Fukushima Functional Testing

Equipment Groups	Separate Effects Testing	Integrated Plant Response Testing	Operator Timeline Testing	Portable Equipment Testing
Modes 5 and 6 RCS Cooling (SGs not available)	**ITAAC** – For Phase 1 event mitigation, demonstrate that accumulator addition rate is established/fixed such that sufficient flow is provided to remove core decay heat. **Technical Specification Testing 3.5.1 and 3.4.10** (e.g., accumulator volume and boron concentration, pressurizer safety relief valves are operable in accordance with Inservice Testing Program). **Initial Test Program –** The ITP includes the following: • **Accumulators, #015** (e.g., valves function as designed, alarm/interlocks and controls function as designed) • **PSRVs, #037 and #151** (e.g., PSRV capacity meets design requirements, PSRVs function as described in Tier 2 Section 5.4) • **RCS Makeup in Modes 5 and 6 – Phase 2, #058** (e.g., verify that accumulator addition rate exceeds design requirement, verify that pump flow rate and developed head meet design requirements)	Integrated plant response for Modes 5 and 6 RCS cooling is demonstrated by analysis. No integrated plant response testing.	Operator actions and staffing would confirm sequence of events timeline for Modes 5 and 6 RCS cooling.	COL Applicant will utilize industry developed guidance (e.g., Owners Groups, EPRI) to address the portable equipment testing criteria in NEI 12-06 (e.g., self-powered, low pressure, RCS makeup pump).

Fukushima Functional Testing

Equipment Groups	Separate Effects Testing	Integrated Plant Response Testing	Operator Timeline Testing	Portable Equipment Testing
Containment Depressurization	**Initial Test Program –** The ITP includes the following: • **Containment Purge, #076** (e.g., containment purge valves meet design requirements) • **Severe Accident Heat Removal System, #018** (e.g., SAHRS spray header nozzles are unobstructed)	Integrated plant response for containment depressurization is demonstrated by analysis. No integrated plant response testing.	Operator actions and staffing would confirm sequence of events timeline for containment depressurization	COL Applicant will utilize industry developed guidance (e.g., Owners Groups, EPRI) to address the portable equipment testing criteria in NEI 12-06 (e.g., self-powered, containment spray pump).

Fukushima Functional Testing

Equipment Groups	Separate Effects Testing	Integrated Plant Response Testing	Operator Timeline Testing	Portable Equipment Testing
Spent Fuel Cooling	**Initial Test Program – Spent Fuel Spray, # 050** (e.g., verify spray flow rate meets minimum/maximum design limits, verify that Spent Fuel Spray valve performance meets design requirements).	Integrated plant response for spent fuel cooling is demonstrated by analysis. No integrated plant response testing.	Operator actions and staffing would confirm sequence of events timeline for spent fuel cooling.	COL Applicant will utilize industry developed guidance (e.g., Owners Groups, EPRI) to address the portable equipment testing criteria in NEI 12-06 (e.g., self-powered, SFP makeup pump).

Fukushima Functional Testing

Equipment Groups	Separate Effects Testing	Integrated Plant Response Testing	Operator Timeline Testing	Portable Equipment Testing
Repower Electrical Equipment	**Initial Test Program – ELAP Diesel Generator, #138** (e.g., verify ELAP diesel generator meets endurance and margin requirements, demonstrate hot restart functional capability).	Integrated plant response for repowering electrical equipment is demonstrated by analysis. No integrated plant response testing.	Operator actions and staffing would confirm sequence of events timeline for repowering electrical equipment.	COL Applicant will utilize industry developed guidance (e.g., Owners Groups, EPRI) to address the portable equipment testing criteria in NEI 12-06 (e.g., portable diesel generator).
Area Ventilation	No Technical Specification Testing or Initial Test Program tests with respect to loss of ventilation testing in pertinent plant areas (e.g., electrical equipment areas).	Integrated plant response for area ventilation is demonstrated by analysis. No integrated plant response testing.	Operator actions and staffing would confirm sequence of events timeline for area ventilation.	COL Applicant will utilize industry developed guidance (e.g., Owners Groups, EPRI) to address the portable equipment testing criteria in NEI 12-06 (e.g., portable fans).

NRC Fukushima Next Interactions

Proposed Date	Scope	Interaction Type
Tuesday 4/16/2013	NRC Pre-Submittal Public Meeting on Draft Technical Report	Meeting intent fulfilled by 1/15/2013, 3/5/2013, and 4/3/2013 meetings
Tuesday 4/16/2013	DCWG Meeting	Public Meeting
Tuesday 4/30/2013	AREVA submits RAI 563 response and Technical Report	Submittal
Week of 6/10/2013	NRC Public Meeting to Provide Feedback on Technical Report	Public Meeting