



# **Panel Discussion**

## ***Advanced Monitoring and Diagnostic Technologies in Nuclear Power Plants***

Held At

**International Conference on Opportunities and Challenges for Water Cooled Reactors in the 21<sup>st</sup> Century**

**International Atomic Energy Agency**

**IAEA**

**Vienna, Austria**

**Wednesday, October 28, 2009**

**2:00 PM- 3:30 PM**



# Topics/Questions for Panel Discussion

1. What role can wireless sensors and wireless technologies play in condition monitoring, diagnostics, and prognostics?
2. What do we need in terms of existing and/or new hardware and software for equipment and process condition monitoring?
3. Who uses on-line condition monitoring in their NPP, has an interest in this topic, or believes that this is an important technology for NPPs?
4. What role can advanced monitoring and diagnostic technologies play in life extension, power uprates, and security?
5. Are there any good in-situ technologies for testing the insulation of cables as installed in nuclear power plants?



# Topics/Questions for Panel Discussion

6. Should there be any special monitoring requirements for I&C systems when plant life is extended to 60 or 80 years?
7. How will digital I&C improve the prospects for on-line condition monitoring, diagnostics, and prognostics?
8. What plant I&C systems are the most troublesome from an I&C maintenance perspective?
9. What is the biggest stumbling block to implementation of advance monitoring and diagnostic technologies?
10. What I&C equipment are most vulnerable to aging degradation?