

## Emergency Drill at Fukushima Daini Nuclear Power Station 【Outline】

We carried out the “Emergency Drill at Fukushima Daini Nuclear Power Station, FY2011” on February 26 and 27 based on the nuclear operator emergency action plan and the safety regulation of reactor facility. Toward early and safety restoration in case of a nuclear accident, this drill is undertaken once a year in order to enable the relevant on-site organization for nuclear emergency preparedness to exercise their functions effectively.

### 【Scenario】 ~ We simulated the following hard condition

In the situation that all reactors (Unit 1-4) are under cold shutdown:

- Intensity 6 upper was measured at Hamadouri, area in Fukushima Prefecture and external power has lost.
- The fire was broken out at temporary house of the east yard waste processing building due to the earthquake.
- Then, we have lost “ all the AC power supply functions ”, “ all the reactor cooling functions with seawater ” and “ all the spent fuel pool cooling functions ” due to tsunami.

### 【Drill Items】

- Emergency call and setting up an emergency team
  - Evacuation guidance
  - Securing power supply by power-supply cars
  - Power supply to the main anti-earthquake building by power-supply cars
  - Injecting water to reactors and spent fuel pools
  - Emergency medical care for exposed person
  - Fire fighting
  - Preventing hydrogen explosion
  - Removing debris etc.
- (The number of participants : around 170 people in 2days)

### Main drill

#### Securing power by power-supply cars

Training to supply necessary power by power-supply cars to maintain the water injection to and the function to remove heat from reactors and spent fuel pools in case all AC power supply is lost. (Power-supply cars are placed at Unit 1 to 4. Power cables connection was confirmed at Unit 3.)

< Material Used > 5 power-supply cars, power cable ( total length: 1160m, already laid out )



Connection of power cables (Unit 3)



Connection of power cables (Unit 3)

#### Injecting water to reactors and spent fuel pools

Training to inject fresh water/ seawater to reactors and spent fuel pools by using fire engines

Fresh water: the water in filtered water tanks and anti-earthquake fire fighting water tanks was transported to the 6th floor (temporary pools) of turbine buildings at Units1 to 4.

Seawater: the seawater was taken from the intake using fire engines and sprayed to the outside.

< Materials used > 3 fire engines, hose (total length: 500m)



Transporting the water from the anti-earthquake fire fighting water tank



Transporting the water to the reactor building (temporary tank) (Unit 1)

#### Fire fighting

Reporting to the fire station and fire fighting by own team under the assumption that the fire was broken out at temporary house of east yard waste processing building due to the earthquake.



Fire fighting by own fire fighting team



Fire fighting by own fire fighting team

#### Emergency medical care for exposed person

Contamination measurement, decontamination, first-aid action, transporting the injured by the ambulance



Contamination measurement



First-aid action