Challenge measures Status Measures Status Challenge measures	Electric / Tr Oper No. of nuclear for No. of spent for Externate Emergen Core ar RPV str PCV str Core Goal of STEP 1  Cooling by mi Estal circulating Nitrogen gas Flooding of PC Securing head Improving  Fuel in SF Goal of STEP 1  Reliability in inject Circulatio Increase ar radioactively Goal of STEP 1  Securin  Transfer of rad Installation of Preventing core	nimum injection rate plishment of injection cooling injection into PCV CV after sealing leaks it exchange function work environment tegrity in SFP P cooling (April through July) by improvement ition operation in cooling with Hx and accumulation of contaminated water (April through July) g storage place	EDGs automatically  Damaged (core melt*1)  Limited damage and leakage  Damage and leakage suspected  Not functional  Stable cooling (circulating injection Injecting freshwater into the reactor via feed water line at 3.7 m3/h[6/30]  (Circulation started[6/27-]  Injection continued [4/6-]  Studying  Work for secondary-loop piping in progress (5/13-)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid  Unknown  Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high leverstorage capacity of 14800m3 (10)  Waste Treatment Facility as water -Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	Damaged (core melt*1)  Unknown  Damage and leakage suspected  Not functional  cooling reusing accumulated wat Injecting freshwater into the reactor via feed water line at 3.8 m3/h [6/30]  Injection line established following the radioactive water proce  Injection continued [6/28-]  Studying  Construction work to be started after improving the work environment g the work to restore reactor cooling, s underway in each unit. Large-scale wilty in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling  In operation  is accumulating in the R/B, T/B a el radioactive wastewater  1,000m3 + 4,800m3) for highly radio storage place. adioactive wastewater (storage called, low to middle level radioactive	Injecting freshwater into the reactor via feed water line at 9.0-9.1 m3/h [6/30]  ses facility starts its operation)  Work for injection line in progress [4/16-]  Studying  Construction work to be started after improving the work environment  Preparation work such as removing work inside the R/B started at unit-1 and  Unknown  Injection function recovered  Injection freshwater via SFP coolant clean up line. Bolic acid added to neutralize the alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r pacitive wastewater are secured by us apacity: approx. 10,000m3) to be installed.	No fuels loaded  No damage  No damage  Not required  — — — — — — — Most spent fuels not damaged*2 Not functional  Injecting freshwater via alternative injection line, Preparing system for cooling in a stable manner  Planned  m3 [5/31])  sing the Centralized Radiation	Decreasing the injection rate to prevent the overflow of the accumulated water in the facilities  Injecting corrosion inhibitor, hydrazine (H2NNH2), with freshwater [5/9–]	
Challenge measures Status Masures Status Challenge measures Status © S & C	Oper No. of nuclear fu No. of spent fu Externa Emergen Core ar RPV str PCV str Co Goal of STEP 1  Cooling by mi Estal circulating Nitrogen gas Flooding of PC Securing hea  Improving  Fuel in Reliabilit in inject Circulatio Increase ar radioactively Goal of STEP 1  Securing Transfer of rad Installation of Preventing cor	ation status els loaded in the reactor less stored in the SFP I power supply cy power supply ductural integrity uctural integrity re cooling (April through July) nimum injection rate colishment of injection cooling injection into PCV CV after sealing leaks t exchange function work environment tegrity in SFP P cooling (April through July) cy improvement tion operation n cooling with Hx and accumulation of contaminated water (April through July) g storage place	In service → Shutdown 400 292  EDGs automatically Damaged (core melt*1) Limited damage and leakage Damage and leakage suspected Not functional Stable cooling (circulating injection Injecting freshwater into the reactor via feed water line at 3.7 m3/h[6/30]  (Circulation started[6/27–] Injection continued [4/6–] Studying Work for secondary-loop piping in progress (5/13–) High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid Unknown Injection function recovered Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high level —Storage capacity of 14800m3 (10) Waste Treatment Facility as water -Underground tank for high level ra- Storage tanks to receive process Additional capacity to be installed	In service -> Shutdown  548  587  Stopped due for started up when the external pown pamaged (core melt*1)  Unknown  Damaged and leakage suspected Not functional not cooling reusing accumulated wat Injecting freshwater into the reactor via feed water line at 3.8 m3/h [6/30]  Injection line established following the radioactive water proce Injection continued [6/28-]  Studying  Construction work to be started after improving the work environment go the work to restore reactor coolings underway in each unit. Large-scale white in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling  In operation  is accumulating in the R/B, T/B and lea radioactive wastewater  1,000m3 + 4,800m3) for highly radio storage place.  adioactive wastewater (storage called, low to middle level radioactive wastewater (storage called)	In service -> Shutdown 548 514 to the earthquake er was lost but stopped later when ts  Damaged (core melt*1) Unknown  Damage and leakage suspected Not functional er)  Injecting freshwater into the reactor via feed water line at 9.0-9.1 m3/h [6/30]  ses facility starts its operation) Work for injection line in progress [4/16-] Studying  Construction work to be started after improving the work environment  Preparation work such as removing work inside the R/B started at unit-1 and  Unknown Injection function recovered  Injection function recovered  Injecting freshwater via SFP coolant clean up line. Bolic acid added to neutralize the alkalinized pool water [6/26,27] In trial operation  and RW/B of each unit. (about 91,800r  coactive wastewater are secured by us  apacity: approx. 10,000m3) to be instal	Outage  0 1331  Sunami hit the plants.  No fuels loaded  No damage  No trequired  — — — — — — — Most spent fuels not damaged*2  Not functional  Injecting freshwater via alternative injection line, Preparing system for cooling in a stable manner  Planned  m3 [5/31])  Sing the Centralized Radiation	Injecting corrosion inhibitor, hydrazine (H2NNH2), with freshwater [5/9-]	
Challenge measures Status Measures Status Challenge measures Status © S	No. of spent fu Externa Emergen Core ar RPV str PCV str Co Goal of STEP 1  Cooling by mi Estal circulating Nitrogen gas Flooding of PC Securing hea  Improving  Fuel in SF Goal of STEP 1  Reliabilit in inject Circulatio  Increase ar radioactively Goal of STEP 1  Securin  Transfer of rad Installation of Preventing cor	lels stored in the SFP I power supply by power supply by power supply did fuel integrity uctural integrity uctural integrity re cooling (April through July) nimum injection rate polishment of injection cooling injection into PCV by after sealing leaks the exchange function work environment the exchange function the exchange function work environment in the exchange function in cooling with Hx and accumulation of contaminated water (April through July) in groups of storage place dioactive waster water process facility.	EDGs automatically  Damaged (core melt*1)  Limited damage and leakage  Damage and leakage suspected  Not functional  Stable cooling (circulating injection Injecting freshwater into the reactor via feed water line at 3.7 m3/h[6/30]  (Circulation started[6/27-]  Injection continued [4/6-]  Studying  Work for secondary-loop piping in progress (5/13-)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid  Unknown  Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high leverstorage capacity of 14800m3 (10)  Waste Treatment Facility as water -Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	Stopped due is started up when the external pow Damaged (core melt*1)  Unknown  Damage and leakage suspected  Not functional in cooling reusing accumulated wat Injecting freshwater into the reactor via feed water line at 3.8 m3/h  [6/30]  Injection line established following the radioactive water proce Injection continued [6/28–]  Studying  Construction work to be started after improving the work environment go the work to restore reactor cooling, and underway in each unit. Large—scale wilty in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling  In operation  is accumulating in the R/B, T/B are radioactive wastewater  1,000m3 + 4,800m3) for highly radio storage place.  adioactive wastewater (storage caled, low to middle level radioactive asternal power of the storage caled, low to middle level radioactive.	to the earthquake  ter was lost but stopped later when ts    Unknown	Injecting freshwater via alternative injection line, Preparing system for cooling in a stable manner  Planned  1331  No fuels loaded  No damage  Not required  — — — — — — — — Most spent fuels not damaged*2  Not functional  Injecting freshwater via alternative injection line, Preparing system for cooling in a stable manner  Planned  m3 [5/31])  sing the Centralized Radiation	Injecting corrosion inhibitor, hydrazine (H2NNH2), with freshwater [5/9-]	
Challenge measures Status Measures Status Challenge measures Status	Emergen Core ar RPV str PCV str Co Goal of STEP 1 Cooling by mi Estal circulating Nitrogen gas Flooding of PC Securing hea Improving Fuel in SF Goal of STEP 1 Reliabilitin in inject Circulatio Increase ar radioactively Goal of STEP 1 Securin Transfer of rad Installation of Preventing cor	cy power supply d fuel integrity uctural integrity uctural integrity re cooling (April through July) nimum injection rate olishment of injection cooling injection into PCV CV after sealing leaks t exchange function work environment tegrity in SFP P cooling (April through July) cy improvement tion operation in cooling with Hx and accumulation of contaminated water (April through July) g storage place	Damaged (core melt*1)  Limited damage and leakage  Damage and leakage suspected  Not functional  Stable cooling (circulating injection Injecting freshwater into the reactor via feed water line at 3.7 m3/h[6/30]  (Circulation started[6/27-] Injection continued [4/6-]  Studying  Work for secondary-loop piping in progress (5/13-)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid  Unknown Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high leve -Storage capacity of 14800m3 (10) Waste Treatment Facility as water -Underground tank for high level ra- Storage tanks to receive process Additional capacity to be installed	Damaged (core melt*1)  Unknown  Damage and leakage suspected  Not functional  cooling reusing accumulated wat Injecting freshwater into the reactor via feed water line at 3.8 m3/h [6/30]  Injection line established following the radioactive water proce  Injection continued [6/28-]  Studying  Construction work to be started after improving the work environment g the work to restore reactor cooling, s underway in each unit. Large-scale wilty in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling  In operation  is accumulating in the R/B, T/B a el radioactive wastewater  1,000m3 + 4,800m3) for highly radio storage place. adioactive wastewater (storage called, low to middle level radioactive	Damaged (core melt*1)  Unknown  Damage and leakage suspected  Not functional  Ter)  Injecting freshwater into the reactor via feed water line at 9.0-9.1 m3/h  [6/30]  Poss facility starts its operation)  Work for injection line in progress  [4/16-]  Studying  Construction work to be started after improving the work environment  Preparation work such as removing work inside the R/B started at unit-1 and  Unknown  Injection function recovered  Injection function recovered  Injection function recovered  Algorithm of the started and pline.  Bolic acid added to neutralize the alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r)  Coactive wastewater are secured by us apacity: approx. 10,000m3) to be installed.	No fuels loaded  No damage  No damage  Not required  — — — — — — — Most spent fuels not damaged*2 Not functional  Injecting freshwater via alternative injection line, Preparing system for cooling in a stable manner  Planned  m3 [5/31])  sing the Centralized Radiation	Injecting corrosion inhibitor, hydrazine (H2NNH2), with freshwater [5/9-]	
Challenge measures Status measures Status Challenge measures	Core ar RPV str PCV str Co Goal of STEP 1  Cooling by mi Estal circulating Nitrogen gas Flooding of PC Securing hea  Improving  Fuel in SF Goal of STEP 1  Reliabilitin in inject Circulatio  Increase ar radioactively Goal of STEP 1  Securin  Transfer of rad Installation of Preventing cor	Independent of the process of acility of the process of t	Limited damage and leakage  Damage and leakage suspected  Not functional  Stable cooling (circulating injection Injecting freshwater into the reactor via feed water line at 3.7 m3/h[6/30]  (Circulation started[6/27-]  Injection continued [4/6-]  Studying  Work for secondary-loop piping in progress (5/13-)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid  Unknown  Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high leverstorage capacity of 14800m3 (10) Waste Treatment Facility as water -Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	Unknown  Damage and leakage suspected  Not functional In cooling reusing accumulated wat Injecting freshwater into the reactor via feed water line at 3.8 m3/h [6/30] Injection line established following the radioactive water proce Injection continued [6/28–]  Studying  Construction work to be started after improving the work environment g the work to restore reactor cooling, s underway in each unit. Large-scale v lity in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling In operation  is accumulating in the R/B, T/B a let radioactive wastewater 1,000m3 + 4,800m3) for highly radio storage place. adioactive wastewater (storage called, low to middle level radioactive	Unknown  Damage and leakage suspected  Not functional  Ler)  Injecting freshwater into the reactor via feed water line at 9.0-9.1 m3/h  [6/30]  Less facility starts its operation)  Work for injection line in progress [4/16-]  Studying  Construction work to be started after improving the work environment  Preparation work such as removing work inside the R/B started at unit-1 and  Unknown  Injection function recovered  Injection freshwater via SFP coolant clean up line. Bolic acid added to neutralize the alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r coactive wastewater are secured by us apacity: approx. 10,000m3) to be installed.	No damage Not required  Not spent fuels not damaged*2  Not functional  Injecting freshwater via alternative injection line, Preparing system for cooling in a stable manner  Planned  M3 [5/31])	Injecting corrosion inhibitor, hydrazine (H2NNH2), with freshwater [5/9-]	
Challenge measures Status measures Status Challenge measures	PCV str Co Goal of STEP 1  Cooling by mi Estal circulating Nitrogen gas Flooding of PC Securing hea  Improving  Fuel in SF Goal of STEP 1  Reliabiliting in inject Circulatio Increase ar radioactively Goal of STEP 1  Securing Transfer of rad Installation of Preventing cor	uctural integrity re cooling (April through July) nimum injection rate plishment of injection cooling injection into PCV CV after sealing leaks it exchange function work environment tegrity in SFP P cooling (April through July) Ty improvement tion operation In cooling with Hx Ind accumulation of contaminated water (April through July) It is storage place Idioactive waste water	Damage and leakage suspected  Not functional  Stable cooling (circulating injectior Injecting freshwater into the reactor via feed water line at 3.7 m3/h[6/30]  (Circulation started[6/27-] Injection continued [4/6-]  Studying  Work for secondary-loop piping in progress (5/13-)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid  Unknown Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high lever -Storage capacity of 14800m3 (10) Waste Treatment Facility as water -Underground tank for high level re- Storage tanks to receive process Additional capacity to be installed	Damage and leakage suspected  Not functional n cooling reusing accumulated wat Injecting freshwater into the reactor via feed water line at 3.8 m3/h [6/30] Injection line established following the radioactive water proce Injection continued [6/28-]  Studying  Construction work to be started after improving the work environment g the work to restore reactor cooling, s underway in each unit. Large-scale v lity in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling In operation is accumulating in the R/B, T/B a let radioactive wastewater 1,000m3 + 4,800m3) for highly radio storage place. adioactive wastewater (storage called, low to middle level radioactive	Damage and leakage suspected  Not functional  ser)  Injecting freshwater into the reactor via feed water line at 9.0-9.1 m3/h [6/30]  ses facility starts its operation)  Work for injection line in progress [4/16-]  Studying  Construction work to be started after improving the work environment  Preparation work such as removing work inside the R/B started at unit-1 and  Unknown  Injection function recovered  Injection function recovered  Injecting freshwater via SFP coolant clean up line. Bolic acid added to neutralize the alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r pacitive wastewater are secured by us apacity: approx. 10,000m3) to be installed.	No damage Not required  Most spent fuels not damaged*2 Not functional  Injecting freshwater via alternative injection line, Preparing system for cooling in a stable manner Planned  m3 [5/31])  sing the Centralized Radiation	Injecting corrosion inhibitor, hydrazine (H2NNH2), with freshwater [5/9-]	
Challenge measures Status measures Status Challenge measures	Cooling by mi Estal circulating Nitrogen gas Flooding of PC Securing hea  Improving  Fuel in Reliabilit in inject Circulatio Increase ar radioactively Goal of STEP 1  Securing Transfer of rad Installation of Preventing cor	April through July) nimum injection rate plishment of injection cooling injection into PCV CV after sealing leaks it exchange function work environment tegrity in SFP P cooling (April through July) by improvement tion operation in cooling with Hx and accumulation of contaminated water (April through July) g storage place	Stable cooling (circulating injection Injecting freshwater into the reactor via feed water line at 3.7 m3/h[6/30]  (Circulation started[6/27-]  Injection continued [4/6-]  Studying  Work for secondary-loop piping in progress (5/13-)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid Unknown  Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high leverstorage capacity of 14800m3 (10) Waste Treatment Facility as water Underground tank for high level restorage tanks to receive process Additional capacity to be installed	Injecting freshwater into the reactor via feed water line at 3.8 m3/h [6/30]  Injection line established following the radioactive water proce  Injection continued [6/28-]  Studying  Construction work to be started after improving the work environment g the work to restore reactor cooling. s underway in each unit. Large-scale wilty in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling  In operation  is accumulating in the R/B, T/B are radioactive wastewater (storage calcidative	Injecting freshwater into the reactor via feed water line at 9.0-9.1 m3/h [6/30]  Insecting freshwater into the reactor via feed water line at 9.0-9.1 m3/h [6/30]  In trial operation  Injecting freshwater in progress [4/16-]  Studying  Construction work to be started after improving the work environment  Preparation work such as removing work inside the R/B started at unit-1 and  Unknown  Injection function recovered  Injecting freshwater via SFP coolant clean up line.  Bolic acid added to neutralize the alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r pacitive wastewater are secured by us apacity: approx. 10,000m3) to be installed.	——————————————————————————————————————	Injecting corrosion inhibitor, hydrazine (H2NNH2), with freshwater [5/9-]	
Challenge measures Status Measures Status Challenge measures	Cooling by mi  Estal circulating Nitrogen gas Flooding of PC Securing hea  Improving  Fuel in SF Goal of STEP 1  Reliabilitin in inject Circulatio Increase ar radioactively Goal of STEP 1  Securing Transfer of rad Installation of Preventing cor	nimum injection rate  plishment of injection cooling injection into PCV  CV after sealing leaks it exchange function  work environment  tegrity in SFP P cooling (April through July)  cy improvement ition operation in cooling with Hx and accumulation of contaminated water (April through July)  g storage place	Injecting freshwater into the reactor via feed water line at 3.7 m3/h[6/30]  (Circulation started[6/27–]  Injection continued [4/6–]  Studying  Work for secondary–loop piping in progress (5/13–)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid  Unknown  Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high level—Storage capacity of 14800m3 (10) Waste Treatment Facility as water—Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	Injecting freshwater into the reactor via feed water line at 3.8 m3/h [6/30]  Injection line established following the radioactive water proce  Injection continued [6/28-]  Studying  Construction work to be started after improving the work environment g the work to restore reactor cooling. s underway in each unit. Large-scale wlity in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling  In operation  is accumulating in the R/B, T/B are radioactive wastewater  1,000m3 + 4,800m3) for highly radio storage place.  adioactive wastewater (storage called, low to middle level radioactive called)	Injecting freshwater into the reactor via feed water line at 9.0-9.1 m3/h [6/30]  ses facility starts its operation)  Work for injection line in progress [4/16-]  Studying  Construction work to be started after improving the work environment  Preparation work such as removing work inside the R/B started at unit-1 and  Unknown  Injection function recovered  Injection freshwater via SFP coolant clean up line. Bolic acid added to neutralize the alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r pacitive wastewater are secured by us apacity: approx. 10,000m3) to be installed.	— — — — — — — — — — — — — — — — — — —	Injecting corrosion inhibitor, hydrazine (H2NNH2), with freshwater [5/9-]	
Challenge Measures Status Challenge Status Challenge	Estal circulating Nitrogen gas Flooding of PO Securing hea Improving Fuel in SF Goal of STEP 1 Reliabilitin in inject Circulatio Increase ar radioactively Goal of STEP 1 Securin Transfer of rad Installation of Preventing cor	olishment of injection cooling injection into PCV i	m3/h[6/30]  (Circulation started[6/27-]  Injection continued [4/6-]  Studying  Work for secondary-loop piping in progress (5/13-)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid Unknown  Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high levery—Storage capacity of 14800m3 (10) Waste Treatment Facility as water—Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	Injection line established following the radioactive water procesus Injection continued [6/28-]  Studying  Construction work to be started after improving the work environment go the work to restore reactor cooling, sunderway in each unit. Large-scale white interest in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling  In operation  is accumulating in the R/B, T/B are radioactive wastewater  1,000m3 + 4,800m3) for highly radio storage place.  adioactive wastewater (storage called, low to middle level radioactive wastewater	[6/30]  Poss facility starts its operation  Work for injection line in progress [4/16-]  Studying  Construction work to be started after improving the work environment  Preparation work such as removing work inside the R/B started at unit-1 and  Unknown  Injection function recovered  Injecting freshwater via SFP coolant clean up line. Bolic acid added to neutralize the alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r procedure)  Description of the progression	— — — — — — — — — — — — — — — — — — —	Injecting corrosion inhibitor, hydrazine (H2NNH2), with freshwater [5/9-]	
Challenge Measures Status Challenge Status Challenge	Nitrogen gas Flooding of PO Securing hea Improving Fuel in SF Goal of STEP 1 Reliabilition in inject Circulatio Increase ar radioactively Goal of STEP 1 Securin Transfer of rad Installation of Preventing cor	injection into PCV  OV after sealing leaks t exchange function work environment  tegrity in SFP P cooling (April through July)  cy improvement tion operation n cooling with Hx and accumulation of contaminated water (April through July)  g storage place	Injection continued [4/6-]  Studying  Work for secondary-loop piping in progress (5/13-)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid Unknown  Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high level—Storage capacity of 14800m3 (10 Waste Treatment Facility as water—Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	Injection continued [6/28-]  Studying  Construction work to be started after improving the work environment  g the work to restore reactor cooling. sunderway in each unit. Large-scale vality in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling  In operation  is accumulating in the R/B, T/B are radioactive wastewater  ,000m3 + 4,800m3) for highly radio storage place.  adioactive wastewater (storage called, low to middle level radioactive	Work for injection line in progress  [4/16-] Studying Construction work to be started after improving the work environment Preparation work such as removing work inside the R/B started at unit-1 and  Unknown Injection function recovered  Injecting freshwater via SFP coolant clean up line. Bolic acid added to neutralize the alkalinized pool water [6/26,27] In trial operation  and RW/B of each unit. (about 91,800r pacitive wastewater are secured by us apacity: approx. 10,000m3) to be instal	— — — — — — — — — — — — — — — — — — —	hydrazine (H2NNH2), with freshwater [5/9-]	
Challenge Measures Status Challenge Status Challenge	Flooding of PC Securing hea Improving Fuel in SF Goal of STEP 1 Reliabilition in inject Circulatio Increase ar radioactively Goal of STEP 1 Securin Transfer of rad Installation of Preventing cor	CV after sealing leaks t exchange function work environment tegrity in SFP 'P cooling (April through July) cy improvement tion operation n cooling with Hx and accumulation of contaminated water (April through July) g storage place	Studying  Work for secondary-loop piping in progress (5/13-)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid Unknown  Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high level -Storage capacity of 14800m3 (10 Waste Treatment Facility as water -Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	Studying  Construction work to be started after improving the work environment g the work to restore reactor cooling. s underway in each unit. Large-scale vity in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling  In operation  is accumulating in the R/B, T/B are radioactive wastewater  ,000m3 + 4,800m3) for highly radio storage place. adioactive wastewater (storage called, low to middle level radioactive	Studying  Construction work to be started after improving the work environment  Preparation work such as removing work inside the R/B started at unit-1 and  Unknown  Injection function recovered  Injecting freshwater via SFP coolant clean up line. Bolic acid added to neutralize the alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r pacitive wastewater are secured by us apacity: approx. 10,000m3) to be installed.	Most spent fuels not damaged*2 Not functional  Injecting freshwater via alternative injection line, Preparing system for cooling in a stable manner  Planned  m3 [5/31])  sing the Centralized Radiation	hydrazine (H2NNH2), with freshwater [5/9-]	
Challenge measures Status measures Status	Improving  Fuel in SF Goal of STEP 1  Reliability in inject Circulatio Increase ar radioactively Goal of STEP 1  Securing  Transfer of rad Installation of Preventing cor	work environment  tegrity in SFP P cooling (April through July)  ty improvement tion operation n cooling with Hx and accumulation of contaminated water (April through July)  g storage place	Work for secondary-loop piping in progress (5/13-)  High radiation circumstance is hamperin radioactive debris, radiation monitoring i 2 after radioactive substance and humid Unknown  Injection function recovered  Stable cooling  Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high lever—Storage capacity of 14800m3 (10) Waste Treatment Facility as water—Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	Construction work to be started after improving the work environment g the work to restore reactor cooling. s underway in each unit. Large-scale white in the air inside the R/B dropped.  Most spent fuels not damaged*2  Function recovered  Switching from freshwater injection via SFP coolant clean up line to circulation cooling  In operation  is accumulating in the R/B, T/B and accumulating in the R/B, T/B and accumulating wastewater  1,000m3 + 4,800m3) for highly radio active wastewater (storage place, adioactive wastewater (storage called, low to middle level radioactive wastewater (storage called, low to middle level radioactive	Construction work to be started after improving the work environment  Preparation work such as removing work inside the R/B started at unit-1 and  Unknown  Injection function recovered  Injecting freshwater via SFP coolant clean up line. Bolic acid added to neutralize the alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r pacitive wastewater are secured by us apacity: approx. 10,000m3) to be install.	Most spent fuels not damaged*2 Not functional  Injecting freshwater via alternative injection line, Preparing system for cooling in a stable manner  Planned  m3 [5/31])  sing the Centralized Radiation	hydrazine (H2NNH2), with freshwater [5/9-]	
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Challenge measures Status measures	Reliabilition in inject Circulation Increase an radioactively Goal of STEP 1 Securing Transfer of rad Installation of Preventing cor	cy improvement tion operation  n cooling with Hx  Ind accumulation of contaminated water (April through July)  g storage place  dioactive waste water	Injecting freshwater via SFP coolant clean up line  Planned  High level radioactive wastewater is Securing storage place of high level -Storage capacity of 14800m3 (10 Waste Treatment Facility as water -Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	In operation  In operation  Is accumulating in the R/B, T/B and ac	via SFP coolant clean up line. Bolic acid added to neutralize the alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r)  pactive wastewater are secured by us apacity: approx. 10,000m3) to be insta	injection line, Preparing system for cooling in a stable manner  Planned  m3 [5/31])  sing the Centralized Radiation	hydrazine (H2NNH2), with freshwater [5/9-]	
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Challenge Status	Circulatio Increase ar radioactively Goal of STEP 1 Securin Transfer of rad Installation of Preventing cor	n cooling with Hx and accumulation of contaminated water (April through July) g storage place	Planned  High level radioactive wastewater in Securing storage place of high level radioactive of 14800m3 (10) Waste Treatment Facility as water -Underground tank for high level radioactive radioactive process Additional capacity to be installed	In operation is accumulating in the R/B, T/B are radioactive wastewater 1,000m3 + 4,800m3) for highly radioactive wastewater (storage calcidation of the storage calcidation of the sto	alkalinized pool water [6/26,27]  In trial operation  and RW/B of each unit. (about 91,800r  pactive wastewater are secured by us  apacity: approx. 10,000m3) to be insta	Planned m3 [5/31]) sing the Centralized Radiation		
Challenge Status	Increase ar radioactively Goal of STEP 1  Securin  Transfer of rad Installation of Preventing cor	and accumulation of contaminated water (April through July)  g storage place	High level radioactive wastewater is Securing storage place of high lever -Storage capacity of 14800m3 (10 Waste Treatment Facility as water -Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	is accumulating in the R/B, T/B and accumulating in the R/B, T/B and accumulating in the R/B, T/B and accumulative wastewater  storage place.  adioactive wastewater (storage called, low to middle level radioactive)	and RW/B of each unit. (about 91,800r	m3 [5/31]) sing the Centralized Radiation	PMR: Process Main Building	
Challenge	Securing Transfer of rad Installation of	(April through July)  g storage place  dioactive waste water	Securing storage place of high lever—Storage capacity of 14800m3 (10 Waste Treatment Facility as water—Underground tank for high level re—Storage tanks to receive process Additional capacity to be installed	el radioactive wastewater ,000m3 + 4,800m3) for highly radio storage place. adioactive wastewater (storage ca led, low to middle level radioactive	pactive wastewater are secured by us	ing the Centralized Radiation	PMB: Process Main Building	
Challenge	Securing Transfer of rad Installation of Preventing cor	g storage place	-Storage capacity of 14800m3 (10 Waste Treatment Facility as water -Underground tank for high level ra-Storage tanks to receive process Additional capacity to be installed	,000m3 + 4,800m3) for highly radio storage place. adioactive wastewater (storage ca led, low to middle level radioactive	apacity: approx. 10,000m3) to be insta		PMB: Process Main Ruilding	
Challenge	Transfer of rad Installation of Preventing cor	g storage place	-Underground tank for high level ra -Storage tanks to receive process Additional capacity to be installed	adioactive wastewater (storage ca ed, low to middle level radioactive			PMR: Process Main Building	
Challenge	Installation of Preventing cor	dioactive waste water	Additional capacity to be installed		Waste Treatment Facility as water storage placeUnderground tank for high level radioactive wastewater (storage capacity: approx. 10,000m3) to be installed in the mid August			
Challenge	Installation of Preventing cor	water process facility	Highly radioactive wastewater in U		-Storage tanks to receive processed, low to middle level radioactive wastewater with the capacity of approx. 13,000m3 installed (-5/31).  Additional capacity to be installed at 20,000m3/month from the end of June.			
Challenge	Preventing cor	water process facility		nit 2 and unit 3 has been translat	ed the Centralized Radiation Waste T	Treatment Building Freatment Facility since April 19.		
Challenge	_		-Highly radioactive wastewater treatment system for recycling water that has processing capacity of 1,200m3/day is working on a trial basis. Reuse of the processed water, which was decontainated and desalinated through the system, started for reactor cooling [6/27-].					
Challenge	Preventing o	tamination of the sea,	-Silt fences installedSeawater circulatory purification system goes into full-scale operation. [6/13]					
Challen	Frevending 0	etc.	-Blocking the concrete tunnels ou		etc. I in stable and effective manner to pre	ovent westewater accumulated in		
	radioactive waste water		unit-2 and 3 overflowing.	·	and stable and effective mainler to pre	event wastewater accumulated in		
			Storing and processing low level radioactive wastewater					
_	3 3						-	
Statu	water		controlled in the facility, and the well water in the Fukushima Daiichi site. [4/7-]					
measures	Mitigation of groundwater contamination		Pumps for correcting underground water called "subdrain" is to be restored in the middle of June. Subdrain is to be treated in					
			accordance with the contaminated Construction of wall for undergrou	l water management plan. nd water isolation is under consid	leration.			
sr			Radioactive materials and radioact	ively contaminated debris scatter	red due to the hydrogen explosion at l	Unit 1 and 3 R/Bs and other	Survey map on the site: http://www.tepco.co.jp/en/nu/fukushima-	
	to the outside of the facilities  R/B integrity oal of STEP 1 (April through July)		events.	Dauthy an aread	Coursely demand	Covereby demonstrate	np/f1/index3-e.html	
						Severely damaged		
	·		·			I T/Bs [5/27-]		
			Preparation work in progress [5/13-	ontrolled heavy machine in progre	ss [4/10-]			
me	Installing R/B cover		Installation work of the cover	_	Designing	Planning		
C	Countermeasures against tsunami		Enhancement of countermeasures		lition of radundant water injection line	[_4/15]		
easures			-Setting fire trucks etc. to the upland [-4/18] -Planning to install a temporary tide barriers [by the end of June]					
			completed by filling concrete and grout by the end of July.					
Ĕ					ogress. Seismic safety confirmed for	Unit 1 and 4 [5/28]		
	Reactor water level (mm)		A:Below the lower end of gauge,	A: <u>-1850,</u> B: <u>-2150</u>	A: <u>-1800,</u> B: <u>-2150</u>		■"A", "B" shows the group of the	
Reactor pressure (MPa)		pressure (MPa)	B: <u>-1600**</u> , Reading mostly steady A: <u>0.033</u> , B:-, Measured with	Reading mostly steady** A:0.028, B:-	Reading mostly steady** A:-0.164, B:-0.102	_	redundant instruments	
	[6/30 11:00]  RPV temperature at feedwater nozzle (°C) [6/30 11:00]  RPV temperature at the bottom		temporary pressure indicator [6/4-]	Reading mostly steady**	Reading mostly steady**	_	■ Reactor water level monitors to be calibrated. Unit 1 Ch.A done.[5/11] Unit 2 Ch.A now beir caribrated.[6/22-]	
			Reading mostly steady	Reading mostly steady	Slightly increased	_		
	of the vess	el (°C) [6/30 11:00]	Reading mostly steady	Reading mostly steady	Slightly fluctuate	<u> </u>	■ Primary parameters' trend is	
	[6/	<u>/30 11:00]</u>	Reading mostly steady	0.020 Decreasing**	0.0994 Reading mostly steady	_	available at JANTI's HP; _http://www.gengikyo.jp/english/sh	
	Pressure of suppression pool (MPa) [6/30 11:00]		<u>0.120</u> Reading mostly steady	Below the lower end of gauge Instrument failure	0.1829 Reading mostly steady	_	okai/special_4.html.  **Continuously monitoring the	
ıl	Water temperature of SFP		Instrument failure	34°C [6/30 11:00]	62°C [5/8]	87-88°C [6/29 16:00]	status	
	R/B	Volume*3	3,900m3[5/31]	6,000m3[5/31]	6,400m3[5/31]	6,500m3[5/31]		
Accumulated water		Radioactivity Volume*3	4.0E+5Bq/cm3[3/26] 8,400m3[5/31]	1.9E+7Bq/cm3[3/27] 11,400m3[5/31]	3.8E+6Bq/cm3[4/22] 13,600m3[5/31]	2.0E+4Bq/cm3[4/21] 11,800m3[5/31]		
	T/B basement	Radioactivity	4.0E+5Bq/cm3[3/26]	1.9E+7Bq/cm3[3/27]	3.8E+6Bq/cm3[4/22]	2.0E+4Bq/cm3[4/21]		
	RW/B	Volume*3	1,100m3[5/31]	2,400m3[5/31]	2,300m3[5/31]	3,700m3[5/31]		
	basement Concrete	Radioactivity Volume*3	4.0E+5Bq/cm3[3/26] 2,800m3[5/31]	1.9E+7Bq/cm3[3/27] 4,800m3[5/31]	3.8E+6Bq/cm3[4/22] 5,800m3[5/31]	2.0E+4Bq/cm3[4/21] 900m3[5/31]		
	tunnel outside of T/B	Radioactivity (Dose at water surface)	6.9Bq/cm3[3/29] (0.4mSv/h[3/27])	1.1E+7Bq/cm3[3/30]	2.4E+2Bq/cm3[3/30]	2.0E+4Bq/cm3[4/21]		
	Total volume		91,800m3 (Approx. 105,00	0m3 including the wastewater trai			Air days	
			-Air dose rate: $5-115 \mu$ Sv/h at the NPS border (Monitoring Post), $334 \mu$ Sv/h at the south side of the office building, $35 \mu$ Sv/h at the main gate, $13 \mu$ Sv/h at the wet gate $[6/30\ 21:00]$				Air dose rate: http://www.tepco.co.jp/en/nu/fukushi	
enta	al effect in the v	-	-Some radioactive materials (I, Cs, Pu, Am Cm and Sr) has been detected in the soil sampled at the site. Radioactive materials have been detected in samples collected from underground water and also seawater at or near the site. Environmental monitoring has been enhanced [4/16-]. Sr-89, 90 exceeding the regulatory limit have been detected from the seawater sampled on 5/16 near the seawater intake.  TEPCO is examining some 3,700 workers who have worked at the plant since March 11th for exposure to radiation. Of that number, 3,514 have undergone medical checkups. It revealed that 124 received radiation doses above 100 mSv. (100-200mSv: 107 workers, 200-250mSv: 8 workers, 250mSv<: 9 workers) Amount of doses that the 2 workers who received most are 643mSv and 678mSv.[6/20] Out of some				ma-np/f1/index-e.html Air, seawater, underground water soil, etc.:	
							http://www.tepco.co.jp/en/nu/fukushima-np/f1/index2-e.html	
							- up. 17 masks oneill	
adia <sup>.</sup>	tion exposure o	f the workers						
e i	the measures of measures of the measures of th	Radioactive m  Goal of STEP  Mitigation of gro  Scattering of to the outs  R/I  Goal of STEP 1 ( Dispers  Remo  Installi  Countermeas  Planning and reinforcemer  Various ra  Reactor ( Go/ Reactor ( Go/ Reactor ( Go/ Ressure of the vesse  Pressure of sur ( Go/ Pressure of sur ( Go/ Rasement  R/B Basement  RW/B Basement  RW/B Counterme  RW/B Basement  RW/B Counterme  RW/B Counterme	Radioactive materials in the ground water  Goal of STEP 1 (April through July)  Mitigation of groundwater contamination  Scattering of radioactive materials to the outside of the facilities  R/B integrity  Goal of STEP 1 (April through July)  Dispersion of inhibitor  Removal of debris  Installing R/B cover  Goal of STEP 1 (April through July)  Countermeasures against tsunami  Planning and implementation of reinforcement work of each unit  Various radiation shielding  Reactor water level (mm)  [6/30 11:00]  RPV temperature at feedwater nozzle  (°C) [6/30 11:00]  RPV temperature at the bottom of the vessel (°C) [6/30 11:00]  Pressure of drywell (MPa)  [6/30 11:00]  Pressure of suppression pool (MPa)  [6/30 11:00]  Water temperature of SFP  R/B  Volume*3  basement  Radioactivity  Concrete  Volume*3  basement  Radioactivity  Concrete  Volume*3  Proval me*3  Concrete  Volume*3  Concrete  Volume*3  Radioactivity  Concrete  Volume*3  Concrete  Volume*3  Radioactivity  Concrete  Volume*3  T/B  Dasement  Radioactivity  Concrete  Volume*3  Concrete  Volume*3  Radioactivity  Concrete  Volume*3  Total volume  Intal effect in the vicinity of the station  Addiation exposure of the workers	Increasing storage capacity Radioactive materials in the ground water Goal of STEP I (April through July)  Scattering of radioactive materials to the outside of the facilities R/B integrity  Goal of STEP I (April through July)  Dispersion of inhibitor Removal of debris Removal of debris Removal of debris Removal of debris using remote—ore reparator work in progress 197 13  Installing R/B cover  Goal of STEP I (April through July)  Preventing scattering of radioactive materials to the outside of the facilities Removal of debris Removal of debris Removal of debris using remote—ore reparator work in progress 197 13  Installation work of the cover  Goal of STEP I (April through July)  Countermeasures against tsunami  Planning and implementation of reinforcement work of each unit  Various radiation shielding Reactor water level (mm) [6/30 11:00] Reactor pressure (MPa) (8/30 11:00] Revet temperature at feedwater nozzle ("C) [6/30 11:00]  RPV temperature at feedwater nozzle ("C) [6/30 11:00]  RPV temperature at feedwater nozzle ("C) [6/30 11:00]  RPV temperature at the bottom of the vessel ("C) [6/30 11:00]  Reading mostly steady  Pressure of drywell (MPa) [6/30 11:00]  Reading mostly steady  Pressure of drywell (MPa) [6/30 11:00]  Reading mostly steady  Pressure of suppression pool (MPa) [6/30 11:00]  Reading mostly steady  Reading mostly steady  Pressure of suppression pool (MPa) [6/30 11:00]  Reading mostly steady  Pressure of drywell (MPa) [6/30 11:00]  Reading mostly steady  Reading mostly steady  Pressure of drywell (MPa) [6/30 11:00]  Reading mostly steady  Re	Increasing storage capacity  Radioactive materials in the ground materials in the ground good of STEP 1 (April through July)  Scattering of radioactive materials to the outside of the facility and the well water in the Fukushima Daich Pumps for correcting underground water foal spreading to the outside of the facility and the well water in the Fukushima Daich Pumps for correcting underground water calculations of groundwater contamination of condense with the contaminated water management plan. Construction of wall for underground water calculations is under considerable to outside of the facilities and the outside of the facilities and the contamination of the contaminati	Increasing storage capacity	Thereasing storage capacity  Rediscritive materials in the ground described in the controlled in the facility, and the value with the proof described in the facility, and the value with the proof described in the facility, and the value with the facility and the value with the facility and the value of the controlled in the facility, and the value with the facility and the value of the facility and the value of the controlled in the facility, and the value with the facility and the value of the controlled with the controlled the facility and the value of the controlled with the facilities and the size of the controlled with the controlled with the facilities and the size of the controlled with the controlled with the facilities and the size of the controlled with the	

\*1 TEPCO's analysis [announced on 5/15s \*2 TEPCO judged that most spent fuels were not damaged in the Unit 2 and 4 SFPs based on the detailed analysis of the radioactive materials in the pool water. [5/31]

\*3 Rough estimate by TEPCO [announced on 5/31]

[Source]

Government Nuclear Emergency Response Headquarters: News Release,

Press conference NISA: News Release, Press conference TEPCO: Press Release, Press Conference

[Abbreviations]
SFP: Spent Fuel Storage Pool
EDG: Emergency Diesel Generator

RPV: Reactor Pressure Vessel

PCV: Primary Containment Vessel

R/B: Reactor Building
T/B: Turbine Building
RW/B: Radioactive Waste Disposal Building

RHR: Residual Heat Removal system CST: Condensate water Storage Tank

Hx: Heat exchanger NPS: Nuclear power station

