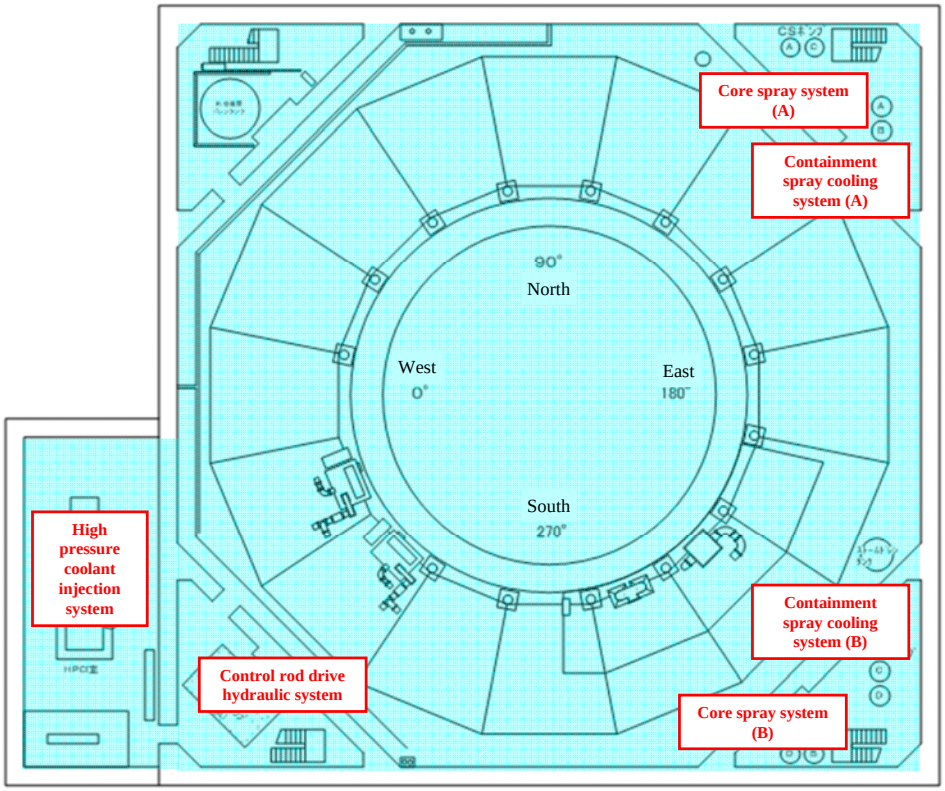


First floor, R/B, Unit 1

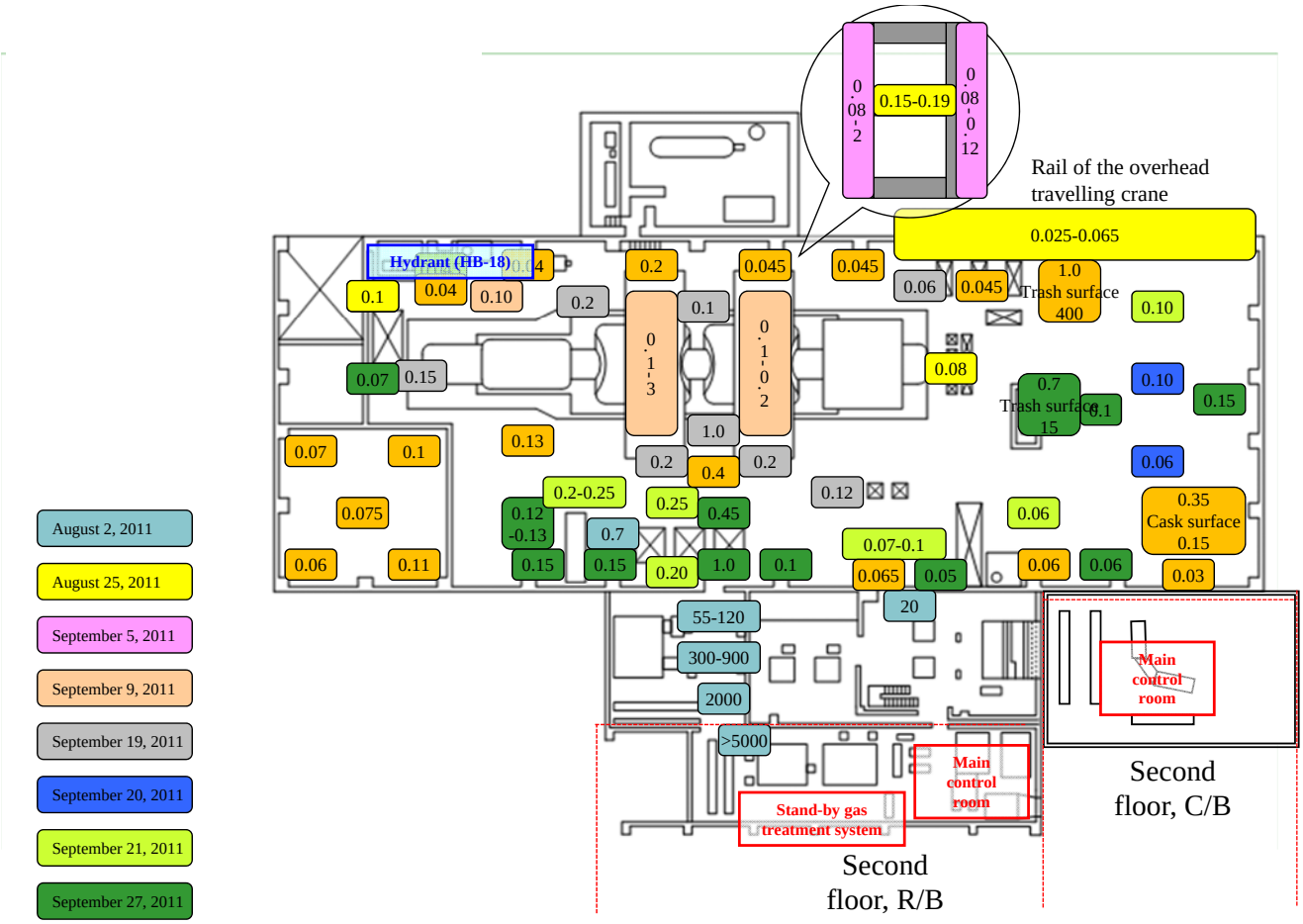


Basement mezzanine floor, R/B, Unit 1

Based on data and documents by Tokyo Electric Power Company



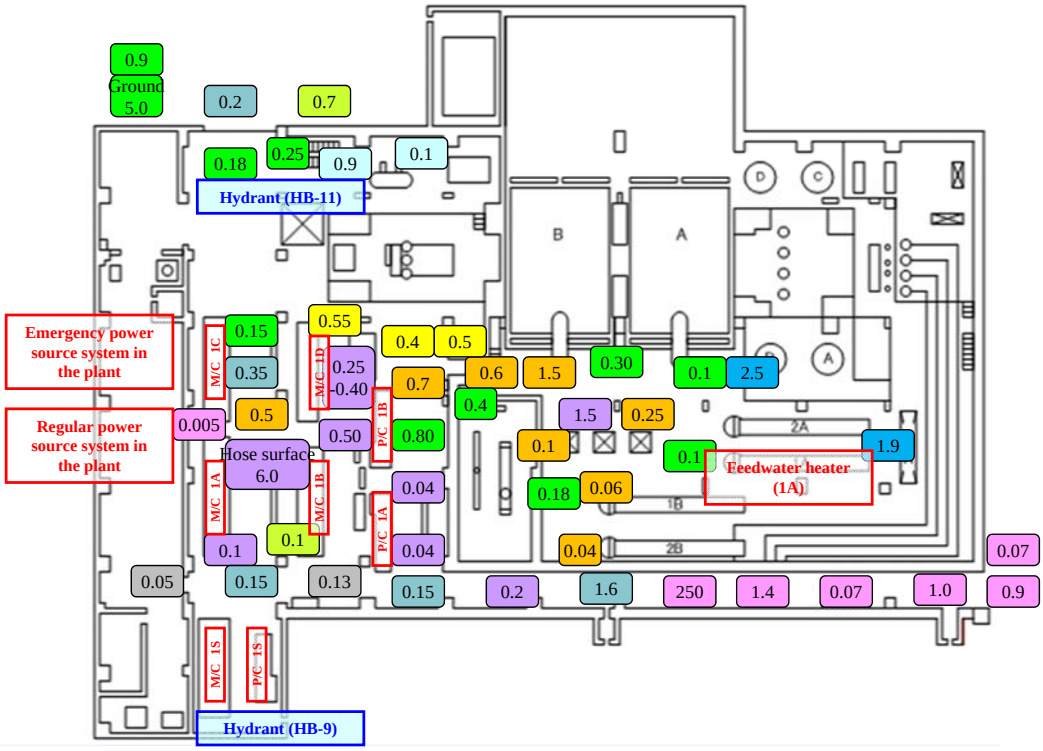
Basement floor, R/B, Unit 1



Second basement floor, R/B, Unit 1

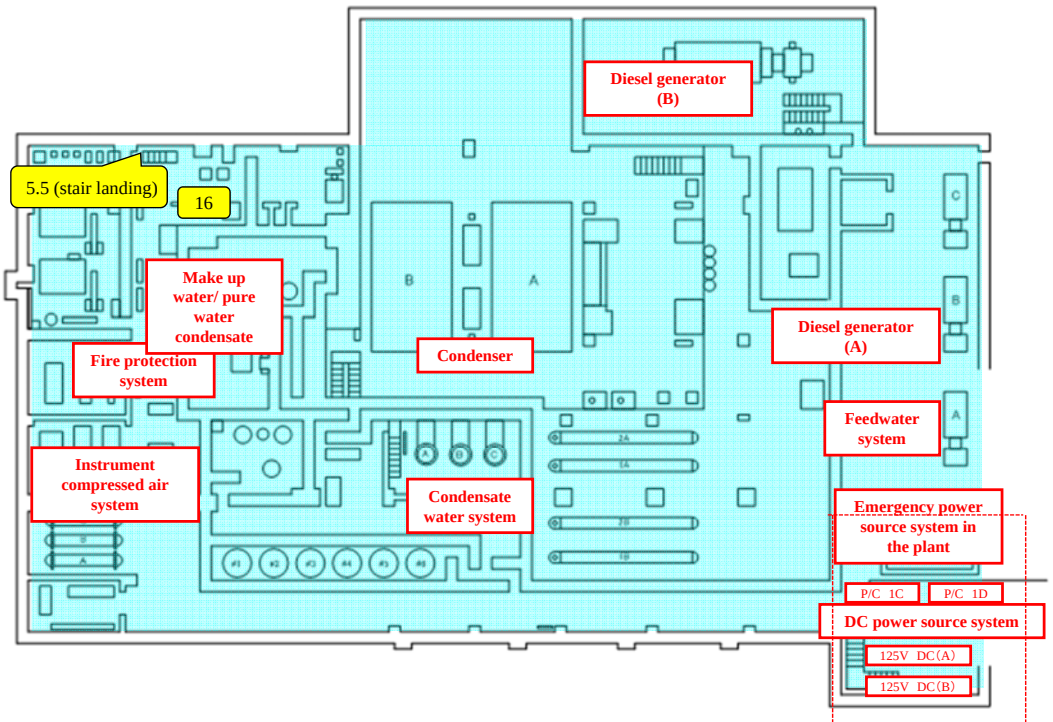
Based on data and documents by Tokyo Electric Power Company

July 27, 2011
August 3, 2011
August 25, 2011
September 19. 2011
September 21, 2011
September 26, 2011
September 27, 2011
September 30, 2011
October 1, 2011



First floor, T/B, Unit 1

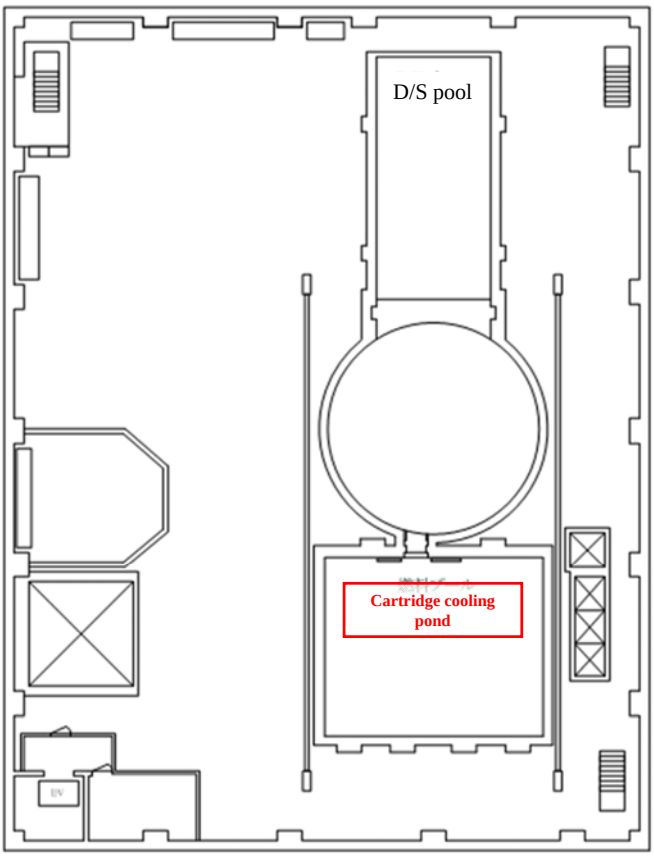
September 13, 2011



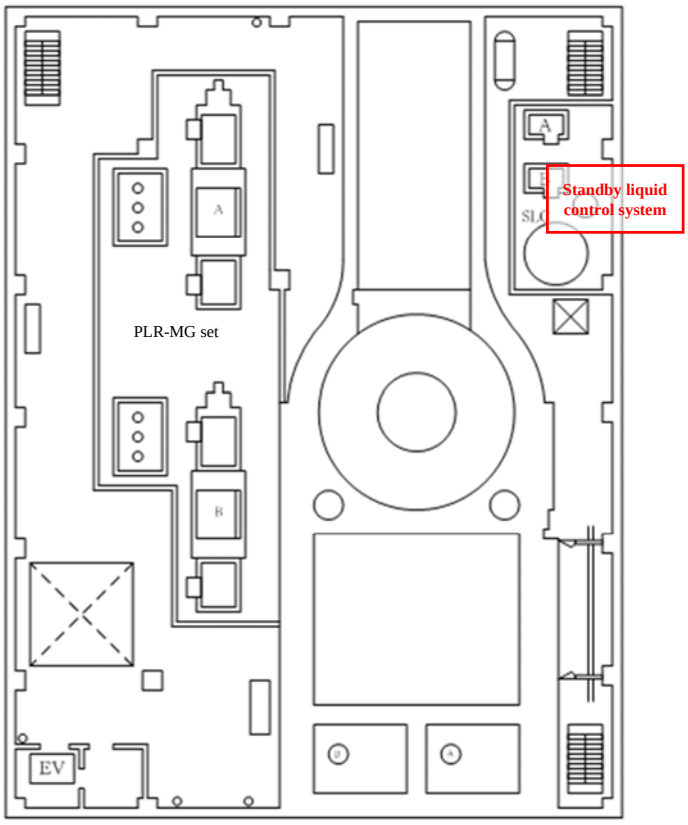
First basement floor, C/B

First basement floor, T/B Unit 1

Based on documents and data created by TEPCO

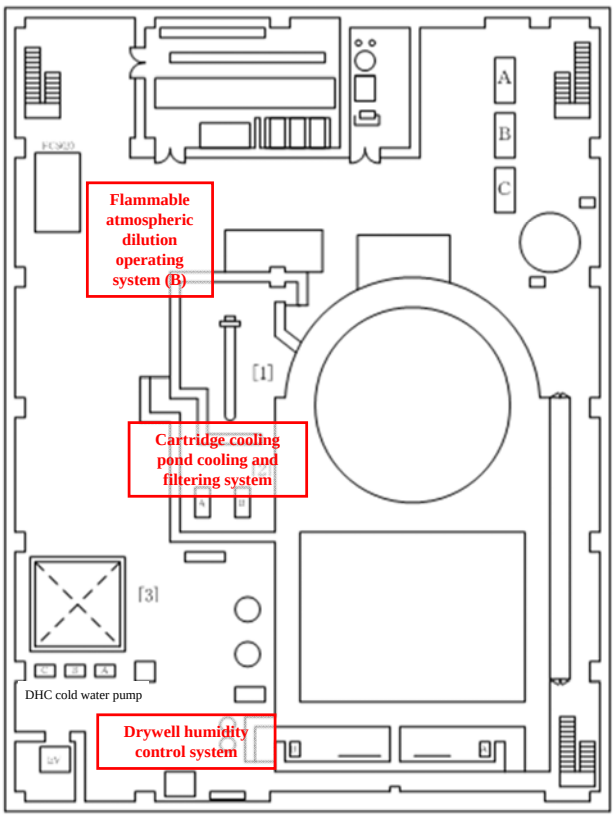


Fifth floor, R/B, Unit 2

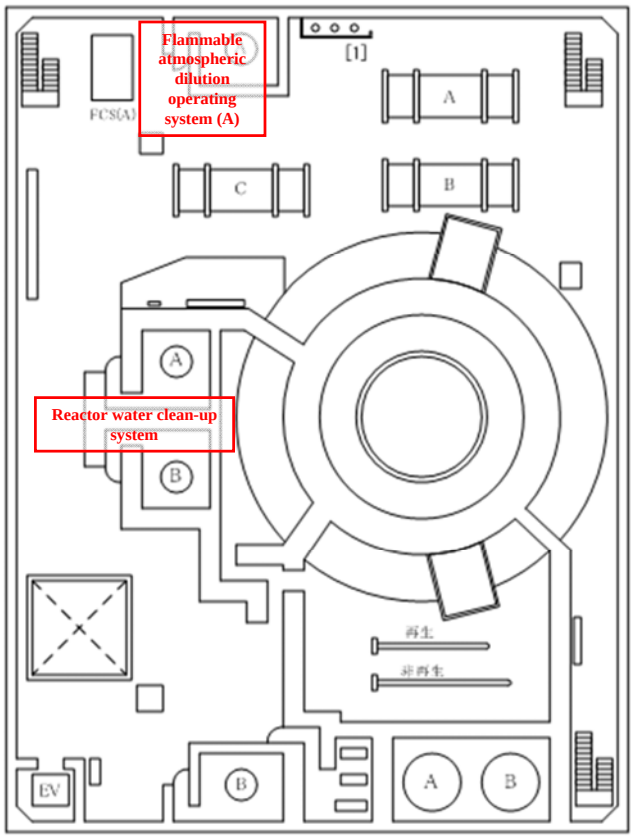


Fourth floor, R/B, Unit 2

Based on data and documents by Tokyo Electric Power Company

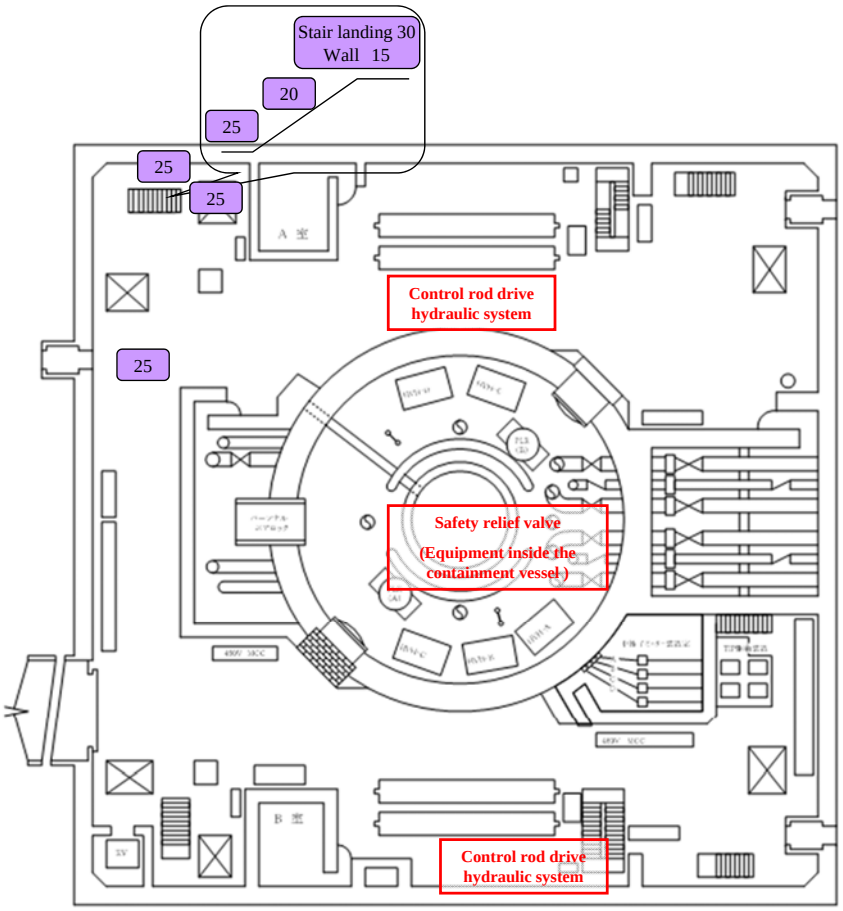


Third floor, R/B, Unit 2



Second floor, R/B, Unit 2

Based on data and documents by Tokyo Electric Power Company



Common auxiliary facilities

Shared pool building

Diesel generator (B)

First floor

Emergency power source system in the plant

M/C 2E

P/C 2E

DC power source system

125V DC (2D/G B)

First basement floor

M/C 2SA building

Emergency power source system in the plant

M/C 2SA

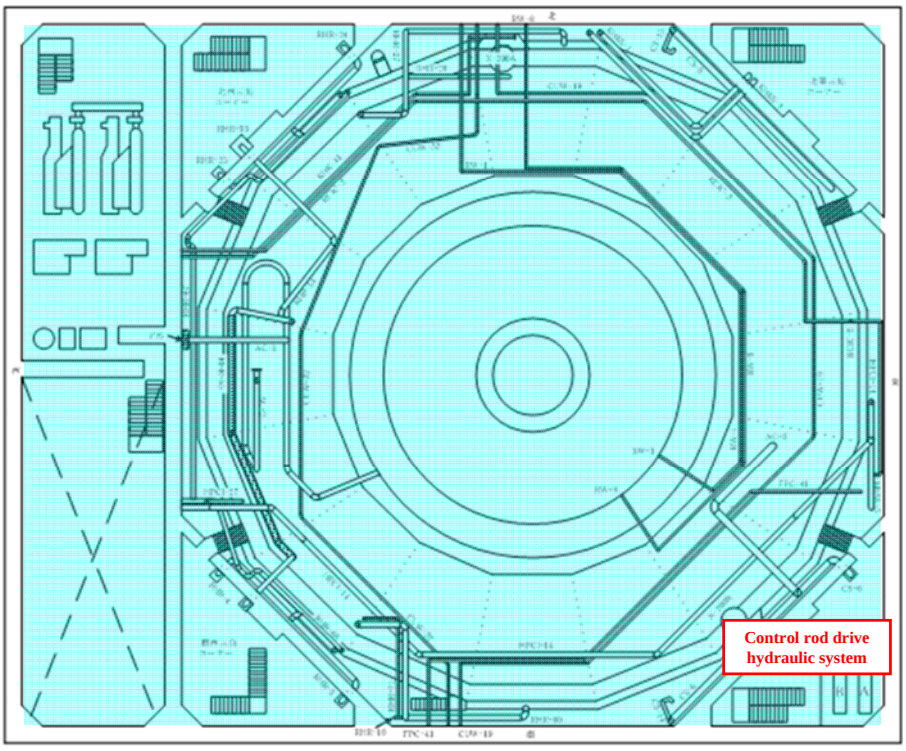
First floor

*Refer to Attachments II-3 and II-4 for the location of common auxiliary facilities (shared pool building).

*Refer to Attachment II-4 for the location of the M/C 2SA building.

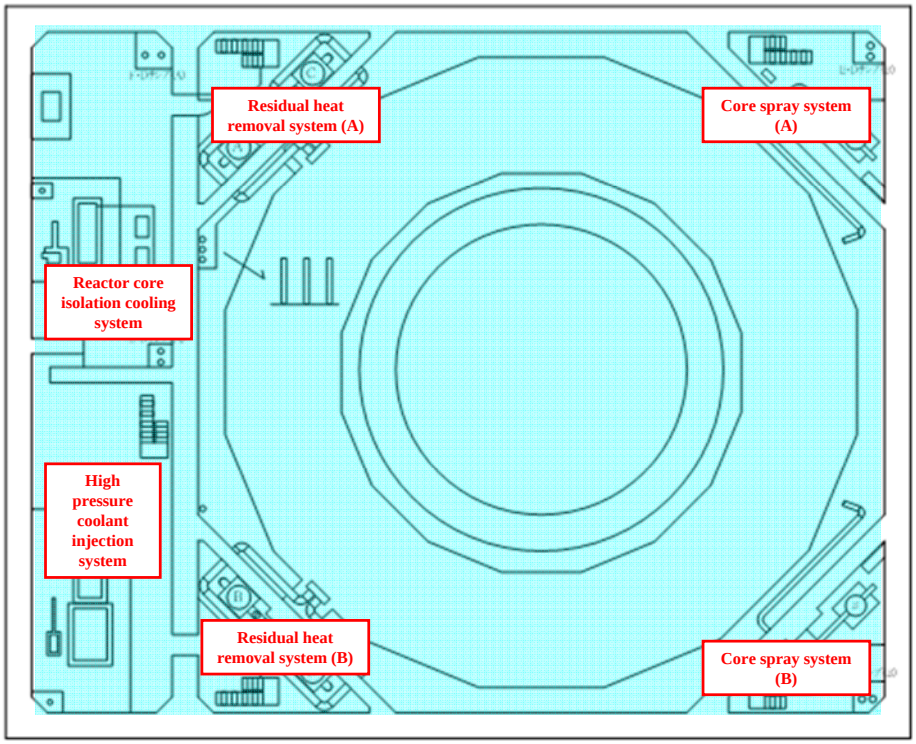
September 15, 2011

First floor, R/B, Unit 2

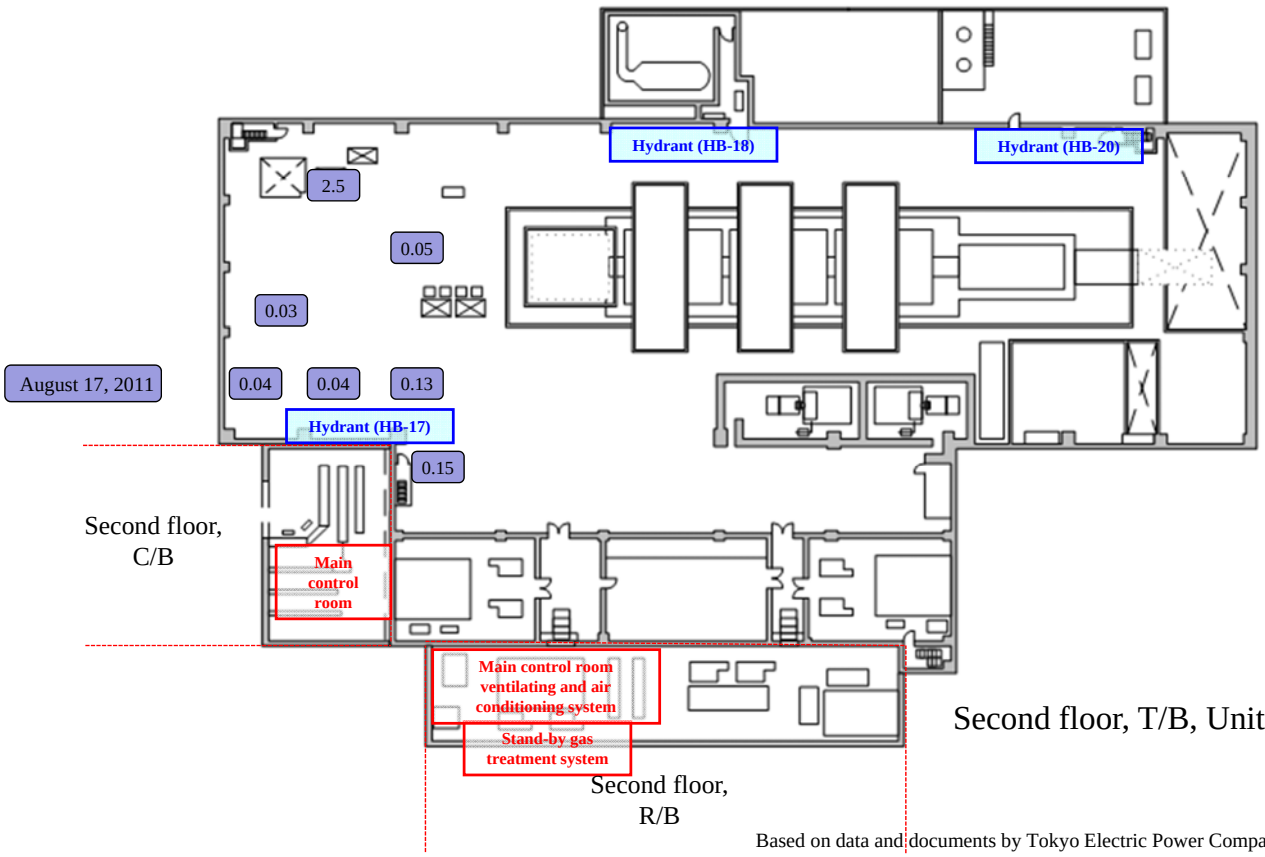


Basement mezzanine floor, R/B, Unit 2

Based on data and documents by Tokyo Electric Power Company

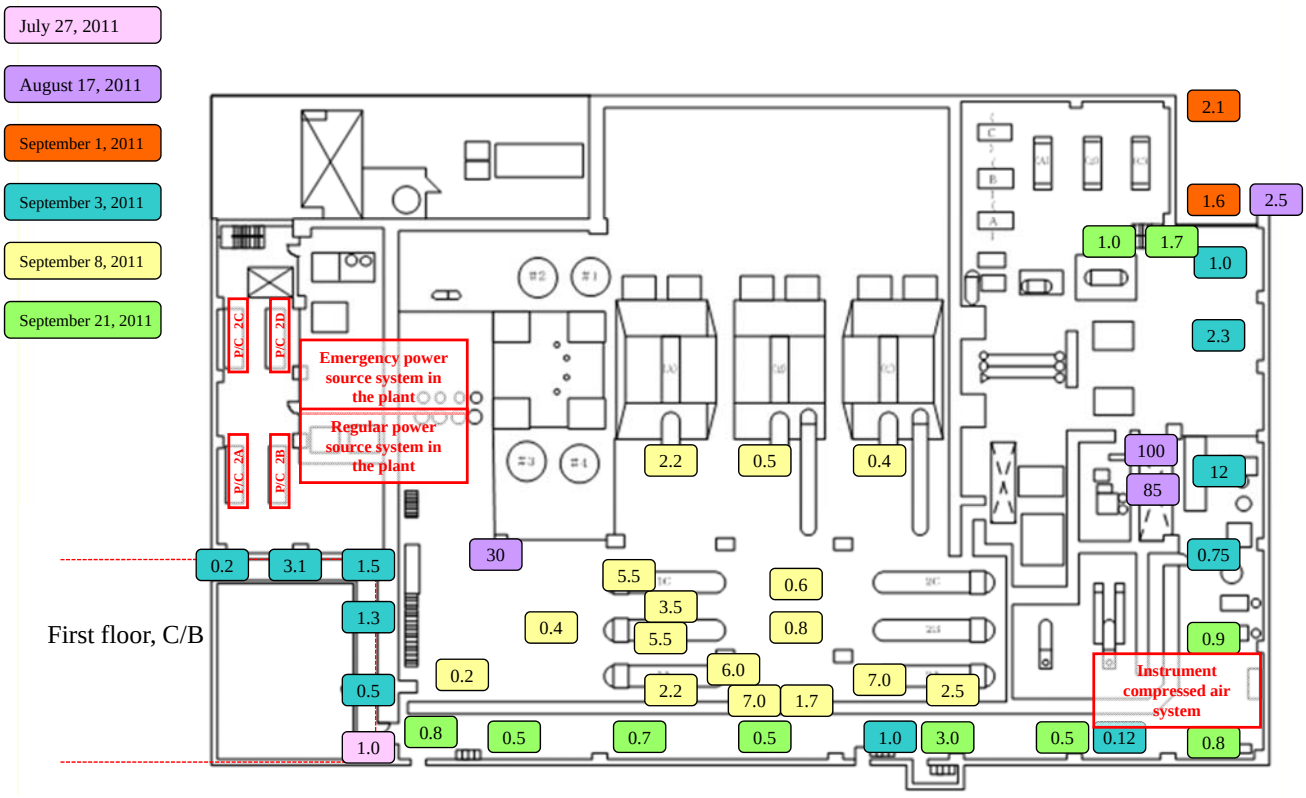


First basement floor, R/B, Unit 2

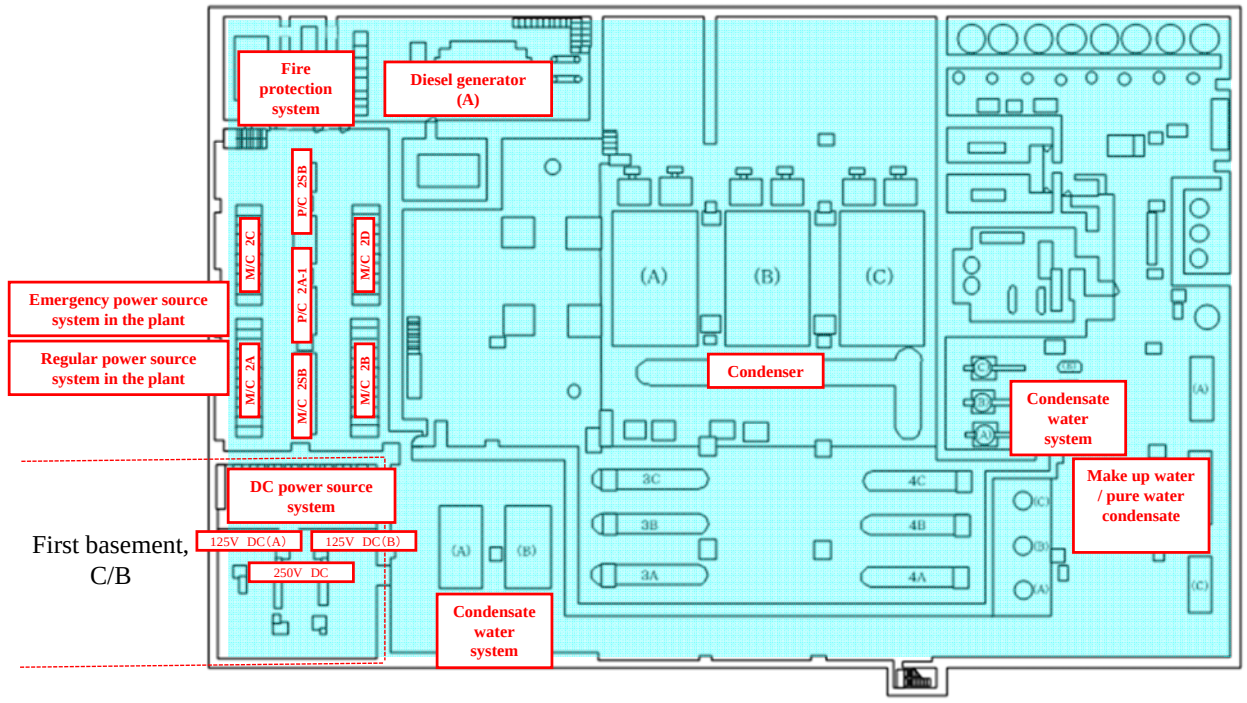


Second floor, T/B, Unit 2

Based on data and documents by Tokyo Electric Power Company

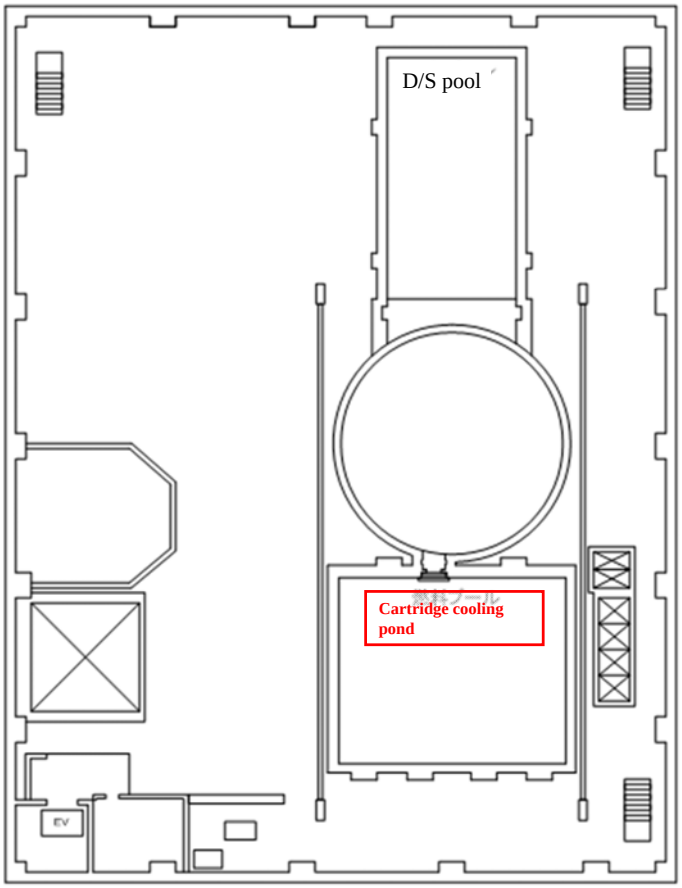


First floor, T/B, Unit 2

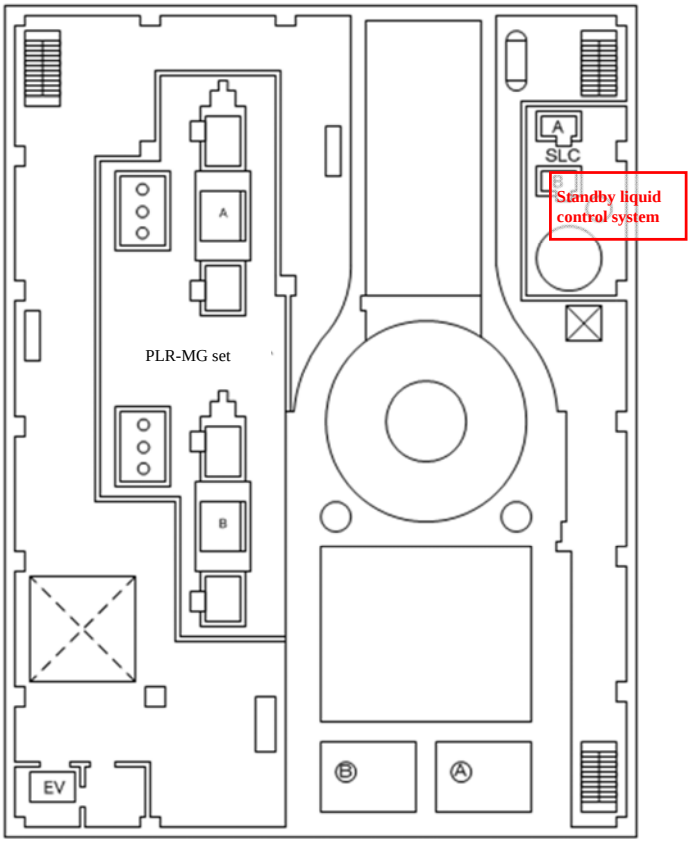


First basement floor, T/B, Unit 2

Based on data and documents by Tokyo Electric Power Company

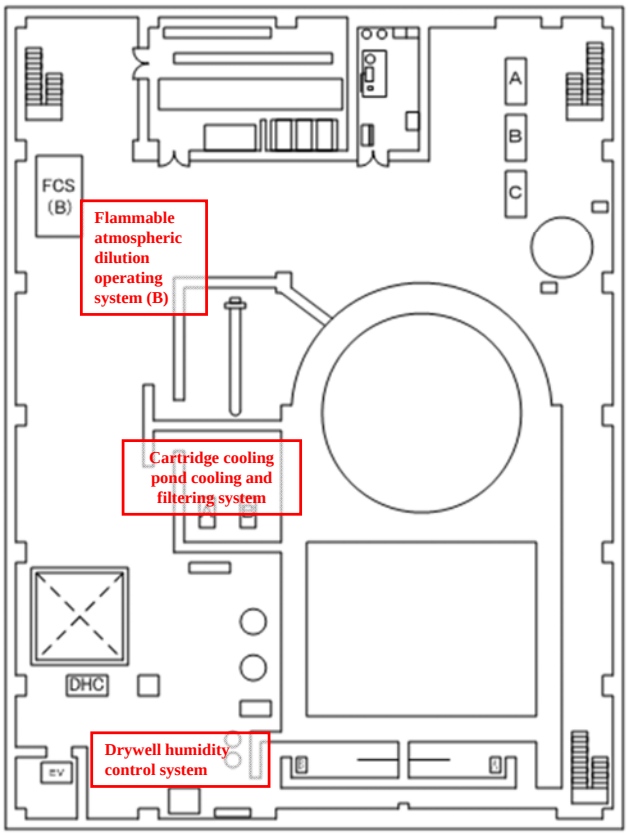


Fifth floor, R/B, Unit 3



Fourth floor, R/B, Unit 3

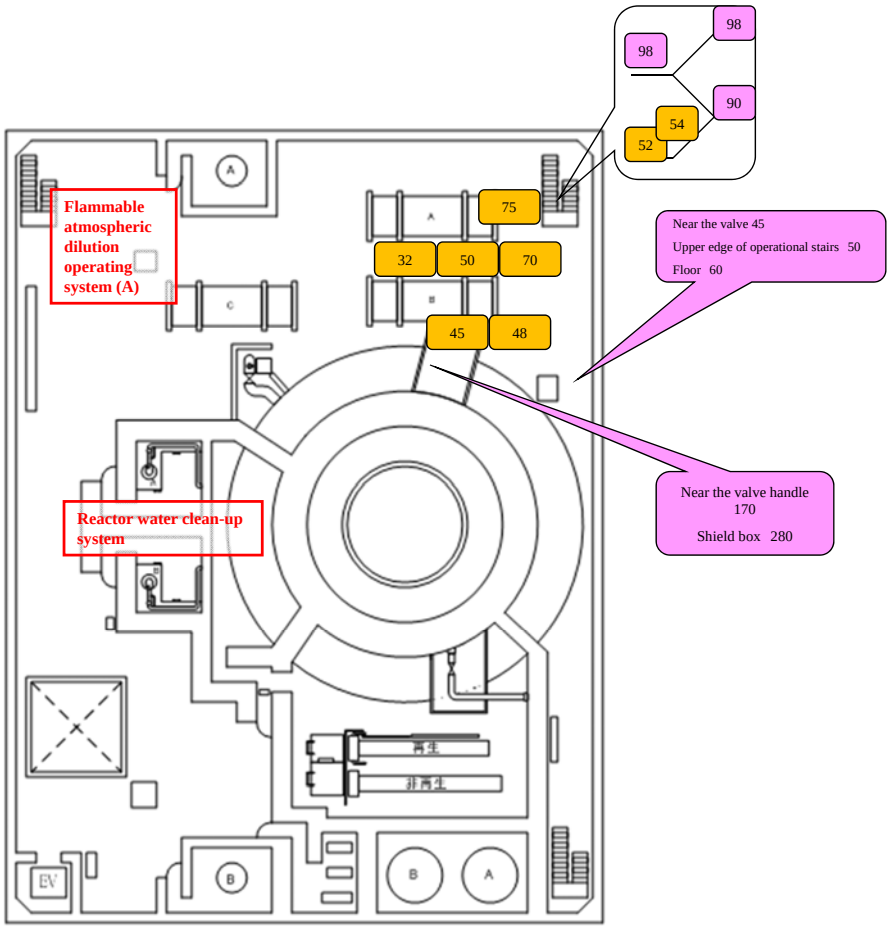
Based on data and documents by Tokyo Electric Power Company



Third floor, R/B, Unit 3

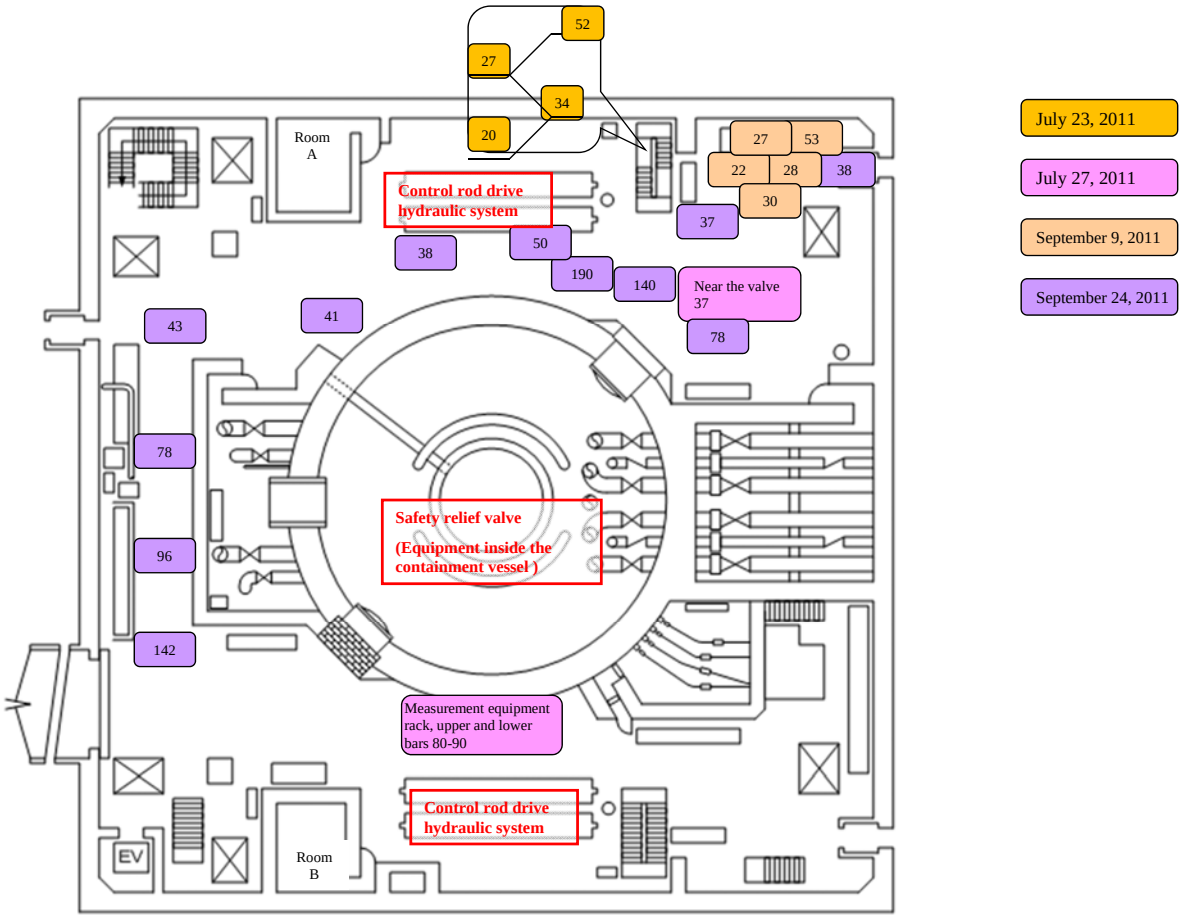
July 26, 2011

July 27, 2011

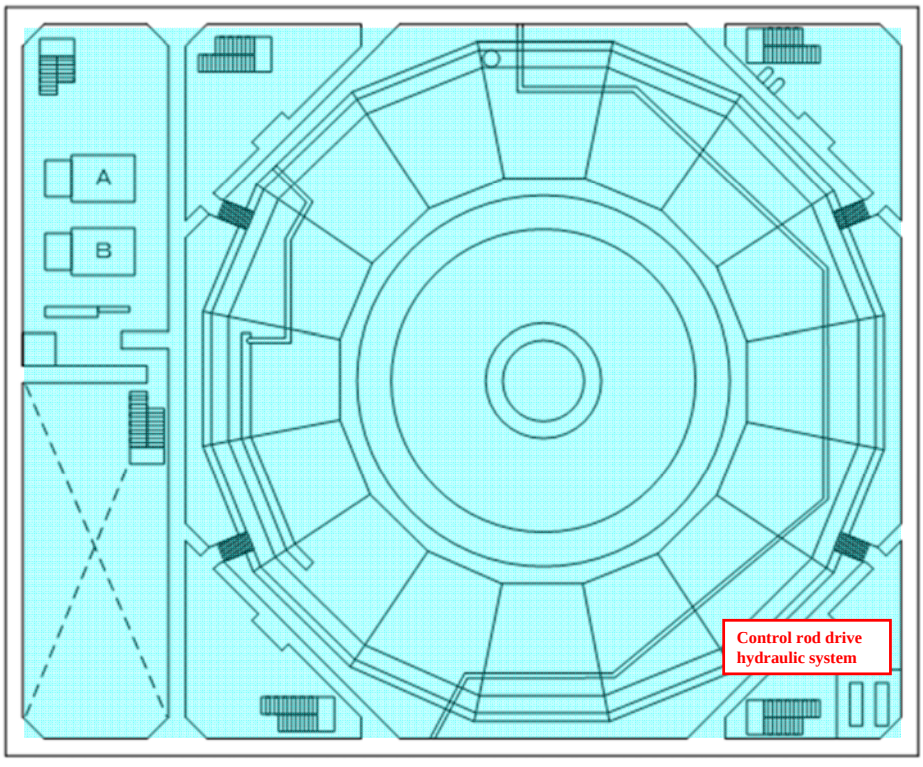


Second floor, R/B, Unit 3

Based on data and documents by Tokyo Electric Power Company

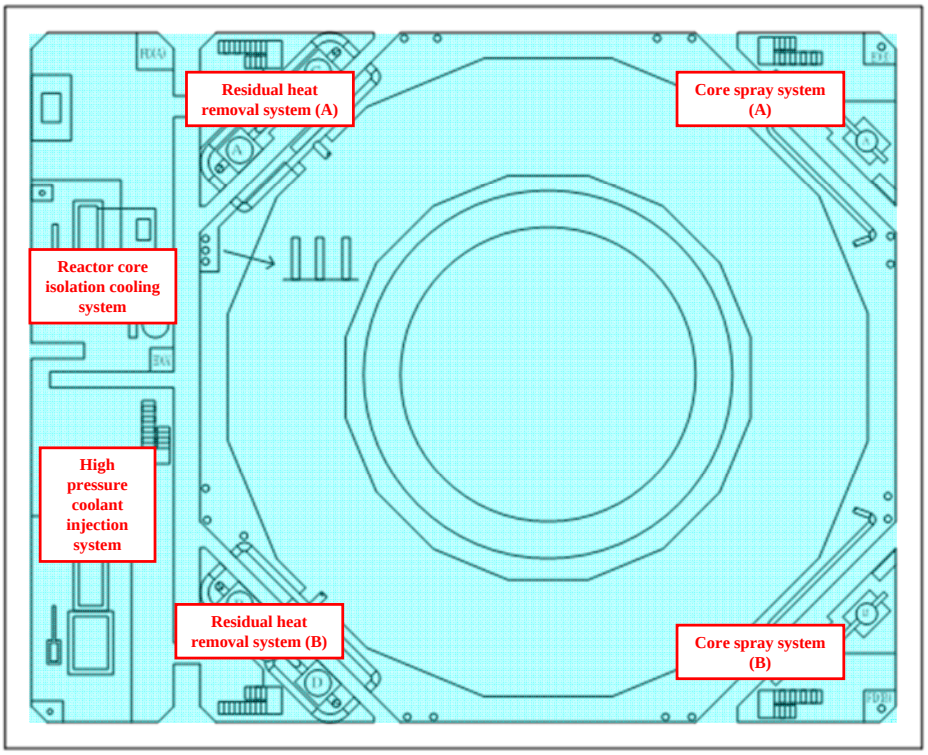


First floor, R/B, Unit 3

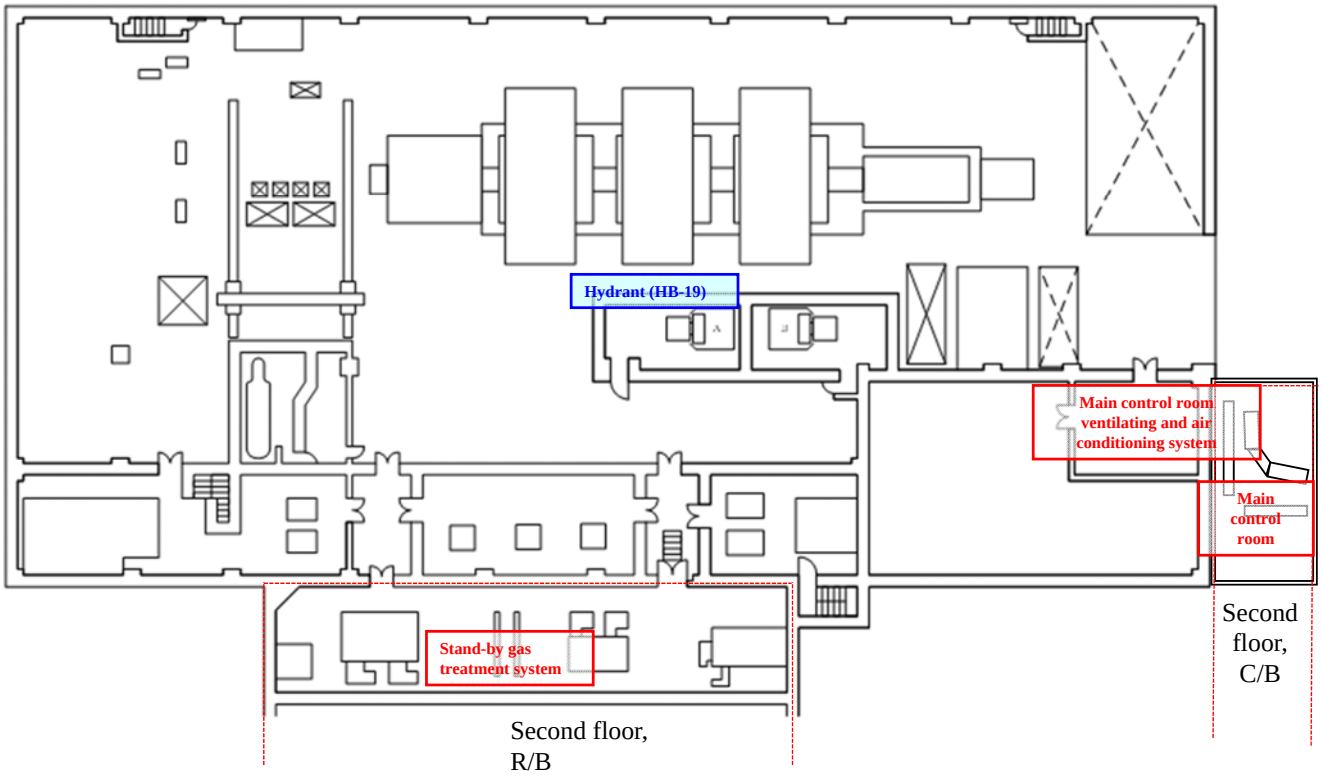


Basement mezzanine floor, R/B, Unit 3

Based on data and documents by Tokyo Electric Power Company



First basement floor, R/B, Unit 3

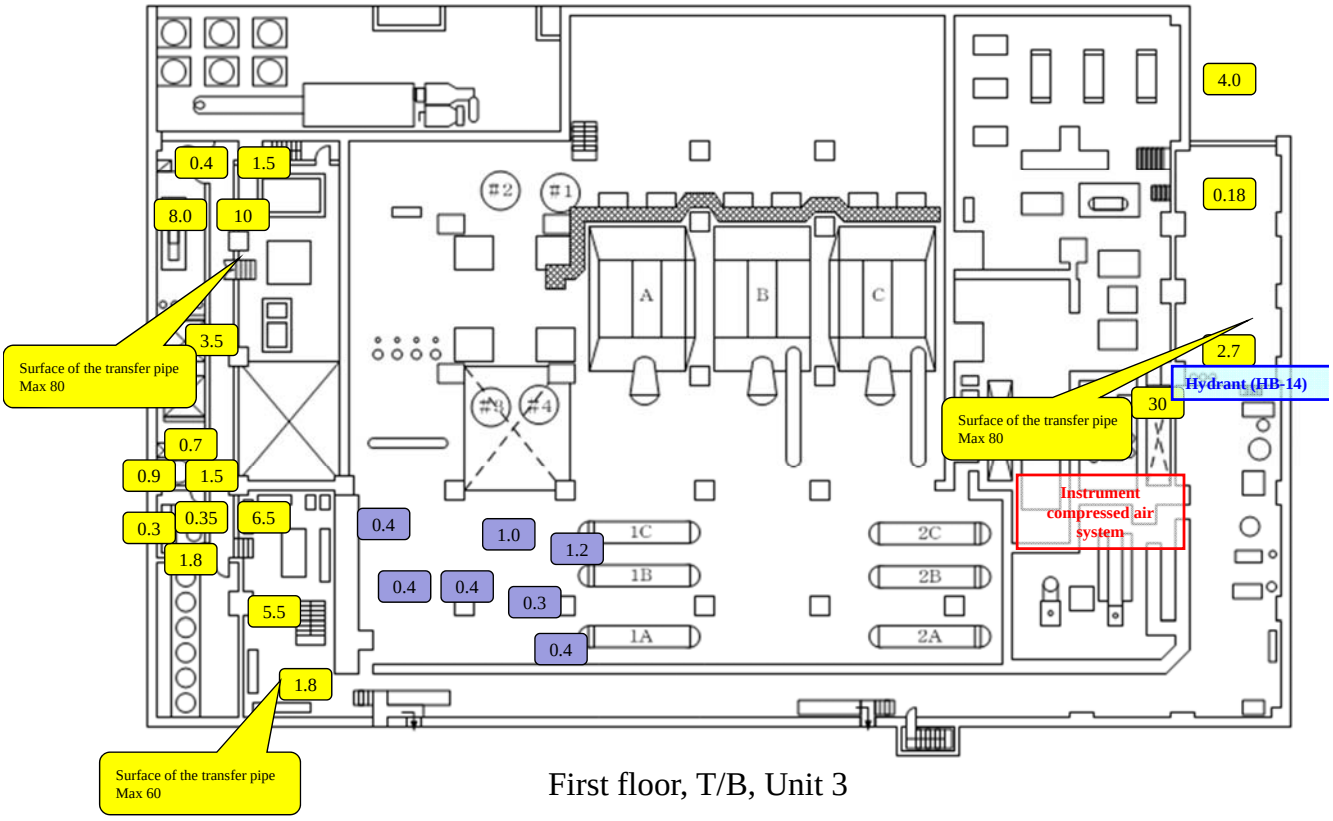


Second floor, T/B, Unit 3

Based on data and documents by Tokyo Electric Power Company

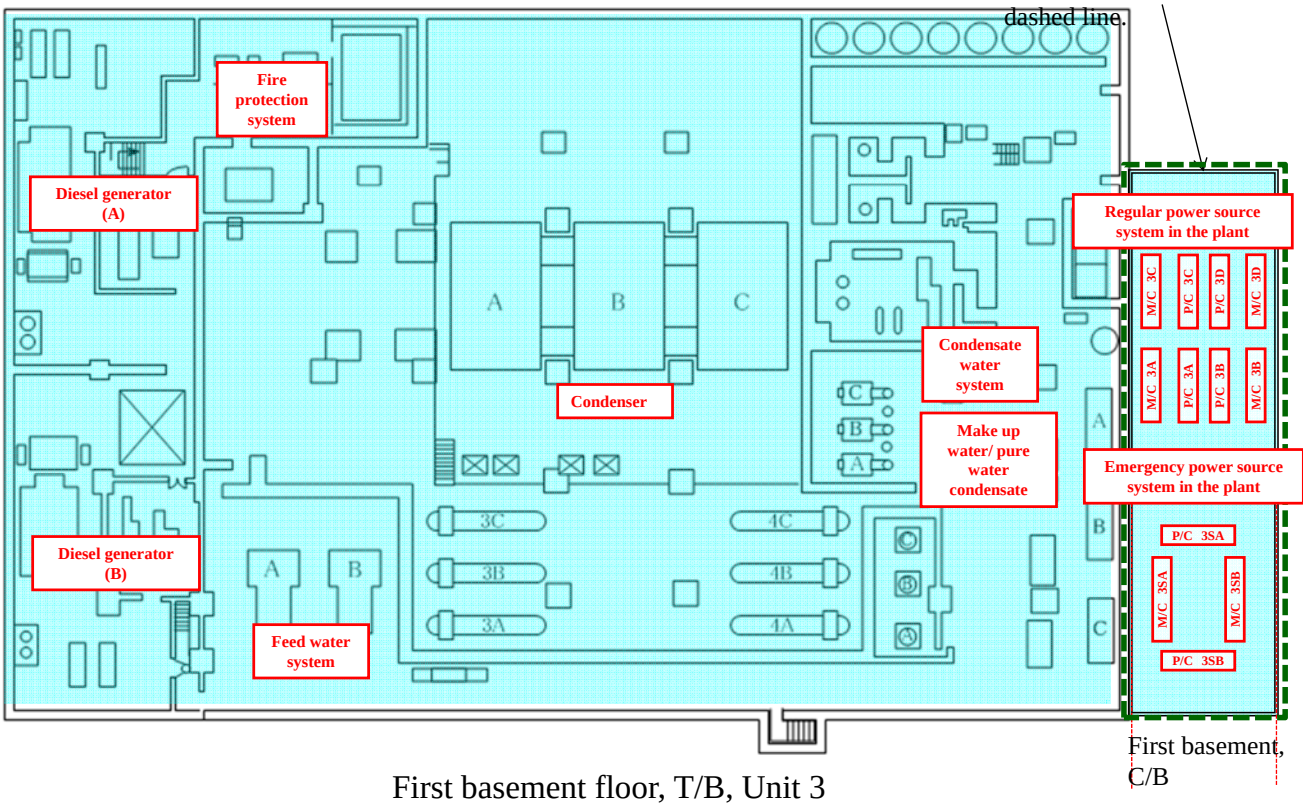
July 22, 2011

September 15, 2011



First floor, T/B, Unit 3

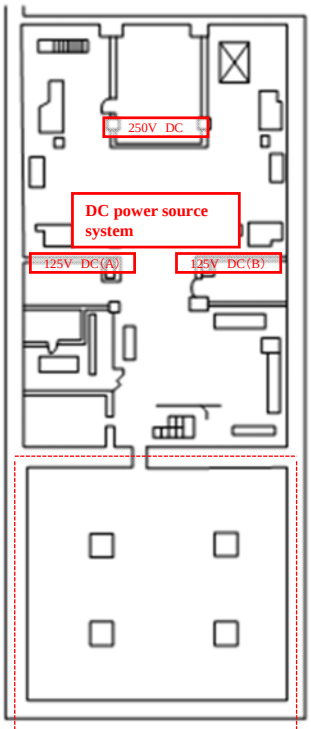
The basement mezzanine floor, T/B, Unit 3 is located above the area in the green dashed line.



First basement floor, T/B, Unit 3

Based on data and documents by Tokyo Electric Power Company

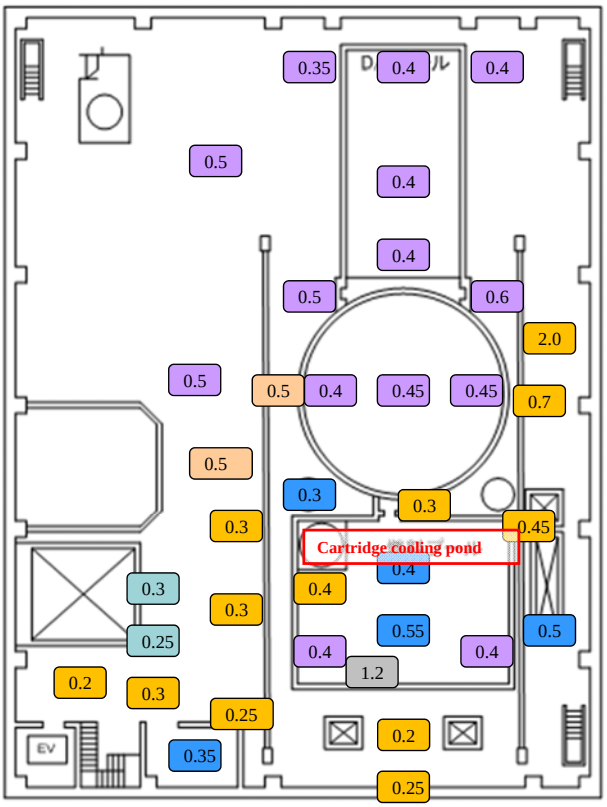
This basement mezzanine floor is located above the area in the green dashed line on the first basement floor, T/B, Unit 3.



Basement mezzanine floor, C/B

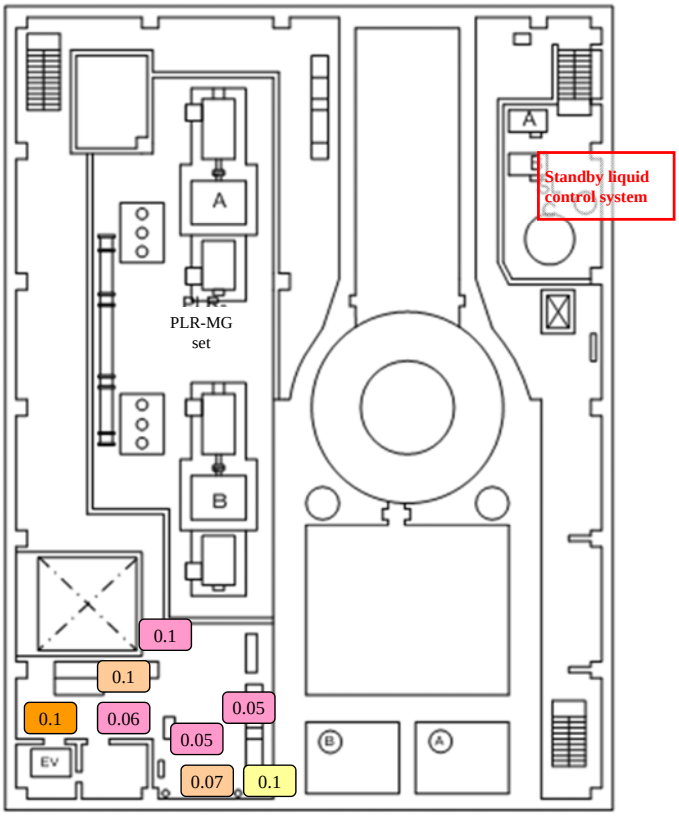
Basement mezzanine floor, T/B, Unit 3

Based on data and documents by Tokyo Electric Power Company



Fifth floor, R/B, Unit 4

August 2, 2011
August 9, 2011
August 26, 2011
September 19, 2011
September 20, 2011
September 30, 2011

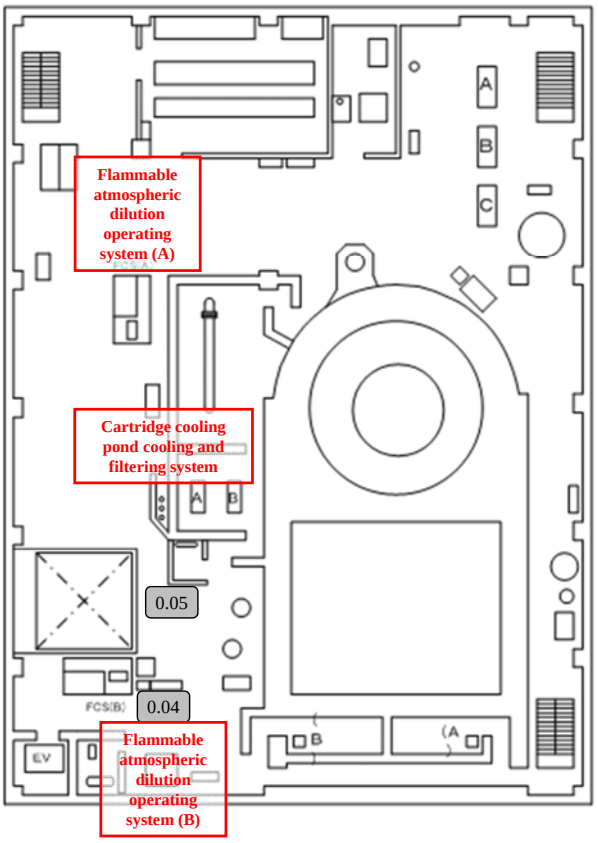


Fourth floor, R/B, Unit 4

July 25, 2011
July 26, 2011
July 29, 2011
July 31, 2011

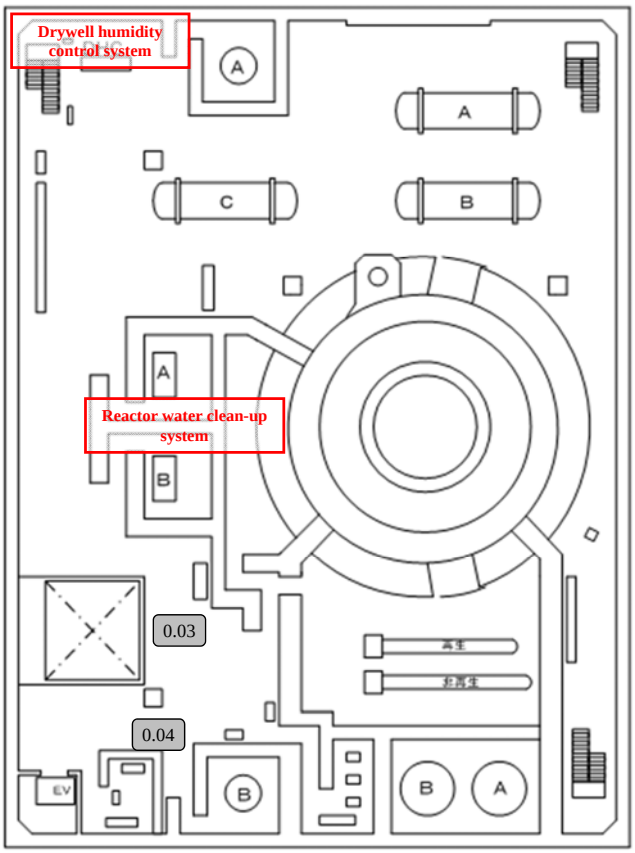
Based on data and documents by Tokyo Electric Power Company

July 28, 2011



Third floor, R/B, Unit 4

July 28, 2011



Second floor, R/B, Unit 4

Based on data and documents by Tokyo Electric Power Company

July 23, 2011

July 29, 2011

August 3, 2011

September 21, 2011

Common auxiliary facilities

Shared pool building

Diesel generator (B)

First floor

Emergency power source system in the plant

M/C 4E

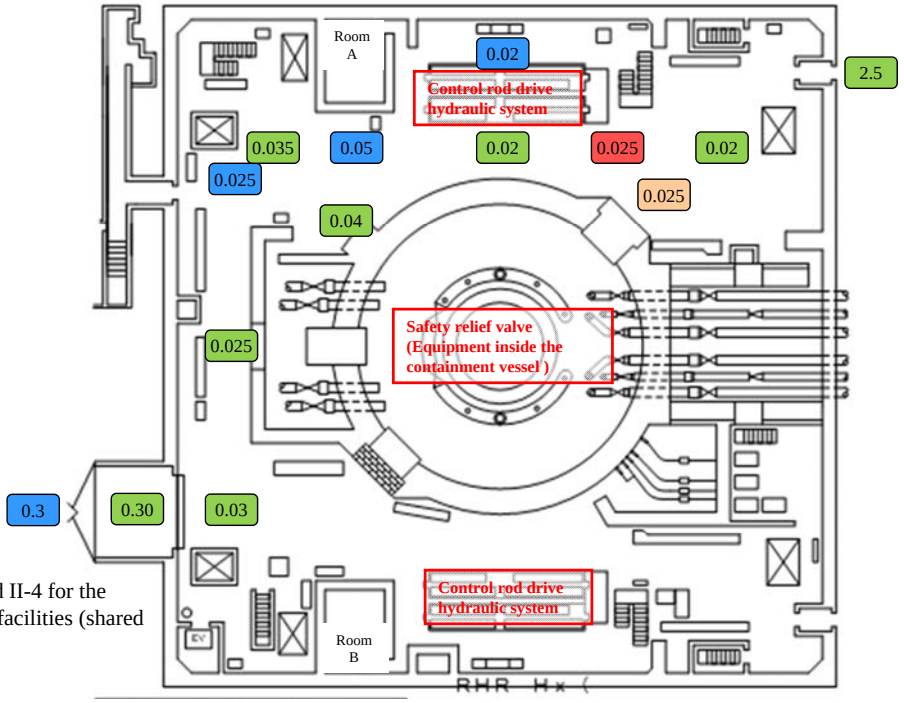
P/C 4E

DC power source system

125V DC (4D/G B)

First basement floor

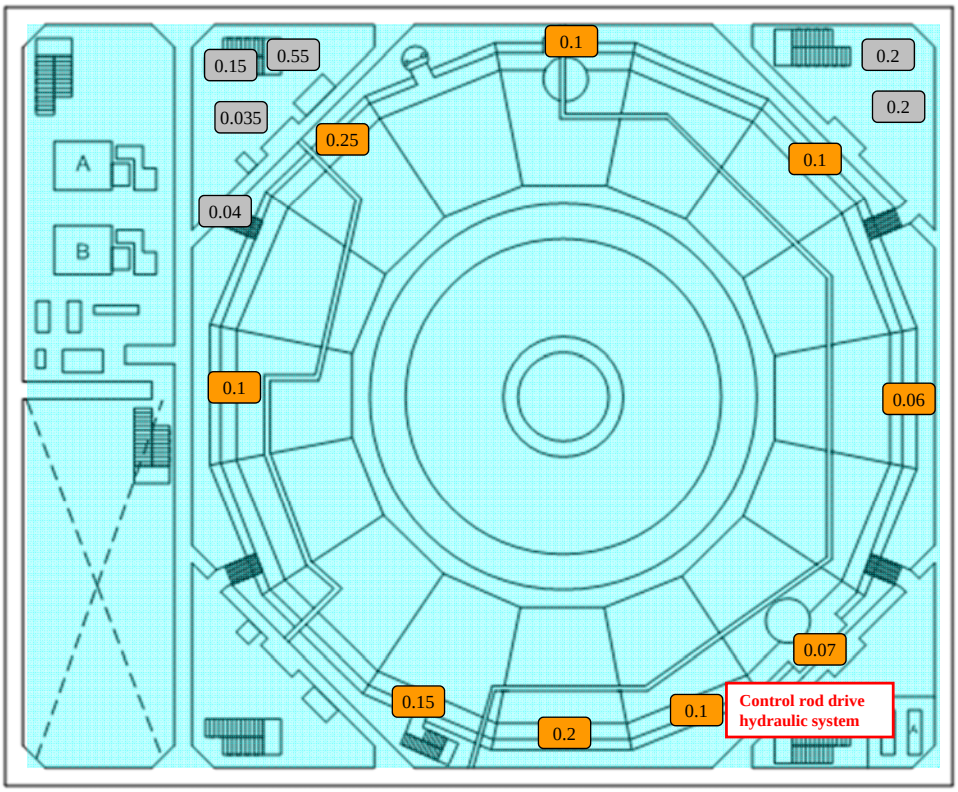
*Refer to Attachments II-3 and II-4 for the location of common auxiliary facilities (shared pool building).



First floor, R/B, Unit 4

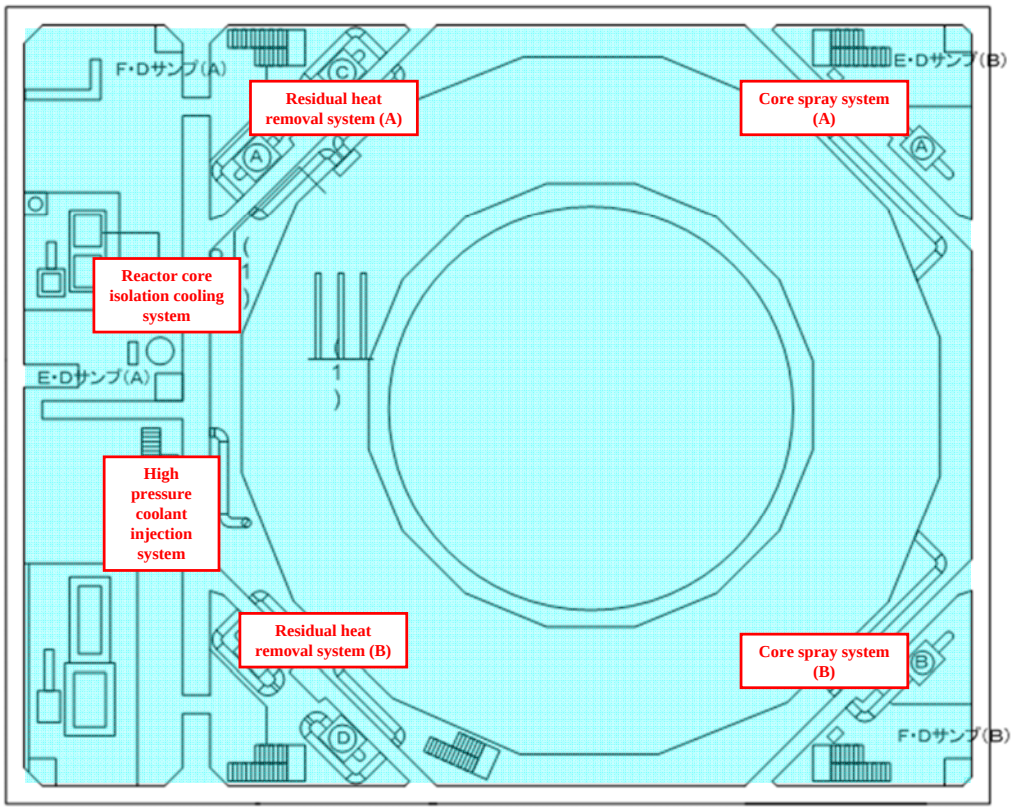
July 26, 2011

July 28, 2011



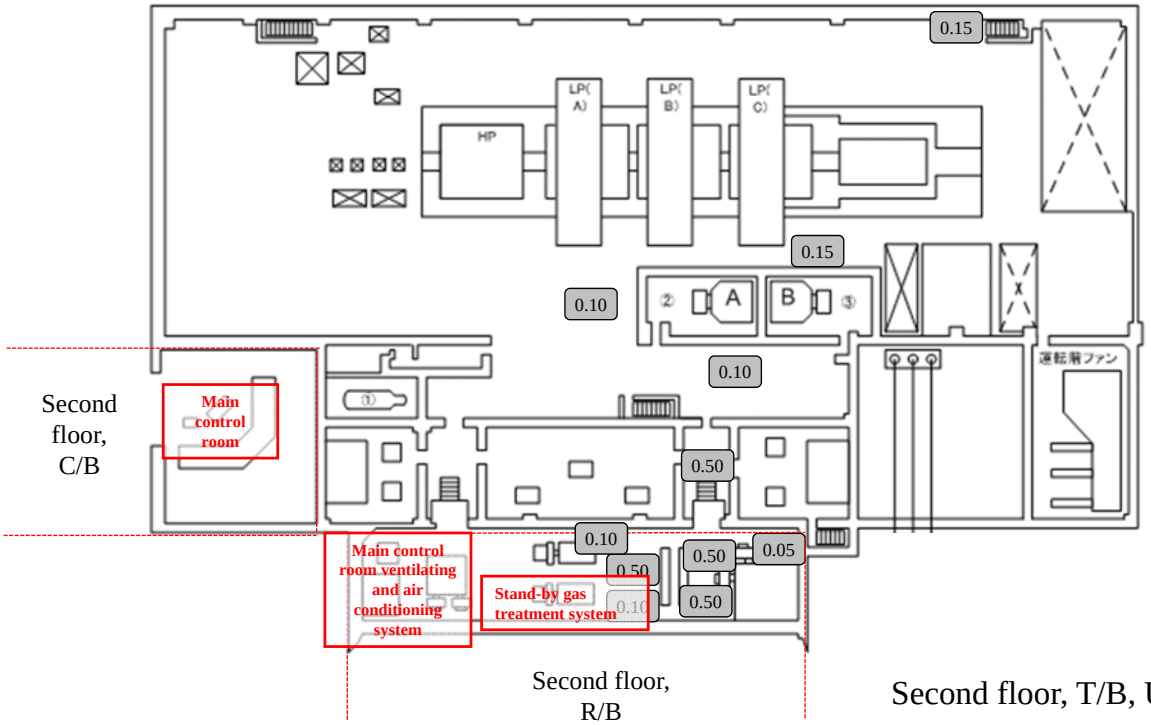
Basement mezzanine floor, R/B, Unit 4

Based on data and documents by Tokyo Electric Power Company



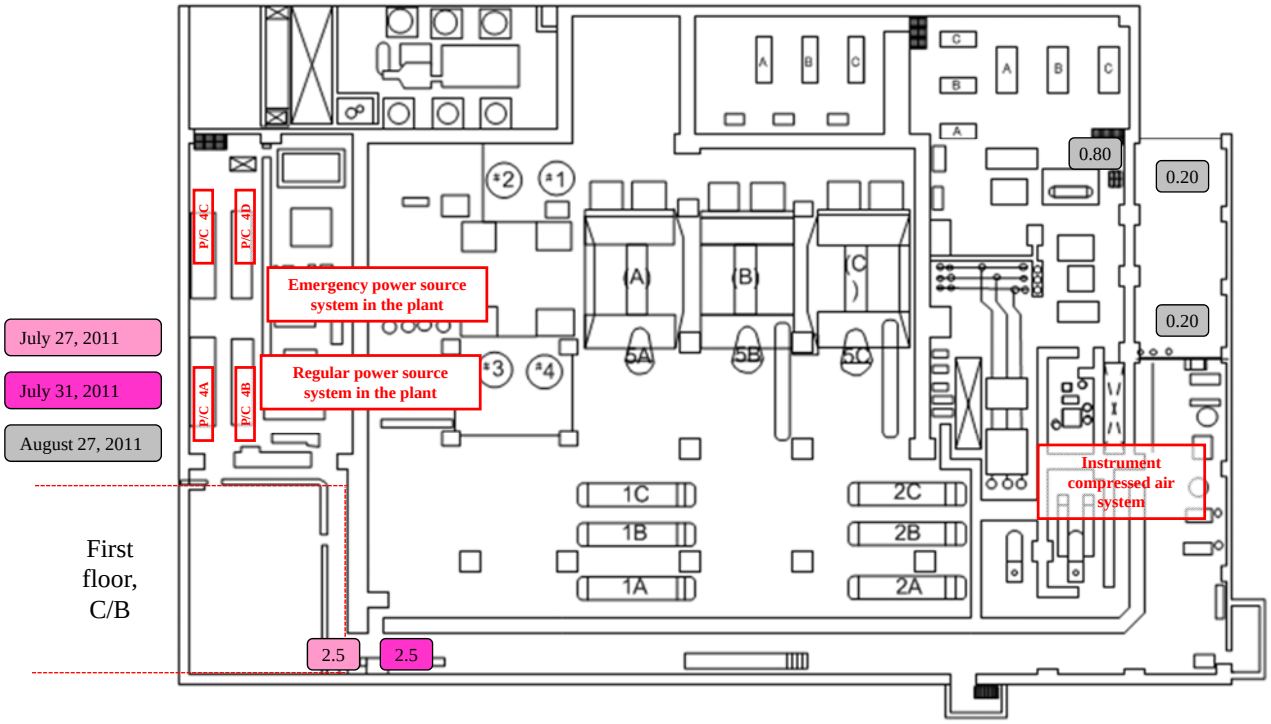
First basement floor, R/B, Unit 4

August 27, 2011

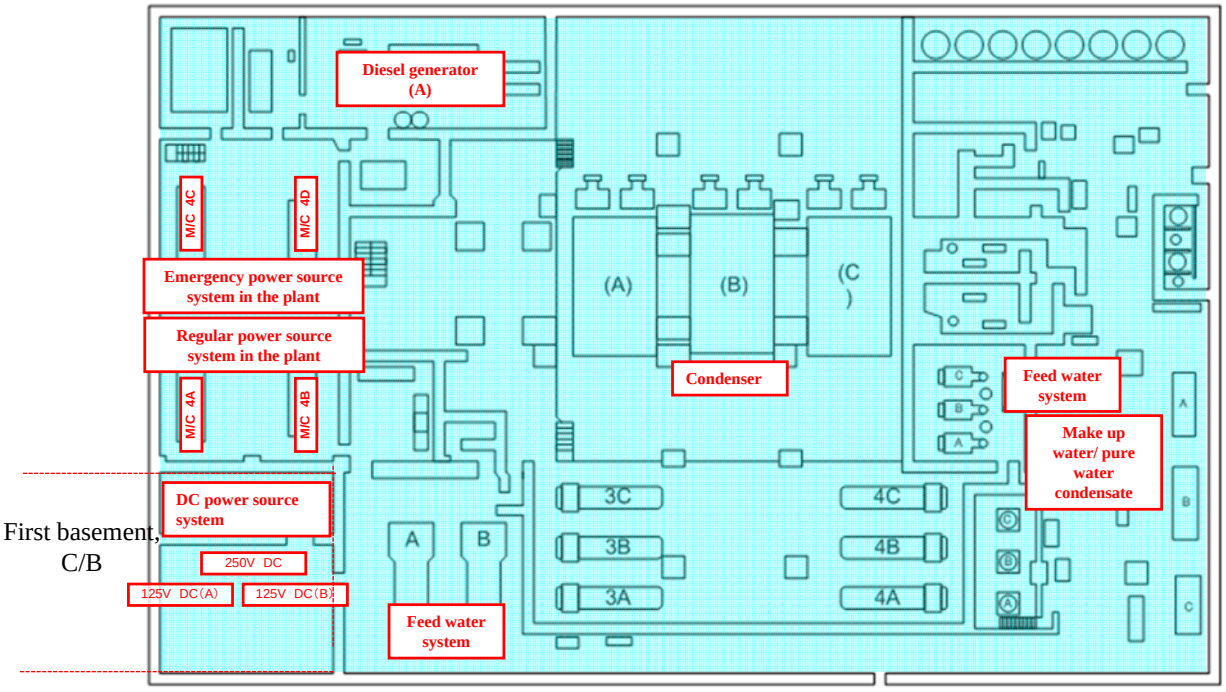


Second floor, T/B, Unit 4

Based on data and documents by Tokyo Electric Power Company



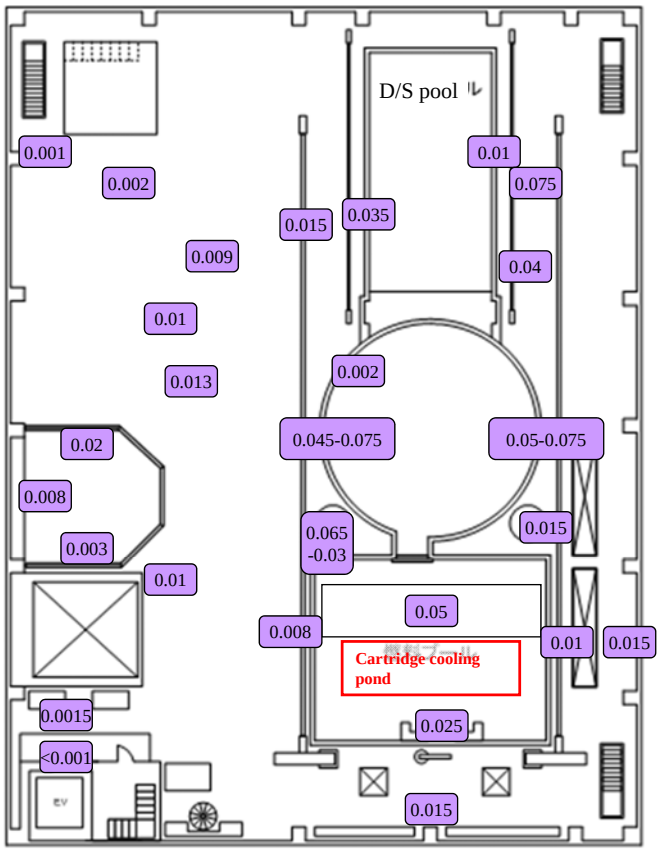
First floor, T/B, Unit 4



First basement floor, T/B, Unit 4

Based on data and documents by Tokyo Electric Power Company

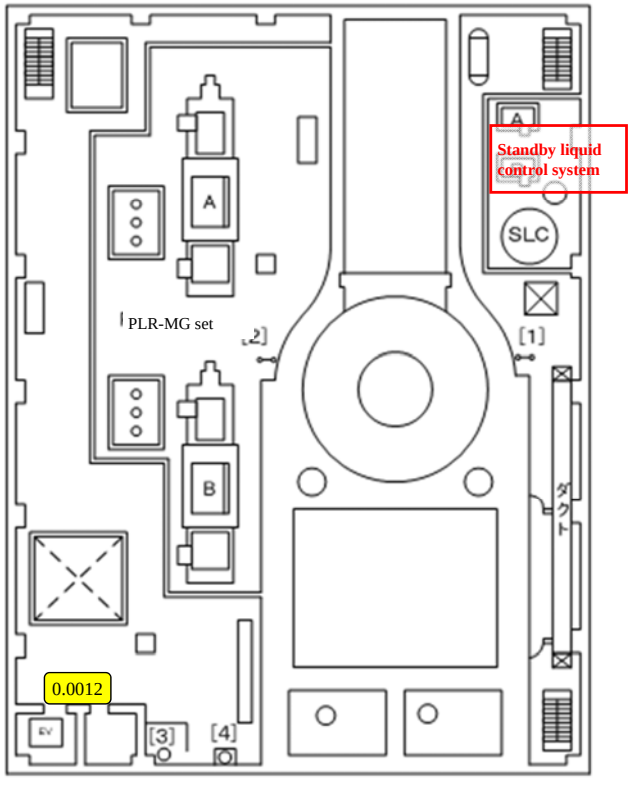
September 26, 2011



Fifth floor, R/B, Unit 5

The parts colored in pale-blue in the document indicate the areas where workers of Tokyo Electric Power Company confirmed residual water puddles from August 18 to 30.

July 22, 2011

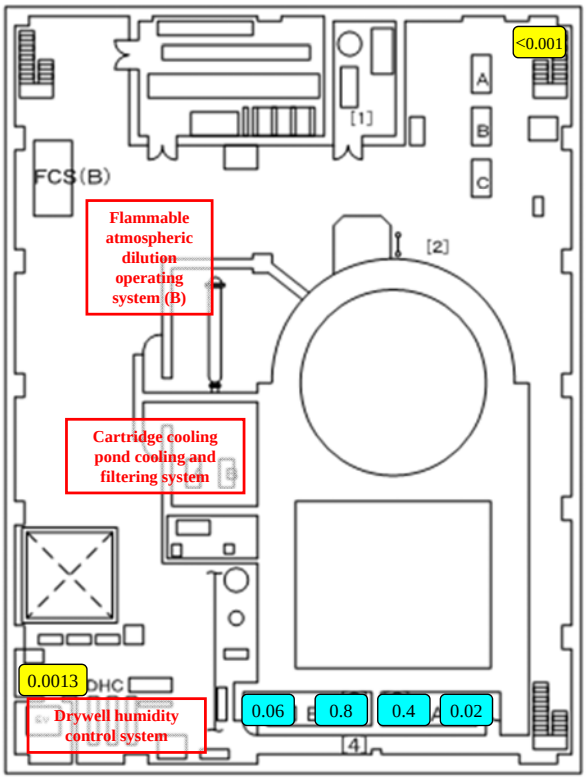


Fourth floor, R/B, Unit 5

Based on data and documents by Tokyo Electric Power Company

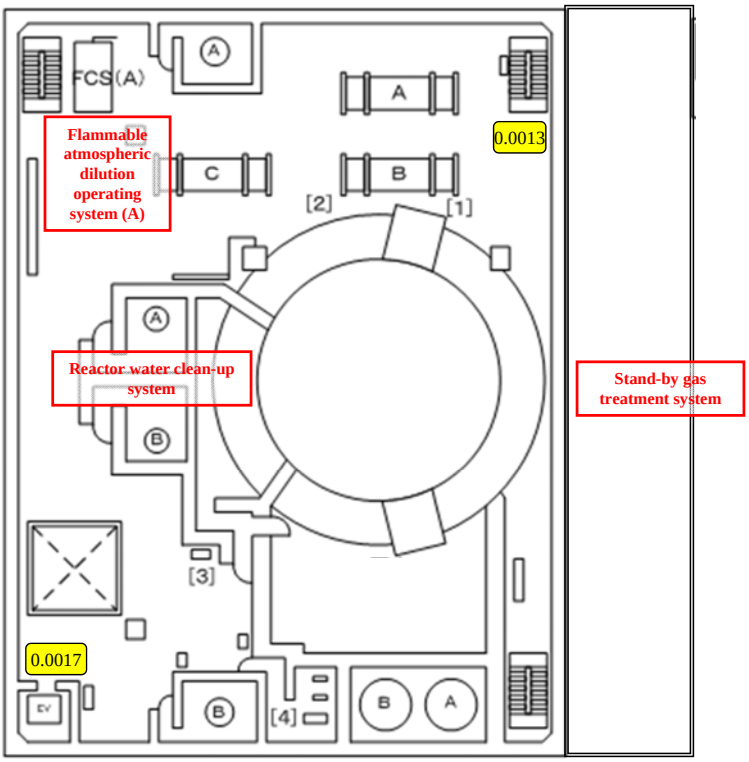
July 22, 2011

September 29, 2011



Third floor, R/B, Unit 5

July 22, 2011

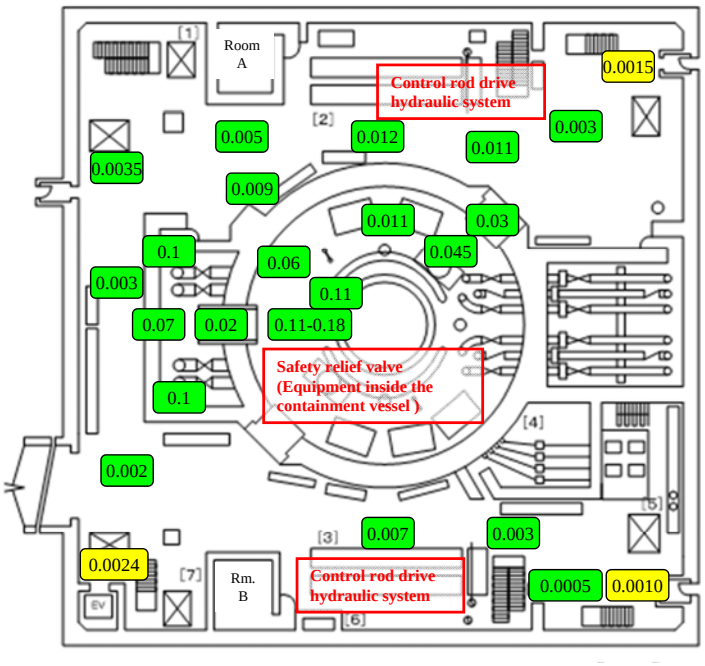


Second floor, R/B, Unit 5

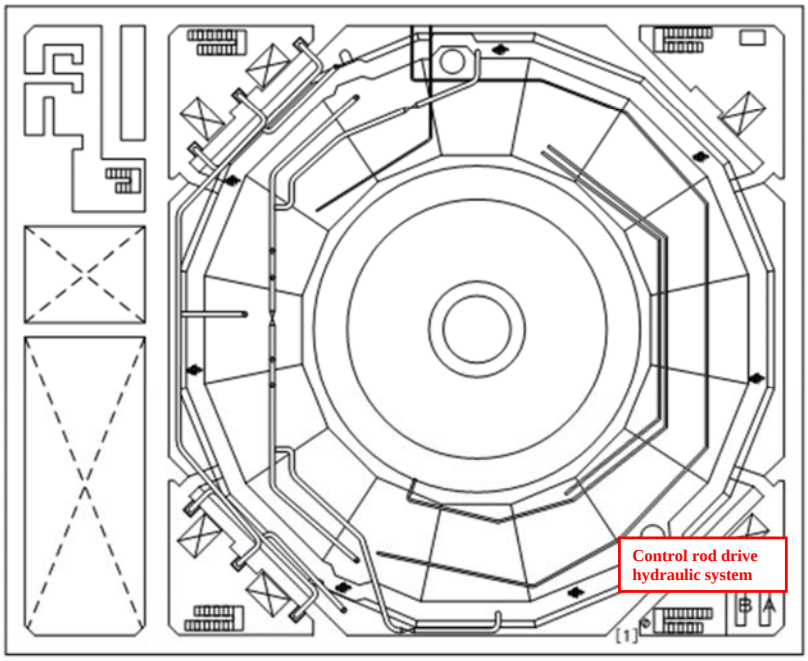
Based on data and documents by Tokyo Electric Power Company

July 22, 2011

September 27, 2011

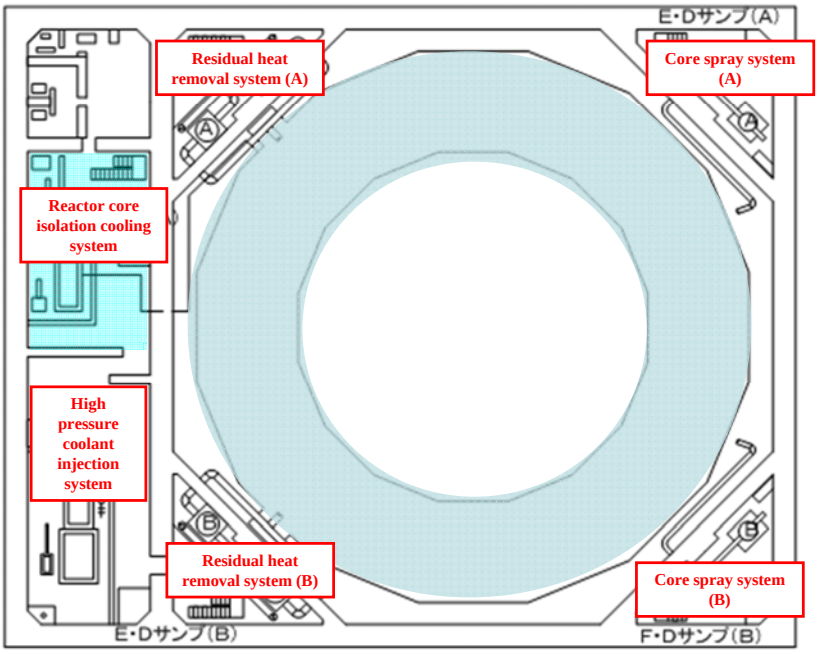


First floor, R/B, Unit 5



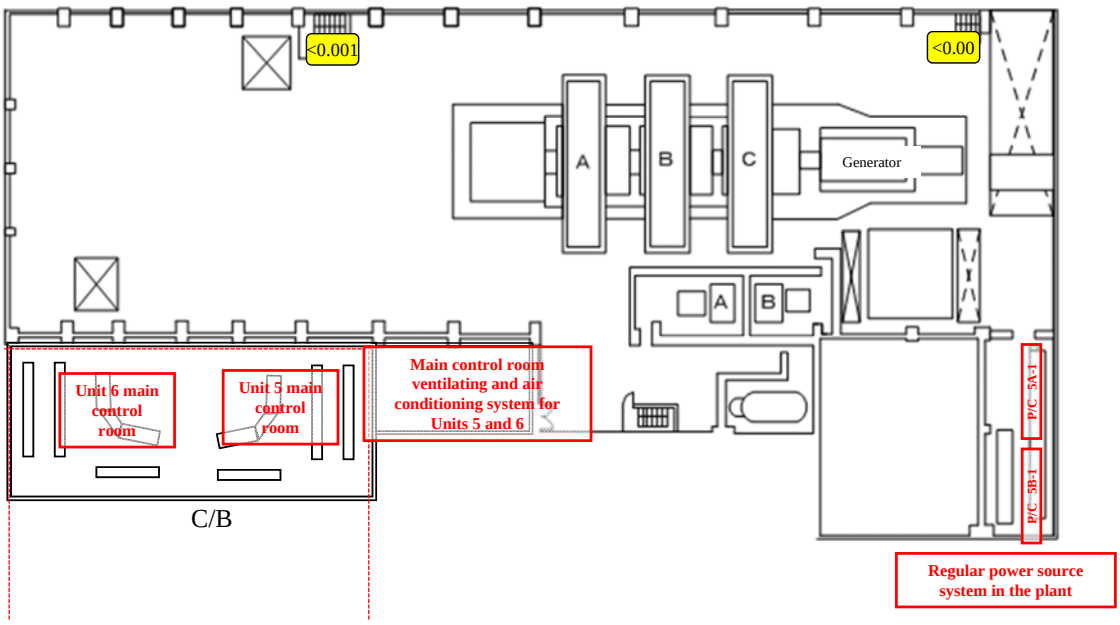
Basement mezzanine floor, R/B, Unit 5

Based on data and documents by Tokyo Electric Power Company



First basement floor, R/B, Unit 5

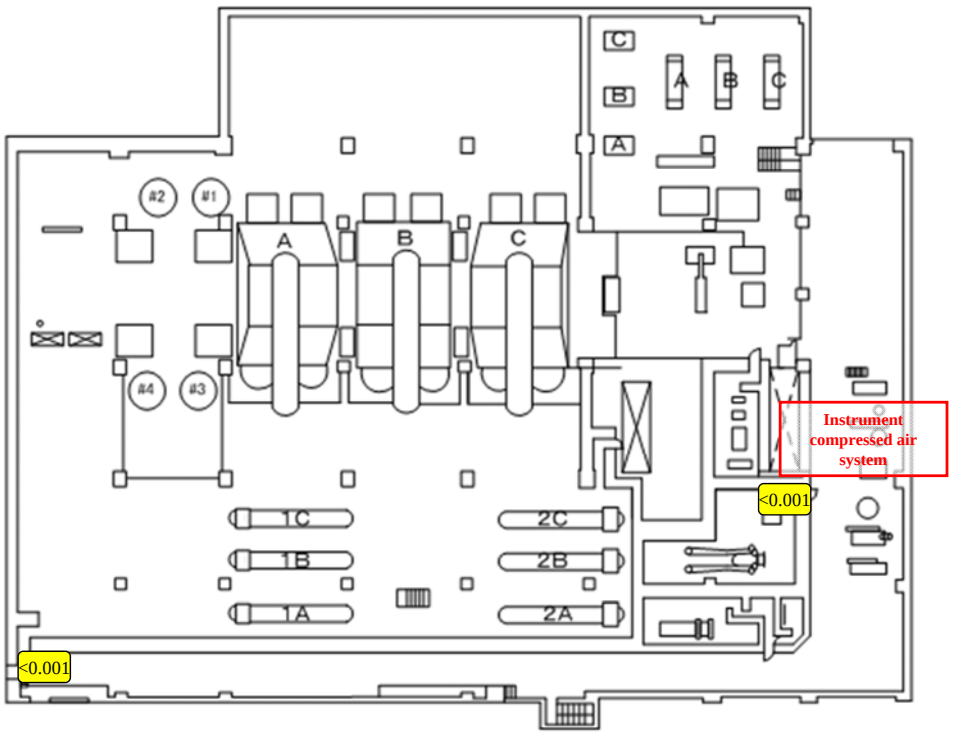
July 22, 2011



Second floor, T/B, Unit 5

Based on data and documents by Tokyo Electric Power Company

July 22, 2011

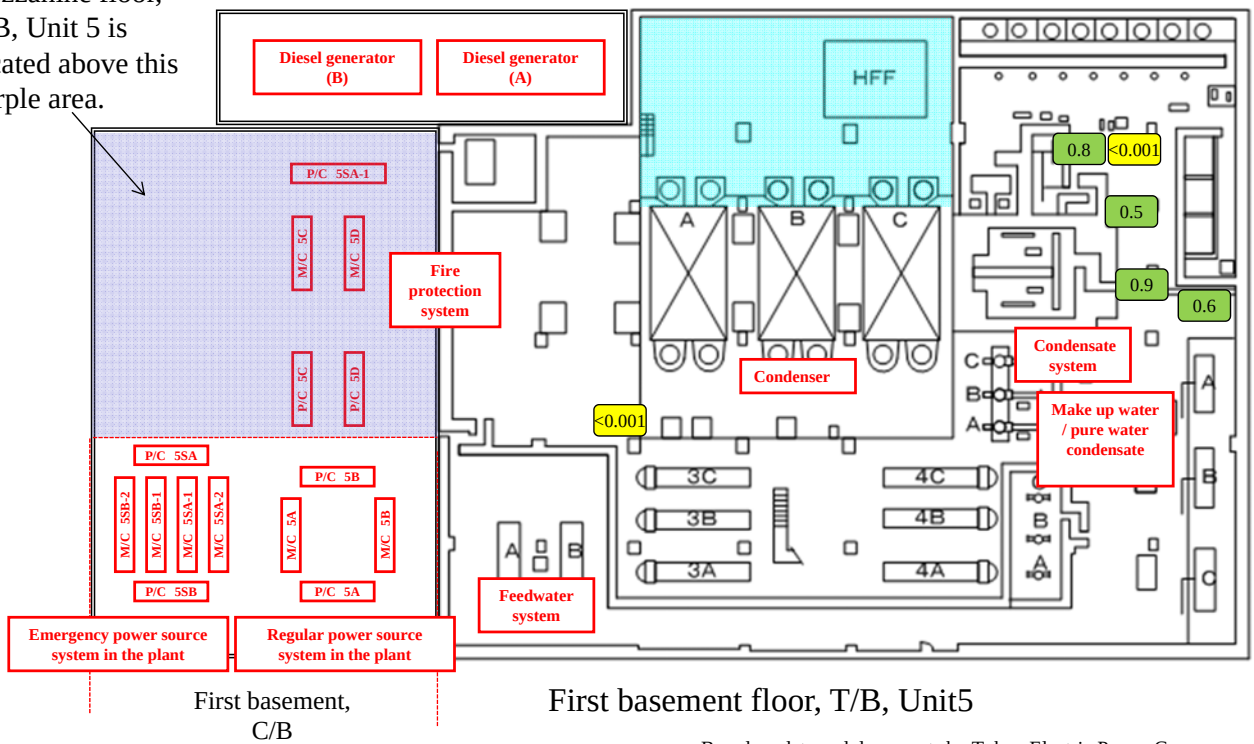


First floor, T/B, Unit 5

July 22, 2011

September 21, 2011

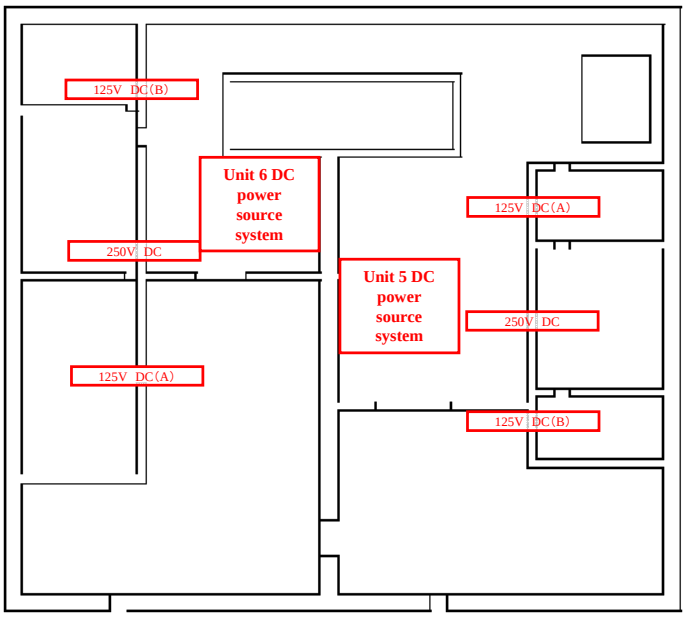
The basement mezzanine floor, T/B, Unit 5 is located above this purple area.



First basement, C/B

First basement floor, T/B, Unit5

Based on data and documents by Tokyo Electric Power Company



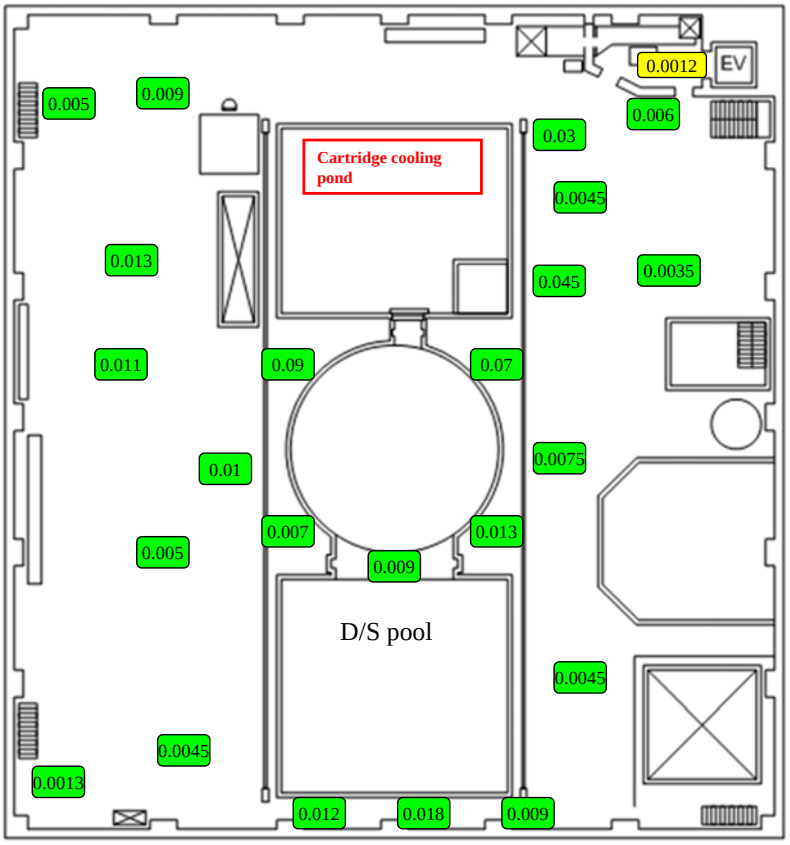
Basement mezzanine floor, T/B, Unit 5

- This basement mezzanine floor is located above the purple area on the first basement floor, T/B, Unit 5.
- The Unit 6 DC power source system is also installed on this floor.

Based on data and documents by Tokyo Electric Power Company

July 22, 2011

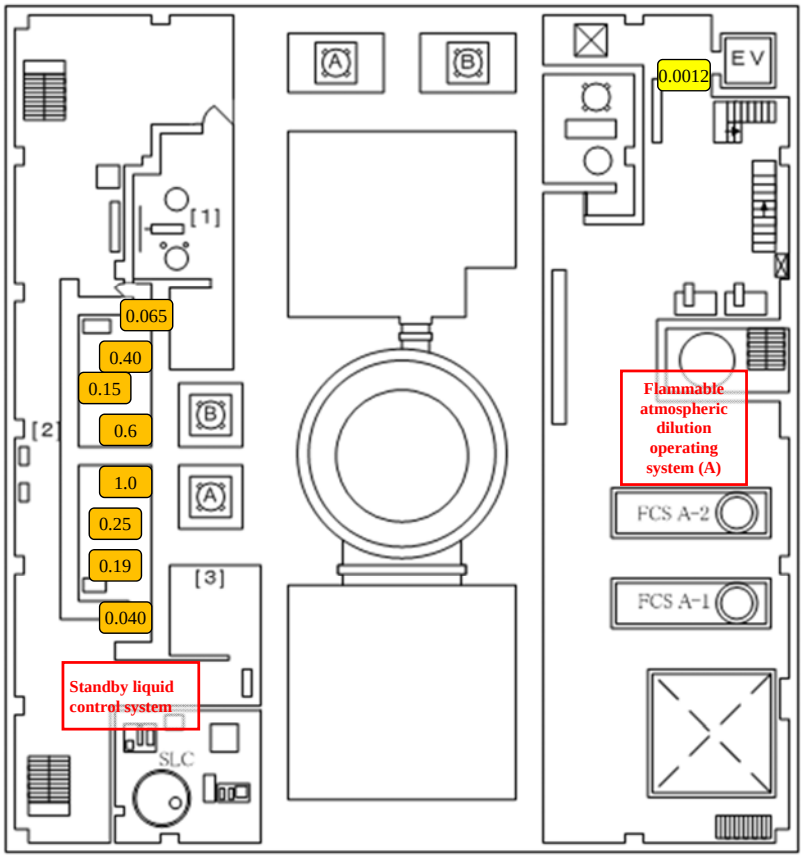
September 27, 2011



Sixth floor, R/B, Unit 6

July 22, 2011

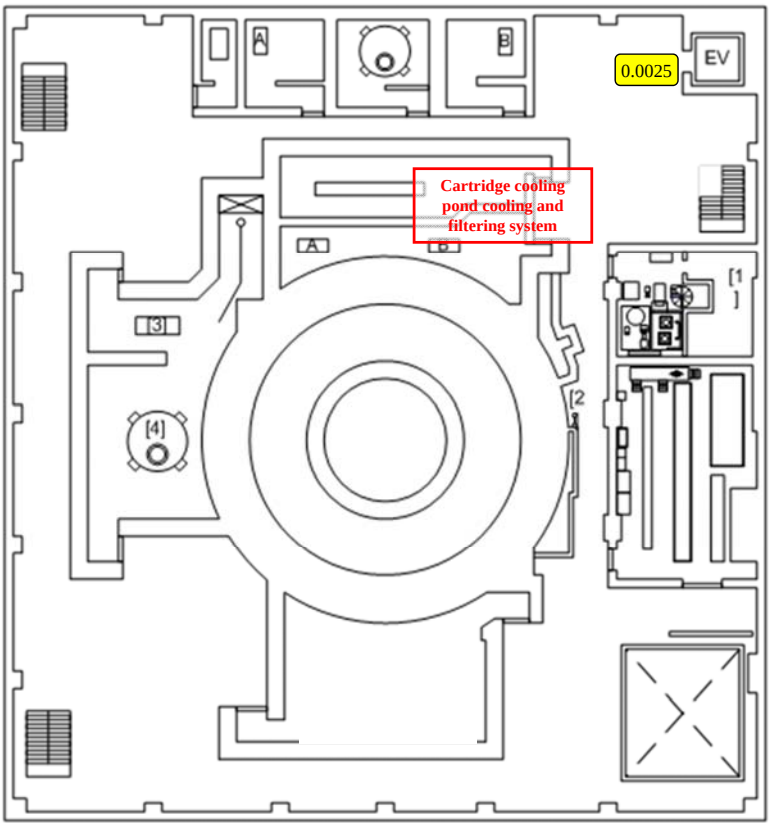
September 30, 2011



Fifth floor, R/B, Unit 6

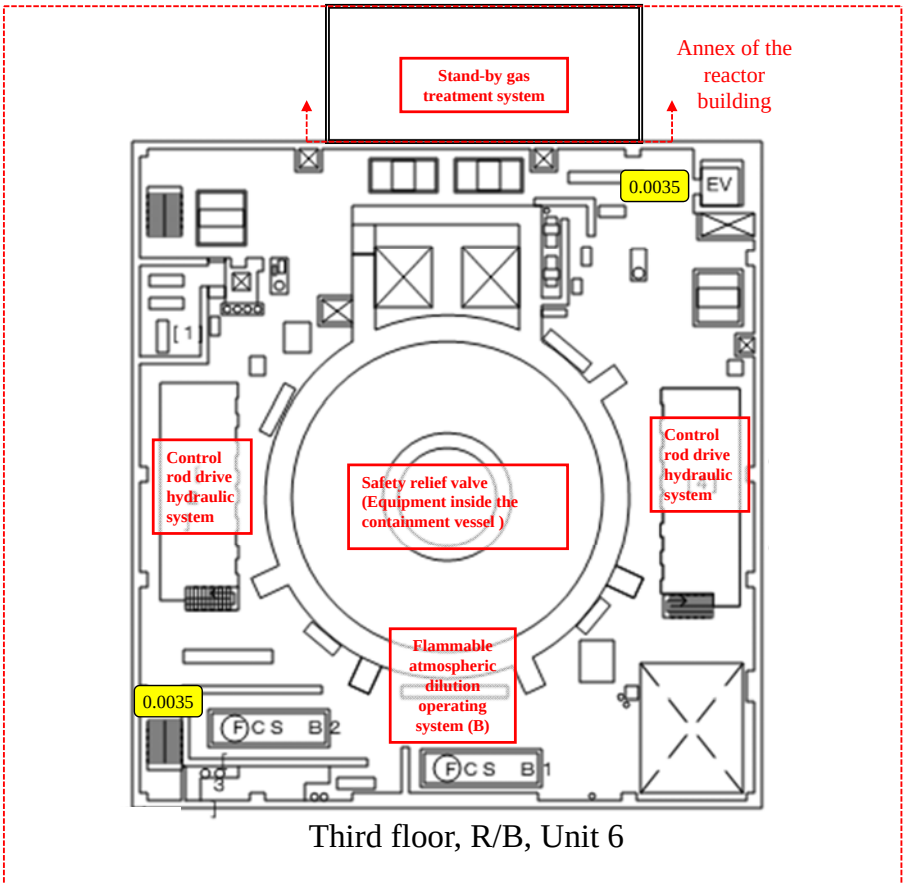
Based on data and documents by Tokyo Electric Power Company

July 22, 2011



Fourth floor, R/B, Unit 6

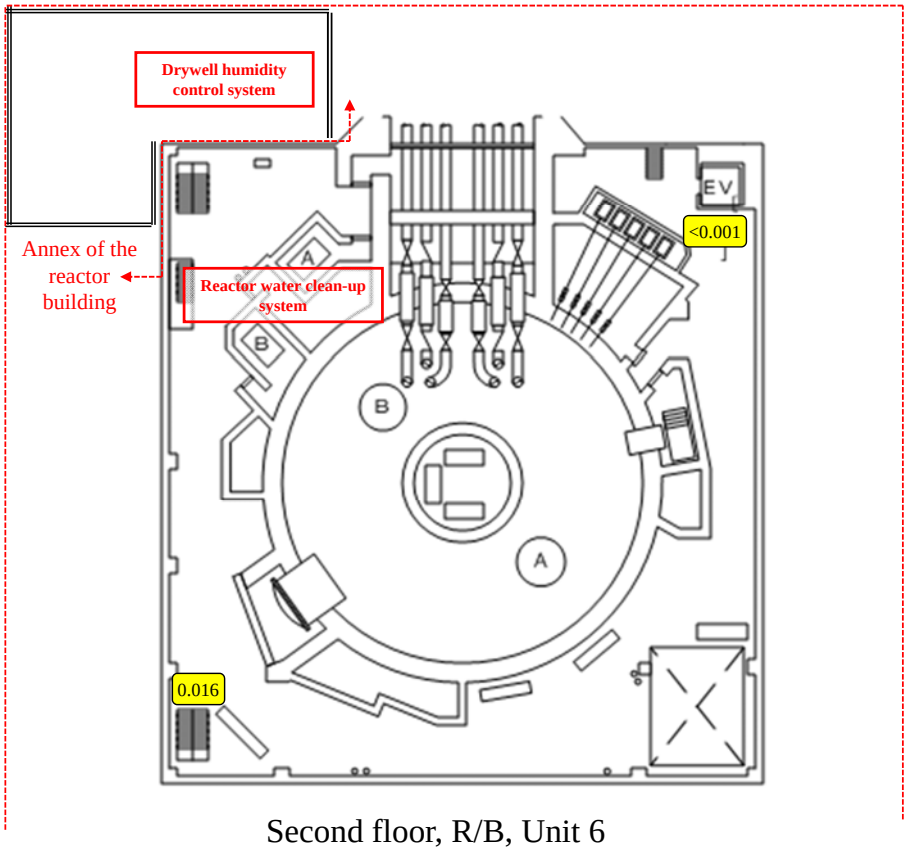
July 22, 2011



Third floor, R/B, Unit 6

Based on data and documents by Tokyo Electric Power Company

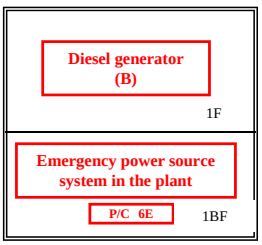
July 22, 2011



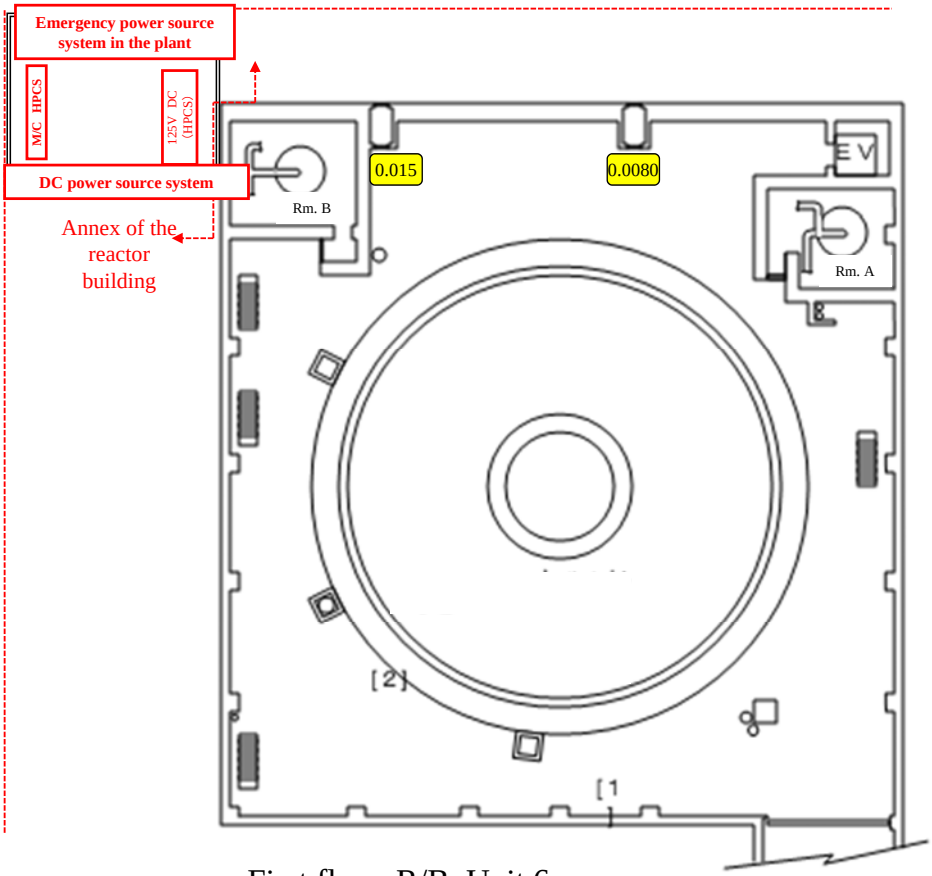
Second floor, R/B, Unit 6

July 22, 2011

Diesel generator building

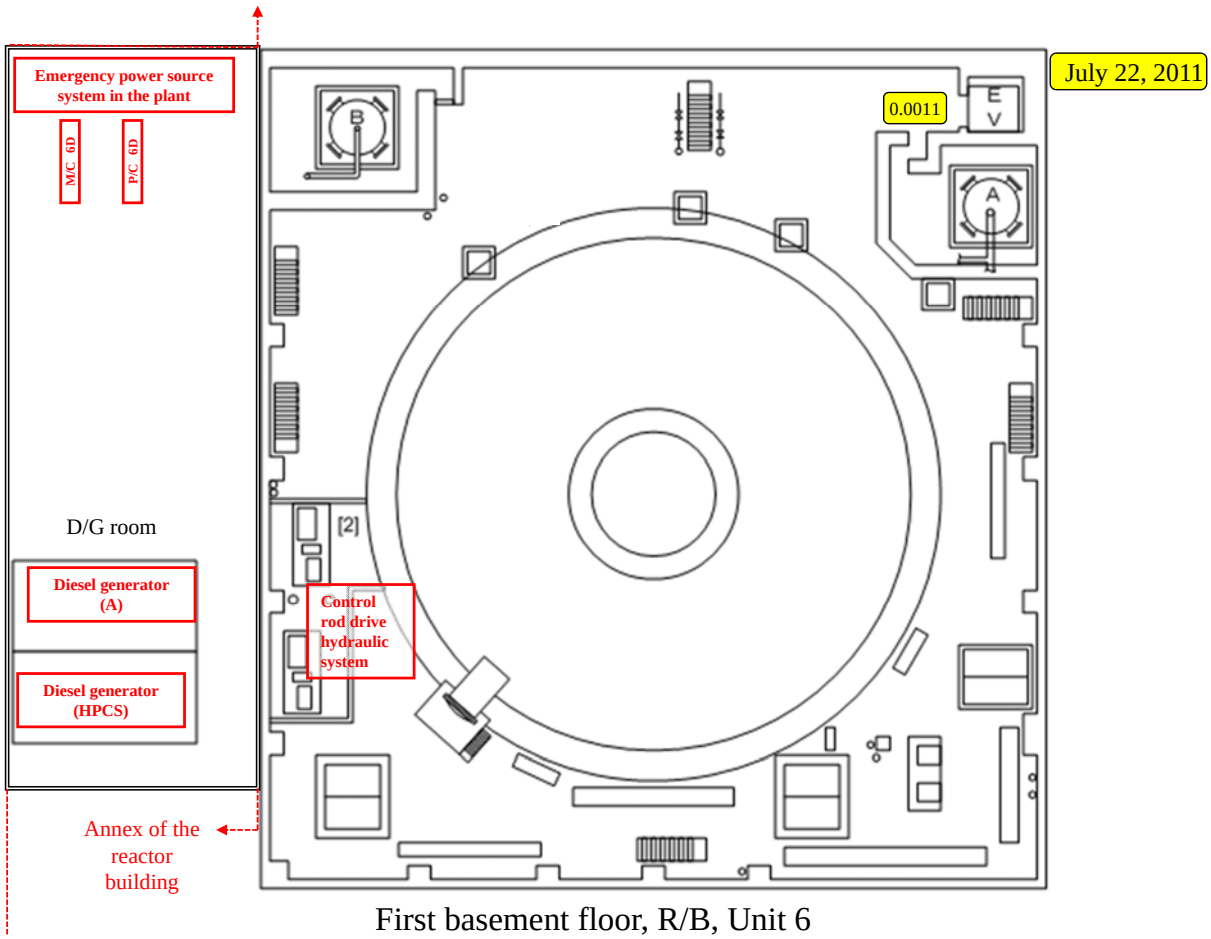


* Refer to Attachment II-4 for the location of the diesel generator building.

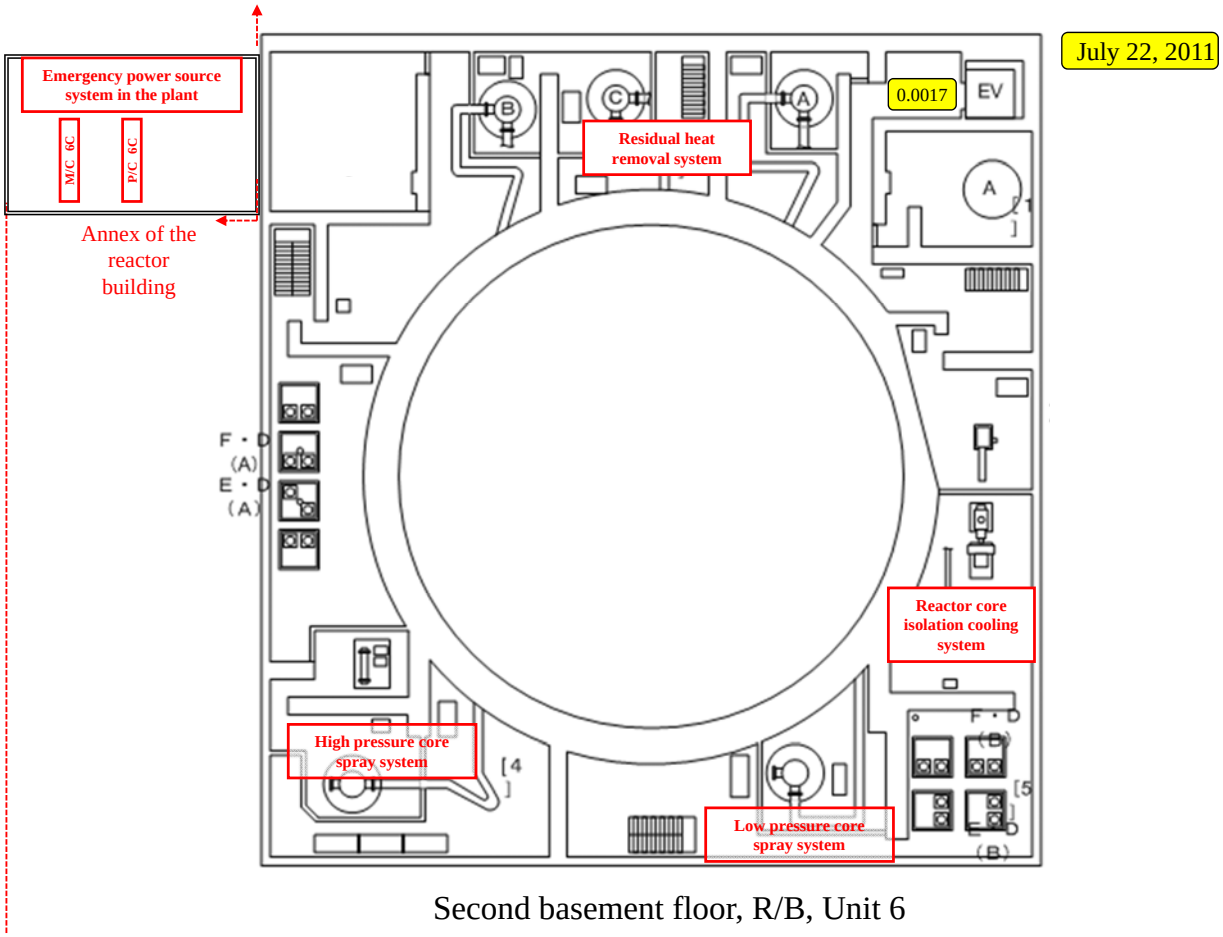


First floor, R/B, Unit 6

Based on data and documents by Tokyo Electric Power Company



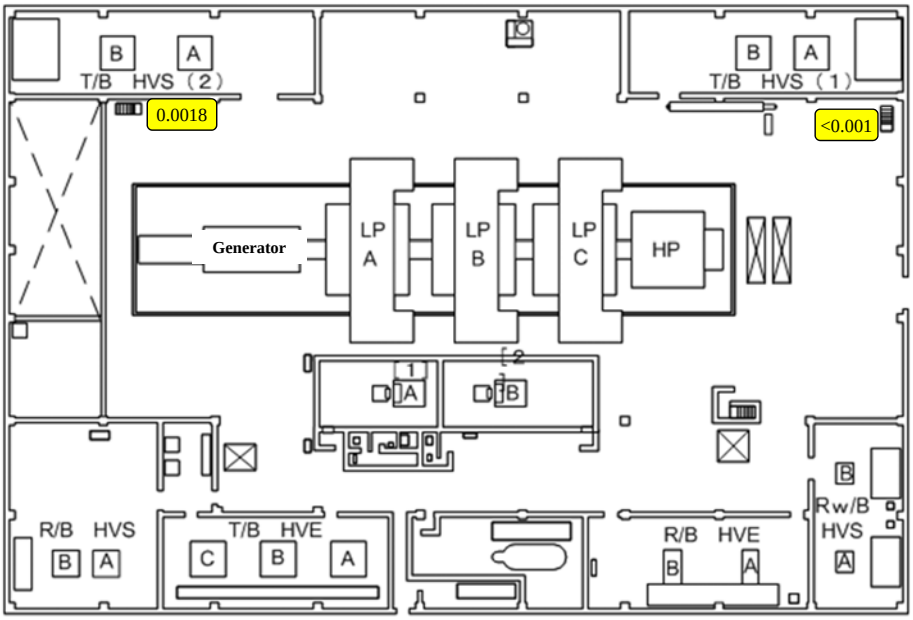
First basement floor, R/B, Unit 6



Second basement floor, R/B, Unit 6

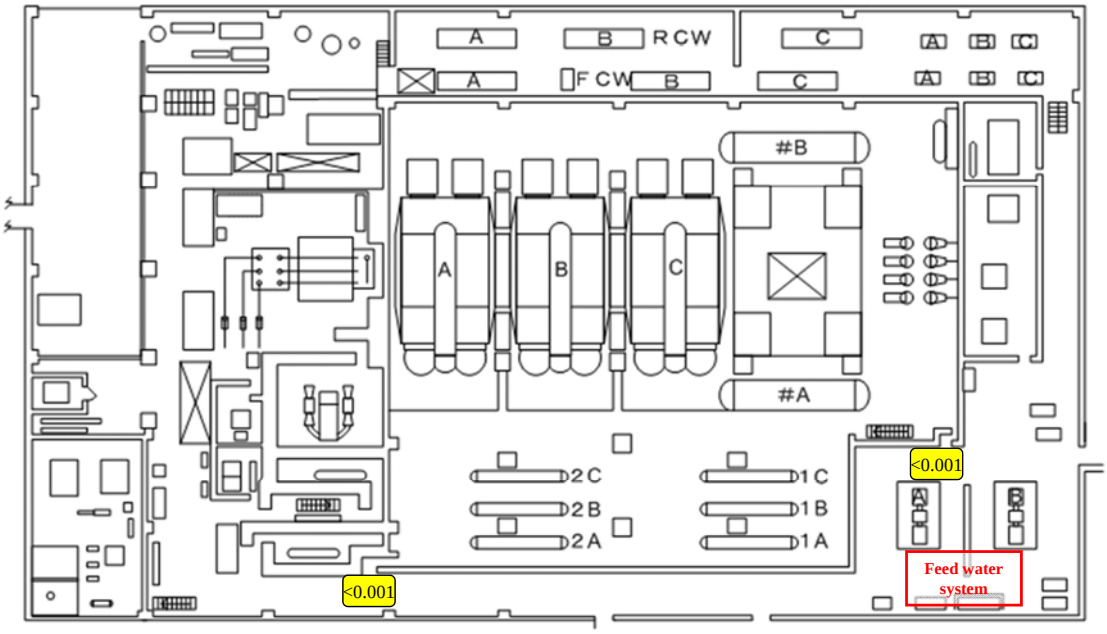
Based on data and documents by Tokyo Electric Power Company

July 22, 2011



Second floor, T/B, Unit 6

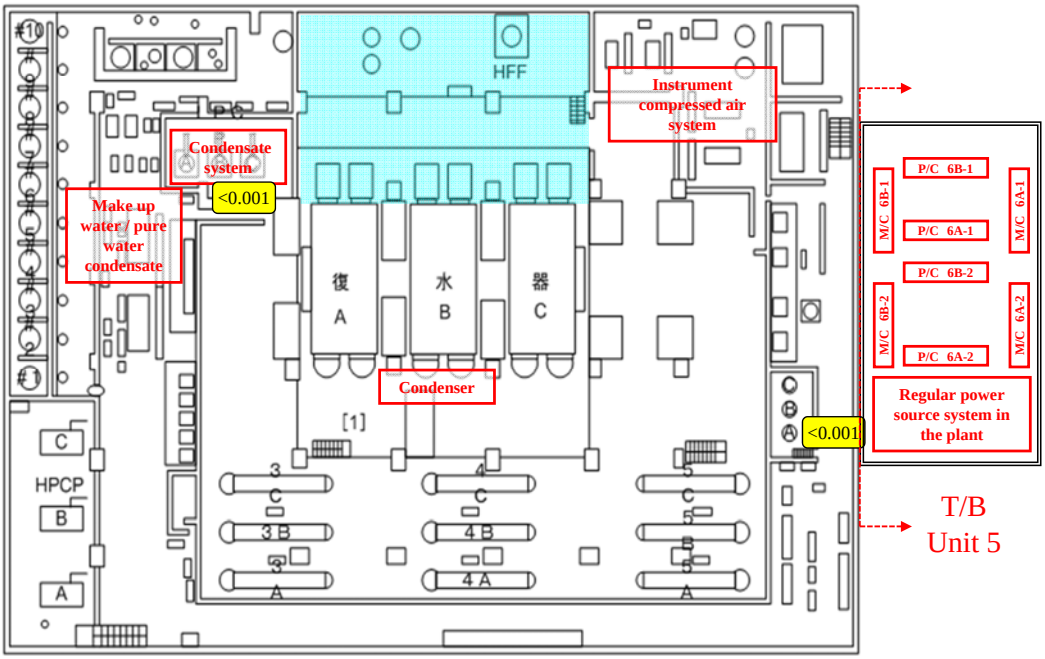
July 22, 2011



First floor, T/B, Unit 6

Based on data and documents by Tokyo Electric Power Company

July 22, 2011



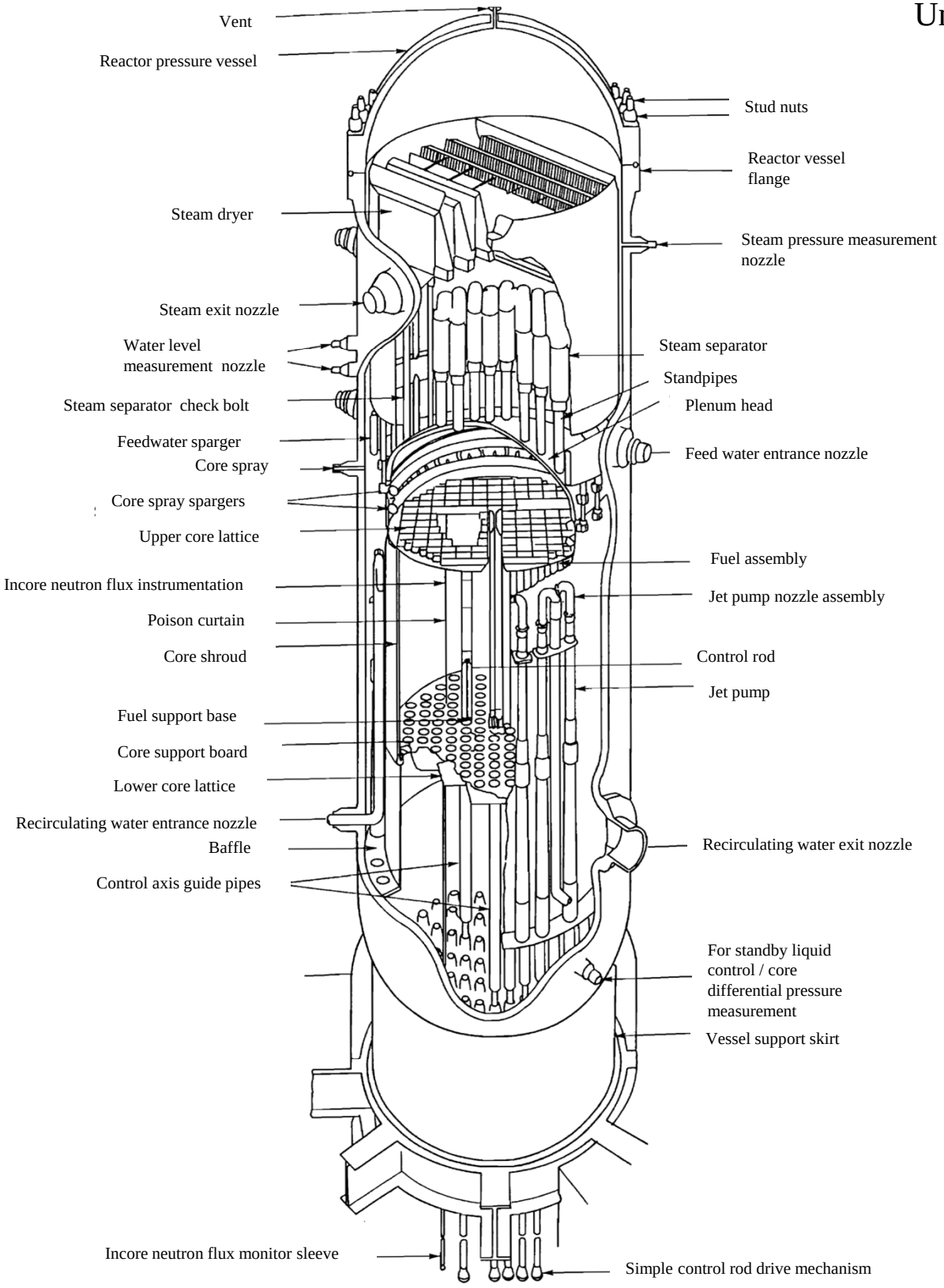
First basement floor, T/B, Unit 6

Based on data and documents by Tokyo Electric Power Company

Attachment II-13

Structures and components inside the reactor pressure vessel

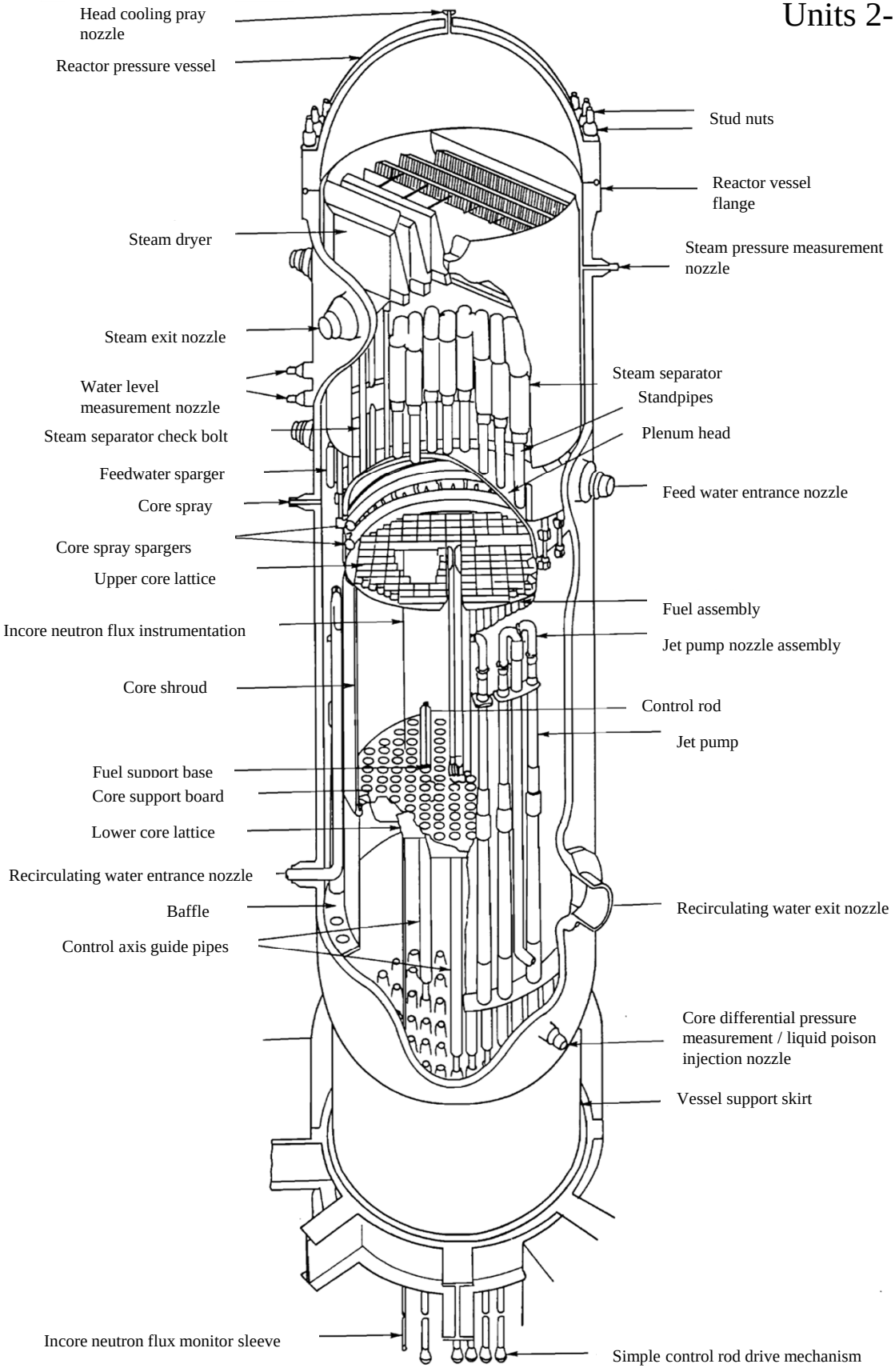
Unit 1



Source: Tokyo Electric Power Company, “Fukushima Dai-ichi NPS: Application for reactor establishment permit,” April 2002

Structures and components inside the reactor pressure vessel

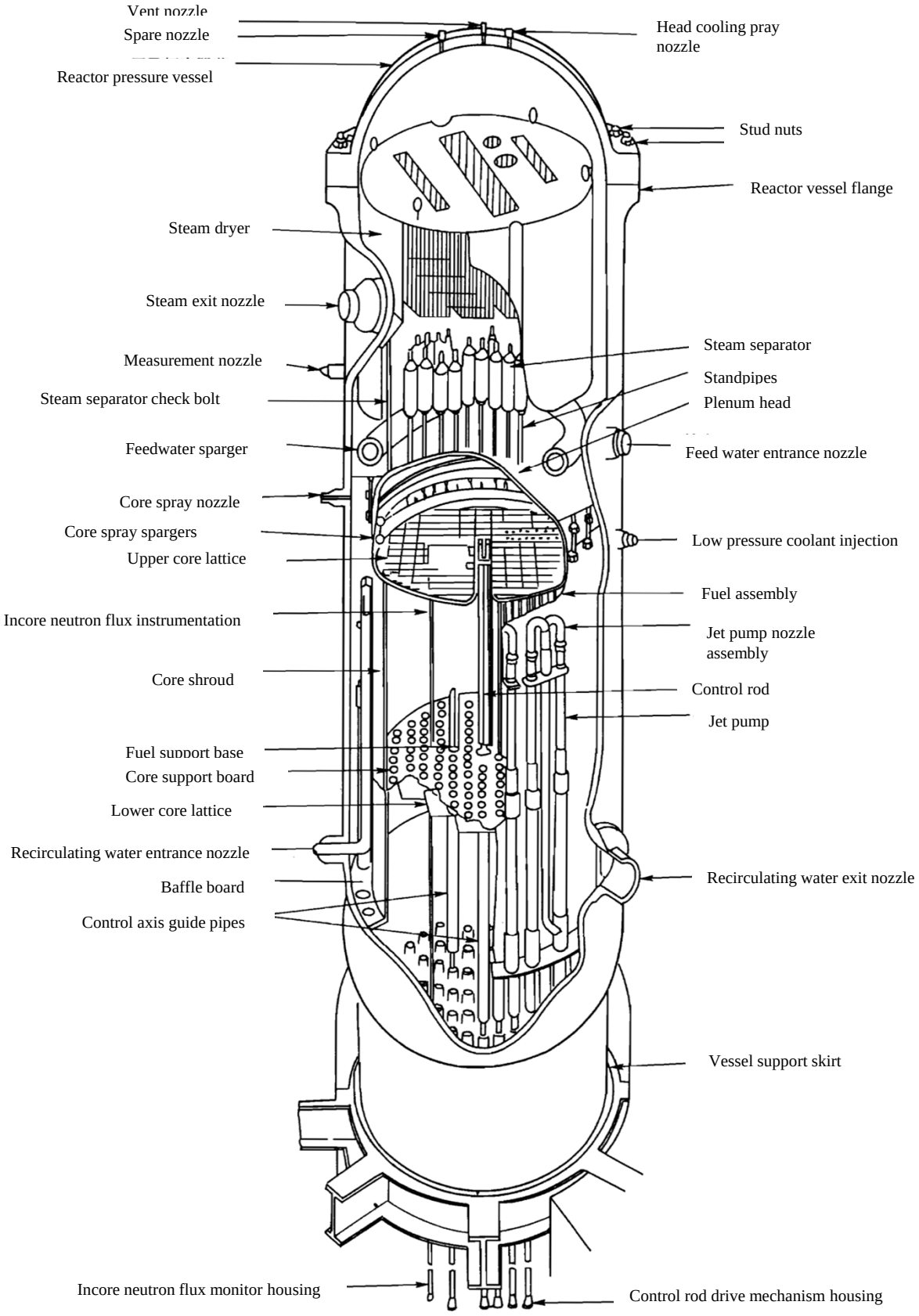
Units 2-5



Source: Tokyo Electric Power Company, “Fukushima Dai-ichi NPS: Application for permit for changes to reactor establishment” (as of June 2003)

Structures and components inside the reactor pressure vessel

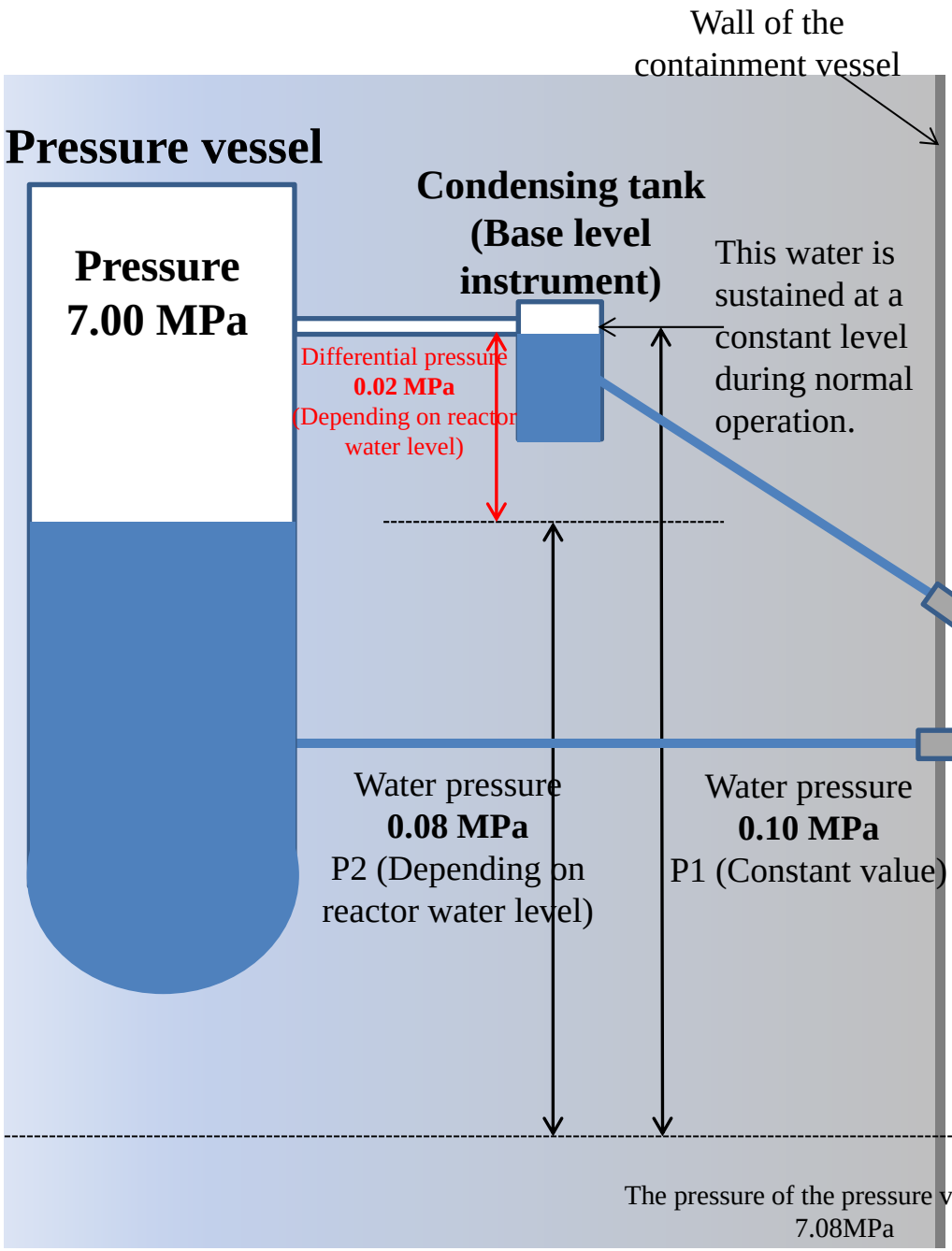
Unit 6



Source: Tokyo Electric Power Company, “Fukushima Dai-ichi NPS: Application for permit for changes to reactor establishment” (as of December 2010)

Principle of measurement by reactor water level and reactor pressure instrumentation systems

Based on data and documents by Tokyo Electric Power Company



<Reactor water gauge>

- The right side of the water gauge receives 7.10 MPa, the sum of the pressure inside the pressure vessel (7.00 MPa *1) and the pressure from the condensing tank level to the water gauge (P1 = 0.10 MPa *2).
- The left side of the water gauge receives 7.08 MPa, the sum of the pressure inside the pressure vessel (7.00 MPa) and the pressure from the pressure vessel level to the water gauge (P2 = 0.08 MPa *2).
- Therefore, the water gauge receives 7.10 MPa from the right and 7.08 MPa from the left. The pressure difference of 0.02 MPa is the force to push the diaphragm to the left.
- The mechanism is to detect the water level of the pressure vessel by electrically detecting the deflection amount of the diaphragm.

(The differential pressure increases as the water level of the reactor falls and decreases as the water level rises.)

<Reactor pressure gauge>

- Like the water gauge, the reactor pressure gauge also calculates the pressure inside the pressure vessel by electrically detecting the deflection amount of the diaphragm.

*1: 7.00 MPa is assumed here because the pressure inside a BWR pressure vessel with Electric output comparable to 1,000,000 kW generally turns out to be 7 MPa (refer to Attachment II-2).

*2: P1 and P2 are the values used for explanatory convenience and differ from actual water pressures.

Attachment II-14