

Utilities	Power station	A. Earthquake ground motion decided by identifying a hypocenter for each site					Evaluation result for B Earthquake ground motion decided without identifying a hypocenter (*)	Design basis earthquake ground motion(*)		Approach to decision and other comments	
		Earthquake for consideration						Evaluation results(*)	Ss (established this time)		S2 (reference)
		Hypocenter	Scale	Fault length	Main characteristics						
Hokkaido Electric Power Company	Tomari	Shiribetsugawa Fault	M7.0	16km	Newly considered	Both earthquake ground motion for response spectrum and fault model analysis were below the design basis earthquake ground motion Ss	450 gal	550 gal	370	To decide design basis earthquake ground motion Ss, consider additional margin to the earthquake ground motion evaluated in A and B	
		F _B -2 Fault	8.2	101km	Consider continuity of multiple faults						
Tohoku Electric Power Company	Higashidori	Hypothetical Northern Sanriku-oki earthquake (interplate earthquake)	8.3	-	Changed fault length from the former 15km	Both earthquake ground motion for response spectrum and fault model analysis were well below B indicated to the left	450	450	375	For intraplate earthquake, it is not established as an earthquake for consideration since the impact to the site is minimal Design basis earthquake ground motion Ss is represented by B (A is well below B)	
		Site eastern offshore fault (inland crustal earthquake)	6.8	14.5km							
	Onagawa	Hypothetical multi-segment Miyagi-oki earthquake (interplate earthquake)	8.2	-	Consider continuity of multiple faults	Response spectrum Ss-D:580 gal Fault model analysis Ss-F:445 gal	Ss-B:450	Ss-D:580 Ss-F:445 Ss-B:450	375	Ss-D:Establish earthquakes for consideration so that it envelopes the evaluation result of the earthquake ground motion based on response spectrum. Ss-F:Conduct earthquake ground evaluation based on fault model analysis for the earthquake for consideration, and select the one with the most impact.	
		Site lower side earthquake (ocean intraplate earthquake) F-6~F-9 fault	7.1 7.1	- 22km							
Tokyo Electric Power Company	Fukushima Daiichi	Shiozaki-oki earthquake (interplate earthquake)	7.5 7.3	-	In addition to the earthquake ground motion evaluation of the two earthquakes to the left (M7.5, M7.3) which occurred in November 1938, included the M7.0 earthquake which occurred in May of the same year, to establish the hypotheical Shiozaki-oki earthquake in which these 3 become a multi-segmented Shiozaki-oki earthquake group as the earthquake for consideration and conduct evaluation. Changed fault length from the former 18km	Ss-1:450	Ss-3:450	Ss-1:450 Ss-2:600 Ss-3:450	370	Ss-1:Establish so that it exceeds the evaluation results for inland crustal earthquake/interplate earthquake Ss-2:Establish so that it exceeds the evaluation results for ocean intraplate earthquake	
		Futaba fault(inland crustal earthquake)	7.6	47.5km							
	Fukushima Daini	2003 Miyagi-oki earthquake (ocean intraplate earthquake)	7.1	-	For evaluation, presume the hypocenter of the main earthquake to be within the ocean plate at the lower side of the site	Ss-2:600					
Chubu Electric Power Company	Hamaoka	Hypothetical Tokai earthquake	8.0	-	Consider continuity of multiple faults	Response spectrum Ss-D _H :800 Fault model analysis Ss-1 _H :617 Ss-2 _H :588 Ss-3 _H :766	Envelope Ss-D _H -	Ss-D _H :800 Ss-1 _H :617 Ss-2 _H :588 Ss-3 _H :766	600	Ss-1 _H :Hypothetical Tokai earthquake (empirical Green's function method) Ss-2 _H :Hypothetical Tokai earthquake (statistical Green's function method) Ss-3 _H :Hypothetical Tokai, Tonankai, Nankai earthquake(statistical Green's function method)	
		Hypothetical Tokai/Tonankai earthquake	8.4	-							
		Hypothetical Tokai/Tonankai/Nankai earthquake	8.7	-							
		Suruga Tootoumi 1589 earthquake (ocean intraplate earthquake)	6.7	-							
		Senoumi ocean basin west margin fault zone	7.4	34km							
Hokuriku Electric Power Company	Shiga	Sasanami-oki fault zone(total length)	7.6	43km	As a result of the active fault survey, considered the continuity of the Sasanami fault zone (eastern part) and the Sasanami fault zone (western part) just in case, even though they are considered to be single faults.	Response spectrum Ss-1:600 Fault model analysis Ss-2:482 Ss-3:509	450	Ss-1:600 Ss-2:482 Ss-3:509	490	Ss-2:Establish asperity based on survey results Ss-3:Establish asperity close to site Use Ss-1 as representative because B is significantly below Ss-1	
Kansai Electric Power Company	Mihama	C fault	6.9	18km	Newly considered	Response spectrum Ss-1 _H :600 Fault model analysis Ss-2 _H :430	Envelope both nuclear power plants Ss-1 _H	Ss-1 _H :600 Ss-2 _H :430	405	Ss-1 _H :Establish earthquakes for consideration so that it envelopes the evaluation result of the earthquake ground motion based on response spectrum. Ss-2 _H :Establish separately because part of the calculation result for Mihama Power Station exceeds Ss-1 _H as a result of conducting earthquake ground motion evaluations by fault model analysis of the earthquake for consideration.	
	Takahama	Fo-A fault	6.9	23km				Response spectrum Ss-1 _H :550	550		370
	Ohi							Response spectrum Ss-1 _H :600	600		405
Chugoku Electric Power Company	Shimane	Shinji fault	7.1	22km	Changed fault length from the former 10km Evaluation based on earthquake scale and epicenter location etc. according to documentation	600	450	600	456	Use A because B is enveloped by A	
Shikoku Electric Power Company	Ikata	Site frontal ocean fault group (inland crustal earthquake)	7.6	42km	Earthquake that has the most significant impact on the power plant To take uncertainty into consideration, evaluate making the fault plane a slope (fault slope angle 30°) Model of the Central Disaster Prevention Council Presume the maximum scale earthquake in the relevant region at the lower site of the site	Response spectrum Ss-1 :570 Fault model analysis Ss-2NS:318 Ss-2EW:298	Envelope Ss-1	Ss-1:570 Ss-2NS:318 Ss-2EW:298	473	Establish design basis earthquake ground motion Ss-1 so that it envelopes B and S2 based on the former guideline. Ss-1 envelopes both Ss-2NS and Ss-2EW	
		Hypothetical Nankai earthquake (interplate earthquake)	8.6	-							
		Hypothetical site lower side intraplate earthquake (ocean intraplate earthquake)	7.0	-							
Kyushu Electric Power Company	Genkai	Takekoba fault	6.9	5km	Evaluated previously as not impacting the site	Response spectrum Ss-1:500 Fault model analysis Ss-2:277 Ss-3:329	Envelope Ss-1	Ss-1:500 Ss-2:277 Ss-3:329	370	Ss-2:Partially exceeds Ss-1 for horizontal motion (Shiroyama Minami fault) Ss-3:Partially exceeds Ss-1 for vertical motion (Takekoba fault)	
		Shiroyama minami fault	7.0	19km							
	Sendai	Gotanda fault	6.9	19km	Evaluated previously as not impacting the site	Response spectrum Ss-1:540	Envelope Ss-1	540	372	The earthquake ground motion evaluation results by fault model analysis for A does not exceed Ss-1	
		F-A fault	6.9	18km							
		F-C fault	6.8	16km	Changed fault length from the former 10 km						

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		Earthquake for consideration					Evaluation results(*)	Ss (established this time)		S2 (reference)
		Hypocenter	Scale	Fault length	Main characteristics					
Japan Atomic Power Company	Tokai Daini	Kagoshimanaga 1896 earthquake (interplate earthquake)	7.3	-		· Response spectrum Ss-D _H :600 · Fault model analysis Ss-1 _H :516 Ss-1 _H (2):475	Envelope Ss-D _H	Ss-D _H :600 Ss-1 _H :516 Ss-1 _H (2):475	380	
		Southern area of Ibaraki pref. intraplate earthquake (ocean intraplate earthquake)	7.3	-						
		Kanto plains northwest margin fault zone (Inland crustal earthquake)	8.0	82km	Consider continuity of multiple faults					
	Tsuruga	Kaburaki fault	6.8	19km		· Response spectrum Ss-D _H :650 · Fault model analysis Ss-1 _H :498 Ss-1 _H (2):478	Envelope Ss-D _H	Ss-D _H :650 Ss-1 _H :498 Ss-1 _H (2):478	532	
		Urasoko-Uchiikemi	6.9	18km	Evaluated previously as having minimal impact on the site					
		Urasoko-Ikenokochi	6.9	25km	Evaluated previously as having minimal impact on the site					
		Northern side of Utsurogi Pass-Ikenokochi C fault series	6.9	23km	Changed fault length from the former 16 km					
		6.9	18km	Evaluated previously as having minimal impact on the site						

(*)Ss has both "horizontal motion" elements and "vertical motion" elements. The values indicated are representative values for "horizontal motion" for 0.02 sec. period.