Unit-1 GE BWR3
460MWc
Mark-1 PCV(*)
Operating since 09/27/2010

Unit-2 GE/Toshiba BWR4
784MWe
Mark-2 PCV(*)
Operating since 11/18/2010

Unit-3 Toshiba BWR4
784MWe
Mark-1 PCV(*)
Operating since 09/23/2010

Unit-4 Hitachi BWR4
784MWe
Mark-1 PCV(*)
Outage since 11/30/2010

Unit-5 Toshiba BWR4
784MWe
Mark-2 PCV(*)
Outage since 01/03/2011

Unit-6 GE/Toshiba BWR3
110MWe
Mark-1 PCV(*)
Outage since 08/14/2010

Plant Status

JAPAN NUCLEAR TECHNOLOGY INSTITUTE
Confirmed as of 8:30 on December 21, 2011

Status of Fukushima Daiichi Nuclear Power Station

Reactor status: Auto shutdown
Fuel damage
Reactor water level as of 12/20 12:00
Fuel area: 7.455m
c0.106 - MPa abs (+2)
0.100 - MPa abs (+3)

PCV(*) status: Pressure as of 12/20 12:00
0.113MPa abs (+2)
10/09 17:00 - 22:30
Cutting a pipe in the RPV spray to install a gas controlling system

Core decay heat removal
6/27 16:20 Began using water processed at water processing system alongside injection from filtered water tank for reactor injection
11/00 16:04 Started nitrogen injection to the RPV

12/20 10:11 Started water injection from CS(*) system to the reactor
12/19 18:22 Started regular operation of PCV(*) gas controlling system
As of 12/20 11:00 Injecting processed water to the reactor pressure vessel (FPW(+):4.5 CS(*)/2.0m³/h)
8/10 11:22 Began full-scale operation of SFP(*) alternative cooling system
SFP(*) temperature: 12/20 12:00

SFP*: Stored units/capacity
2929000

Completed installation of the cover for the Reactor Building
(+) 6/27 11:00 onward Calculated absolute pressure using temporary measurement device value, recorded in place of channel A
(+) 6/22 20:00 onward Calculated absolute pressure using temporary measurement device value, recorded in place of channel A

Unit-5 - 6: Completed installation of the cover for the Reactor Building

Core decay heat removal
6/27 16:20 Began using water processed at water processing system alongside injection from filtered water tank for reactor injection
11/22 Started injecting boron acid water because of the possibility of fission reactions by the radiocesium gas analysis.
11/00 13:45 Started nitrogen injection to the RPV
As of 12/20 11:00 Injecting processed water to the reactor pressure vessel (FPW(+):2.8 CS(*)/6.0m³/h)
8/10 11:22 Began full-scale operation of SFP(*) alternative cooling system
SFP(*) temp. as of 12/20 12:00
13.7C
SFP*: Stored units/capacity
514420

7/18 8:30 Began installing temporary roof onto turbine building

Units-1 - 6: Completed installation of the cover for the Reactor Building

6/27 8:00 - 14:38 Temporarily switched core injection pump power source for Units-1 through 5 to Diesel Generator (due to Okuma power line 2 restoration work)

10/28 Started installation work of the water shedding wall at the seaside

10/7 14:06~ Water spraying in the plant site using the treated accumulated water of unit-6

6/13 10:00 Began full scale operation of recirculating seawater purification equipment installed in Units-2, 3 screen areas
6/18 10:00 - 6/20 around 10:00, 6/25 10:00 onward Temporarily halted due to maintenance

11/23 10:00 Began full scale operation of recirculating seawater purification equipment installed in Units-2, 3 screen areas
6/18 10:00 - 6/20 around 10:00, 6/25 10:00 onward Temporarily halted due to maintenance

7/22-24 Dust sampling over reactor buildings at Units-1 through 4 via unmanned helicopter

10/24 8:00 - 14:38 Temporarily switched core injection pump power source for Units-1 through 5 to Diesel Generator (due to Okuma power line 2 restoration work)

8/19 19:41 Started operation of the 2nd cesium adsorption instrument, and parallel operation
124 around 11:33 Found that there was puddle water inside the barrier around the evaporative condensation apparatus, piled sandbags around the gap and in the gutter, transferred the accumulated water inside the barrier to waste liquid tank by under water pump

20/10 10:00 Transferring 1 puddle water in basement of turbine building from temporary tank to mega float

Maximum on-site dose rate: 3/15 400Sv/h
4/23 17:20 Current survey map of 1F announced

Resident evacuation
4/21 Prime Minister instructs establishment of warning area for area within 20km radius; access restriction and/or evacuation
4/22 Prime Minister lifts the instruction of staying-indoors for 20–30km radius, establishes planned evacuation & emergency evacuation prep. areas and instructs all to comply with these measures

Reception of off-site power supply
3/20 19:52 Units-5, 6 start transformer power reception
3/24 15:37 The common SFP(*) received external power
5/11 15:20 Power for Units 1 and 2 partially received from Okuma Power Line 2
5/12 15:20 Started Unit-4 and common SFP(*) power supply panel from Okuma Line 3 to Toshoku Electric Power Company Nuclear Line (66kV)
7/11 Started up and made synchronized DIG for Units-5, 6 due to dual-line preparation work for Yona no Mori power lines

Worker exposure:
As of 6/27 0:21 Cumulative total of workers with over 100mSv of external exposure during emergency work:
30 workers
8/1 14:30 Confirmed over 10 Svh of pipe surface dose rate near the standby gas treatment system pipe joint at the main stack bottom of Units 1 and 2

6/19 19:30 ~ 23:45, 6/20 10:25 ~ 14:50 Conducted trial water sending using highly radioactive contaminated water of cesium adsorption unit
6/24 12:00 Began processing via water treatment facility fresh water processing unit
8/19 19:41 Started operation of the 2nd cesium adsorption instrument, and parallel operation
124 around 11:33 Found that there was puddle water inside the barrier around the evaporative condensation apparatus, piled sandbags around the gap and in the gutter, transferred the accumulated water inside the barrier to waste liquid tank by under water pump

Units-1 - 6: Common SFP(*) Stored units/capacity
6375/640
3/24 18:05 Cooling started
7/18 6:00 Confirmed pool water level was maintained
12/20 10:00 Temperature around 16.2

SFP: Feed water line
FDPW: Feed water line

CS: Condensed water storage tank
SPT: Suppression water surge tank
SS: Condensation apparatus, piled sandbags around the gap and in the gutter, transferred the accumulated water inside the barrier to waste liquid tank by under water pump

PCV*: Primary containment vessel made of steel RHR: Residual heat removal system
RRHS: Residual heat removal seawater system
SSP: Spent fuel pool
FPC: Fuel pool cooling system
CST: Condensed water storage tank