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

Technology Information	
Area	1 Accumulation of Contaminated Water
Title	Water Solidification Process
Submitted by	Ceram

1. Overview of Technologies (features, specification, functions, owners, etc.)

Ceram is a UK-based materials consultancy with expertise in developing processes for dealing with nuclear waste. Ceram also has extensive experience of testing and analysis of nuclear related materials.

The Ceram Water Solidification Process uses technology specifically developed to solidify volumes of water.

The Ceram Process has been demonstrated successfully with both ordinary (fresh) water and sea water.

The Process itself is based on inorganic chemical reactions that result in the water being solidified. The water becomes a part of the chemical structure of the solid and is therefore immobilized.

It is important to note that the Process is not based on cement reactions nor does it involve organic polymers. It is a completely inorganic system.

2. Notes (Please provide following information if possible.) - 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