

Starefos, Joelle

From: Starefos, Joelle
Sent: Tuesday, October 11, 2011 5:42 PM
To: 'Poslusny, Chester'; 'Pope, Steven M'
Cc: Moore, Ross
Subject: Electrical Design Questions to Support Staff Development of DSRS
Attachments: Electrical Design Questions on mPower.docx

Chet, Steve,

Attached please find a list of questions whose answers would be helpful to our staff and contractors developing the mPower DSRS [design-specific review standard] for Chapter 8. I would appreciate any help you can offer the staff in response to the questions. Written answers, if proprietary, may be provided with an affidavit. Alternatively, this can be part of the dialogue on electrical systems tentatively scheduled for December 13, 2011.

Thanks for your consideration of this request.
Regards, Joelle

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Questions on mPower for B&W

1. In the event of a Loss of Off-site Power (LOOP) or other anticipated operational occurrences, is onsite AC power planned to be used (in the short term before 72 hrs) to support operation of decay heat removal, RCIPS, or other risk-significant functions? If so, please describe.
2. A B&W presentation dated April 21, 2011, entitled "Design considerations for Fukushima-type Events," identifies Auxiliary Power Units (APUs) located inside reactor building to recharge battery system in the event of an Station Blackout.
 - a. Please provide a more detailed functional description of the APUs (type, number, function, the batteries they charge, etc.)
 - b. Are they in addition to the standby DGs?
3. What is the total number of standby / backup electrical power generators (e.g., EDGs) that are included in the design, and are any of them considered to be risk significant?
4. Are backup/standby power sources shared between modules/units? If so, please describe.
5. Are AC and DC electrical support system components for RTNSS or non-safety-related but risk-significant SSCs (e.g., DHR pump), also designated as RTNSS or non-safety-related but risk significant? Please describe.
6. The April 21, 2011 B&W presentation also identifies a "*Long duration 'station keeping' 7+ Day battery supply for plant monitoring/control.*" Please provide a more detailed functional description of this equipment