

LTR-14-0140

Enclosure 6
Licensing Approach for Turbine Missile Considerations
(REDACTED)

generation

mPower

***Licensing Approach for Turbine
Missile Considerations***

(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.

*To demonstrate that the effects of turbine missiles
on essential SSCs is inconsequential to the
mPower design*

PRELIMINARY

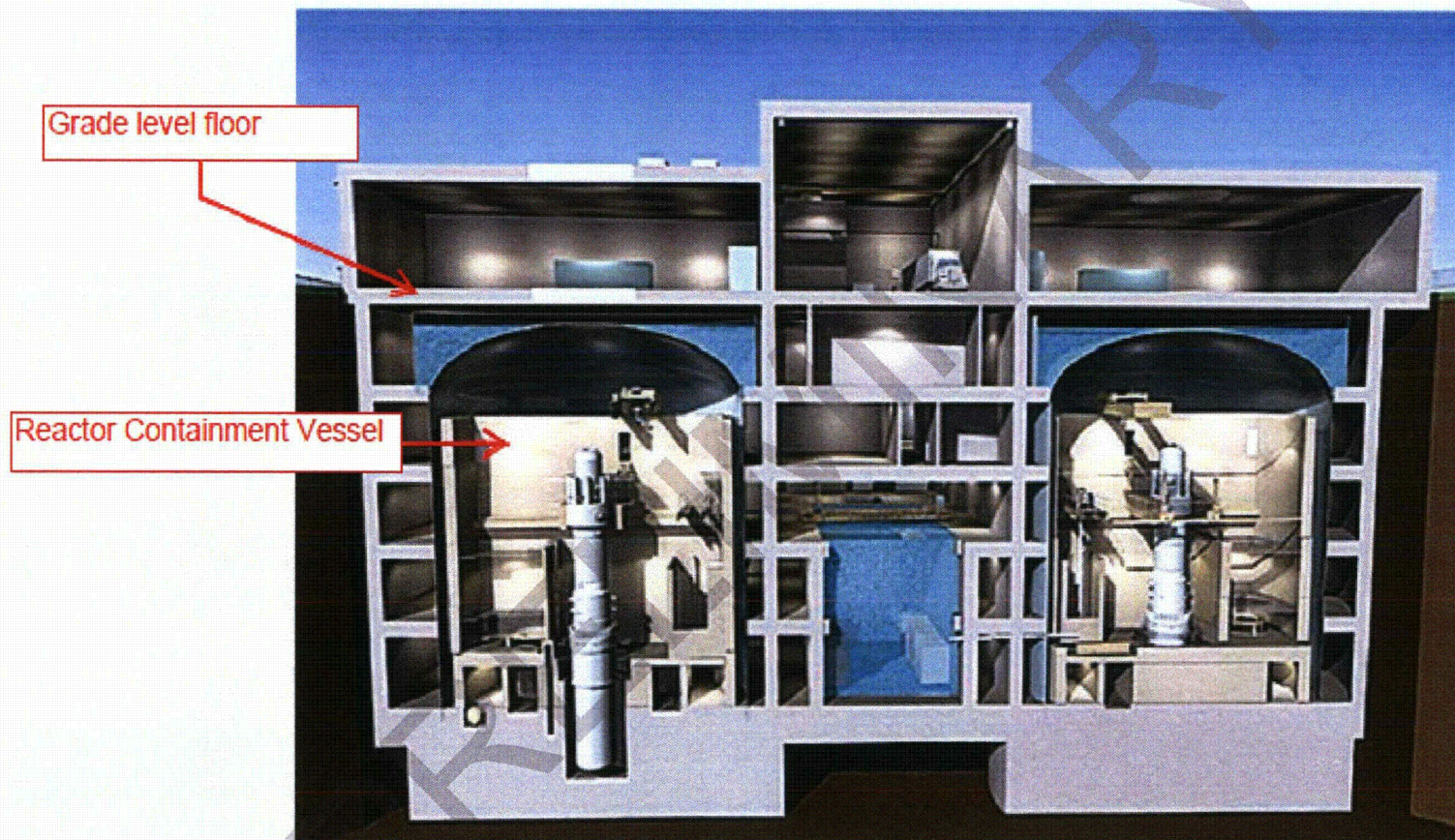
Physical Separation of TB-RSB

[

PRELIMINARY

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Section View of RSB



Reactor Service Building Cross-Section

- Loss of turbine rotor integrity has **[**
]
 - In the event of a turbine missile strike, essential SSCs required for safe shutdown are located **[**
]

mPower Turbine Considerations

Conformance to Regulatory Guide 1.115 "Protection Against Turbine Missiles"	
<u>Position</u>	<u>Conformance</u>
1	Conform – Plant layout for essential SSCs
2	Conform (Position 2.d) – The mPower standard plant design provides engineered barriers to protect essential SSCs
3	Conform – Barrier layout/design
4	Not Applicable – Engineered barriers are used, thus missile probability calculations are not required to demonstrate conformance to GDC 4
5	Not Applicable – A determination of the applicability of RG 1.115 strike zones is not required to demonstrate GDC 4 compliance, as missile barriers are used to protect essential SSCs