

[Form 2 (to be reported to Committee on Countermeasures for Contaminated Water Treatment and to be disclosed to public)]

Technology Information	
Area	3 (Select the number from "Areas of Technologies Requested")
Title	Removal of radioactive materials from the seawater in the harbor
Submitted by	EPRI
<p>1. Overview of Technologies (features, specification, functions, owners, etc.)</p> <p>As discussed below, EPRI does not have specific technologies that are directly applicable to the questions outlined in this area. However, based on the practical experience of the EPRI staff, EPRI offers the following observations:</p> <p>A general overview of available media for cesium and strontium removal from aqueous streams is provided in EPRI report 1021099 (Nuclide-Specific and Activity-Removal Media Screening: New and Historical Liquid Waste Treatment Options). This report is available to TEPCO.</p> <p>EPRI is aware of work done in this area in Russia using felt-type material impregnated with cesium-specific removal media for remediation of large bodies of water. However, no details on this application are available to EPRI.</p>	
<p>2. Notes (Please provide following information if possible.)</p> <ul style="list-style-type: none"> - Technology readiness level (including cases of application, not limited to nuclear industry, time line for application) - Challenges 	

- Others (referential information on patent if any)

【Areas of Technologies Requested】

- (1) Accumulation of contaminated water (Storage Tanks, etc.)
- (2) Treatment of contaminated water (Tritium, etc.)
- (3) Removal of radioactive materials from the seawater in the harbor
- (4) Management of contaminated water inside the buildings
- (5) Management measures to block groundwater from flowing into the site
- (6) Understanding the groundwater flow