ENCLOSURE 1

MFN 05-115

Description and Schedule of Reports to Support Review of DCD Sections 4.2, 4.3, and 4.4

The following reports will be prepared and provide the reference information to support review of DCD Sections 4.2, 4.3, and 4.4.

DCD Section 4.2, 4.3, and 4.4 New References Description	Delivery Date
GE14 for ESBWR Critical Power Correlation, Uncertainty, and OLMCPR Development This report contains the evaluation of the critical power data from the GE14 data that is representative of the GE14E geometry and covers the range of ESBWR operating conditions. It contains the justification of the uncertainties assumed in the development of OLMCPR (similar to the SLMCPR uncertainties). It also provides the statistical OLMCPR calculation results.	Mar 6, 2006
GE14 Pressure Drop Characteristics This report contains the pressure drop characteristics of the spacers, lower tie plate, upper tie plate, and water rod for GE14 fuel.	Dec 12, 2005
GE14 for ESBWR Nuclear Design Report This will contain reactivity coefficient analysis, control requirement (SLCS and Shutdown Margin), Xenon stability, Control of Power Distribution, and Nuclear Methods	Feb 20, 2006
GE14 Fuel Assembly Mechanical Design Report This report contains design loads for fuel assembly components, design criteria for components, structural (stress/strain/fatigue) analyses and results, and evaluation of dimensional compatibility (differential growth)	Nov 21, 2005
GE14 for ESBWR Fuel Assembly Mechanical Design Report Based on comparison with GE14, evaluation of design loads for fuel assembly components, design criteria for components, structural (stress/strain/fatigue) analyses and results, and evaluation of dimensional compatibility (differential growth).	Feb 6, 2006
GE14 Fuel Rod Thermal-Mechanical Design Report Design Criteria and Analyses for Fuel Rod Internal Pressure, Cladding Strain, Hydriding, Fuel Temperature, Cladding Corrosion, Cladding Creep Collapse, Fuel Rod Stresses, and Cladding Fatigue.	Nov 21, 2005
GE14 for ESBWR Fuel Rod Thermal-Mechanical Design Report Based on comparison with GE14, evaluate Fuel Rod Internal Pressure, Cladding Strain, Hydriding, Fuel Temperature, Cladding Corrosion, Cladding Creep Collapse, Fuel Rod Stresses, and Cladding Fatigue.	Jan 23, 2006
ESBWR Marathon Control Rod Nuclear Design Report This report will contain the control rod nuclear lifetime.	Apr 24, 2006

DCD Section 4.2, 4.3, and 4.4 New References Description	Delivery Date
ESBWR Marathon Control Rod Mechanical Design Report This report will contain the evaluation for SCRAM loads, seismic deflections, stuck rod, absorber burn-up loads and swelling, handling loads, hydraulic loads, material performance and applicable mechanical compatibility.	Apr 24, 2006