

Debris Removal from the Upper Part of Unit 3 Reactor Building at Fukushima Daiichi Nuclear Power Station: Removal of the Steel Beam Which Fell into the Pool

< Reference >
December 19, 2012
Tokyo Electric Power Company

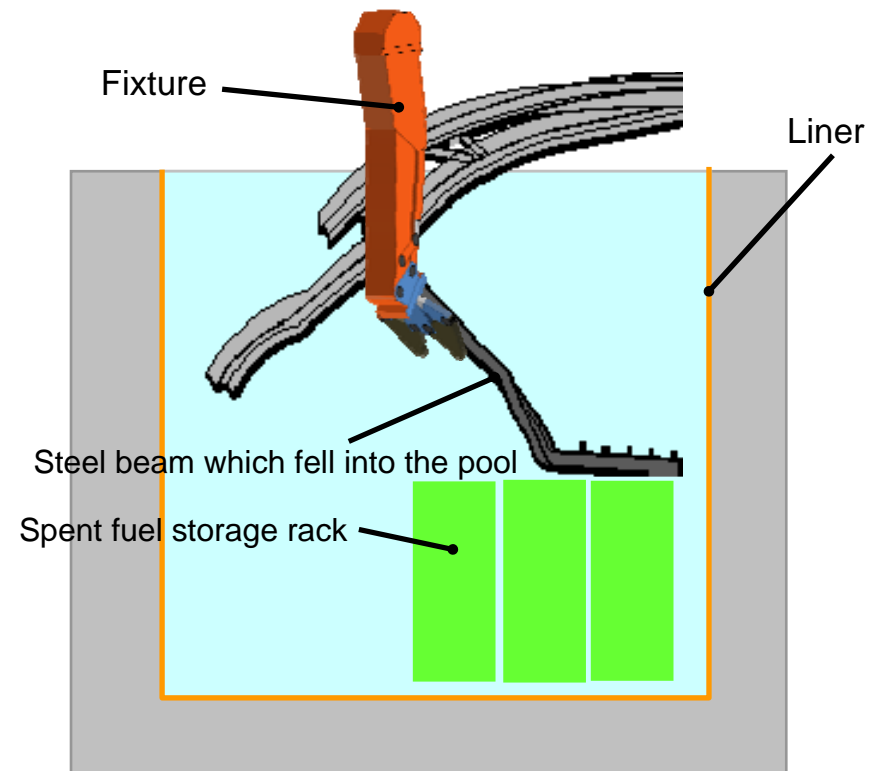
In prior to removing the steel beam which fell into Unit 3 spent fuel pool, the following measures were implemented to facilitate the removal work.

1. Mockup test and training,
2. Liner protection,
3. Spent fuel pool water purification

The steel beam removal is scheduled on December 20. (The schedule is subject to change depending on the weather and site conditions.)



Location of the steel beam
(Photo taken on September 22, 2012)



Steel beam removal

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1. Mockup test and training

- Mockup test was performed using a steel beam of the same size as the one to be removed (November 19-21) in order to simulate grabbing and hanging the beam and checking the distance between the beam and the liner.
- Training of the crane operator was done to improve the operational skills (December 11, 12 and 18).



The test results were incorporated into the steel beam removal procedure used in the training.



Mockup test (Steel beam being hung)

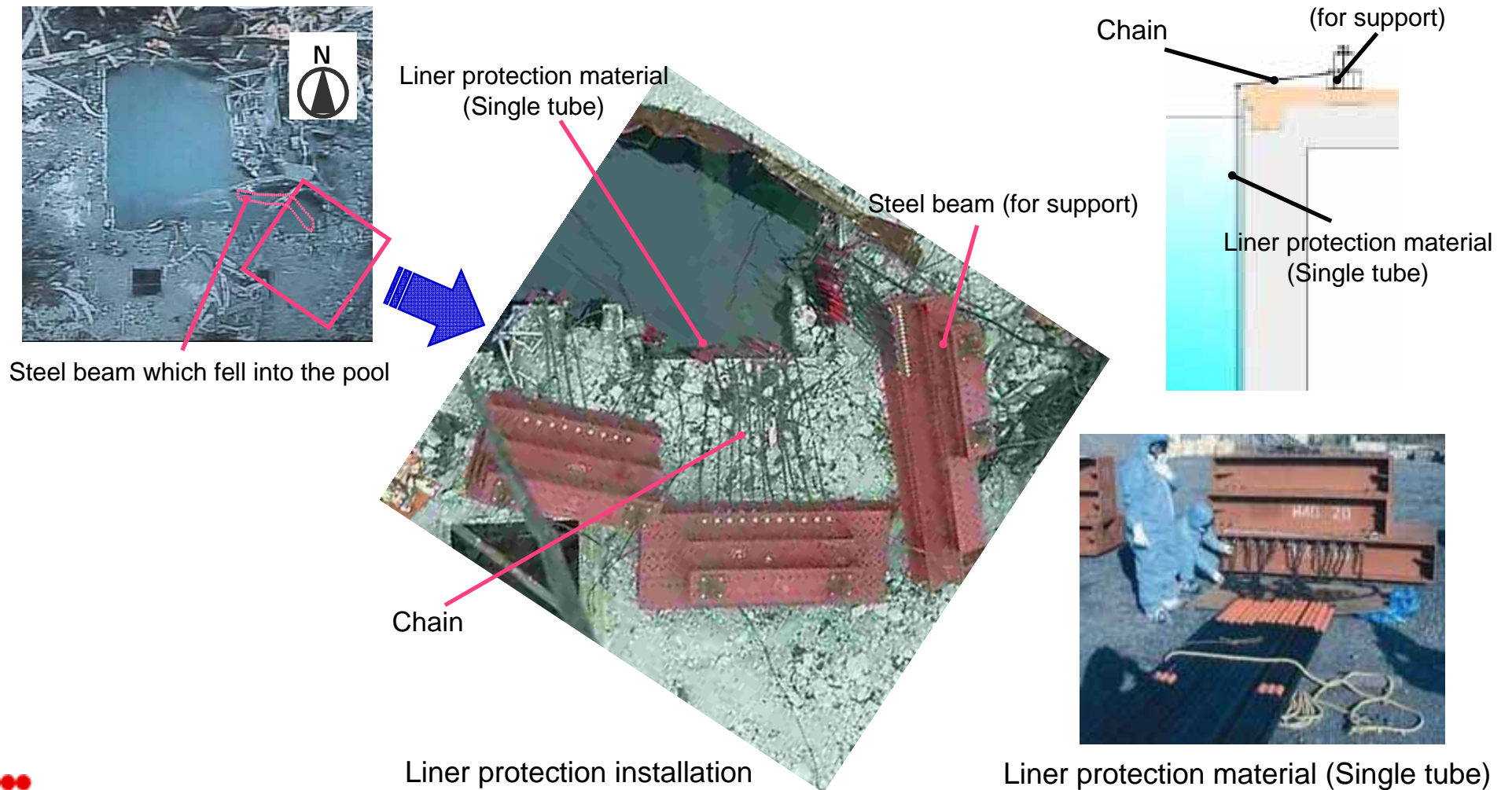


Mockup test (Steel beam being grabbed)

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2. Liner Protection

- Protection of the spent fuel pool liner (December 17)



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3. Spent fuel pool water purification

- The spent fuel pool water purification system has been in operation (since December 10).



The visibility distance* has been increased to approx. 5.0m.

* Distance up to which work can be performed with the unaided eye

