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

Technology Information	
Area	2
Title	TREATMENT OF CONTANIMATED WATER
Submitted by	COLEBRAND INTERNATIONAL LIMITED

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

This is to inform you that Colebrand International Limited in co-operation with Canadian Nuclear Partners (CNP) , a subsidiary of Ontario Power Generation (OPG) are pleased to offer their expertise and past experience in providing a possible solution to remove tritium from the stored water at the Fukushima site. We see the possible solution by processing and pre-treating the water stored and subsequently carrying out tritium removal. To do this a special on-site plant would be designed and built by us based on the existing plant operating successfully for a number of years at Darlington in Canada. Additionally we are able to offer training to Japanese engineers and the transfer of knowhow accumulated over many years of actual work in this area. The subject matter is highly technical and will require a full study and understanding by our experts and scientists of present conditions at the Fukushima site. However we have a good measure of confidence that all our past experience and training is highly relevant to the situation and that an economic and satisfactory solution can be provided.

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

- Technology readiness level – Proposed solution is based on existing Tritium removal plant.

- Challenges

The main challenge is the quantity of contaminated water to be processed.

- 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