

## NRC Emergency Response Readiness Issues RI-15 and RI-16

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# AP1000 Readiness Issues

## Background:

NRC's AP1000 Integrated Transition Working Group identified two Readiness Issues related to NRC's Emergency Response Program:

**RI-15** relates to *response-related training* for NRC Operations Officers and emergency responders on the unique aspects of the AP1000 design, passive core and containment systems, and accident response characteristics.

**RI-16** originally related to Emergency Response Data System (ERDS) screens, but has been expanded to include all design and site-specific information needed to support *NRC incident response software*:

- Emergency Response Data System (ERDS)
- Incident Response Electronic Library (E-Library)
- Response Technical Tools for Core Damage Assessment (RTT)
- Radiological Assessment System for Consequence Analysis (RASCAL)

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## Related to RI-15:

NSIR and our Technical Training Center (TTC) staff are preparing a short, refresher-style training program, targeted at experienced responders, titled:

### ***AP1000 Emergency Response Topics:***

- *Review of AP1000 Design Features for Emergency Response*
- *AP1000 Instrumentation Used During Emergency Response*
- *AP1000 EOPs (Emergency Operating Procedures)*
- *AP1000 FRPs (Functional Recovery Procedures)*
- *AP1000 EALs (Emergency Action Levels)*
- *AP1000 SAMGs (Severe Accident Management Guidelines)*
- *Contents of the NRC's E-Library Related to Vogtle 3 and 4*
- *ERDS Parameters and Display Screens for Vogtle 3 and 4*

## What do we have?

Draft documents (we can update E-library and training modules as needed).

## What do we need?

We need to identify the key parameters that will be transmitted to NRC during a response. This will allow us to train NRC responders on what parameters to expect via ERDS and what parameters we will need to request via telephone.

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## Related to RI-16:

### ***Emergency Response Data System (ERDS):***

#### What do we have?

We have developed draft ERDS display screens for Vogtle 3 & 4 based on our review of Unit 3 and 4 Unified Safety Analysis Report Table 7.5-1, *Post Accident Monitoring System*, draft Emergency Action Levels (EALs), and other response-related documents.

#### What do we need?

We need to see the proposed list of ERDS parameters for Vogtle 3 & 4 in order to continue development of unit-specific ERDS display screens and to prepare NRC incident response training materials related to ERDS.

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## Related to RI-16:

### ***Incident Response Electronic Library (E-Library) (RIS 2006-21):***

E-Library provides NRC emergency responders with ready access to site photos, building arrangement drawings, systems diagrams, and response-related plans and procedures.

## What do we have?

We have compiled draft copies of most of the available (or proposed) documents.

## What do need?

Updated site photos, EOPs, EALs, FRPs, SAMGs, etc. as they become available.

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## Related to RI-16:

### ***Response Technical Tools for Core Damage Assessment (RTT):***

RTT provides an easy-to-use set of tools for assessing reactor core and containment conditions during an accident.

### What do we have?

We believe that we currently have all of the design and site specific information needed to add Vogtle Units 3 & 4 to our RTT data base.

### What do need?

If we find that we need a particular system volume or flow rate in order to complete the RTT data base, or if we need to validate a number, we'd request a point of contact (POC) to help us obtain or validate the needed information.

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## Related to RI-16:

### ***Radiological Assessment System for Consequence Analysis (RASCAL)***

#### What do we have?

We believe that we currently have all of the design and site-specific information needed to add Vogtle 3 & 4 to our RASCAL data base.

#### What do need?

If we find that we need a particular system volume or flow rate in order to complete or validate the RASCAL data base, we'd request a point of contact (POC) to help us obtain or validate the needed information.