

[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	
<p>1. Overview of Technologies (features, specification, functions, owners, etc.)</p> <p>Water is accelerated at high speed in a first chamber where electrostatic charges are generated by friction. After that water passes quickly in larger chamber where vacuum bubbles are generated, implosion of such cavitation bubbles gives energy to ions, helping their contact together. These two combined phenomenon generate a phenomenon of germination of insoluble and stable crystals of Sr that can be settled or filtered. NUVIA has patented the product and engaged in 2012 an R&D program to assess the efficiency of the technology by controlling running factors and material in order to increase yield in nuclear applications.</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) Technology is only at its very first step of development. - Challenges Measurement of yields - Others (referential information on patent if any) Patent EP 13306456.8. 	

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【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