IRRS Mission in Canada June 2009



IRRS Workshop Sevilla, Spain November 3-4, 2008



IRRS Mission



- **Timing**
- Scope
- Self Assessment
- Corrective Action Plan
- Complementary Self Assessment
- Current Status Harmonized Plan
- Summary



IRRS at the CNSC



- 2005 Request for IRRS on NPPs
- May 2006 Self-Assessment conducted using IAEA guidelines
- June 2006 Corrective Action Plan (CAP) approved.
- May 2008 Complementary Self Assessment Report (CSAR) completed – CAP updated
- October 2008 Preparatory Meeting
- March 2009 Update on corrective actions
- June 2009 IRRS Mission



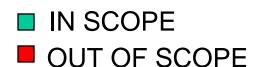
Mission Scope



- Facilities and Activities
 - Nuclear Power Plants
 - Research Reactors
 - Processing Facilities
 - Fuel Cycle Facilities
 - Uranium mines, mills, refining, conversion and fuel fabrication
 - Nuclear Substances and Radiation Devices
 - Waste Management, Transportation and Radiation Protection



The IRRS Mission in Canada



Module I: General Requirements

Module I.1

Legislative & **Governmental** Responsibilities

Module I.2

Responsibilities & Functions of the Regulatory Body

Module I.3

Organization of the Regulatory Body

Module I.4

Interfaces with other bodies

Module II: Regulatory Activities

II.1 Authorization c. WS b. RS d. TS a. NS

II.2 Dev. of Reg. & Guides b. RS a. NS

c. WS d. TS **II.3 Review & Assessment**

II.4 Insp. & Enforcement

a. NS b. RS c. WS d. TS a. NS b. RS c. WS d. TS

II.5 Emergency Preparedness

II.6 Security

NS: Nuclear Safety; RS: Radiation Safety; WS: Waste Safety; TS: Transport Safety

Module III: Management System

III.1 Management Framework

III.2 Corporate Policies

III.3 Operational Policies

III.4 Process Management

III.5 Performance Management

III.6 Continuous Improvement

Mission Dates



June 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	1	2	3	Site Visits 4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

NOTE: Due to logistics challenges, site visit arrangements including schedule and locations to be finalized prior to mission.



Site Visits



- Nuclear Power Plants Bruce Nuclear Generating **Station**
- Waste Management Bruce Waste Management **Facility**
- Research Reactors and Isotope Production Chalk **River Laboratories**
- Fuel Cycle Facilities Cameco Port Hope Conversion Facility and GE Fuel Fabrication Facility
- Uranium Mines and Mills Cameco McArthur River Mine and Key Lake Mill
- Nuclear Substances and Radiation Devices Ottawa Region

Self Assessment



- Self Assessment Review Team (SART) Report
 - Scope
 - Suggestions and Recommendations



SART - Scope



- Module I General Requirements
- Module II Regulatory Activities Power Reactor Service Line (PRSL)
- Module III Management System

Findings and Recommendations/Suggestions



- Compliant with many IAEA requirements
- 2 good practices and 18 recommendations and suggestions
- Good performance when dealing with government responsibilities
- Good practice in nuclear substance and radiation devices risk informed regulation
- Power reactor activities are satisfactory but inconsistent due to lack of policy, processes and procedures
- Ineffective change management and lack of MS hampering improvement initiatives



Corrective Action Plan - Approach



- Review projects and prioritize based on CNSCwide priorities, risks and benefits.
- Broaden scope of projects as appropriate to integrate and capitalize across branches and directorates
- Apply "Big Picture" approach that fits into Quality Management.
- Resource projects and appoint project leaders.

Corrective Action Plan (CAP)

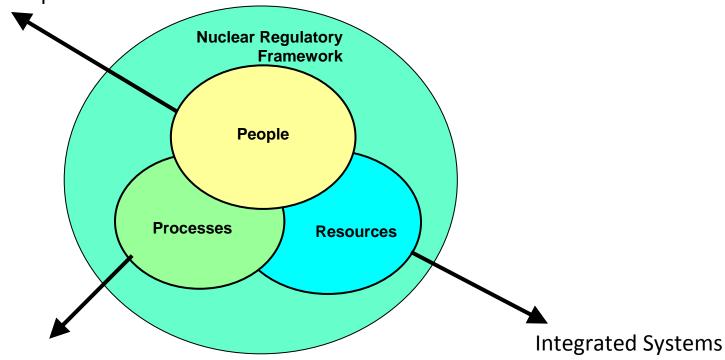


- Improvement Projects
 - Management System (continue implementation)
 - Integrated Planning and Performance Management
 - Compliance
 - Licensing
 - Leadership Development
 - **Integrated Systems Project**
- All projects form an integral part of the Management System
- Grouped under the Integrated Improvement Initiatives Programme (I3P)



Integrated Improvement Initiatives Programme (I3P)

Leadership Development



Licensing

Compliance

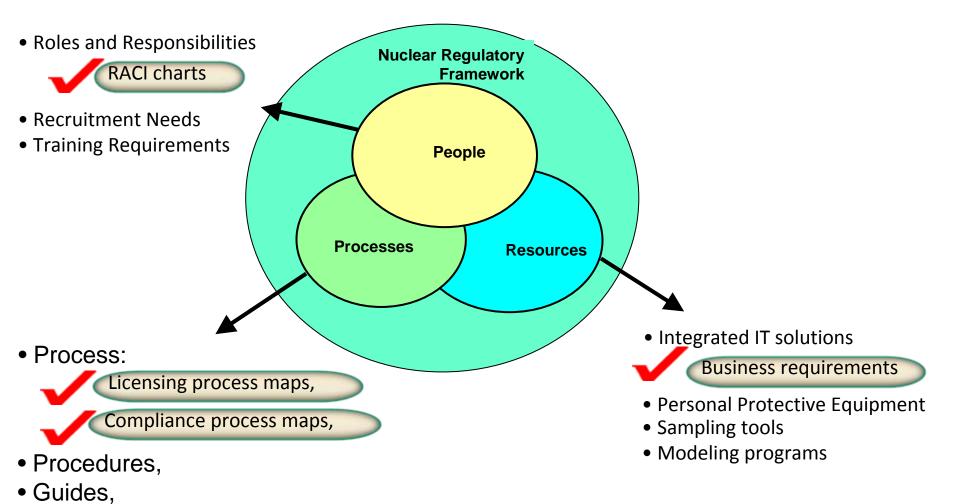
Planning

Performance Management





I3P Licensing and Compliance Projects





• Criteria,



Complementary Self Assessment (CSAR)



- Recognizes that recommendations from SART are applicable to other service lines but to varying degrees
- Recommends further integration and harmonization of improvement initiatives to focus resources and efforts in key areas
- Leads to formation of the Directorate of Regulatory Improvements and Major Projects Management and the initiation of the Harmonized Plan for **Improvements**

Current Status - Harmonized Plan



- Considers the results of all recent audits and assessments including SART and CSAR
- Brings together all improvement initiatives under one plan
- Prioritized to optimize use of resources to deliver further improvements in key areas

Harmonized Plan (Some Examples)

Licensing:

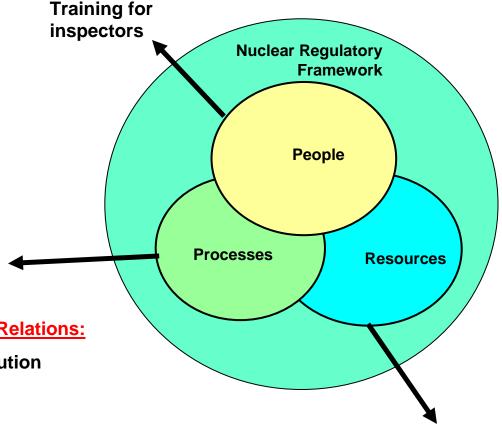
- Application guides
- Technical Assessments review guides
- Licence preparation, review and approval - licence formats

Compliance:

- Inspections
- Graduated Enforcement
- Action tracking

Communications and Stakeholder Relations:

Communication & Problem Resolution



Information Technology

Action Tracking Tool



Summary



- Self Assessment and Complementary Self **Assessment Completed**
- CAP developed and being implemented
- Harmonized Plan complete integration of all improvement initiatives
- IRRS Mission on track for June 2009