International Symposium on "Present Status and Future Perspective for Reducing Radioactive Wastes ~ Aiming for Zero-Release ~" Japan Nuclear Fuel Ltd.

Private Sector Project for LWR Fuel Cycle in Japan

Oct. 9, 2014

Harukuni TANAKA Japan Nuclear Fuel Ltd.





















Enhanced Safety of RRP
Japan Nuclear Fuel Ltd.
 Basic safety design same as nuclear power plants; > Decay heat removal, defense in depth, multiple barriers, emergency power, aseismic design, fire protection, etc.
Safety design specific to reprocessing plant;
 Subcritical, chemicals, solvent fire, inhalation, airplane crash, etc. Safeguards and physical protection for Pu-handling
■ Safety analyses ;
Radioactive release from normal operation.
Design basis event analyses for (1) abnormal transients, (2) beyond- abnormal transients, (3) siting criteria, etc.
Lessons learned from Fukushima;
Urgent safety enhancements ; May, 2011.
Stress tests; April 2012 and May 2013.
Response to NRA's new safety requirements;
> Application for license ; Jan. 7th, 2014
> Design upgrades for internal floods, tornado missiles, earthquakes, etc.
Severe accident management for HLW dry-out, critical, hydrogen
accumulation, loss of coolant in spent fuel pool, etc. 11
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> Expected to be in October, 2017





