Advanced Test Reactor
Post-Fukushima
Modifications/Upgrades

October 30, 2012
TOPICS

- DOE and ATR management have continued to stay current on NRC and industry guidance and Orders related to the Japan earthquake

- BEA has completed an assessment against the NRC Orders Recommendations in EA-12-049 and EA-12-051 at DOE direction

- As a result of walk-downs and assessments, ATR personnel have initiated several plant enhancements, which include:
  - Installation of a new ATR canal auxiliary fill system that can be accessed from outside the reactor building
- Installation of the capability to supply power to the M-10 emergency coolant pump by a remote diesel (Station Blackout equipment)

- Completed installation of heat exchanger seismic supports and PCS piping supports which increased the PRA margin for Core Damage Frequency (CDF)

Primary Heat Exchanger Support Mods
ATR has Station Blackout path for 72 hours without plant modification has been established. The commercial fleet under the SBO rule currently only has 4-8 hours depending on the plant.

ATR management and DOE endorse the use of a Diverse and Flexible Coping Strategy (NEI 12-06) for managing BDBEs at the ATR Complex.