Are We There Yet?

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Commissioner
U. S. Nuclear Regulatory Commission

March 8, 2005

ARE WE
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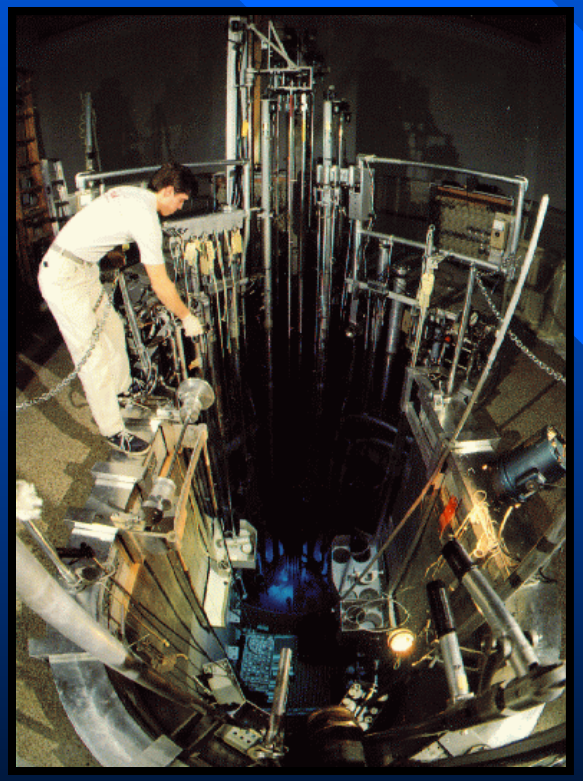
Harnessing the Atom



Research

Medicine

Energy

Industrial Uses

Troubles of the Past

SL-1 Reactor

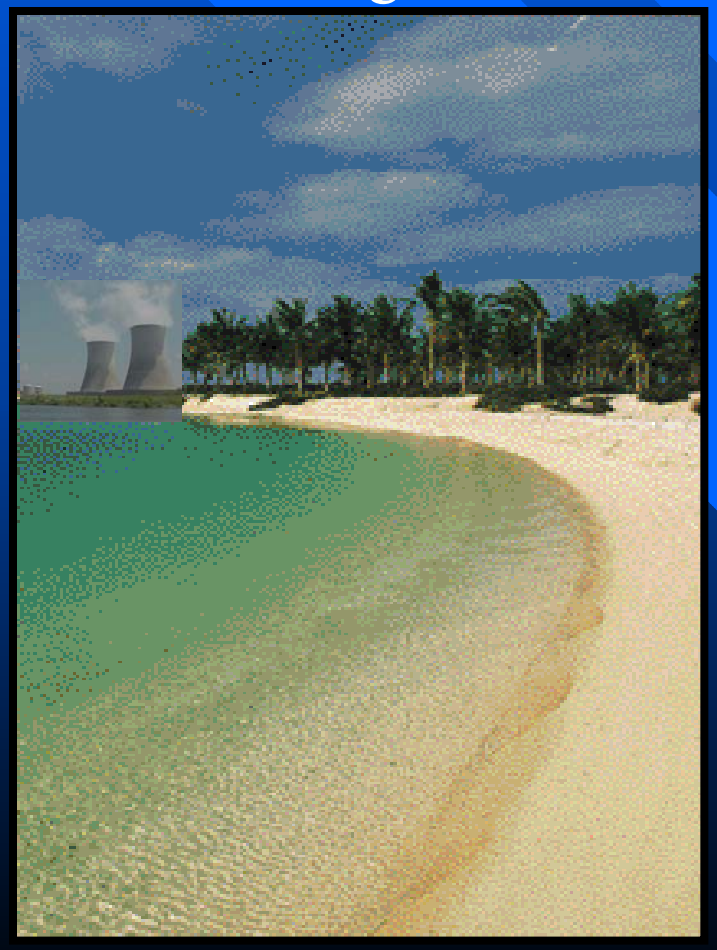
TMI

Chernobyl

Regulatory Authority

New Plants

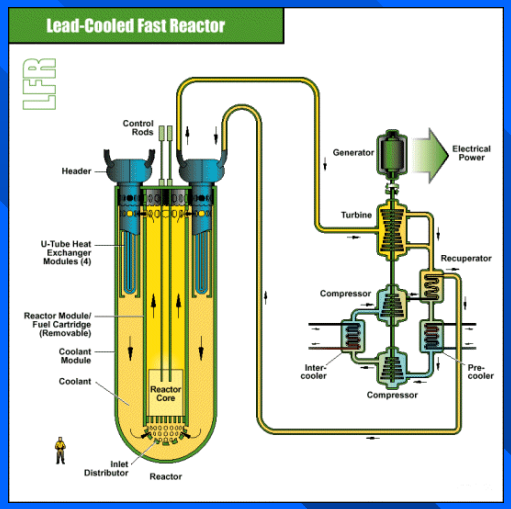
Mirage?

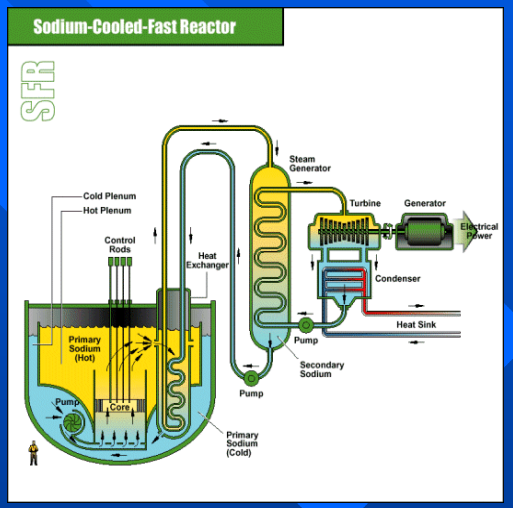


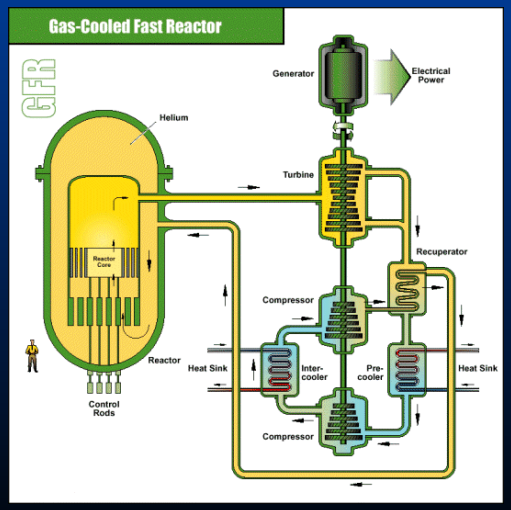
Objects in the mirror are closer than they appear

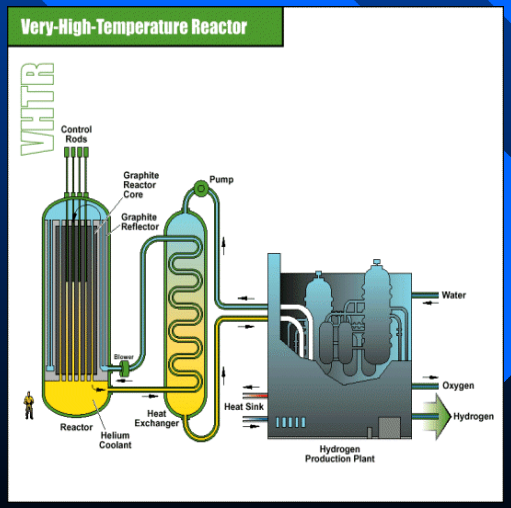
Reactors: The Next Generation?

Liquid Metal









Gas-Cooled

Concept Vs. Standard

Over-promising

"It is not too much to expect that our children will enjoy electrical energy in their homes too cheap to meter."

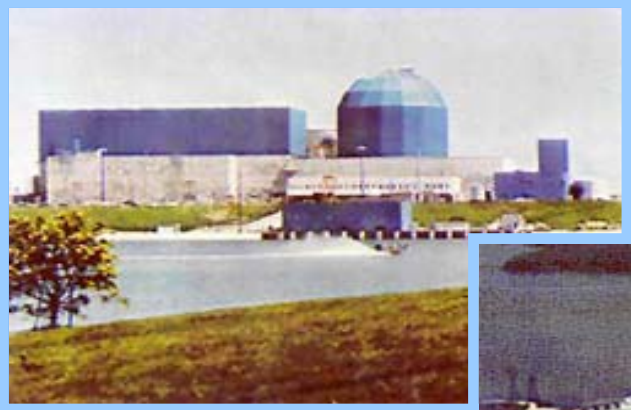
Lewis Strauss – AEC Chairman, 1954

The chances of a severe accident are *"extremely improbable."*

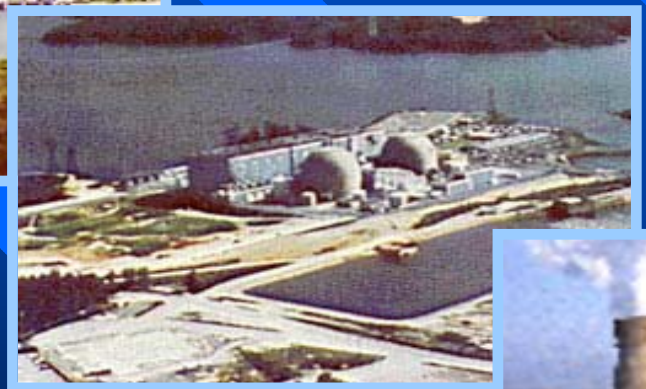
Chauncey G. Suits - GE Director of Research, testifying before Congress in 1955

Agency Resource Challenges

Early Site Permits



Clinton



North Anna

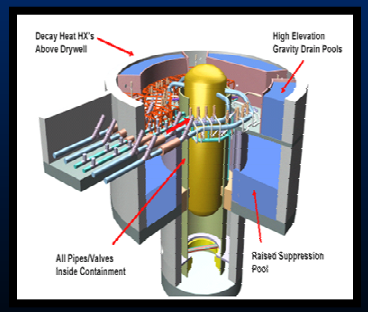
Design Certification

AP1000

Grand Gulf

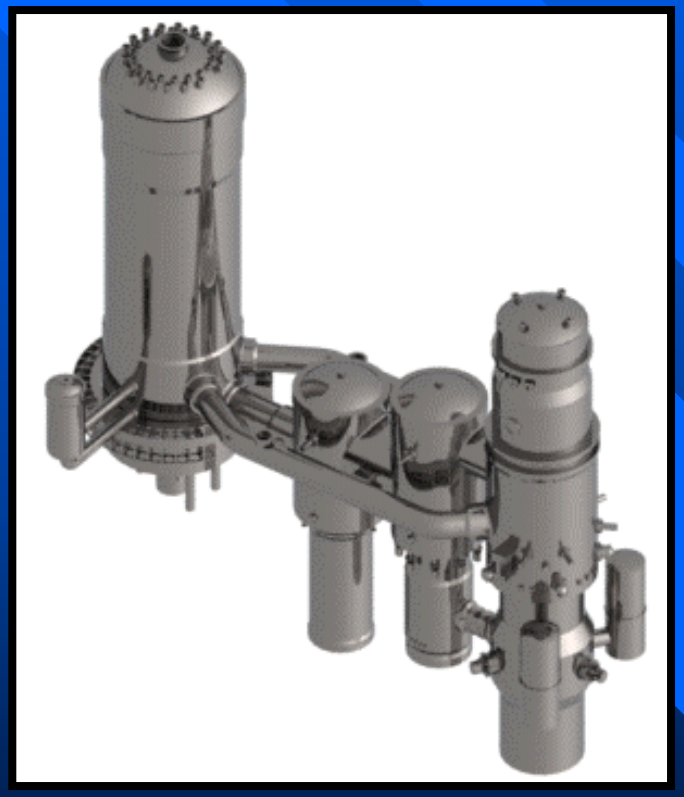
Pre-Application Reviews

EPR

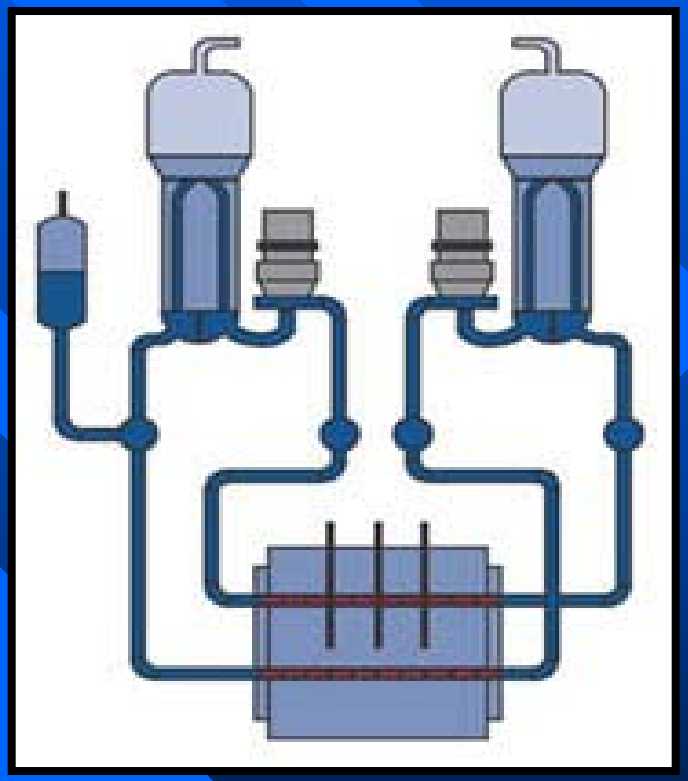


ESBWR

Resource Commitments?



PBMR



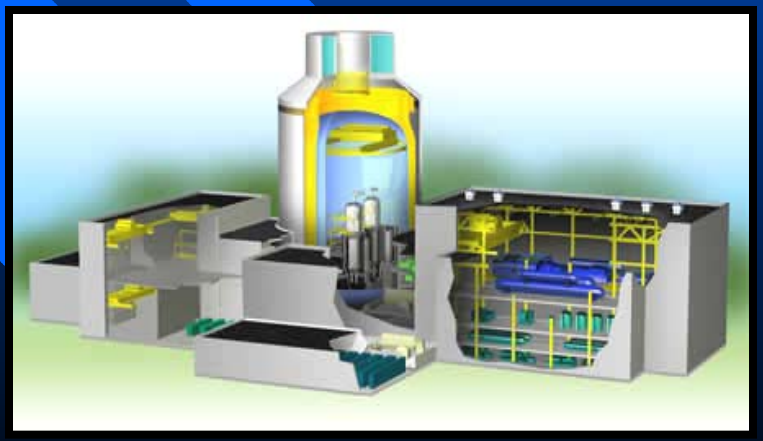
ACR-700

Advanced Designs

ABWR

AP600

System 80+



AP1000

Fitness-For-Duty

Drug/Alcohol Testing

Worker Fatigue

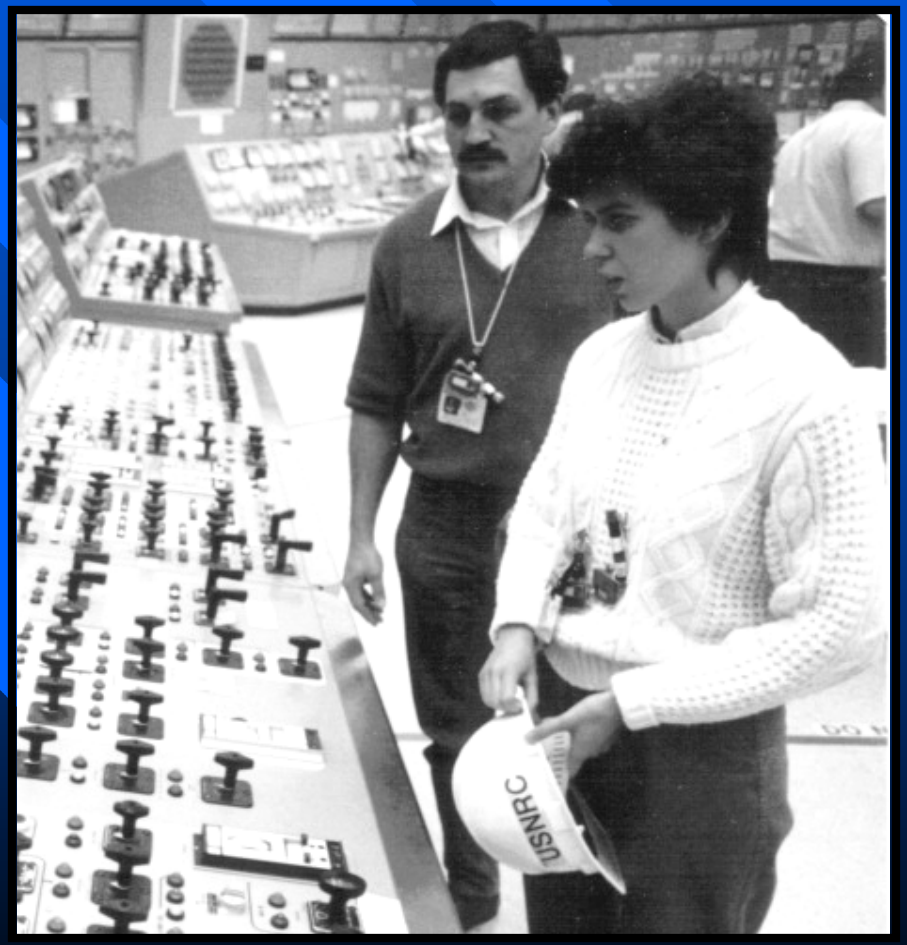
ITAAC

Inspections, Tests, Analyses and Acceptance Criteria

Roadmap for licensees and the staff to ensure requirements have been met

Used to address aspects of program implementation needed to make licensing decisions

Interaction with industry to narrow the scope



Security – Stability & Normalcy

- **Design Basis Threat Order**
  - April 2003 - issued
  - October 2004 –implementation
- **Force-on-Force Exercises**
  - Final Transition
  - Every 3 years
- **Normal & Stable security regime**

Are We There Yet?

Well…