

generation

mPower

RTNSS B Long Term Cooling

April 30, 2013
(Redacted Version)

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This is a pre-application document and includes preliminary B&W mPower Reactor design or design supporting information and is subject to further internal review, revision, or verification.



Purpose/Objective

- Discuss regulatory guidance for long-term core cooling
- Describe B&W mPower™ emergency core cooling system (ECC) operation
- Discuss previously classified long-term cooling RTNSS “B” SSCs
- Preview in-progress design enhancements
- Obtain NRC comments/feedback



Long-Term Core Cooling Guidance

- At least first 72 hours after event
 - Onsite, safety-related, passive, automatically aligned
- 72 hours to 7 days
 - Onsite, nonsafety-related, RTNSS B
- > 7 days
 - Onsite or offsite sources may be utilized, nonsafety-related



Previous Long-Term Cooling RTNSS B SSCs

System	Component
[REDACTED]	



In-Progress Design Enhancements

- Ensure ECC design can provide core cooling[]
- RTNSS B classification []

[CCI per Affidavit 4(a)-(d)]



Summary

- Design a simple, safe, and reliable way for B&W mPower plant to provide post-72 hour core cooling utilizing safety-related SSCs
- []
- Additional details on long-term core cooling to follow with the design update in May

[CCI per Affidavit 4(a)-(d)]



Questions