

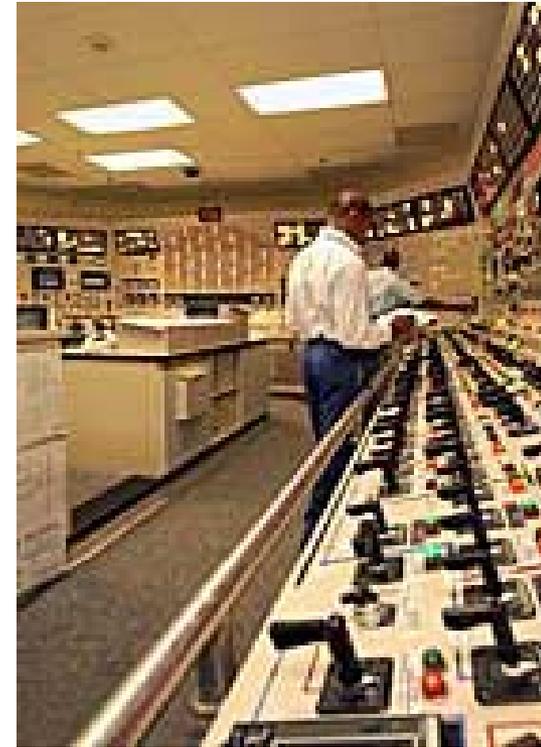
# **Operations Technical Working Group**

L. Waganer

6-7 September 2007  
ARIES Project Meeting at INL

# Demo Plant Operations

- **The purpose of the Demo facility would to demonstrate all key power plant objectives to a reasonable degree (perhaps up to 85% of power plant characteristics). This certainly addresses performance, RAM, and all normal operational aspects of the commercial version of the plant. It would produce electricity but this is not the primary objective. The primary objective is to minimize operational risk to the potential investor.**



# Purpose, Scope and Members of ARIES-TNS Operations TWG

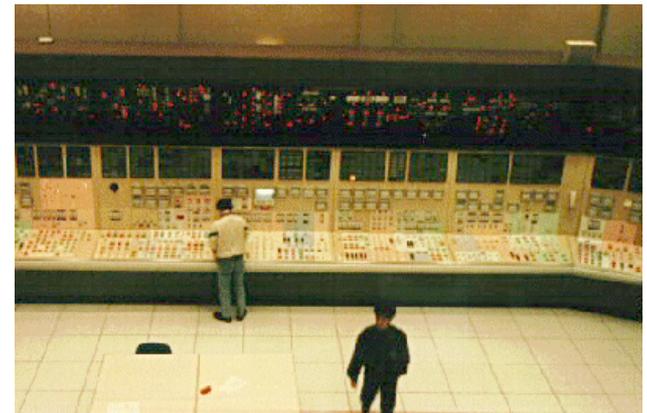
**Purpose:** Develop operational plans and recommended R&D to mitigate risk of plant operation

- Scope:**
- Develop operational requirements for Operations, RAMI, and test campaigns
  - Consider IHMS implications on operations
  - Identify R&D items that could reduce operational risk and enhance availability
  - Develop Operations R&D projects and plans
  - Consider both test operations as well as normal operations
  - Translate operational requirements into design requirements

## **Tentative Members:**

Les Waganer, Boeing, Lead  
Chuck Kessel, PPPL, Physics  
Alan Turnbull, GA, Physics  
Lee Cadwallander, INL, Reliability  
Said Abdel-Khalik, GIT, Regulatory Issues  
Rich Peipert-Jr, Boeing, Maintenance  
Tom Weaver, Boeing, I&C

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# TWG Plans

- **Firm up working group membership**
- **Review Purpose and Scope**
- **Define Schedule**
- **Decide on telecon frequency**
- **Determine, secure, and evaluate sources of information**
  - Utility Advisory Committee
  - ARIES-Starlite
  - Review experimental operational requirements, plans and R&D
  - Include DIII-D and ITER
- **Assign actions to be accomplished**
  - Evaluate degree of automation anticipated and staffing needs
  - Training and simulation needs
  - Regulatory licensing of operators
  - Maintenance (power core and BOP)
  - Process activities (fuel processing and hot cell)
  - Safety
  - Establish normal operations as well as major power core maintenance operations

