

DTS is Fukushima first responder

In the days following the incident at Fukushima, representatives of Tokyo Electric Power Company (TEPCO) contacted DTS about supplying Underwater Demineralizers for use in the cleanup effort.

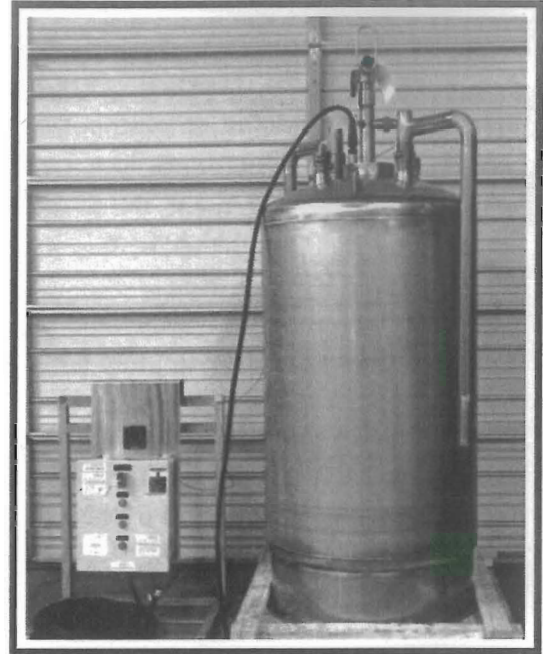
Equipment fills the bill

Our UD vessels, designed in conjunction with Tri Nuclear Corporation (Ballston Lake, NY) are used widely by the nuclear industry in plant decommissioning and helping to maintain water chemistry in Spent Fuel Pools. These vessels are ideally suited to the task at Fukushima.

The 36" diameter UD-36 and 48" diameter UD-48 can be submerged in collected water at the site and allowed to run unattended for weeks. When the media in the vessel is depleted, the water surrounding the submerged vessel will protect workers from a dose rate that is expected to exceed 10,000 R/hr.

Media makes it magic

The UD units ordered by TEPCO contain DTS' DT-31 selective ion exchange media. DT-31 is unique in that it is immune to high sodium concentrations such as those in the salt water used for emergency cooling at Fukushima.



First of 22 stand-alone submersible DTS UD vessels shipped to Japan

The DT-31 media is selective not only for Cs and Sr, but for other metals (e.g., Co, Mg, Pu and U), as well as I. This broad-spectrum exchanger is perfect for Fukushima's needs, given the salt water and wide array of isotopes present.

Zeolites, which were used at TMI, are of limited value at Fukushima. Their selectivity for Cs/Sr is greatly diminished by the high sodium concentration resulting from contamination with salt water.

Rapid response

It typically takes 6-8 weeks to make and deliver a UD-36. When TEPCO ordered 12 UD-36 and 10 UD-48 units for delivery in 30 days, DTS teamed with Tri Nuclear to expedite fabrication. DTS then pre-loaded the vessels with DT-31 to make them ready to "plug and play" upon arrival at the site.

On April 29, 2011, the first 6 vessels were air shipped to Fukushima for use in Spent Fuel Pools and other bodies of water to decontaminate the water for discharge and to lower the general area dose rate for workers entering the plants. The remaining 16 vessels were shipped in May.

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