



Commission Briefing ***April 6, 2010***

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B&W Nuclear Energy

B&W mPower™: Program Objectives

Develop and deploy, by 2020, a GEN III++ SMR that:

- ✓ Offers incremental utility-scale generation
- ✓ Improves construction process
- ✓ Enhances operational efficiency

Within the constraints of:

- Proven: Established NRC regulatory framework
- Simple: Integral NSSS, passively safe
- Benign: Underground, robust margins, air-cooled
- Practical: Standard fuel, containment, and O&M
- Affordable: \$4000kW-6000/kW, configuration driven

B&W mPower Consortium & IAC

A signed Consortium MOU with 4 utility partners

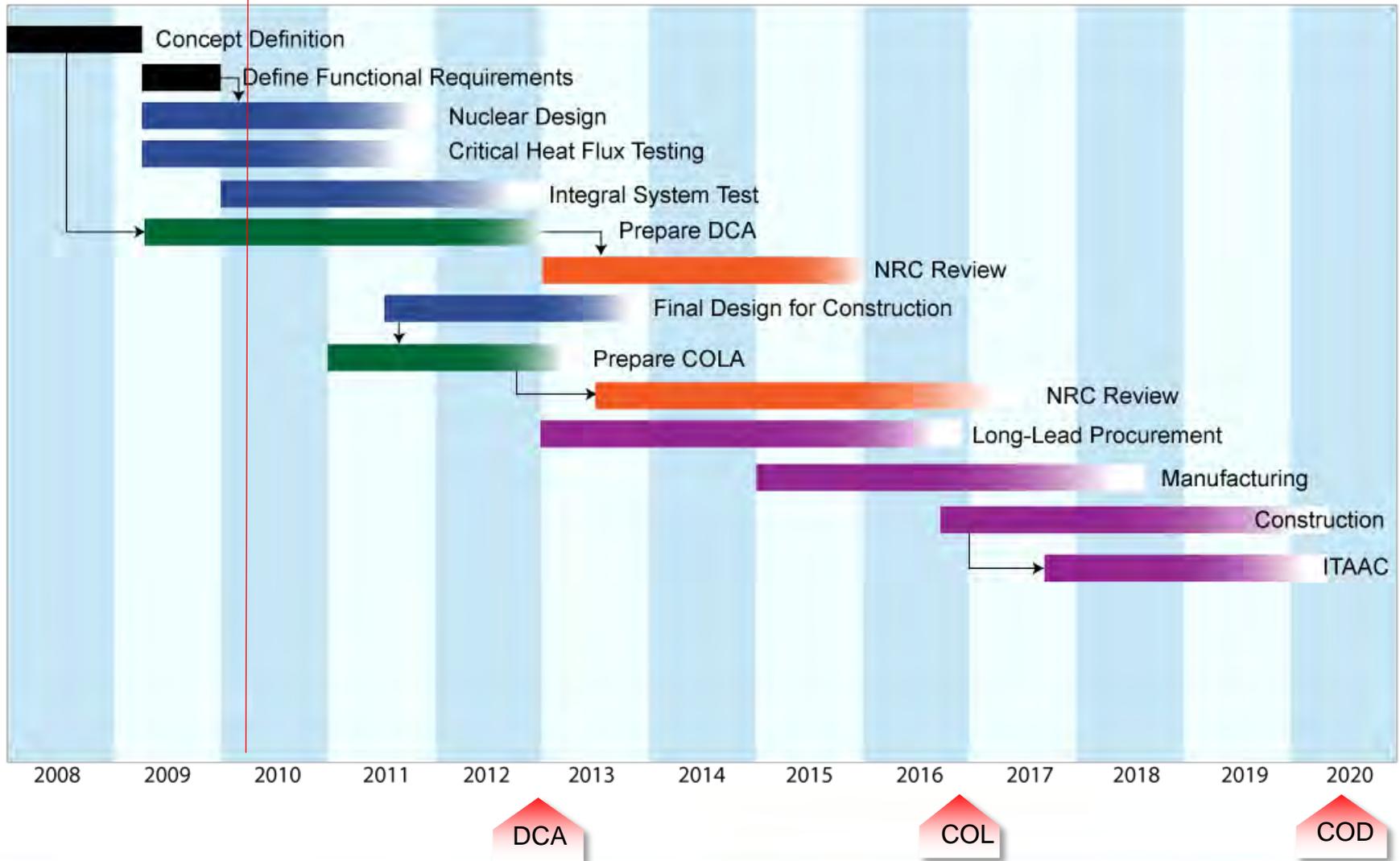
- ✓ Core utilities committed to B&W mPower solution
- ✓ Pursue key near-term development activities:
 - Regulatory Policy Issues
 - Site feasibility studies

An Industry Advisory Council for B&W mPower

- Customer input into design
- Eight domestic members
- Two international members
- Several others pursuing membership

Industry support demonstrated by Consortium and IAC

B&W *m*Power Lead Plant Schedule

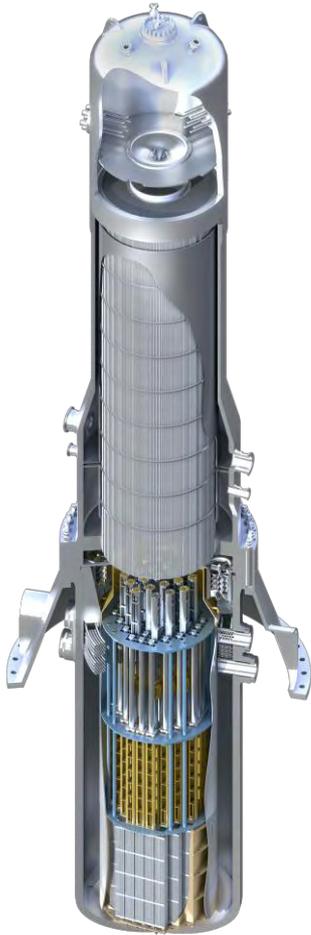


Planned Licensing Topical Reports

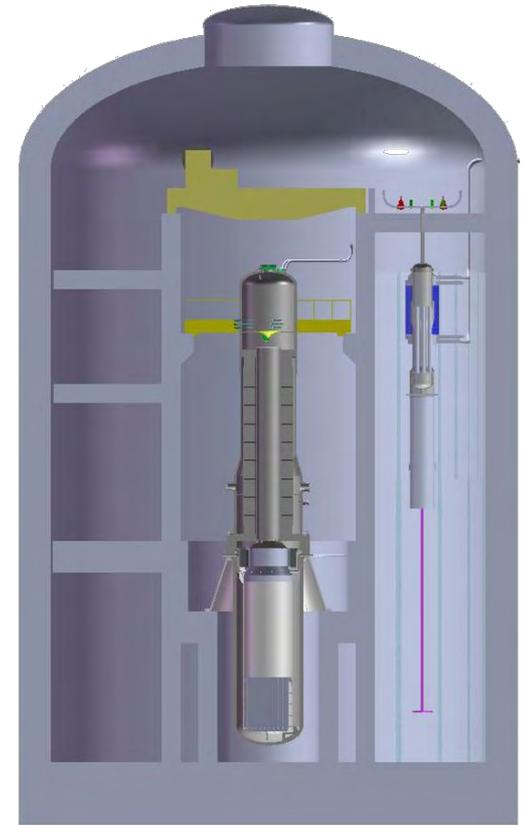
- ✓ QA Program Plan March 2010
- mPower Design Description April 2010
- Critical Heat Flux Testing Plan April 2010
- Integrated Systems Testing Plan June 2010
- Core/Fuel Design Criteria & Analysis Methodology July 2010
- Accident Analysis Codes & Methodology October 2010
- CRDM Design/Testing Plan October 2010
- Multi-module Control Room & Operations Staffing April 2011

120+ dedicated design, licensing, and manufacturing engineers

A Generation III++ Reactor



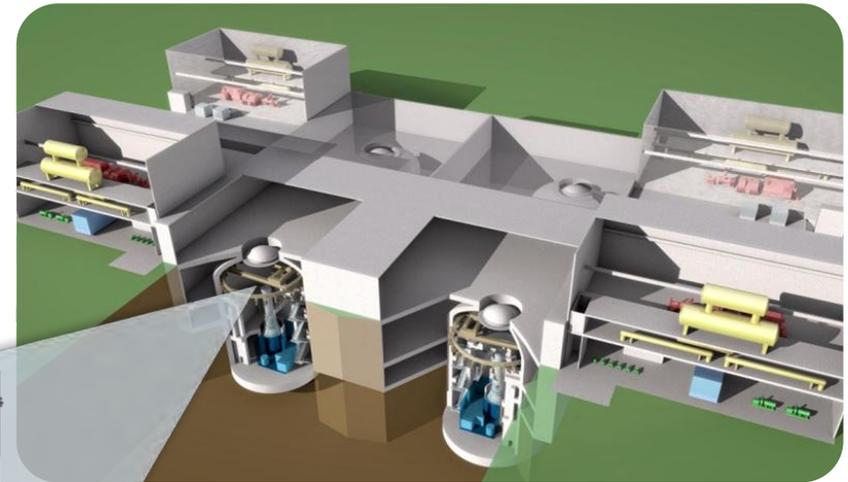
- Integral 125 MWe modular reactor
- Proven Advanced LWR technology
- Simple, fully “passive safety” design
- No emergency AC power
- “Industry standard” PWR fuel
- 60-year spent fuel storage
- 4-5 year fuel cycle
- Dry containment



Best-in-Class Gen III+ technologies ... breaks the scale-cost paradigm

Scalable Nuclear Plant

- 1-8+ modules per plant, 125-1,000+ MWe
- Scalable to grid, site, load-growth
- Fully independent Nuclear Islands
- Underground containment building
- Air- or water-cooled condenser
- Three-year construction schedule
- Reactor installed last



500 MWe "Four-Pack" Configuration



Flexible, affordable nuclear solution ... Project cost and schedule certainty