

Fukushima Daiichi NPS: Cracks in Foundation Concrete in H-4 and H-4 East Tank Areas

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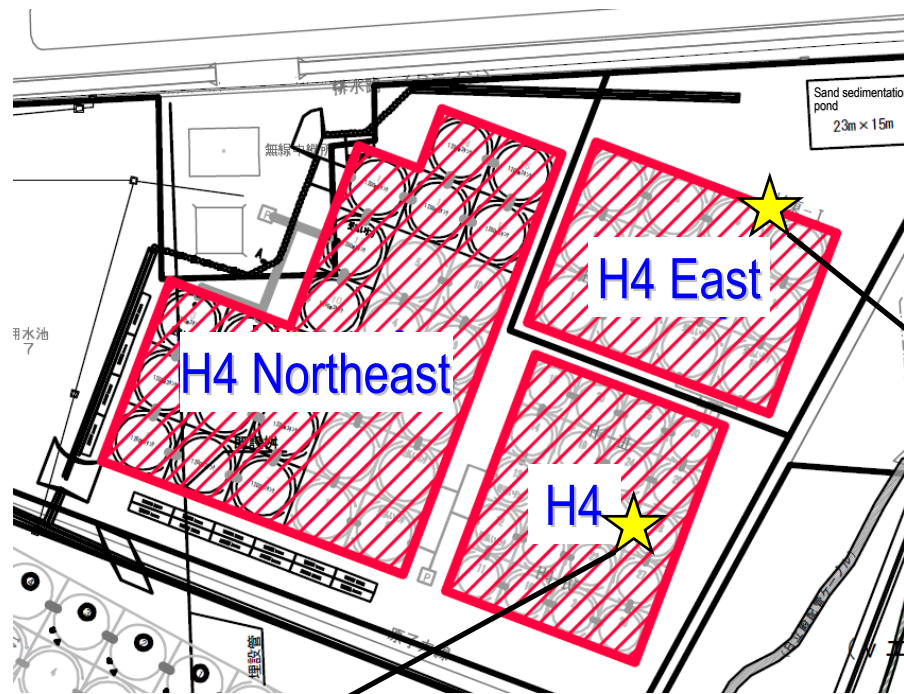
February 12, 2014

Tokyo Electric Power Company

Time Course of the Finding of Cracks

- In a tank patrol on February 11, 2014, cracks were found in the foundation concrete of H-4 and H-4 East tank areas.
- Conditions of the cracks
 - Scales of the cracks
 - <H-4> Approx. 12m in length
 - <H-4 East> Approx. 8m in length
 - There was no water accumulated in each of these cracks when it was found.
- Time course of the finding of cracks
 - In December 2013, these cracks were recognized as minute cracks (those not open to the surface).
 - On that occasion, waterproofing repairs were made using epoxy resin on deteriorated joints and open cracks.
 - After the repairs were made, water filling tests were conducted on December 26 and 27, 2013, and the water levels showed no decrease (whereby it was confirmed that the entirety of each dike was sound in terms of waterproofing capability).
 - **The waterproofing capability has been proved effective for the cracks found this time.**
 - After leakage from tanks in August 2013, application of urethane coating was planned as a construction for permanently waterproofing the inside of the dikes also in the areas found to have cracks this time. **When concrete surface cleaning was conducted** as preparatory work for the construction, **the cracks became clearly visible.**

Locations and Conditions of the Cracks



H-4 East area



H-4 area

Next Steps

- Soil recovery around the areas will be conducted as a precautionary measure.
- A thorough inspection for cracked conditions will be conducted in the areas where application of urethane coating has not been completed yet.
- Application of urethane coating on the inside of the dikes is currently underway as a fundamental measure for joints and concrete cracks, and has been expedited to be completed as early as possible.
 - Implementation of this measure was completed in the H5 area.
 - Implementation of this measure is underway in the H4 and H4 East areas. (Gap-filling between tank components and the foundations is nearly completed. We expect that the coating application will be completed in late February.)