

## Rubble Management at Fukushima Daiichi Nuclear Power Station

### 1. Temporary Storage for Rubble etc.

- Collected approx. 34,000m<sup>3</sup>, out of which approx. 6,000m<sup>3</sup> are stored in containers. (approx. 950 containers as of Feb. 9)
- The approach lane to the temporary storage area for Rubble etc. was marked off and a No Entry sign was posted to prevent entrance of unauthorized personnel.
- Rubble etc. are separated according to surface dose rate. On the base of air dose rate in the site, implement countermeasures to prevent radioactive materials from scattering.
  - Over 1mSv/h: Stored in containers and buildings.
  - Over 100μSv/h and 1mSv/h and below: Covered with sheets.
  - Over 100μSv/h of rubble removal works at the upper parts of reactor buildings at Units 3 and 4: Stored in containers and storage tent.

### 2. Consideration of measures to reduce the radiation dosage of rubble etc. origin at the site boundaries

- In order to reduce the radiation dosage at the site boundaries, we are planning to build temporary storage facilities with sand and sandbag covers shielding the rubble storage, etc. as follows.

#### 【Overview of temporary storage facility by soil covering】

- ◇ Radiation effect of rubble etc. origin is reduced by soil covering (for shielding) at the upper part.
- ◇ Scattering of radioactive materials and groundwater contamination are prevented by installing water shielding sheets at the bottom, slope and upper parts.
- ◇ Storage capacity: 4000m<sup>3</sup>/place, installation: 2 places, scheduled to start operation from mid-April.

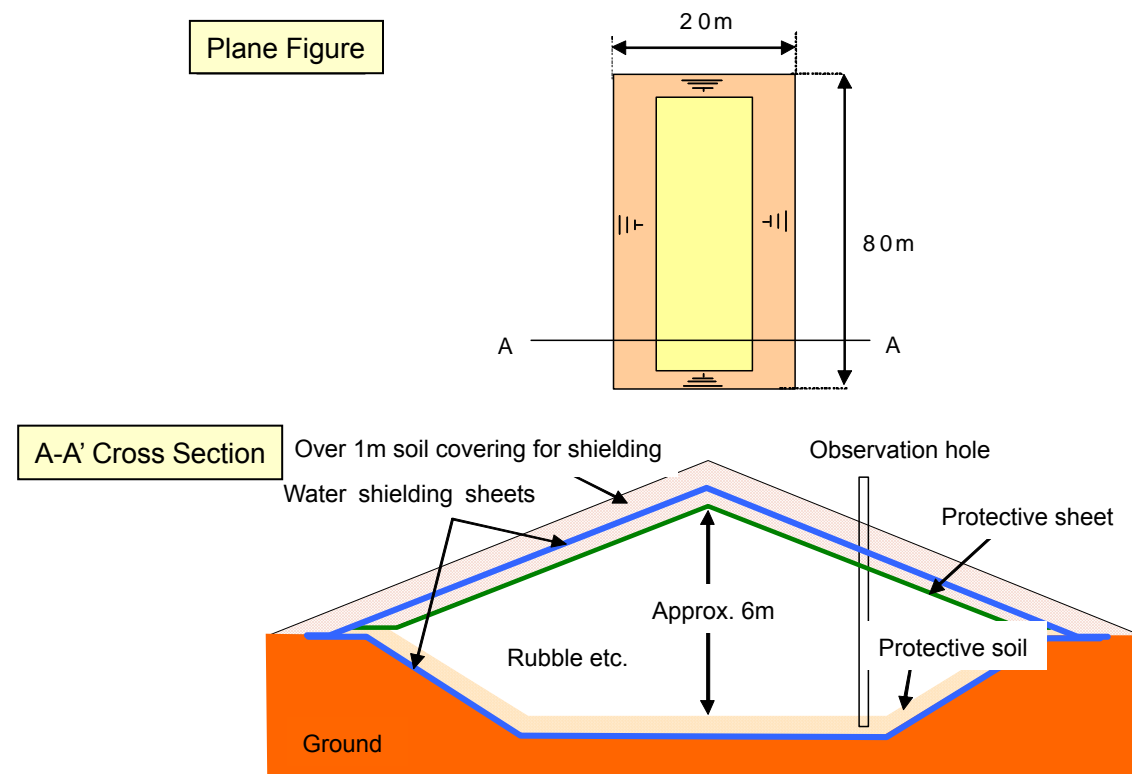


Fig.1 Overview of soil-covering temporary storage facility

Storage Places	Kinds	Storage Methods	Storage Capacity* (as of Feb. 9, 2012)	Share of the Area (as of Feb. 9, 2012)
Solid waste storage	Concrete, Metal	Containers	400 containers	44%
A: North side in the site	Concrete, Metal	Temporary storage facility	8,000 m <sup>3</sup>	72%
B: North side in the site	Concrete, Metal	Containers	450 containers	98%
C: North side in the site	Concrete, Metal	Storage yard in the site	16,000 m <sup>3</sup>	49%
D: North side in the site	Concrete, Metal	Storage yard in the site	2,000 m <sup>3</sup>	56%
E: North side in the site	Concrete, Metal	Storage yard in the site	1,000 m <sup>3</sup>	40%
F: North side in the site	Concrete, Metal	Containers	100 containers	100%
Total (Concrete, Metal)			34,000 m <sup>3</sup>	56%
G: North side in the site	Cut down trees	Storage yard in the site	16,000 m <sup>3</sup>	77%
H: North side in the site	Cut down trees	Storage yard in the site	16,000 m <sup>3</sup>	88%
I: North side in the site	Cut down trees	Storage yard in the site	11,000 m <sup>3</sup>	100%
J: South side in the site	Cut down trees	Storage yard in the site	12,000 m <sup>3</sup>	77%
K: South side in the site	Cut down trees	Storage yard in the site	5,000 m <sup>3</sup>	100%
Total (Cut down trees)			59,000 m <sup>3</sup>	85%

- Planned area for rubble storage
- Rubble storage area
- Cut down trees storage area



Fig. 2 Management of rubble and cut down trees