

RE: Solid Waste Storage Facility #9

January 31, 2018



Tokyo Electric Power Company Holdings, Inc.

Objective of Construction



- Objective of Construction

Solid waste storage facility #9 shall be built for the same reason as facilities 1 through 8, which already exist on site; namely to store rubble generated through the decommissioning process as well as radioactive solid waste that was being stored on-site prior to the accident.

- Impact of radiation on the external environment

With the construction of solid waste storage facility 9 countermeasures will be put in place to reduce radiation levels at site boundaries to below 1 mSv/year by incorporating sufficient shielding and filters in air-conditioning exhaust stacks, just to be safe, as well as periodically measure the concentration of radioactive substances.

- Ensuring the safety of workers

Stored waste will be managed as follows to make every effort to ensure worker safety.

- The facility will be kept locked except when being used to restrict access to authorized personnel.
- Air dose rates will be checked regularly and the results posted in the storage area so as to draw the attention of workers.
- Patrols will be conducted regularly and when something is stored, the appropriate storage level shall be selected in accordance with the surface dose rate that is noted on the object to be stored (Ground-level 2nd floor: Less than 0.05mSv/h, Ground-level 1st floor: Less than 1mSv/h, Subfloor 1: Less than 30mSv/h, Subfloor 2: In excess of 30mSv/h)
- As with existing facilities 8 and 9, oil drums will be placed against the walls on the left, right, and back walls, and oil drums and pallets shall be lashed down near the entrance in order to mitigate the risk of toppling during a large earthquake.

1. Facility Overview

The construction of solid waste storage facility 9 was completed on January 31, 2018 and it was put into use on February 1, 2018. The additional construction of facility 9 will provide a location to store rubble removed from the Unit 1 refueling floor and highly radioactive rubble generated in conjunction with dismantling of the Unit 2 reactor building roof.

Schedule and facility structure/scale

Anti-earthquake class	Structure	No. of floors		Height (m)	Ground Area (m ²)	Floor Area (m ²)
		Below Ground	Above Ground			
C	RC	2	2	16.1	6876	26980

Schedule

Preparations: 2014/7/16~2016/8/31

Construction: 2015/9/1~2018/1/31

Commencement of use: 2018/2/1



Storage Capacity

Approx. 61,200m³

Equal to approximately 110,000 200 ℓ oil drums

※Storage capacity of facilities 1~8: Approx. 284,500 200 ℓ oil drums

Storage Method



Oil drums



Box Vessels



Storage floor selected in accordance with the surface dose rate (example: >30mSv/h waste stored on subfloor 2) (Current plan calls for the facility to be used to store rubble)

2. Photos of the storage facility



Reference: Transporting highly radioactive rubble, etc.

【Heavy equipment used to carry waste from the field to the entrance of the solid waste storage facility】

Shielded forklift



Put into containers above ground



Underground storage area entry ramp



Underground storage facility passageway



- Remotely operated unmanned forklift (remotely operated from the main anti-earthquake building)



Main anti-earthquake building

