Attachment 3

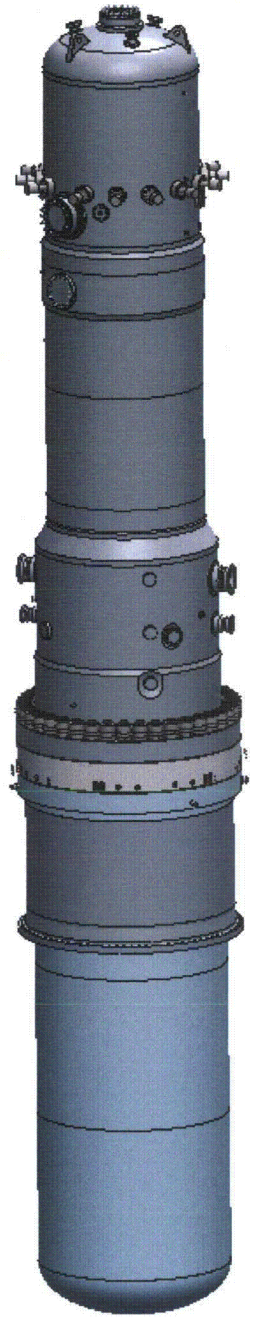
Reactor Overview Slides (Non-Proprietary)

generation

# mPower

## Reactor Overview

August, 2011



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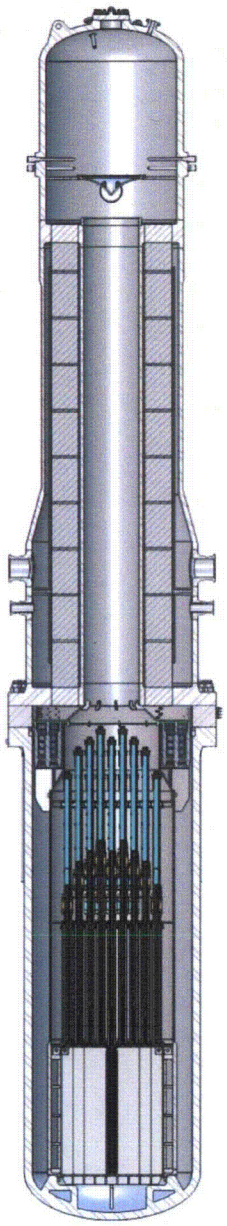
# B&W *mPower* Reactor

| Design Characteristics | |
|---|---|
| Reactor Type | PWR |
| Thermal Power | 500 MWt |
| Integral Vessel<br>*Pressurizer*<br>*Steam Generator*<br>*Reactor* | [ |
| Internal CRDMs | |
| Passively Safe | |
| Rail Shippable | ] [CCI per Affidavit 4(a)-(d)] |
| Fuel Assemblies | 17x17 fuel pin array |



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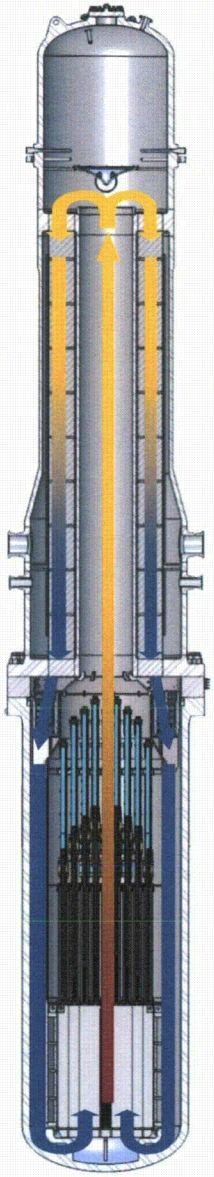
# Operating Conditions



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

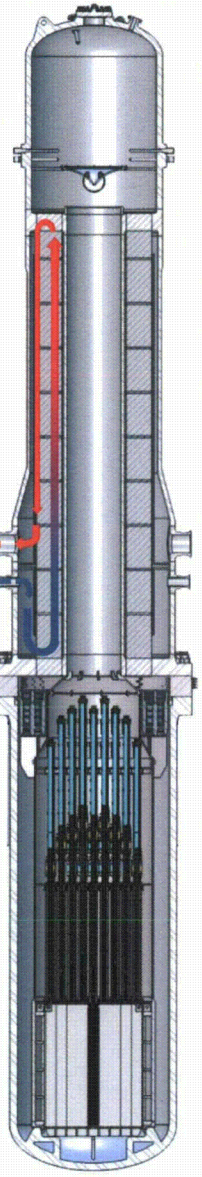
[ ]

Steam

Feedwater

[ ]

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



2050 psia (639F Tsat)
608°F Core outlet

**Primary Loop**

**Secondary Loop**

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# Pressure Boundary

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

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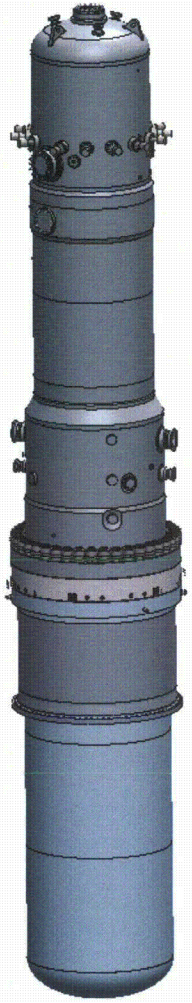
# B&W *mPower* Reactor [



*mPower* Reactor

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

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# Pressurizer

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

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# Steam Generator

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# Upper Internals Assembly

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

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# Lower Vessel & Core Support

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

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