

General Integrated Plan Elements (PWR & BWR)	
<p>Determine Applicable Extreme External Hazard</p> <p>Ref: NEI 12-06 section 4.0 -9.0 JLD-ISG-2012-01 section 1.0</p>	<p><i>Input the hazards applicable to the site; seismic, external flood, high winds, snow, ice, cold, high temps.</i></p> <p><i>Describe how NEI 12-06 sections 5 – 9 were applied and the basis for why the plant screened out for certain hazards.</i></p>
<p>Key Site assumptions to implement NEI 12-06 strategies.</p> <p>Ref: NEI 12-06 section 3.2.1</p>	<p><i>Provide key assumptions associated with implementation of FLEX Strategies:</i></p> <ul style="list-style-type: none"> • <i>Flood and seismic re-evaluations pursuant to the 10 CFR 50.54(f) letter of March 12, 2012 are not completed and therefore not assumed in this submittal. As the re-evaluations are completed, appropriate issues will be entered into the corrective action system and addressed on a schedule commensurate with other licensing bases changes.</i> • <i>Exceptions for the site security plan or other (license/site specific) requirements of 10CFR may be required.</i> • <i>Deployment resources are assumed to begin arriving at hour 6 and fully staffed by 24 hours.</i> • <i>Certain Technical Specifications cannot be complied with during FLEX implementation.</i>
<p>Extent to which the guidance, JLD-ISG-2012-01 and NEI 12-06, are being followed. Identify any deviations to JLD-ISG-2012-01 and NEI 12-06.</p> <p>Ref: JLD-ISG-2012-01 NEI 12-06 13.1</p>	<p><i>Include a description of any alternatives to the guidance, and provide a milestone schedule of planned action.</i></p>
<p>Provide a sequence of events and identify any time constraint required for success including the technical basis for the time constraint.</p> <p>Ref: NEI 12-06 section 3.2.1.7 JLD-ISG-2012-01 section 2.1</p>	<p><i>Strategies that have a time constraint to be successful should be identified with a technical basis and a justification provided that the time can reasonably be met (for example, a walk through of deployment).</i></p> <p><i>Describe in detail in this section the technical basis for the time constraint identified on the sequence of events timeline Attachment 1A</i></p> <p><i>See attached sequence of events timeline (Attachment 1A).</i></p>

February 2013 FLEX Integrated Plan

	<p><i>Technical Basis Support information, see attached NSSS Significant Reference Analysis Deviation Table (Attachment 1B)</i></p>
<p>Identify how strategies will be deployed in all modes.</p> <p>Ref: NEI 12-06 section 13.1.6</p>	<p><i>Describe how the strategies will be deployed in all modes.</i></p>
<p>Provide a milestone schedule. This schedule should include:</p> <ul style="list-style-type: none"> • Modifications timeline <ul style="list-style-type: none"> ○ Phase 1 Modifications ○ Phase 2 Modifications ○ Phase 3 Modifications • Procedure guidance development complete <ul style="list-style-type: none"> ○ Strategies ○ Maintenance • Storage plan (reasonable protection) • Staffing analysis completion • FLEX equipment acquisition timeline • Training completion for the strategies • Regional Response Centers operational <p>Ref: NEI 12-06 section 13.1</p>	<p><i>The dates specifically required by the order are obligated or committed dates. Other dates are planned dates subject to change. Updates will be provided in the periodic (six month) status reports.</i></p> <p><i>See attached milestone schedule Attachment 2</i></p>
<p>Identify how the programmatic controls will be met.</p> <p>Ref: NEI 12-06 section 11 JLD-ISG-2012-01 section 6.0</p>	<p><i>Provide a description of the programmatic controls equipment protection, storage and deployment and equipment quality. See section 11 in NEI 12-06. Storage of equipment, 11.3, will be documented in later sections of this template and need not be included in this section.</i></p> <p><i>See section 6.0 of JLD-ISG-2012-01.</i></p>

February 2013 FLEX Integrated Plan

Describe training plan	<i>List training plans for affected organizations or describe the plan for training development</i>
Describe Regional Response Center plan	Boiler plate wording to be added General plan to be developed (with specifics covered in the Phase 3 descriptions)
Notes:	

Maintain Core Cooling & Heat Removal	
<p>Determine Baseline coping capability with installed coping¹ modifications not including FLEX modifications, utilizing methods described in Table 3-2 of NEI 12-06:</p> <ul style="list-style-type: none"> • AFW/EFW • Depressurize SG for Makeup with Portable Injection Source • Sustained Source of Water <p>Ref: JLD-ISG-2012-01 section 2 and 3</p>	
PWR Installed Equipment Phase 1	
<p><i>Provide a general description of the coping strategies using installed equipment including station modifications that are proposed to maintain core cooling. Identify methods (AFW/EFW) and strategy(ies) utilized to achieve this coping time.</i></p>	
Details:	
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation.</i>
Identify modifications	<i>List modifications and describe how they support coping time.</i>
Key Reactor Parameters	<i>List instrumentation credited for this coping evaluation phase.</i>
<p>Notes:</p> <p>[Note: On-going discussions on source of analysis, adequacy of analysis to provide reasonable assurance, and method of documentation to reach a milestone]</p>	

¹ Coping modifications consist of modifications installed to increase initial coping time, i.e. generators to preserve vital instruments or increase operating time on battery powered equipment.

Maintain Core Cooling & Heat Removal		
PWR Portable Equipment Phase 2		
<i>Provide a general description of the coping strategies using on-site portable equipment including station modifications that are proposed to maintain core cooling. Identify methods and strategy(ies) utilized to achieve this coping time.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation with a description of the procedure / strategy / guideline.</i>	
Identify modifications	<i>List modifications necessary for phase 2</i>	
Key Reactor Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Storage / Protection of Equipment :		
Describe storage / protection plan or schedule to determine storage requirements		
Seismic	<i>List Protection or schedule to protect</i>	
Flooding <small>Note: if stored below current flood level, then ensure procedures exist to move equipment prior to exceeding flood level.</small>	<i>List Protection or schedule to protect</i>	
Severe Storms with High Winds	<i>List Protection or schedule to protect</i>	
Snow, Ice, and Extreme Cold	<i>List Protection or schedule to protect</i>	
High Temperatures	<i>List Protection or schedule to protect</i>	
Deployment Conceptual Design (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Maintain Core Cooling & Heat Removal

PWR Portable Equipment Phase 3

Provide a general description of the coping strategies using phase 3 equipment including modifications that are proposed to maintain core cooling. Identify methods and strategy(ies) utilized to achieve this coping time.

Details:

Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation with a description of the procedure / strategy / guideline.</i>
Identify modifications	<i>List modifications necessary for phase 3</i>
Key Reactor Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>

Deployment Conceptual Design
(Attachment 3 contains Conceptual Sketches)

Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>

Notes:

Maintain RCS Inventory Control	
Determine Baseline coping capability with installed coping² modifications not including FLEX modifications, utilizing methods described in Table 3-2 of NEI 12-06:	
<ul style="list-style-type: none"> • Low Leak RCP Seals or RCS makeup required • All Plants Provide Means to Provide Borated RCS Makeup 	
PWR Installed Equipment Phase 1:	
<i>Provide a general description of the coping strategies using installed equipment including modifications that are proposed to maintain core cooling. Identify methods (Low Leak RCP Seals and/or borated high pressure RCS makeup) and strategy(ies) utilized to achieve this coping time.</i>	
Details:	
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>
Identify modifications	<i>List modifications</i>
Key Reactor Parameters	<i>List instrumentation credited for this coping evaluation.</i>
Notes:	

² Coping modifications consist of modifications installed to increase initial coping time, i.e. generators to preserve vital instruments or increase operating time on battery powered equipment.

Maintain RCS Inventory Control		
PWR Portable Equipment Phase 2:		
<i>Provide a general description of the coping strategies using on-site portable equipment including modifications that are proposed to maintain core cooling. Identify methods(Low Leak RCP Seals and/or borated high pressure RCS makeup)and strategy(ies) utilized to achieve this coping time.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key Reactor Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Storage / Protection of Equipment:		
Describe storage / protection plan or schedule to determine storage requirements		
Seismic	<i>List Protection or schedule to protect</i>	
Flooding <small>Note: if stored below current flood level, then ensure procedures exist to move equipment prior to exceeding flood level.</small>	<i>List Protection or schedule to protect</i>	
Severe Storms with High Winds	<i>List Protection or schedule to protect</i>	
Snow, Ice, and Extreme Cold	<i>List Protection or schedule to protect</i>	
High Temperatures	<i>List Protection or schedule to protect</i>	
Deployment Conceptual Modification (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Maintain RCS Inventory Control

PWR Portable Equipment Phase 3:

Provide a general description of the coping strategies using phase 3 equipment including modifications that are proposed to maintain core cooling. Identify methods (Low Leak RCP Seals and/or borated high pressure RCS makeup) and strategy(ies) utilized to achieve this coping time..

Details:

Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>
Identify modifications	<i>List modifications</i>
Key Reactor Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>

Deployment Conceptual Modification
(Attachment 3 contains Conceptual Sketches)

Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>

Notes:

Maintain Containment	
<p>Determine Baseline coping capability with installed coping³ modifications not including FLEX modifications, utilizing methods described in Table 3-2 of NEI 12-06:</p> <ul style="list-style-type: none"> • Containment Spray • Hydrogen igniters (ice condenser containments only) 	
PWR Installed Equipment Phase 1:	
<p><i>Provide a general description of the coping strategies using installed equipment including modifications that are proposed to maintain containment. Identify methods (containment spray/Hydrogen igniter) and strategy(ies) utilized to achieve this coping time.</i></p> <p>There are no phase 1 actions required at this time that need to be addressed.</p>	
Details:	
Provide a brief description of Procedures / Strategies / Guidelines	<i>N/A</i>
Identify modifications	<i>N/A</i>
Key Containment Parameters	<i>List instrumentation credited for this coping evaluation.</i>
Notes:	

³ Coping modifications consist of modifications installed to increase initial coping time, i.e. generators to preserve vital instruments or increase operating time on battery powered equipment.

Maintain Containment		
PWR Portable Equipment Phase 2:		
<i>Provide a general description of the coping strategies using on-site portable equipment including modifications that are proposed to maintain core cooling. Identify methods (containment spray/hydrogen igniters) and strategy(ies) utilized to achieve this coping time.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key Containment Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Storage / Protection of Equipment:		
Describe storage / protection plan or schedule to determine storage requirements		
Seismic	<i>List how equipment is protected or schedule to protect</i>	
Flooding	<i>List how equipment is protected or schedule to protect</i>	
Severe Storms with High Winds	<i>List how equipment is protected or schedule to protect</i>	
Snow, Ice, and Extreme Cold	<i>List how equipment is protected or schedule to protect</i>	
High Temperatures	<i>List how equipment is protected or schedule to protect</i>	
Deployment Conceptual Modification (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Maintain Containment		
PWR Portable Equipment Phase 3:		
<i>Provide a general description of the coping strategies using phase 3 equipment including modifications that are proposed to maintain core cooling. Identify methods (containment spray/hydrogen igniters) and strategy(ies) utilized to achieve this coping time.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key Containment Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Deployment Conceptual Modification (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Maintain Spent Fuel Pool Cooling	
Determine Baseline coping capability with installed coping⁴ modifications not including FLEX modifications, utilizing methods described in Table 3-2 of NEI 12-06:	
<ul style="list-style-type: none"> • Makeup with Portable Injection Source 	
PWR Installed Equipment Phase 1:	
<i>Provide a general description of the coping strategies using installed equipment including modifications that are proposed to maintain spent fuel pool cooling. Identify methods (makeup via portable injection source) and strategy(ies) utilized to achieve this coping time.</i>	
There are no phase 1 actions required at this time that need to be addressed.	
Details:	
Provide a brief description of Procedures / Strategies / Guidelines	N/A
Identify modifications	N/A
Key SFP Parameter	Per EA 12-051
Notes:	

⁴ Coping modifications consist of modifications installed to increase initial coping time, i.e. generators to preserve vital instruments or increase operating time on battery powered equipment.

Maintain Spent Fuel Pool Cooling		
PWR Portable Equipment Phase 2:		
<i>Provide a general description of the coping strategies using on-site portable equipment including modifications that are proposed to maintain spent fuel pool cooling. Identify methods (makeup via portable injection source) and strategy(ies) utilized to achieve this coping time.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key SFP Parameter	<i>Per EA 12-051</i>	
Storage / Protection of Equipment:		
Describe storage / protection plan or schedule to determine storage requirements		
Seismic	<i>List how equipment is protected or schedule to protect</i>	
Flooding	<i>List how equipment is protected or schedule to protect</i>	
Severe Storms with High Winds	<i>List how equipment is protected or schedule to protect</i>	
Snow, Ice, and Extreme Cold	<i>List how equipment is protected or schedule to protect</i>	
High Temperatures	<i>List how equipment is protected or schedule to protect</i>	
Deployment Conceptual Design		
(Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Maintain Spent Fuel Pool Cooling		
PWR Portable Equipment Phase 3:		
<i>Provide a general description of the coping strategies using phase 3 equipment including modifications that are proposed to maintain spent fuel pool cooling. Identify methods (makeup via portable injection source) and strategy(ies) utilized to achieve this coping time.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key SFP Parameter	<i>Per EA 12-051</i>	
Deployment Conceptual Design (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Safety Functions Support	
Determine Baseline coping capability with installed coping⁵ modifications not including FLEX modifications.	
PWR Installed Equipment Phase 1	
<i>Provide a general description of the coping strategies using installed equipment including station modifications that are proposed to maintain and/or support safety functions. Identify methods and strategy(ies) utilized to achieve coping times.</i>	
Details:	
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation.</i>
Identify modifications	<i>List modifications and describe how they support coping time.</i>
Key Parameters	<i>List instrumentation credited for this coping evaluation phase.</i>
Notes:	

⁵ Coping modifications consist of modifications installed to increase initial coping time, i.e. generators to preserve vital instruments or increase operating time on battery powered equipment.

Safety Functions Support		
PWR Portable Equipment Phase 2		
<i>Provide a general description of the coping strategies using on-site portable equipment including station modifications that are proposed to maintain and/or support safety functions. Identify methods and strategy(ies) utilized to achieve coping times.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation with a description of the procedure / strategy / guideline.</i>	
Identify modifications	<i>List modifications necessary for phase 2</i>	
Key Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Storage / Protection of Equipment :		
Describe storage / protection plan or schedule to determine storage requirements		
Seismic	<i>List how equipment is protected or schedule to protect</i>	
Flooding <small>Note: if stored below current flood level, then ensure procedures exist to move equipment prior to exceeding flood level.</small>	<i>List how equipment is protected or schedule to protect</i>	
Severe Storms with High Winds	<i>List how equipment is protected or schedule to protect</i>	
Snow, Ice, and Extreme Cold	<i>List how equipment is protected or schedule to protect</i>	
High Temperatures	<i>List how equipment is protected or schedule to protect</i>	
Deployment Conceptual Design		
(Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Safety Functions Support		
PWR Portable Equipment Phase 3		
<i>Provide a general description of the coping strategies using phase 3 equipment including modifications that are proposed to maintain and/or support safety functions. Identify methods and strategy(ies) utilized to achieve coping times.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation with a description of the procedure / strategy / guideline.</i>	
Identify modifications	<i>List modifications necessary for phase 3</i>	
Key Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Deployment Conceptual Design (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

> 24 Hour Response	
Item	Notes
<p>Radiation Protection Equipment</p> <ul style="list-style-type: none"> • Survey instruments • Dosimetry • Off-site monitoring/sampling 	
<p>Commodities</p> <ul style="list-style-type: none"> • Food • Potable water 	

Maintain Core Cooling	
Determine Baseline coping capability with installed coping⁶ modifications not including FLEX modifications, utilizing methods described in Table 3-1 of NEI 12-06:	
<ul style="list-style-type: none"> • RCIC/HPCI/IC • Depressurize RPV for injection with portable injection source • Sustained water source 	
BWR Installed Equipment Phase 1:	
<i>Provide a general description of the coping strategies using installed equipment including modifications that are proposed to maintain core cooling. Identify methods (RCIC/HPCI/IC) and strategy(ies) utilized to achieve this coping time.</i>	
Details:	
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>
Identify modifications	<i>List modifications</i>
Key Reactor Parameters	<i>List instrumentation credited for this coping evaluation.</i>
Notes:	

⁶ Coping modifications consist of modifications installed to increase initial coping time, i.e. generators to preserve vital instruments or increase operating time on battery powered equipment.

Maintain Core Cooling		
BWR Portable Equipment Phase 2:		
<i>Provide a general description of the coping strategies using on-site portable equipment including modifications that are proposed to maintain core cooling. Identify methods (RCIC/HPCI/IC) and strategy(ies) utilized to achieve this coping time.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key Reactor Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Storage / Protection of Equipment :		
Describe storage / protection plan or schedule to determine storage requirements		
Seismic	<i>List how equipment is protected or schedule to protect</i>	
Flooding <small>Note: if stored below current flood level, then ensure procedures exist to move equipment prior to exceeding flood level</small>	<i>List how equipment is protected or schedule to protect</i>	
Severe Storms with High Winds	<i>List how equipment is protected or schedule to protect</i>	
Snow, Ice, and Extreme Cold	<i>List how equipment is protected or schedule to protect</i>	
High Temperatures	<i>List how equipment is protected or schedule to protect</i>	
Deployment Conceptual Modification (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Maintain Core Cooling		
BWR Portable Equipment Phase 3:		
<i>Provide a general description of the coping strategies using phase 3 equipment including modifications that are proposed to maintain core cooling. Identify methods (RCIC/HPCI/IC) and strategy(ies) utilized to achieve this coping time.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key Reactor Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Deployment Conceptual Modification (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Maintain Containment	
Determine Baseline coping capability with installed coping⁷ modifications not including FLEX modifications, utilizing methods described in Table 3-1 of NEI 12-06:	
<ul style="list-style-type: none"> • Containment Venting or Alternate Heat Removal • Hydrogen Igniters (Mark III containments only) 	
BWR Installed Equipment Phase 1:	
<i>Provide a general description of the coping strategies using installed equipment including modifications that are proposed to maintain core cooling. Identify methods (containment vent or alternative / Hydrogen Igniters) and strategy(ies) utilized to achieve this coping time.</i>	
Details:	
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>
Identify modifications	<i>List modifications</i>
Key Containment Parameters	<i>List instrumentation credited for this coping evaluation.</i>
Notes:	

⁷ Coping modifications consist of modifications installed to increase initial coping time, i.e. generators to preserve vital instruments or increase operating time on battery powered equipment.

Maintain Containment		
BWR Portable Equipment Phase 2:		
<i>Provide a general description of the coping strategies using on-site portable equipment including modifications that are proposed to maintain core cooling. Identify methods (containment vent or alternative / Hydrogen Igniters) and strategy(ies) utilized to achieve this coping time.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key Containment Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Storage / Protection of Equipment :		
Describe storage / protection plan or schedule to determine storage requirements		
Seismic	<i>List how equipment is protected or schedule to protect</i>	
Flooding <small>Note: if stored below current flood level, then ensure procedures exist to move equipment prior to exceeding flood level.</small>	<i>List how equipment is protected or schedule to protect</i>	
Severe Storms with High Winds	<i>List how equipment is protected or schedule to protect</i>	
Snow, Ice, and Extreme Cold	<i>List how equipment is protected or schedule to protect</i>	
High Temperatures	<i>List how equipment is protected or schedule to protect</i>	
Deployment Conceptual Design (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Maintain Containment		
BWR Portable Equipment Phase 3:		
<i>Provide a general description of the coping strategies using phase 3 equipment including modifications that are proposed to maintain core cooling. Identify methods (containment vent or alternative / Hydrogen Igniters) and strategy(ies) utilized to achieve this coping time.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key Containment Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Deployment Conceptual Design (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Maintain Spent Fuel Pool Cooling	
Determine Baseline coping capability with installed coping⁸ modifications not including FLEX modifications, utilizing methods described in Table 3-1 of NEI 12-06:	
<ul style="list-style-type: none"> • Makeup with Portable Injection Source 	
BWR Installed Equipment Phase 1:	
<p><i>Provide a general description of the coping strategies using installed equipment including modifications that are proposed to maintain spent fuel pool cooling. Identify methods (makeup with portable injection source) and strategy(ies) utilized to achieve this coping time</i></p>	
There are no phase 1 actions required at this time that need to be addressed.	
Details:	
Provide a brief description of Procedures / Strategies / Guidelines	N/A
Identify any equipment modifications	N/A
Key SFP Parameter	Per EA 12-051
Notes:	

⁸ Coping modifications consist of modifications installed to increase initial coping time, i.e. generators to preserve vital instruments or increase operating time on battery powered equipment.

Maintain Spent Fuel Pool Cooling		
BWR Portable Equipment Phase 2:		
<i>Provide a general description of the coping strategies using on-site portable equipment including modifications that are proposed to maintain spent fuel pool cooling. Identify methods (makeup with portable injection source) and strategy(ies) utilized to achieve this coping time.</i>		
Schedule:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key SFP Parameter	<i>Per EA 12-051</i>	
Storage / Protection of Equipment : Describe storage / protection plan or schedule to determine storage requirements		
Seismic	<i>List how equipment is protected or schedule to protect</i>	
Flooding <small>Note: if stored below current flood level, then ensure procedures exist to move equipment prior to exceeding flood level.</small>	<i>List how equipment is protected or schedule to protect</i>	
Severe Storms with High Winds	<i>List how equipment is protected or schedule to protect</i>	
Snow, Ice, and Extreme Cold	<i>List how equipment is protected or schedule to protect</i>	
High Temperatures	<i>List how equipment is protected or schedule to protect</i>	
Deployment Conceptual Design (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Maintain Spent Fuel Pool Cooling		
BWR Portable Equipment Phase 3:		
<i>Provide a general description of the coping strategies using phase 3 equipment including modifications that are proposed to maintain spent fuel pool cooling. Identify methods (makeup with portable injection source) and strategy(ies) utilized to achieve this coping time.</i>		
Schedule:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation</i>	
Identify modifications	<i>List modifications</i>	
Key SFP Parameter	<i>Per EA 12-051</i>	
Deployment Conceptual Design (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Safety Functions Support	
Determine Baseline coping capability with installed coping⁹ modifications not including FLEX modifications.	
BWR Installed Equipment Phase 1	
<i>Provide a general description of the coping strategies using installed equipment including station modifications that are proposed to maintain and/or support safety functions. Identify methods and strategy(ies) utilized to achieve coping times.</i>	
Details:	
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation.</i>
Identify modifications	<i>List modifications and describe how they support coping time.</i>
Key Parameters	<i>List instrumentation credited for this coping evaluation phase.</i>
Notes:	

⁹ Coping modifications consist of modifications installed to increase initial coping time, i.e. generators to preserve vital instruments or increase operating time on battery powered equipment.

Safety Functions Support		
BWR Portable Equipment Phase 2		
<i>Provide a general description of the coping strategies using on-site portable equipment including station modifications that are proposed to maintain and/or support safety functions. Identify methods and strategy(ies) utilized to achieve coping times.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation with a description of the procedure / strategy / guideline.</i>	
Identify modifications	<i>List modifications necessary for phase 2</i>	
Key Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Storage / Protection of Equipment :		
Describe storage / protection plan or schedule to determine storage requirements		
Seismic	<i>List how equipment is protected or schedule to protect</i>	
Flooding <small>Note: if stored below current flood level, then ensure procedures exist to move equipment prior to exceeding flood level.</small>	<i>List how equipment is protected or schedule to protect</i>	
Severe Storms with High Winds	<i>List how equipment is protected or schedule to protect</i>	
Snow, Ice, and Extreme Cold	<i>List how equipment is protected or schedule to protect</i>	
High Temperatures	<i>List how equipment is protected or schedule to protect</i>	
Deployment Conceptual Design		
(Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

Safety Functions Support		
BWR Portable Equipment Phase 3		
<i>Provide a general description of the coping strategies using phase 3 equipment including modifications that are proposed to maintain and/or support safety functions. Identify methods and strategy(ies) utilized to achieve coping times.</i>		
Details:		
Provide a brief description of Procedures / Strategies / Guidelines	<i>Confirm that procedure/guidance exists or will be developed to support implementation with a description of the procedure / strategy / guideline.</i>	
Identify modifications	<i>List modifications necessary for phase 3</i>	
Key Parameters	<i>List instrumentation credited or recovered for this coping evaluation.</i>	
Deployment Conceptual Design (Attachment 3 contains Conceptual Sketches)		
Strategy	Modifications	Protection of connections
<i>Identify Strategy including how the equipment will be deployed to the point of use.</i>	<i>Identify modifications</i>	<i>Identify how the connection is protected</i>
Notes:		

BWR Portable Equipment Phase 2						
<i>List portable equipment</i>	<i>Use and (potential / flexibility) diverse uses</i>					
	Core	Containment	SFP	Instrumentation	Accessibility	<i>Maintenance</i> Maintenance / PM requirements
Eight (8) Godwin HL130M self prime pump	X	X	X			Will follow EPRI template requirements
Six (6) 480 VAC Generator				X	X	Will follow EPRI template requirements

BWR Portable Equipment Phase 2							
<i>List portable equipment</i>	<i>Use and (potential / flexibility) diverse uses</i>						<i>Maintenance</i>
	Core	Containment	SFP	Instrumentation	Accessibility	Maintenance / PM requirements	

BWR Portable Equipment Phase 3							
<i>List portable equipment</i>	<i>Use and (potential / flexibility) diverse uses</i>						<i>Notes</i>
	Core	Containment	SFP	Instrumentation	Accessibility		
High pressure injection pump	X						
Three (3) 4160 VAC Generator				X	X		

> 24 Hour Response	
Item	Notes
<p>Radiation Protection Equipment</p> <ul style="list-style-type: none"> • Survey instruments • Dosimetry • Off-site monitoring/sampling 	
<p>Commodities</p> <ul style="list-style-type: none"> • Food • Potable water 	

Attachment 1A Sequence of Events Timeline

(insert site specific time line to support submittal)

Time	Action	Time Constraint Y/N ¹⁰	Remarks / Applicability
0	Event Starts	N	

¹⁰ Instructions: Provide justification if No or NA is selected in the remark column
If yes include technical basis discussion as requires by NEI 12-06 section 3.2.1.7

**Attachment 1B
NSSS Significant Reference Analysis Deviation Table**

Item	Parameter of interest	WCAP value (WCAP-17601-P August 2012 Revision 0)	WCAP page	Plant applied value	Gap and discussion

Attachment 2
Milestone Schedule

(Insert site specific milestone schedule.)

Attachment 3 Conceptual Sketches

(Conceptual sketches, as necessary to indicate equipment which is installed or equipment hookups necessary for the strategies.)