

Millennium Challenge: The Canadian Regulatory Strategy

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Atomic Energy Control Board



Object of the AECB:

• To regulate the development, production and use of nuclear energy to prevent unreasonable risk to the environment.



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AECB's Position wrt Y2K:

The Year 2000 and its impact dates shall not result in undue risk to health, safety, security and the environment, and shall not:

not result in any safety related transients
invalidate the requirements of the act and regulations
violate any license condition or assumptions made in the licensing basis



Why Y2K Merits Concern

- Common Mode Failure
- Probability = 1
- Potential to Impact All Plants
- High Profile



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Requirements of the Program

Development of a comprehensive review criteria that includes:

- Planning & Resources
- Inventory of Y2K Dependent Digital Assets
- Impact Assessment
- Remediation Actions
- Contingency Plans





First Milestone:

By October 1, 1998, that all special safety systems have been examined, corrected, tested and declared as Year 2000 ready.





Second Milestone:

By December 31, 1998, all reviews and corrective actions are in place for systems which could challenge the special safety systems.





Third Milestone:

By June 30, 1999, all reviews and corrective actions are in place for all other safety related and peripheral systems.





Demonstration Process

Selection of Representative Systems and Components
Detailed Demonstrations and Guided Inspections





Documentation

- Program Plan
- List of Digital Assets
- Assessment Results
- Certification





Difficulties

Definitions and Terminology
Quantity of Data



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Effort Remaining

Contingency Planning for External Risks
Review Suppliers Y2k Compliance Process
Communicate with Industries Outside of Nuclear





Conclusions

After completion of the first two milestones, few components found not compliant:
Maintenance/calibration tool.
Two digit year counter in programmable

controller.



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