



U.S. NRC

United States Nuclear Regulatory Commission

Protecting People and the Environment

**US-APWR
Standard Design Certification
Gas Turbine Generator
Public Meeting**

By:

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Purpose

- Discuss Gas Turbine Generator (GTG) Testing Requirements
- Plant Start-up and Shutdown with Required Electrical Divisions
- MHI's Diversity Plan for the use of GTG as an alternate AC source for SBO to satisfy Commission Guidance.

NRC Questions and Related Discussion Items

- Technical Report – MUAP-07024P
(Qualification & Test Plan of Class 1E
GTG)
 - What changes can we expect in Revision 1, scheduled for October 2009?
 - Will MHI provide GTG test plan for NRC staff to review?
 - Will MHI provide commercial dedication plan for NRC staff to review?

NRC Questions and Related Discussion Items

- Has MHI determined its target Reliability for GTG testing per RG 1.155 (Station Blackout)?
- Will the GTG test results be available by December 2010 for NRC staff to review?
- GTG will be an “Open Item” in the Chapter 8 SER pending review of test results.

Safe Shutdown of the Plant with Two Divisions for Design Basis Accidents & Events

- MHI claims to shut down plant with any two divisions
- Two Divisions require manual actions to meet single failure
- Manual actions not permitted for design bases events

Plant Start-up with 3 Electrical Divisions

- Three divisions with single failure will require manual actions for safe shutdown
- For design bases events manual actions are not permitted
- MHI to explain how to achieve safe shutdown with three divisions without crediting manual actions
- MHI to address TS and LCOs/AOTs