# **Canadian Nuclear Safety Commission**

For the period ending March 31, 2005

# **Departmental Performance Report**

R. John Efford Minister of Natural Resources Canada

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## **Canadian Nuclear Safety Commission**



#### Protecting Canadians' Health

Increased demand and the development of new technologies in the fields of nuclear medicine and radiation therapy require constant vigilance on the part of the Canadian Nuclear Safety Commission (CNSC).

Protecting Canadians' Safety

The CNSC's regulatory regime requires that licensees design, construct and operate their facilities safely at all times.



Protecting Canadians' Security

To protect Canadians, the CNSC has initiated major new security initiatives that apply to nuclear facilities and substances.

## Protecting the Canadian Environment

Protecting the environment is of major importance in the work of the CNSC, through its environmental responsibilities under the *Nuclear Safety and Control Act* and other relevant legislation.



## **SECTION I – OVERVIEW**

## Message from the President and Chief Executive Officer



I am pleased to present the 2004-2005 Performance Report of the Canadian Nuclear Safety Commission (CNSC).

This report covers my fourth year as President and Chief Executive Officer of the CNSC. It outlines the important steps that the CNSC, as Canada's nuclear regulator, has taken over the past year to deliver on its mission to protect health, safety, security and the environment and to respect Canada's international commitments on the peaceful use of nuclear energy.

On behalf of Canadians, the CNSC continues to exercise effective regulatory control over the use of nuclear energy and materials. In addition to our vital work in licensing and in compliance inspection, we are continuing to improve our robust regulatory framework. In addition, we have launched the Power

Reactor Regulation Improvement Program, which is intended to ensure that the power reactor regulation program delivers more effective regulatory oversight. The CNSC has made substantial progress on the documentation of an updated licensing basis for the design of power reactors. This draft CNSC standard will be used to assess the licensability of any new reactors in Canada. The CNSC is committed to the implementation of quality management practices. We have already introduced an integrated management system to define and apply a common set of management practices and principles, align current and future improvements, and link key activity areas to outcomes.

The Commission Tribunal operates separately from CNSC staff, setting regulatory policy directions on matters relating to health, safety, security and environmental issues affecting the Canadian nuclear industry. It establishes legally-binding regulations and makes independent decisions on the licensing of nuclear-related activities in Canada. During the reporting year, the Commission held more than fifteen public hearings involving significant nuclear facility licensing decisions and during which the Commission heard from intervenors, in some cases, in large numbers. Decisions were rendered on these applications based on the need to protect the health, safety, and security of Canadians and the environment.

The CNSC has also been active in efforts to ensure Canadian application of international standards and practices for the safe and peaceful use of nuclear energy. International highlights of the past year include: adopting an internationally harmonized regulatory regime for radioactive sources thereby enhancing regulatory oversight on the tracking and movement of radioactive sources within Canada and internationally; initiating an

international peer review of Canada's power reactor regulatory program; strengthening international guidelines governing the safe operation of research reactors worldwide; strengthening radiation protection requirements for carriers; and reviewing the International Atomic Energy Agency's (IAEA) safeguards system to assess its efficiency and effectiveness.

The CNSC also launched a values and ethics program in March 2005, under the theme "Helping good people do the right thing". This is a key component of a sound governance structure. A clearly articulated values and ethics strategy will provide CNSC staff with practical tools to guide them in making ethical decisions in the course of their work, and will also strengthen the CNSC's relationships with licensees and stakeholders. The CNSC's Audit and Ethics Group continues to be responsible for performing a rigorous internal audit role and, new in 2005, for receiving and investigating disclosures of wrongdoing consistent with the draft *Public Servants Disclosure Protection Act* (Bill C-11).

As you will see in the following pages, the CNSC has made important strides in every area of its mandate. Although many challenges lie ahead, our accomplishments so far provide a solid foundation on which to build.

As we move forward, our commitment to the people of Canada will remain unwavering – to protect health, safety, security and the environment and to respect Canada's international commitments on the peaceful use of nuclear energy. Whatever new growth or demands we face, we will not lose sight of this mission.

Sincerely,

Linda J. Keen, M.Sc.

## **Management Representation Statement**

I submit for tabling in Parliament, the 2004-05 Departmental Performance Report (DPR) for the Canadian Nuclear Safety Commission.

This document has been prepared based on the reporting principles contained in the Treasury Board of Canada Secretariat's *Guide for the preparation of 2004-05 Departmental Performance Reports:* 

- It adheres to the specific reporting requirements;
- It uses an approved Program Activity Architecture;
- It presents consistent, comprehensive, balanced and accurate information;
- It provides a basis of accountability for the results pursued or achieved with the resources and authorities entrusted to it; and
- It reports finances based on approved numbers from the Estimates and the Public Accounts of Canada.

Linda J. Keen, M.Sc. President and Chief Executive Officer

August 19, 2005

## **Summary Information**

#### Mission and Vision

It is the Canadian Nuclear Safety Commission's (CNSC) mission to regulate the use of nuclear energy and materials to protect health, safety, security, and the environment and to respect Canada's international commitments on the peaceful use of nuclear energy. In pursuing its mission, the CNSC<sup>1</sup> is working toward its vision of becoming one of the best nuclear regulators in the world.

To realize its vision, the CNSC is committed to:

- An effective of its regulatory regime;
- A high level of transparency;
- Attraction and retention of excellent staff; and
- An efficient regulatory regime.

To assess the achievement of this vision, the CNSC participates in domestic and international regulatory fora, benchmarks its activities against other domestic and international regulators by sharing and adopting best practices in a global context and meets the principles of Smart Regulation. The CNSC is responsible to the public, through Parliament, for assuring that these responsibilities are properly discharged.

#### Regulatory Policy and Program Delivery

The CNSC's Regulatory Fundamentals Policy (P-299), which was adopted in January 2005 by the Commission, is consistent with the principles of good governance and the Government of Canada's Smart Regulation initiative. It states that persons and organizations subject to the *Nuclear Safety and Control Act* (NSCA) and regulations are directly responsible for managing regulated activities in a manner that protects health, safety, security, and the environment, while respecting Canada's international obligations.

The CNSC regulates the use of nuclear energy and nuclear materials in Canada. Its regulations apply to the following areas:

- Nuclear power reactors
- Non-power reactors
- Nuclear substances and radiation devices used in areas such as health care and research
- Nuclear fuel cycle from uranium mining through to waste management

<sup>&</sup>lt;sup>1</sup> Note: The Canadian Nuclear Safety Commission is referred to as the "CNSC" when referring to the organization and its staff in general, and as the "Commission" when referring to the tribunal component.

• Imports and exports of controlled nuclear materials, dual-use materials, equipment and technology

The CNSC is a departmental corporation under Schedule II of the *Financial Administration Act* and a separate employer under the authority of the *Public Service Staff Relations Act*. The CNSC is an independent federal regulatory agency and a quasijudicial administrative tribunal. To serve Canadians, the ultimate outcome of the CNSC is safe and secure nuclear installations and processes solely for peaceful purposes; and public confidence in the nuclear regulatory regime's effectiveness. Consistent with the Government Canada's Smart Regulation principles, the CNSC engages in extensive consultation and communication to ensure that information is clearly understood and accepted by stakeholders, including licensees.

The CNSC is an independent agency of the Canadian Government. The person responsible for the CNSC is the President and CEO. Reports are submitted to the Minister as part of the CNSC's accountability to Parliament, because only Ministers have standing to table reports in Parliament. CNSC is able to maintain an arm's length relationship with government when making legally-binding regulatory decisions.

The CNSC is not an advocate of nuclear science or technology. Rather, its mandate and responsibility is to regulate users of nuclear energy or materials to ensure their operations will not pose unreasonable risks to Canadians. Canadians are the sole clients of the CNSC.

The CNSC's operations are funded through an annual appropriation from Parliament. The CNSC's workload and therefore its resource requirements are largely driven by the level of demand for licensing and oversight and by the nature of Canada's international commitments. Most costs incurred for the CNSC's regulatory activities are recovered by the federal government from licensees under the *Canadian Nuclear Safety Commission Cost Recovery Fees Regulations* (2003).

The CNSC expects to recover approximately 70 percent of its total cost of operations from fee-paying licensees. Fees are collected by the CNSC and deposited to the Consolidated Revenue Fund. Fees are not a source of revenue for the CNSC or for its use without Parliamentary authority. External charging information for the CNSC's Cost Recovery Program is available on page 62.

Some licensees, such as hospitals and universities, are exempted by the Government of Canada from paying fees, which account for approximately 10 percent of total CNSC operational costs. In addition, these licensees' fees are not chargeable for activities that result from CNSC obligations that do not provide a direct benefit to identifiable licensees. This includes activities with respect to Canada's international obligations, including the non-proliferation of nuclear weapons, public responsibilities such as emergency preparedness and public information programs, and maintenance of the NSCA and associated regulations. This work amounts to approximately 20 percent of the CNSC's program costs.

The CNSC also administers the *Nuclear Liability Act* (NLA). It designates nuclear installations and sets the nuclear insurance requirements to be carried by the operators of such nuclear installations. The CNSC receives premiums paid by the operators for supplementary insurance coverage and credits these premiums to the Nuclear Liability Reinsurance Account in the Consolidated Revenue Fund. The NLA is currently undergoing review, which could change the role of the CNSC.

#### The CNSC and Results for Canadians

The CNSC is a key contributor to the Government of Canada's outcomes, which are the long-term and enduring benefits to Canadians that federal departments and agencies are working to achieve. The CNSC contributes directly to assuring the health of Canadians, to the protection of the environment and to the protection of Canadian society from potentially harmful effects of nuclear materials, substances and processes.

The CNSC also plays a significant role in bringing Canada's expertise and perspective to the international arena regarding the safety and security of nuclear materials and technology, in matters such as possession, use, transport and international transfer of high-risk radioactive sources, radiation protection, international safety approaches for research reactors and global safeguards concepts and approaches used by the International Atomic Energy Agency (IAEA). As a well-established, independent, world-class regulator covering the full nuclear cycle, the CNSC's expertise is sought regularly by countries throughout the world and by international agencies such as the IAEA. The CNSC is the Canadian lead on many international Conventions, and serves as the focal point to prepare, deliver and monitor Canadian compliance with these undertakings.

#### **CNSC Challenges and Risks**

In 2004-2005, it came clear that the CNSC's operating context was becoming increasingly complex. The Canadian nuclear industry has experienced significant growth in all segments of the nuclear cycle and in virtually all areas where nuclear substances are used for industrial, medical or other purposes. There is unprecedented demand across most nuclear sectors for regulatory decisions and oversight. At the same time, threats and challenges to the international nuclear non-proliferation regime are substantial. Some of the challenges the CNSC faced in 2004-2005 are outlined as follows:

#### 1. Power Reactors

Many of Canada's existing nuclear reactors are approaching the end of their designed operating lives, which has an impact on Canada's electricity supply. The most pressing decision facing the nuclear power industry is the refurbishment of many of Canada's fleet of 22 nuclear reactors. Operators have been considering the feasibility of refurbishment and the construction of new reactors. Both options require increased regulatory input. The CNSC needs to provide clear, consistent input to licensees on regulatory requirements for each of the options under consideration. At this time, CNSC staff are fully occupied with the licensing and compliance work associated with existing facilities and were unable to allocate resources to prepare for the impending increase in regulatory workload.

#### 2. Waste Management

Domestic and international pressure is being placed on Canadian industry and governments to handle nuclear waste more effectively and expeditiously. Waste management issues of significance in Canada include the storage of radioactive waste from power reactors, and the clean-up of legacy wastes from uranium mining and processing. Canadian industry and various levels of government are all moving forward with a number of initiatives to address nuclear waste management issues.

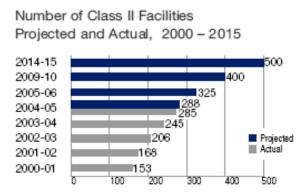
#### 3. Uranium Mines, Refineries and Processing Facilities

The world demand for uranium has increased substantially over the last five years. Responding to this demand, licensees have been accelerating production from existing mines and expanding exploration programs. This increased activity resulted in greater demand for regulatory oversight by the CNSC. CNSC staff needs to meet this licensing challenge, providing risk-informed regulatory oversight throughout the construction licensing process without diminishing ongoing compliance work on existing facilities.

At the same time, some mining facilities are reaching the end of their useful lives and the CNSC has been encouraging progressive remediation with ongoing regulatory oversight throughout the winding-down of the mining operation; an example is the first modern-day mine decommissioning at Cluff Lake, Saskatchewan.

#### 4. Nuclear Medicine

The demand for nuclear medicine has increased substantially in recent years, and this demand is expected to grow partially due in part to the recent federal-provincial health accord. The graph below indicates that licence applications for Class II nuclear facilities (principally, cancer treatment facilities) have grown from 153 in 2000 to 285 in 2004, which represents an 86% increase over four years. The number of these facilities is expected to increase to approximately 325 in 2005 and 500 units by 2015.



#### 5. Safeguards

The CNSC is responsible for implementing the safeguards agreements between Canada and the IAEA. In recent years, there has been a marked increase in verification effort by the IAEA in Canada as a result of increased international attention on the detection of undeclared nuclear material and activities in a State. In addition, new demands were placed upon the CNSC as the IAEA initiated the implementation of its policy decision to extend safeguards coverage to uranium conversion and refining facilities.

The CNSC's principal challenge in this area is to ensure that regulatory oversight of nuclear material and activities in Canada is effective so as to assure Canadians that all declared

nuclear material is adequately accounted for and that there is no undeclared nuclear material and activities. An effective national safeguards program will complement the IAEA's efforts to draw similar conclusions for the international community.

#### 6. Security

Physical security and emergency preparedness as important components of the overall safety of nuclear facilities have received increased attention since the events of September 11, 2001. The CNSC provides oversight of the physical protection and emergency preparedness programs of the licensed facilities based on a modern regulatory framework. Benchmarking of our program against other international and domestic agencies is requiring increased attention in same areas.

In addition, issues related to border security and import/export controls over the movement of nuclear material have increased the CNSC's regulatory oversight and level of responsibility in these areas, especially in the North American context.

#### 7. Governance and Accountability

There has been an unprecedented demand from central agencies and Parliament for increased accountability. In 2004, the CNSC undertook a self-assessment against the elements of the Treasury Board's Management Accountability Framework, a framework of management expectations for modern public service management. This assessment indicated that, consistent with the CNSC's 2002 Modern Comptrollership Capacity Assessment, governance, accountability and stewardship are strong at the CNSC. The CNSC has demonstrated that it is well-governed in performance reviews by a number of oversight agencies in areas from financial and auditing obligations, to official languages, to human resources, to privacy matters and access to information. The Auditor General, in a statement made in February 2005, said that "the CNSC has made significant progress in acting on the recommendations [the OAG] made in 2000 on the licensing and regulation of nuclear power reactors". She also added that "the CNSC stands out as an example of an organization that took [the OAG's] recommendations very seriously...".

## **CNSC 2004-2005 Performance Summary**

The CNSC has established a strategic framework for planning, monitoring and reporting (see page 52 – CNSC Logic Model). Plans for future years are articulated in our annual Report on Plans and Priorities (RPP) at <a href="www.nuclearsafety.gc.ca">www.nuclearsafety.gc.ca</a>. The plans for this reporting year were outlined in the 2004-2005 RPP.

The CNSC's strategic framework has the following five immediate outcomes:

- 1. A clear and pragmatic regulatory framework
- 2. Individuals and organizations that operate safely and conform to safeguards and non-proliferation requirements
- 3. High levels of compliance with the regulatory framework
- 4. CNSC cooperates and integrates its activities in national/international nuclear fora
- 5. Stakeholders' understanding of the regulatory program

Underlying the CNSC's strategic framework is its management and enabling infrastructure. This infrastructure consists of management, human resources, finance, information services and infrastructure programs that enable the CNSC to perform the activities required and meet the requirements of good governance with a high level of accountability.

For 2004-2005, the CNSC planned its expenditures for each immediate outcome. The 2004-2005 plan incorporated the CNSC's logic model for the first time. The following table shows a comparison of actual expenditures incurred against planned spending.

**Total Financial Resources (\$000's)** 

Main Estimates	Planned Spending	Total Authorities	Actual Spending
65,375	70,595	75,609	73,180

**Total Human Resources (Full Time Equivalents (FTE))** 

Main Estimates	Planned Spending	Total Authorities	Actual Spending
504.2	530.2	530.2	516.8

Outcomes 2004-2005	Planned Spending (\$000's)	Actual Spending (\$000's)	Planned Spending (FTE)	Actual Spending (FTE)
1. A clear and pragmatic regulatory	6.006	c 120	11.6	20.1
framework	6,986	6,130	44.6	38.1
2. Individuals and organizations that operate safely and conform to				
safeguards and non-proliferation requirements	16,366	13,318	133.3	99.4

3. High levels of compliance with				
the regulatory framework	28,462	34,004	230.8	252.1
4. CNSC cooperates and integrates				
its activities in national/international nuclear fora	14,635	15,360	91.3	96.1
5. Stakeholders' understanding of				
the regulatory program	4,146	4,368	30.2	31.0
TOTALS	70,595	73,180	530.2	516.8

The table below indicates the status of planned activities as set out in the CNSC's RPP 2004-2005. More details concerning these activities can be found on the relevant page of this report, where indicated, or by contacting the CNSC.

Sta	atus (as of March 31, 200,
11	C 1 . 1
V V	Completed
✓	Partially completed
I	Initiated
D	Delayed
$\rightarrow$	Ongoing core activity

1. Immediate Outcome: A clear and pragmatic regulatory framework					
2004-2005 RPP committed Priorities:	2004-2005 RPP committed Plans:	Status	Page		
Modern Nuclear Safety and Control Act (NSCA), with powers to protect health and safety, security, the environment and to respect Canada's international commitments on the peaceful use of nuclear energy	Review on an ongoing, systematic and consultative basis, the NSCA, regulations under the Act and regulatory practices codified in regulatory documents	$\rightarrow$	20		
Efficient regulatory system into which licensees and other stakeholders have appropriate input	Review <i>Rules of Procedure</i> for the Commission tribunal	<b>√</b>	21		
An evergreen risk-informed approach to regulatory strategies, regulations and	Input into the Smart Regulation initiative of the Government of Canada	<b>√</b> √	21		
licensing requirements in line with Smart Regulation	Develop specific <i>Safeguards</i> Regulations based on the requirements of the Safeguards Agreement and Additional Protocol	I			
	Revise the following existing regulations:	_			
	Nuclear Security Regulations	✓	22		

	Class II Nuclear Facilities and Prescribed Equipment Regulations	✓	22
	Nuclear Substances and Radiation Devices Regulations	<b>✓</b>	22
	Nuclear Non-Proliferation Import and Export Control Regulations	I	1
Comprehensive, integrated and consistent set of regulatory documents (Policies, Standards and Guides) to clarify regulatory requirements and expectations	Develop regulatory policies, standards and guides in accordance with priorities identified in CNSC-approved Regulatory Documents Framework; start with a regulatory policy to promote consistency and clarity regarding the way in which the CNSC achieves its regulatory objectives	$\rightarrow$	22
	Influence and adopt international standards where applicable to the Canadian context	$\rightarrow$	35

2. Immediate Outcome: Individuals and organizations that operate safely and conform to safeguards and non-proliferation requirements				
2004-2005 RPP committed Priorities:	2004-2005 RPP committed Plans:	Status	Page	
Optimization of the licensing principles, framework and methodology for all licensing and certification activities	Use a consistent risk-informed methodology for licensing priorities and resource allocation across all licensing areas	<b>√</b>	24	
	Optimize licence periods for verification of performance and compliance	I	26	
	Formulate an approach for licensing of new or refurbished nuclear power plants and possible waste management solutions	<b>✓</b>	25	
	Formulate an approach for decisions on end-of-life of facilities	I		
	Integrate the licensing for nuclear facilities where a number of licences are now required for different processes at a single facility	I	26	
Clarification of licensing and certification processes	Clarify licensing expectations and application requirements through clear communication with licensees and improved documentation of processes	I	24	

Assurance that nuclear activities and facilities in Canada are conducted with adequate provision for protection of	Continue to conduct the CNSC's comprehensive and diligent system of licensing and certification	$\rightarrow$	26
health, safety, security and the environment and the fulfillment of commitments to the peaceful use of nuclear energy	Continue the special focus on security within updated government and international requirements	$\rightarrow$	26
Utilization of information technology to strategic advantage in licensing and certification consistent with the Government-on-Line initiative	Enhance and integrate a system for capturing licensee information including developing and implementing a secure electronic business-based licensing system	I	
	Implement a new, integrated system to account for nuclear materials subject to IAEA safeguards and bilateral agreements	<b>√</b> √	30
Improvement of the effectiveness of the role of the Commission Tribunal in licensing	Undertake an evaluation and implement improvements to the tribunal process	$\rightarrow$	31

3. Immediate Outcome: High levels of compliance with the regulatory framework			
2004-2005 RPP committed Priorities:	2004-2005 RPP committed Plans:	Status	Page
A fully integrated system for planning, conducting, reporting and measuring the effectiveness of compliance activities for	Develop integrated strategies emphasizing licensee safety culture and safety management	I	31
all licensees	Promote inter-licensee dialogue on compliance	$\rightarrow$	1
	Develop integrated inspection plans	$\rightarrow$	32
	Complete integration of the management of compliance activities into the results-based corporate planning and accountability processes and implement relevant performance measures	I	45
	Build an on-line system for CNSC staff to access current compliance information, inspection results and trends	I	
Risk-informed compliance strategies to guide all compliance activities	Implement a dynamic risk ranking process for all licensees that informs the selection of compliance strategies	I	30
Provision of regulatory assurance to Canadians of the continuing compliance	Continue to conduct a strong compliance program	$\rightarrow$	32
and safety performance of licensees	Continue to improve communication of compliance results to stakeholders	$\rightarrow$	29

2004-2005 RPP committed Priorities:	2004-2005 RPP committed Plans:	Status	Page
Effective cooperation with international, federal and provincial organizations, departments and agencies	Develop a framework for establishing and reviewing cooperative arrangements with federal and provincial organizations, departments and agencies, and foreign nuclear regulators on an evergreen basis	<b>√</b>	35
Effective, efficient and cooperative CNSC Emergency Preparedness framework and infrastructure	Maintain and continuously improve the CNSC's emergency response capacity and influence on other federal, provincial and municipal participants	✓	38
Effective and targeted participation in international organizations, conferences and workshops  Strong cooperative working relationships with strategic nuclear regulatory partners	Implement a framework, including tracking and reporting mechanisms, for determining and evaluating the CNSC's participation in international activities on nuclear-related matters	<b>√</b> √	35
Effectively and efficiently implement Canada's international commitments on the peaceful use of nuclear energy	Apply the requirements of multilateral conventions and arrangements on the physical protection of nuclear material, nuclear power reactor safety, spent fuel and radioactive waste management safety, and the safe transportation of radioactive material	$\rightarrow$	35
	Strengthen the multilateral guidelines and export control lists on nuclear supply to counter contemporary nuclear proliferation threats, in collaboration with other nuclear suppliers	<b>→</b>	36
	Exercise controls with bilateral partners on the peaceful use of nuclear goods and technology exported or imported under Canada's nuclear cooperation agreements	$\rightarrow$	35
	Cooperate with the IAEA on domestic safeguards challenges by improving the efficiency of international verification of nuclear material in Canada and addressing Canada's safeguards equipment requirements	<b>→</b>	36
Contribute to improving the effectiveness and efficiency of the IAEA safeguards regime	Provide technical support and other resources necessary to strengthen IAEA safeguards	$\rightarrow$	36

Optimization of safeguards	Cooperate with the IAEA in the	$\rightarrow$	34
implementation in Canada, taking	development and introduction of an		
account of all information and measures	integrated safeguards approach for		
made available to the IAEA	Canada		

5. Immediate Outcome: Stakeholders' understanding of the regulatory program			
2004-2005 RPP committed Priorities:	2004-2005 RPP committed Plans:	Status	Page
Increased knowledge of key stakeholder issues and concerns	Undertake stakeholder surveys to form a baseline of information on knowledge of the CNSC and level of satisfaction with the CNSC's performance as regulator	<b>√</b> √	41
Assurance that Canadians have knowledge of and confidence in the CNSC as regulator	Implement a well-structured and sustainable Outreach Program	→ <b>→</b>	41
Improvement in communication, consultation and sustained, predictable relationships with key stakeholders directly affected by the CNSC's regulatory regime	Review the CNSC Web site and revise the information to improve its interactivity, user-friendliness, etc. on an evergreen basis	$\rightarrow$	41
Awareness among stakeholders of the process to become an active intervenor in the licensing process (e.g., participation in Commission Hearings)	Implement better processes for diffusion of Commission proceedings including such tools as Web-casting and increased access to documentation	$\rightarrow$	

Management and Enabling Infrastructure			
2004-2005 RPP committed Priorities:	2004-2005 RPP committed Plans:	Status	Page
Results-based planning and management processes	Implement an integrated planning process that links strategies to results and to budgets – integrate into the performance contracts for all management	<b>√</b>	45
	Implement a systematic Performance Management and Reporting Process including key corporate measures of performance	<b>*</b>	45
	Integrate a corporate risk framework into the strategic planning process	I	
	Improve the timeliness and relevance of management information	$\rightarrow$	
Corporate processes to enhance effectiveness, efficiency and consistency in the CNSC's management	Clarify roles, responsibilities and accountabilities within key business processes	$\rightarrow$	45

		1	
	Implement an integrated information management improvement plan including developing required information technology tools	Ι	
	Maximize efficiency and consistency of CNSC accommodation policies and utilization	<b>√</b> √	
	Benchmark the corporate services against those of similar public sector organizations	<b>√√</b>	46
	Develop a business continuity planning program to ensure minimal or non-interruption to the availability of critical services and assets	I	46
Attraction and retention of excellent staff	Implement the workforce sustainability strategy	✓ →	45
	Implement health and safety improvement initiatives for staff (i.e., physical environment, health evaluations, protective equipment, training, etc.)	<b>√</b> √	
	Establish an employment equity plan	<b>√√</b>	
	Implement a modernized Values and Ethics program	<b>√</b> √	45
Leadership	Strengthen leadership and management capacities	$\rightarrow$	45

# SECTION II – ANALYSIS OF PERFORMANCE BY IMMEDIATE OUTCOME

# The Canadian Nuclear Safety Commission – Performance Against Plans

The following section outlines the results achieved during 2004-2005 in implementing the 2004-2005 to 2006-2007 strategic plan.

#### 1. A clear and pragmatic regulatory framework

#### **Total Financial Resources (\$000's)**

Main Estimates	Planned Spending	Total Authorities	Actual Spending
6,976	6,986	7,482	6,130

#### **Total Human Resources (FTE)**

Main Estimates	Planned Spending	Total Authorities	Actual Spending
45.2	44.6	44.6	38.1

The CNSC ensures its licensees are aware of and comply with all requirements respecting the protection of Canadians and the peaceful use of nuclear energy and materials.

The CNSC's regulatory framework is composed of:

- The Nuclear Safety and Control Act, regulations and regulatory documents
- The Safeguards Agreement and Additional Protocol between Canada and the International Atomic Energy Agency (IAEA)
- Canada's bilateral Nuclear Cooperation Agreements
- The Canadian Environmental Assessment Act
- The Nuclear Liability Act

The following highlights the key enhancements to the CNSC regulatory framework during the reporting year.

Ongoing review of the Nuclear Safety and Control Act and regulations

The *Nuclear Safety and Control Act* (NSCA), which gives the organization its specific regulatory authority, does not state a mandatory statutory review period. Nevertheless, the CNSC conducts an evergreen review of the NSCA and in 2004-2005, developed an ongoing list of possible amendments to the legislation should the Government of Canada decide to subject it to a review. No changes to the legislation are contemplated at this time.

The CNSC received recommendations for amendments to CNSC regulations from the Standing Joint Committee on the Scrutiny of Regulations (SJCSR). A list of amendments will be provided to the Department of Justice for inclusion in its miscellaneous amendment program for regulations.

#### Contribution to the Smart Regulation Initiative

Effectiveness and efficiency are principles that are central to the way the CNSC manages its business and regulates to protect health, safety, security and the environment, and to respect international obligations. The CNSC's key priorities include commitment to an evergreen, risk-informed approach to regulatory strategies, regulations and licensing requirements, in line with the Government of Canada's Smart Regulation initiative.

In 2004-2005, the CNSC contributed to the government-wide implementation of Smart Regulation by participating in interdepartmental meetings on the initiative, and monitoring the progress of the External Advisory Committee on Smart Regulation (EACSR). The CNSC assessed itself against the EACSR's recommendations on Smart Regulation, and determined that it already adheres to many of its practices and objectives. These include transparency (public hearings and published decisions), public consultation, coordination of regulatory efforts across jurisdictions, and integration of international best practices and norms where appropriate to the Canadian context.

As part of its Smart Regulation effort in 2004-2005, the Commission Tribunal modified its processes and exercised its authority to vary the *Rules of Procedure* on several occasions to ensure matters were dealt with as informally and expeditiously as circumstances and the considerations of fairness permitted. For example, the Commission shortened or extended document submission deadlines, adjourned proceedings to allow the introduction of additional information, allowed interventions via video or teleconference, improved the scheduling of hearings, and generally showed increased flexibility in responding to the needs of stakeholders.

The Commission Secretariat began an analysis of the CNSC *Rules of Procedure* and *Bylaws*, in 2003-2004 to benchmark the Commission's hearing and meeting processes against those of 12 other Canadian federal and provincial administrative tribunals on 11 areas of service delivery. The benchmarking showed that the Commission's existing rules and procedures compare favourably with those of other leading tribunals. An analysis of the CNSC *Rules of Procedure* and *By-laws* was completed in 2004-2005 and draft amendments will be proposed in 2005-2006 for legal review and consultation with key stakeholders.

The Commission has established a performance standard requiring that a comprehensive *Record of Proceedings, including Reasons for Decision* be published within six weeks of the close of the hearing 90% of the time. The Commission is demonstrating efficiency and responsiveness to stakeholder needs. In 2004-2005, the Commission achieved this performance standard (release of decision within six weeks) 93% of the time, excluding the records of proceedings (no decisions) for mid-term review hearings held in February 2005 where the average time was 12 weeks.

The Commission also revised its process for fulfilling its environmental assessment responsibilities under the *Canadian Environmental Assessment Act* (CEAA) to improve its efficiency, while preserving its effectiveness. Further revisions are being evaluated.

Regulatory amendments and improvements to the regulatory framework

#### • Published:

- Policy on Regulatory Fundamentals (P-299)
- o Policy on Managing Radioactive Wastes (P-290)
- o Standard for Making Changes to Dose-Related Information Filed with the National Dose Registry (S-260)
- O Guide for Keeping Radiation Exposures and Doses As Low as Reasonably Achievable (G-129, rev.1)
- Nuclear Security Regulations: revised proposed amendments to the regulatory requirements for nuclear security in response to extensive stakeholder input. The proposed changes will make the regulations more consistent with international recommendations and best practices, take into account current security threats, and address stakeholder input. The proposed changes are scheduled to be pre-published in the Canada Gazette in the spring of 2005.
- Class II Nuclear Facilities and Prescribed Equipment Regulations: amendments
  proposed to the Class II regulations to address deficiencies in the current regulations,
  to enhance safety and to reflect the latest international standards, consistent with the
  CNSC's risk-informed regulatory initiatives and the principles of Smart Regulation.
  Pre-consultation and publication in the Canada Gazette is scheduled for 2005.
- Nuclear Substances and Radiation Devices (NSRD) Regulations: amendments proposed to the NSRD regulations to introduce the latest international values for exemption quantities, surface contamination and clearance levels for regulating those who possess nuclear substances. Pre-consultation and publication in the Canada Gazette is scheduled for 2005.
- Thirty-nine consultative regulatory documents were issued with respect to various
  operational areas such as Type I and Type II inspection procedures, safety analysis
  for nuclear power plants, environmental protection policies, programs and procedures
  at Class I nuclear facilities and uranium mines and mills, and requirements for
  disposal of nuclear substances.

As part of its commitment to the safe and secure use of radioactive material, Canada has endorsed and continues to support the IAEA *Code of Conduct on the Safety and Security of Radioactive Sources*. This initiative will result in a comprehensive regulatory regime for the possession, use, transport and international transfer of high-risk radioactive sources.

In support of the international regulatory regime, the CNSC contributed its expertise and perspective towards the development of two additional IAEA documents, the *Code of Conduct on the Safety of Research Reactors* and *Safety Requirements for Research Reactors*. These documents will help strengthen the regulatory framework governing the safe operation of research reactors at home and abroad.

## A more effective and efficient regulatory regime



Environment Canada and the CNSC have determined that, under the Nuclear Safety and Control Act, CNSC will play a role to control or prevent the release of uranium, which has been deemed to be toxic in the environment, under the 1999 Canadian Environmental Protection Act. A 2003 Memorandum of Understanding (MoU) between the CNSC and **Environment Canada committed** these organizations to assist each other in certain activities to prevent duplication of effort.

In 2004, an annex to this MoU was signed concerning the process for risk management of uranium releases from uranium mines and mills. For example, under this agreement, the CNSC, with the support of Environment Canada, will require the implementation of more stringent preventative or control measures for the Rabbit Lake Uranium

Mine. The licensee will develop and implement measures to reduce the concentration of uranium effluents released from the facilities. Requirements for measures at other uranium mines and mills will be addressed based on the outcome of environmental assessments completed for each facility.

This initiative supports Smart Regulation by reducing duplication and simplifying the regulatory process for licensees, while meeting the requirements of the CNSC and Environment Canada.

The CNSC is committed to an evergreen, risk-informed approach to regulatory strategies, regulations and licensing requirements, in line with the Government of Canada's Smart Regulation initiative. Modernizing the regulatory framework helps bring clarity and consistency to it, helps ensure that both the CNSC and licensees adhere to the *Nuclear Safety and Control Act* and associated regulations, and promotes efficient delivery of services to Canadians.

# 2. Individuals and organizations that operate safely and conform to safeguards and non-proliferation requirements

#### **Total Financial Resources (\$000's)**

Main Estimates	Planned Spending	Total Authorities	Actual Spending
16,335	16,366	17,528	13,318

#### **Total Human Resources (FTE)**

Main Estimates	Planned Spending	Total Authorities	Actual Spending
134.0	133.3	133.3	99.4

The CNSC ensures that licences and certifications are issued to those individuals or organizations who demonstrate they can operate safely and conform to international requirements.

Individuals or organizations must demonstrate to the CNSC that they are qualified to undertake the activities for which they are seeking a licence before they may:

- 1. Site, construct, operate or decommission a nuclear facility
- 2. Produce, possess or use nuclear substances in excess of prescribed quantities; or
- 3. Possess or use prescribed information or equipment in Canada.

Licence proceedings during the reporting period are listed in the Canadian Nuclear Safety Commission Annual Report of the Commission Tribunal 2004-2005 at www.nuclearsafety.gc.ca.

Licensing with respect to licences, other than those for major facilities, has been delegated by the Commission to senior staff, referred to as Designated Officers, for review. Designated Officers license more than 98% of applications received by the Commission, through streamlined processes commensurate with the level of risk and more limited public interest in these matters.

#### Implementing risk-informed licensing methodology

Nuclear substance regulation includes management of new licence applications, renewals, amendments and licence revocation, in addition to nuclear device certification, transport certification and registered user application. While the number of current licences, certificates and licensees changes throughout the year, the volume of licensing and certification activity in 04/05 involves approximately 4,000 licences/certificates and 2,500 licensees. The CNSC developed a risk-informed methodology for the allocation of resources for nuclear substance regulation which has resulted in increased operational efficiency and integration of all licensing and compliance requirements. Clear

expectations of regulatory requirements have been developed with the goal to promote safety with nuclear substances.

In 2004-2005, the CNSC completed an automated verification planning tool and continued development of licence assessment worksheets to improve licensee understanding of licensing requirements. In addition, assessment summaries have been introduced for licensing and renewal of Class II Nuclear Facilities. These summaries provide licensees with a list of regulatory requirements and their assessed performance, thereby increasing the transparency of the process.

The CNSC also developed a risk-informed methodology to be incorporated into the authorization system for the import and export of nuclear substances and materials that will provide greater transparency and predictability of the process for stakeholders, including licensees.

Licensing basis for the design of new nuclear power plants

Canada's regulatory framework for licensing major facilities such as nuclear power plants had not been updated comprehensively since the previous generation of facilities was licensed in the 1970s and 1980s. The CNSC has developed a regulatory document on the licensing basis for the design of power reactors. It will be also used to assess the licensability of any new reactors in Canada. It is a proactive initiative to modernize the regulatory framework in response to the nuclear sector's potential interest in new power reactors.

This licensing basis document is being applied to the Advanced CANDU Reactor of the Atomic Energy of Canada Limited (AECL) and to any other proposed reactor design. Because operators may choose from a variety of nuclear power technologies, care is being taken to make the general requirements technology neutral and suitable to different reactor types.

#### Waste management

The new CNSC Regulatory Policy P-290, *Managing Radioactive Waste*, issued in July 2004, established as a key principle the minimization of radioactive waste through design measures, operating procedures and decommissioning practices. Licensees and CNSC staff will be guided by this principle when considering design, operating and decommissioning measures for new reactors.

#### Reactor refurbishment

With the age of Canada's nuclear power reactors, the CNSC expects a number of life extension initiatives to take place in the next several years. The CNSC has established the following two key regulatory goals for life extension projects:

1. Obtaining assurance of the adequacy of the scope of refurbishment and safety upgrades proposed by the licensee, and

2. Verification of the proper execution of that work by the licensee, prior to return of the facility to service.

In 2004-2005, the CNSC continued development and implementation of comprehensive regulatory oversight plans to achieve these goals. The following steps are required of licensees in establishing the scope of refurbishment work:

- An Environmental Assessment for the project, which must be completed before any regulatory approvals or licensing actions are given that enable the project to proceed.
- A safety review of the facility in accordance with the IAEA Periodic Safety Review guidance.
- Development of an integrated implementation plan for the necessary corrective actions, safety upgrades and compensatory measures to ensure the facility will pose no unreasonable risk to health, safety, security and the environment and will conform with Canada's international obligations over the proposed life.

Having established the scope, requirements for project execution then include:

- an acceptable quality management program,
- worker health and safety and radiation protection programs, and
- measures for managing wastes and environmental impacts arising from the project.

CNSC's regulatory verification of project execution will include assessment of engineering change submissions, and inspections of licensee procurement, construction, and commissioning activities. CNSC staff will verify the licensee's completion assurance process before granting permission to re-start the reactor following the refurbishment work.

#### Extending licence periods

All licence periods for nuclear substances and radiation devices were extended from two to five years as they came up for renewal, resulting in better management of regulatory and licensee resources where greater focus is on compliance and safety rather than the licensing process. As a result, licence renewals have decreased, and CNSC resources have been redirected towards verifying licensee compliance and therefore safety.

Other licensing-related initiatives:

- The integration of radioactive substance licences with the power reactor operating licence at one facility on a trial basis, further reducing the administrative burden on licensees.
- Environmental assessments (EAs) of projects under certain licence applications are required to identify possible impacts and mitigation measures necessary to protect the health, safety and security of Canadians, and the environment. As an example, the CNSC's conducting an EA of a proposal by Cameco Corporation for a slightly

enriched uranium blending facility in Port Hope, Ontario, which includes the review of Cameco's EA study report.

- CNSC staff began the comprehensive process to review the relicensing of the Pickering Nuclear Power Plant (NPP) for five years. This is the first of many planned NPP licence renewals and includes the operation of Pickering Unit 4, the restart of Pickering Unit 1, and the possible re-start of Pickering Units 2 and 3.
- To protect Canadian taxpayers and the federal government from potential liability should the licensee be unable to fulfill their regulatory obligations in the future, the CNSC requires the provision of the financial guarantees from licensees for certain types of activities, including decommissioning. In 2004-2005, the CNSC accepted financial guarantees from Canadian Light Source Inc., AECL Whiteshell Laboratories, and for five SLOWPOKE reactor facilities across Canada.
- A Tribunal Process Management Manual, including procedural guidelines for all processes, was initiated in 2004-2005 and is scheduled for completion in 2005-2006. This manual will clarify accountability of Secretariat and CNSC staff by allocating responsibility for each step of key processes, and will improve transparency.
- In accordance with Canada's bilateral and multilateral nuclear non-proliferation
  obligations and to ensure that international transfers of nuclear and nuclear-related
  items are for peaceful purposes only, the CNSC continued to assess import/export
  applications and safeguards conditions relevant to licences to ensure peaceful
  international transfer of nuclear and nuclear-related items and Canada's compliance
  with its safeguards obligations.

## Licensing protects health, safety, security and the environment



The CNSC plays a key role in protecting health, safety, security and the environment by regulating, monitoring and inspecting licensed activities. Among other activities, this role includes conducting the CNSC's comprehensive and risk-informed system of licensing.

Examples of results in this area during 2004-2005 include the licensing of the decommissioning of the Cluff Lake uranium

mine in Northern Saskatchewan, the licensing of the Canada's first Gamma Knife facility and the licensing of Canadian Light Source Inc., a world-class research and development synchrotron facility in Saskatoon.

#### **Decommissioning the Cluff Lake mine**

The first of its generation of Northern Saskatchewan uranium mines to move into decommissioning, the Cluff Lake mine received a decommissioning licence in July 2004. The granting of this licence by the Commission Tribunal followed five years of environmental assessment, public consultations and regulatory review, and marked the initial phase of efforts by COGEMA Resources Inc. to return the Cluff Lake site to a natural state.

Dismantling the mill by COGEMA Resources Inc. began in 2004, with most major decommissioning activities to conclude in 2005. This will be followed by many years of CNSC monitoring to ensure compliance with the *Canadian Environmental Assessment Act* (CEAA) and the NSCA.

#### The unique nature of Gamma Knife facilities

A licence was issued in 2004-2005 for a Canada's first Gamma Knife facility, located in Winnipeg, Manitoba. When the CNSC conducted a compliance inspection of the Winnipeg facility in 2004, it recognized the unique nature of stereotactic gamma

teletherapy, determining and documenting adequate radiation safety standards. For example, the main radiological hazard in the facility results from scattered gamma radiation, thus reducing the need for primary barriers to shield the facility. As a result, new licensing requirements for Gamma Knife facilities were fully implemented during the reporting period.

Also known as stereotactic radiosurgery, Gamma Knife is a precise, non-invasive procedure that can destroy deep-seated vascular malformations and brain tumours once considered inoperable. The technology does not require any incision; instead it uses a concentrated radiation dose of 201 Cobalt-60 sources with a total activity of 244 TBq to beam radiation at a specific area and destroy only abnormal tissue.

In addition to the Winnipeg facility, another is licensed and operating in Sherbrooke, Québec, and another is under construction in Toronto.

#### **Operation of Canadian Light Source begins**

Owned by the University of Saskatchewan, the Canadian Light Source Inc. (CLS) is a national facility for synchrotron light research that brings together academic and industrial researchers to conduct materials R&D, and is subject to oversight of the Canadian Nuclear Safety Commission.

A synchrotron produces infra-red, ultraviolet and X-ray light which scientists use to see the microscopic nature of matter, down to the level of the atom. Information obtained with this technology can be used for many applications such as developing new drugs, building more powerful computer chips, and helping with mining clean-up.

The CLS met the requirements of commissioning – conceptualizing, designing and constructing a facility that is safe for use – and the Commission Tribunal granted an operating licence for routine operation in June 2004.

#### 3. High levels of compliance with the regulatory framework

**Total Financial Resources (\$000's)** 

Main Estimates	Planned Spending	Total Authorities	Actual Spending
28,377	28,462	30,484	34,004

#### **Total Human Resources (FTE)**

Main Estimates	Planned Spending	Total Authorities	Actual Spending
232.7	230.8	230.8	252.1

The CNSC rigorously enforces its regulatory requirements through a variety of measures. Licensee compliance is verified through inspections, reviews, audits and assessments. The CNSC requires any licensee found to be non-compliant with either its licence conditions or the regulatory requirements to resolve the issue and demonstrate improvement by a specified deadline, or face enforcement action.

During the reporting year, the CNSC continued to conduct its compliance program that involved ongoing monitoring of the production, use, storage and flow of nuclear material at Canadian nuclear facilities, and the maintenance of a national nuclear materials accountancy system. CNSC staff report on licensee operations through mid-term performance reports, status reports, significant development reports and annual industry reports. This is in addition to performance information provided in licensing hearings, transcripts of which are available to the public along with records of proceedings. The CNSC Annual Industry Report on the Safety Performance of the Canadian Nuclear Power Industry is prepared on an annual basis, and contains the Report Card on Nuclear Power Plant Performance. The most recent Report Card is an evaluation of safe and secure installations, and is available on page 84. CNSC staff observed, through inspections and reviews, that the power reactor industry operated safely in 2004. No worker at any power reactor station or member of the public received a radiation dose in excess of the regulatory limits.

#### Compliance planning and management

Designed to administer, promote and assess compliance, the CNSC has commenced the use of risk-informed formulas to determine inspection frequency and resource requirements. The CNSC is implementing the new Type I and Type II<sup>2</sup> inspection planning program, along with associated compliance tools, working cooperatively with licensees to improve transparency, communication, performance and safety. During the

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<sup>&</sup>lt;sup>2</sup> \*Type I inspections are on-site audits and evaluations of a licensee's programs, processes and practices. Type II inspections are routine (item-by-item) checks and rounds that typically focus on the outputs, or performance of licensee programs, processes and practices. Findings from Type II inspections play a key role in identifying where a Type I inspection may be required to determine systemic problems in licensee programs, processes or practices.

reporting year, the CNSC also conducted extensive training of staff in the various facets of the new risk management program, reviewed the risk-profile of certain nuclear facilities, and revised baseline compliance plans.

In March 2004, the CNSC initiated the Power Reactor Regulation Improvement Program (PRRIP), intended to ensure a power reactor regulation program delivers the best possible performance for licensees and the public. The PRRIP will achieve this by examining and improving all relevant aspects of the regulation program, from planning and problemsolving to communication and management methods. The goal of the PRRIP is to facilitate the CNSC's management of the risk to public health, safety, security and the environment arising from the operation of nuclear power reactors in Canada. More information on the PRRIP is available on page 34.

#### Nuclear security

CNSC staff continued to monitor potential threats to Canadian nuclear facilities, and inspected and evaluated licensees' physical security programs, placing priority on higher-risk facilities. Specifically, security inspections were conducted at nuclear power plants, nuclear research facilities, fuel fabrication and tritium processing facilities, radioisotope facilities and waste management areas. Security inspections of other facilities such as hospital and university laboratories that use, process or store high-risk radioactive sources were also conducted and resulted in measures to improve security. Overall, CNSC staff were satisfied that licensees are taking appropriate measures to meet the requirements for physical protection of their facilities.

#### Radiation protection for carriers

During the reporting year, the CNSC continued to actively promote the new international requirements for radiation protection for licensed and non-licensed carriers, which came into effect in June 2004. These requirements improve radiation safety of transport carriers and other stakeholders. To build awareness of the new requirements, the CNSC prepared a supporting guide (G-314) to help carriers establish their own radiation protection programs. It also undertook numerous activities such as conducting awareness sessions and encouraged carriers to submit their radiation protection programs to the CNSC for review and follow up as to whether or not their programs will meet the new requirement if subjected to a compliance inspection.

As of May 31, 2004, carriers not licensed by the CNSC were required to have work procedures and a radiation protection program in place based on the risk of worker exposure to radiation. Visits to approximately 30 transport companies were conducted to promote compliance with this new requirement and Transport Type I inspections have been conducted at approximately 10 sites. Implementation of the Radiation Protection Program for these transport carriers not licensed by the CNSC is underway.

#### Sealed source tracking

The CNSC played a significant role in developing the IAEA *Code of Conduct on the Safety and Security of Radioactive Sources*, which has been endorsed by the Government of Canada. It also played a significant role in developing the IAEA Technical Document 1344 entitled *The Categorization of Radioactive Sources*.

In support of this *Code of Conduct*, the CNSC began to build a national sealed source registry database and tracking system for high-risk radioactive sources. Under the new system, radioactive sources are ranked and assigned to one of five categories to provide an internationally-harmonized foundation for making risk-informed decisions. Implementation of tracking the highest risk categories is scheduled for January 2006. The completed system will enhance the CNSC's regulatory control of radioactive sources used in medical, industrial and research activities throughout Canada. The system will be available to stakeholders through a Web-enabled user interface. Licensees will update inventory data electronically, enabling the CNSC to track the movement of high-risk sources.

Safeguards, non-proliferation and the Nuclear Material Accounting System

In response to safeguards measures introduced in Canada in 2000, IAEA verification objectives have undergone a major shift including extension to include facilities not previously subject to safeguards requirements. To establish national-level safeguards in Canada, the CNSC has worked collaboratively with the IAEA in areas such as:

- Installation of new safeguards equipment at facilities.
- Implementation of an enhanced nuclear material accounting system allowing licensees to make submissions electronically and allowing the CNSC to meet its international non-proliferation and safeguards obligations more effectively.
- Development of a new safeguards approach at Canada's uranium refining and conversion sites.
- Exchange of bilateral nuclear inventory reports with other countries, and reconciliation of inventories with them. Such activity ensures that international transfers of nuclear items are for peaceful purposes only, and in accordance with Canada's bilateral and multilateral nuclear non-proliferation obligations.
- Provision to the IAEA of periodic nuclear material accounting reports and other information required under Canada's Safeguards Agreement and Additional Protocol with the IAEA
- Facilitation of access by IAEA safeguards inspectors to nuclear facilities and other locations in Canada.

In a major effort by the CNSC to ensure that Canadian uranium conversion and refining facilities conform to new safeguards requirements, the CNSC conducted ongoing negotiations with the IAEA and industry to establish a system of accountancy for nuclear material and a plan for IAEA verification of initial inventories in mid-2005 at refining facilities.

### Safety culture and management

The CNSC encourages licensees to embrace a safety culture that results in behaviour that exceeds expectations of the regulator. Safety culture refers to the characteristics of the work environment, such as the values, rules, and common understandings that influence employees' perceptions and attitudes about the importance that the organization places on safety. During the reporting year, the CNSC participated in workshops in Canada and internationally on safety culture and management. This involvement allows the CNSC to influence the direction of the nuclear industry on safety culture at home and abroad, and to adopt successful practices deployed elsewhere.

The CNSC held a safety culture symposium for industry in 2004. The workshop highlighted the significant progress the industry has made in the area of safety culture and the recognition of its importance. For example, some facilities have developed safety culture frameworks, while others have developed and piloted evaluation methods for performing safety culture self-assessments. The CNSC has been developing a safety management program that will address information requirements to be presented to the Commission Tribunal, providing a complete picture of operators' performance and safety trends.

### Other compliance-related initiatives:

- The CNSC conducted compliance inspections of high- and moderate-risk licensed activities, which included 959 of the 2380 planned inspections of medical, academic and industrial licensees. In the 2005-2006 fiscal year, the CNSC will be requesting additional resources to enable us to ensure an appropriate level of compliance inspections while handling to an increase in regulatory workload. Compliance efforts identified and responded to 117 reportable occurrences, of which 10 involved the transportation of nuclear substances, 27 involved the recycling industry and 24 involved lost or stolen material. The reportable occurrences in these activity areas resulted in the issuance of four orders related to health and safety and six incidents of exceeding dose limits to nuclear energy workers.
- The CNSC continued to emphasize integrated audits at licensed facilities. Multidisciplinary teams carrying out audits of more than one safety area can identify more comprehensively potential risks to workers, the public and the environment, and set priorities for remedial actions.

# **An Improved Program for Regulating Power Reactors**



Initiated in March 2004, the Power Reactor Regulation Improvement Program (PRRIP) is intended to ensure the power reactor regulation program delivers the best possible performance by licensees, of the regulatory fundamentals. The PRRIP will achieve this by examining and improving all relevant aspects of the regulation program, from planning and problem-solving to communication and management methods.

The improved power reactor program will include:

- Regulatory activity based on a formal, well-articulated risk management approach;
- Clearer roles and accountabilities for all stakeholders in the process;
- A single point of contact for licensees;
- Consistency of regulatory approach within and across all power reactor licensees;
- Clear and documented processes defining how the various contributors can work together in the most coordinated and efficient way; and
- A streamlined information management system that supports the CNSC's business.

The Power Reactor Service Line (PRSL) group was re-aligned during the reporting year to enhance effectiveness and efficiency, and to meet changing demands. By providing a sharper focus, reducing duplication, and creating more appropriate lines of authority and accountability, the realigned organization structure improves clarity by consolidating specialist functions, such as quality assurance, radiation protection, environmental protection, personnel certification and event analysis into specialist divisions focused on these areas of responsibility.

# 4. CNSC cooperates and integrates its activities in national/international nuclear fora

### **Total Financial Resources (\$000's)**

Main Estimates	Planned Spending	Total Authorities	Actual Spending
9,428	14,635	15,675	15,360

### **Total Human Resources (FTE)**

Main Estimates	Planned Spending	Total Authorities	Actual Spending
61.0	91.3	91.3	96.1

The CNSC works cooperatively on an ongoing basis with a number of national and international organizations to advance nuclear safety and security at home and abroad, and to provide benchmarking information.

The President of the Commission Tribunal is an active member of the Tribunal Heads, a group consisting of 22 federal tribunals, as well as the Council of Canadian Administrative Tribunals. In addition, she is a member of the Heads of Agencies steering committee and co-chair of the Heads of Agencies Governance sub-committee. The work has enhanced the visibility of the Commission and its image as a leader among Canadian administrative tribunals.

### Cooperative frameworks

The CNSC developed a framework for establishing and reviewing domestic cooperative arrangements with federal and provincial organizations, departments and agencies. The framework enhances cooperation and integration ensuring that administrative arrangements are consistent with the CNSC mandate and remain effective.

The CNSC also developed a framework for tracking and coordinating Memoranda of Understanding, cooperative undertakings with foreign governments/agencies and international organizations, and a framework for assessing the value of participating in international activities and subsequently evaluating the results. Targeted involvement with international fora is essential to achieving the CNSC's commitment to promote nuclear safety, non-proliferation and safeguards objectives in Canada and worldwide.

### International nuclear non-proliferation activities

In Canada, the CNSC is responsible for implementing the international nuclear non-proliferation obligations agreed to by Canada. It does so through its regulatory programs under the *Nuclear Control and Safety Act* (NSCA) and through its participation in multilateral non-proliferation initiatives on behalf of the Government of Canada. The

CNSC acted as technical advisor to the Nuclear Non-Proliferation Treaty (NPT) 2004 Preparatory Committee and inactively preparing for the May 2005 Review Conference.

The CNSC advised the Vienna Permanent Mission to the IAEA, Foreign Affairs Canada and other Canadian stakeholder organizations in order to advance Canadian positions on safeguards, export controls and non-proliferation with a view of strengthening the nuclear non-proliferation regime.

The CNSC also held consultations on the implementation of bilateral non-proliferation trade agreements with Argentina, Australia, Brazil, EURATOM, the Russian Federation, Spain, the United Kingdom and the United States for the purpose of assuring that Canadian exports of nuclear items are for peaceful purposes only, and to contribute to the international non-proliferation regime. For example, in 2004, the CNSC amended an Administrative Arrangement with the Russian Federation to assure adequate non-proliferation verification measures are in place for Canadian transfers of uranium to Russia.

The CNSC continued its ongoing international work on multilateral guidelines with the Nuclear Suppliers Group and the 35-nation NPT Exporters (Zangger) Committee to toughen nuclear export controls, particularly in response to emerging non-proliferation challenges.

IAEA Safeguards - Domestic and international

In 2004-2005, the CNSC participated in numerous activities with the IAEA to address domestic safeguards challenges and provide support for strengthened IAEA safeguards. Key cooperative activities included:

- Participation in a major international review of the IAEA's safeguards system to provide recommendations aimed at maintaining the credibility of the safeguards system and enhancing its effectiveness and efficiency.
- Continued installation of new, technologically advanced safeguards equipment at
  Canadian nuclear facilities, to be completed at all locations by the end of 2005.
  Assistance has been provided at Pickering and Gentilly-2 to replace aging video
  surveillance systems with digital ones that include remote surveillance capabilities.
  Assistance was also provided to the IAEA to find secure, cost-effective methods to
  gain remote access to safeguards data collected at facilities. This cooperation with
  the IAEA in both planning and funding, and the ability to remotely monitor activities
  relevant to safeguards, are crucial to establishing a state-level safeguards approach in
  Canada.
- Completed a major software upgrade to the equipment used by the IAEA to remotely monitor the discharge of spent fuel from CANDU reactors. The ability to collect and review this data at the IAEA offices reduces expense and disruption at the facilities and also allows the IAEA to review and analyze data more quickly.

- Continued work with the Swedish nuclear regulator on improvements to the Digital Cerenkov Viewing Device used by the IAEA to verify long-cooled, low burn-up fuel held in storage pools. It is a more cost-effective technology.
- Co-operation with the IAEA and its member states to improve safeguards implementation by providing input into the IAEA revision of a safeguards publication on State System of Accounting for and Control of Nuclear Material (SSAC) guidelines.
- Ongoing formal consultations with the IAEA and the Canadian nuclear industry on a Canadian integrated safeguards approach.

### Other cooperative activities

- Consultation with other government stakeholders to develop mechanisms that support
  efficient, effective and accountable assessment and licensing of applications for the
  import and export of controlled nuclear and nuclear-related dual-use substances,
  materials, equipment and technology.
- Provision of technical support for a major G8 initiative aimed at preventing the acquisition of weapons and materials of mass destruction by terrorists or those who shelter them.
- Publication in 2004 of Canada's Third Report on the Convention on Nuclear Safety by the CNSC in consultation with industry representatives and other Government of Canada departments. In April 2005, the President and CEO of the CNSC, Ms Linda J. Keen, will preside over the Third Review Meeting of the IAEA Convention on Nuclear Safety, the first Canadian to chair a nuclear safety convention review meeting.
- As President of the Commission Tribunal, Ms. Keen was active in many international nuclear fora during the reporting period, including the International Nuclear Regulators' Association meetings in Japan, the International Atomic Energy Agency (IAEA) International Conference on Topical Issues in Nuclear Installation Safety in Beijing, the IAEA International Conference on Nuclear Security in London, a visit to the United States Nuclear Regulatory Commission in Washington, D.C., the Global Nuclear Energy Summit 2004 in Toronto, the G8 Heads of Regulators Meeting in Moscow and the Nuclear Energy Agency's Regulatory Forum in Paris.

### Domestic cooperation

- The hosting of a three-day annual meeting of the Federal Provincial Territorial Radiation Protection Committee, whose purpose is to harmonize regulation and standards across the industry by sharing progress, new ideas and priorities.
- The co-hosting of a Canadian forum on the 2005 International Committee on Radiation Protection (ICRP) Recommendations, attended by the public industry and other regulatory and government bodies. Such activities provide the CNSC with the opportunity to communicate regularly with various government and industry stakeholders and ensure that Canadian needs and viewpoints are taken into account in developing international standards. They also allow the CNSC to influence the

development and application of international standards and to adopt best practices from our peers around the world.

### Nuclear Emergency Management

The CNSC is employing a collaborative approach in developing a new Nuclear Emergency Management (NEM) policy and upgraded programs. It is being developed in partnership with external stakeholders, and has included extensive consultations with licensees, provincial, municipal and federal government organizations involved in emergency preparedness management.

The CNSC NEM policy provides the foundation for all CNSC emergency management activities. Specifically, it outlines responses consistent with the risks at hand, clarifies roles and responsibilities, and helps maintain current capacity while taking future requirements into account. The policy will be adopted following public consultation.

In addition to developing the policy, key elements of an improved nuclear emergency management program have been identified and updated emergency plans and procedures are under development.

In addition, the CNSC Emergency Operations Centre (EOC) has been redesigned and reorganized to increase reliability and functionality and enhance back-up resources. Extensive training on roles, responsibilities, procedures and emergency response to chemical, biological, radiological and nuclear-related events has been conducted for staff and other Government of Canada departments. A wide variety of activities have been undertaken, ranging from creating a federal-provincial-territorial committee on radiological/nuclear emergencies to the installation of an emergency power generator at CNSC headquarters to maintain the CNSC's capacity in the event of an outage.

# **Strengthening Safeguards**



The verification approaches and measures utilized by the IAEA to verify that nuclear material is not diverted from peaceful uses to nuclear weapons or other nuclear explosive devices, are commonly referred to as 'safeguards'. In 1972, Canada was the first country to bring into force a comprehensive safeguards agreement with the IAEA for such verification as required by the Nuclear Non-Proliferation Treaty (NPT).

The CNSC also is cooperating

with the IAEA in developing new safeguards approaches for Canadian facilities and contributes to efforts to strengthen safeguards internationally. Through its regulatory process, the CNSC ensures that all relevant licensees have in place policies and procedures that include the reporting and monitoring of nuclear material and nuclear activities and the provision of access to nuclear facilities for IAEA safeguards inspectors. The CNSC performs compliance and auditing activities to ensure that these policies and procedures remain sufficient to meet safeguards requirements. Through its Safeguards Support Program, the CNSC also assists the IAEA in developing advanced safeguards equipment or techniques aimed at strengthening the effectiveness and efficiency of safeguards implementation. The Program also supports domestic needs in resolving specific safeguards issues related to Canadian nuclear facilities and the use of nuclear material.

At all stages of the nuclear cycle, from uranium refining and conversion sites to nuclear power plants and waste management facilities, the CNSC has been actively working with the IAEA to design better approaches for meeting Canada's international obligations.

For example, since 2002, as a result of strengthened safeguards, there has been a dramatic increase in the resources required to track transfers of spent fuel to dry storage at multi-unit power reactor sites in Canada. To address this issue, the CNSC collaborated with the IAEA and Ontario Power Generation on a successful field trial at the Pickering reactor site in April-May 2004 to test a more cost-effective approach to track transfers of spent fuel to dry storage. All participants agreed that the trial provided a feasible approach that could be implemented at any multi-unit CANDU station.

The CNSC's experience in this area led to an invitation to participate in a similar field trial in April 2005 at a single-unit CANDU station in the Republic of Korea. Participation in this field trial reflects the CNSC's ongoing efforts to optimize the national and international implementation of safeguards.

### 5. Stakeholders' understanding of the regulatory program

**Total Financial Resources (\$000's)** 

Main Estimates	Planned Spending	Total Authorities	Actual Spending
4,259	4,146	4,440	4,368

### **Total Human Resources (FTE)**

Main Estimates	Planned Spending	Total Authorities	Actual Spending
31.3	30.2	30.2	31.0

The CNSC is committed to openness and transparency. This commitment requires the CNSC to engage stakeholders above and beyond the public hearings and meetings process, through a variety of appropriate consultation processes, effective information sharing and communications activities.

Commission public hearings and meetings are a key element of the CNSC's outreach activities. The Commission publishes *Records of Proceedings, including Reasons for Decision*, to explain the basis of licensing decisions. These Records of Proceedings, and information about the Commission's proceedings, are available on the CNSC's Web site at <a href="https://www.nuclearsafety.gc.ca">www.nuclearsafety.gc.ca</a>. To facilitate access to public hearings and meetings, the Commission has made a number of improvements during the reporting period, including more opportunities to participate in the proceedings through teleconference and videoconference. Although most proceedings are held in Ottawa, more affected communities are using videoconferencing as a cost effective way to participate in public hearings.

Web casting is a promising technology for communicating Commission proceedings, and pilots of this technology in 2004 were highly successful. The CNSC will evaluate the feasibility of it in 2005-2006. The technology would be consistent with the Government of Canada's Government On-Line objectives, and would benefit Canadians by ensuring that citizens interested in viewing public hearings in real-time could do so via the Internet from their homes or offices.

In another demonstration of the Commission's commitment to increased participation in its proceedings, the Commission periodically holds hearings in the communities where the concerned nuclear facility or activities are located. In June 2004, the Commission held public hearings in Saskatoon and La Ronge, Saskatchewan to facilitate access to the public hearing process by local citizens on licensed activities in their communities. There was considerable participation by members of the public, local organizations and Aboriginal communities at these hearings.

Surveying stakeholder awareness and perceptions

The CNSC increased its knowledge of key stakeholder issues and concerns by undertaking a variety of survey activities in 2004-2005.

Stakeholder groups and 1,055 Canadian citizens were surveyed in 2004 to evaluate their knowledge of, level of confidence in and satisfaction with the performance of the CNSC as a nuclear regulator. The results indicated that more than half of Canadians feel confident that the nuclear industry in our country has effective regulation. In addition, the CNSC undertook an environmental scan to obtain a clearer picture of the climate in which it operates. An analysis was also conducted of how media coverage presents the CNSC, nuclear regulation, and nuclear energy in general, in order to further understand the environment and the needs and perceptions of stakeholders. The knowledge acquired through these activities has contributed to the CNSC improving its communications and outreach strategies to meet the needs of citizens and other stakeholders more effectively.

### Developing a sustainable Outreach Program

Building on tools and initiatives already in place, an Outreach Program was launched on June 4, 2004 to heighten public awareness and understanding of regulated nuclear activities and the CNSC's role in protecting health, safety, security and the environment. Outreach activities undertaken in 2004-2005 include meetings with mayors in communities near nuclear facilities, meetings with licensee boards of directors, and providing affected communities with the opportunity to participate directly during public hearings by electronic means or through visits by the Commission.

Other activities, such as speaking engagements for the President and CEO and other CNSC staff, in Canada and abroad, offer opportunities to interact with stakeholders about the organization's role, responsibilities and priorities.

Based on results of outreach activities and stakeholder surveys, the CNSC is identifying where outreach can be enhanced in 2005-2006.

### Other activities

- Publication of a new brochure series to provide stakeholders with information about the CNSC's work and its public hearing process.
- Improved information on the CNSC's international activities and research and support program was developed and posted to the CNSC's Web site. Other activities to improve the user-friendliness of the Web site included work to develop a subscription service to allow the public and stakeholders to receive automatic e-mail notification when new information is available on the site, and a redesign of the Commission hearings and meetings Web site, to be launched in the spring of 2005.

- Coordination of a joint CNSC-IAEA-industry meeting on the implementation of integrated safeguards in Canada. The goal was to ensure that stakeholders developed a common understanding of regulatory requirements and industry challenges.
- Development of an e-learning initiative to support licensee understanding of and compliance with nuclear non-proliferation import/export regulations. The first electronic modules are scheduled to be launched in the fall of 2005.

# **Building Public Trust**



Nuclear regulators have the responsibility to regulate the industry in a manner that provides the public with assurances that health, safety, security and the environment are the priority. The CNSC is committed to increasing public confidence in the nuclear regulatory regime through openness, transparency, independence and competence. It has undertaken a variety of measures to improve public knowledge of the CNSC's role as Canada's nuclear regulator.

This commitment requires the CNSC to engage stakeholders above and beyond the public hearings and meetings process through activities such as consultations, information sharing, and a sustainable outreach program.

### **Protecting and Engaging Communities**

One key factor of an effective and sustainable outreach program is to ensure effective communications with communities that are particularly affected by the nuclear industry. Both the Commission and CNSC staff have participated in face-to-face dialogue across the country with concerned citizens.

For example, CNSC staff were heavily involved in the preparation of licensing documents for the public hearings held in Saskatchewan in June 2004. The CNSC regulates six uranium mines in northern Saskatchewan, affecting about 30 mainly Aboriginal communities. These communities want to understand the potential impacts that uranium mining could have on their lands and people. Increased access to the Commission by local communities helps to further this understanding and allows the Commission the opportunity to interact directly with affected communities.

In May 2004, the President and CEO and senior CNSC staff addressed the Councils of the Municipalities of Kincardine and Saugeen Shores, and participated in several media events. This was part of a broad information and consultation effort on current and pending issues of particular interest to the Bruce peninsula area, namely, power reactors, waste management facilities and financial guarantees.

### **Building confidence**

As part of its international outreach activities, the CNSC collaborated with the Nuclear Energy Agency's (NEA) Committee on Nuclear Regulatory Activities to organize and host an international workshop entitled "Building, Measuring and Improving Public Confidence in the Nuclear Regulator". The NEA is an agency of the Organization for Economic Cooperation and Development (OECD).

The workshop was held in Ottawa, Ontario in May 2004, and provided staff from nuclear regulatory organizations from around the world with the opportunity to share information, practices and experiences, and to discuss developments, progress and techniques for nuclear regulatory organizations in communicating with the public.

At the workshop, the CNSC shared its approach to communicating with its stakeholders, including Canada's Aboriginal communities, about the nuclear regulatory regime. The presentation made by a CNSC staff member from the Saskatoon regional office provided specific examples of the CNSC's activities for improving its relationship with local Aboriginal communities, such as communicating in native languages and face-to-face interaction.

### 6. Management and Enabling Infrastructure

The CNSC's management and enabling infrastructure ensure that CNSC staff have the necessary support to fulfill their mandates and to meet or exceed the accountability requirements of central and parliamentary agencies.

*Integrated planning for results, efficiency and consistency* 

In 2004-2005, the CNSC developed and implemented comprehensive results-based planning as well as corporate strategies and processes to enhance the effectiveness, efficiency and consistency of its operations and management. This included the introduction of strategic and business plans for the CNSC and its major business lines, and linking them to results, budgets, and performance. The CNSC also developed a planning and reporting cycle to better align the strategic, business, work plan and budget cycles. The planning and reporting cycle is part of the CNSC's management system.

### Human resources

The CNSC continued to implement key components of its workforce sustainability strategy. This strategy is driven by the CNSC's operational business needs.

For example, the CNSC has implemented a Leadership Development Program to build a strong team of managers and leaders. The program offers courses in leadership, resourcing, financial management, contracting, privacy, staff relations, health and safety, etc. The program also includes use of 360-degree performance evaluations for senior management, armchair discussions and access to coaching. In addition, the leadership team assembles two to three times a year to address key issues such as values and ethics and communications.

In 2004, part of the CNSC workforce was certified by the Public Service Staff Relations Board to be represented by the Professional Institute of the Public Service of Canada (PIPSC). The collective bargaining process with newly unionized staff began in 2004, and was ongoing as of March 31, 2005.

A survey of CNSC staff on internal communications was conducted in 2004, and was followed-up with targeted focus groups. The survey identified opportunities for improvement and efforts will continue in 2005-2006 to address the findings.

### Values and Ethics Strategy

A clearly-articulated values and ethics strategy is a key component of a sound governance structure. The CNSC's Values and Ethics Strategy reflects the organization's values, provides practical tools for ethical decision-making by CNSC staff, includes a formal process for receiving information about alleged wrongdoing in the workplace and supports staff in fulfilling their responsibilities in regulating nuclear

energy and materials. It also strengthens the CNSC's relationships with licensees and stakeholders.

Tailored specifically for the CNSC, the values and ethics strategy under the theme "Helping good people do the right thing" was formally launched in March 2005. The strategy meets government requirements, and reflects the spirit and intent of the draft Public Servants Disclosure Protection Act (Bill C-11).

### Other improvement initiatives

- A benchmarking study comparing the CNSC's corporate services against services in four similar organizations and two international regulators was completed. The results indicated that the CNSC's costs of common services (i.e., human resources, information management and technology, finance and administration, legal services, etc) are well within the range of those found in comparable federal organizations and "sister" international agencies.
- Developing a business continuity planning program to ensure minimal or no interruption to the availability of critical services and assets in the event of unforeseen circumstances.
- Developing the first phase of an internal management system manual that articulates the role of the CNSC and its staff, the organization's governance structure and its fundamental business processes. The manual also provides a framework for supporting documentation such as policies, procedures and instructions.

# Helping good people do the right thing



Values and ethics are increasingly recognized as a cornerstone of good governance and leadership in the public and private sectors. How we achieve results for Canadians has become as important to public confidence as the results themselves. Since the CNSC holds a significant responsibility for public trust in the safe, effective regulation of nuclear energy and materials, having an active, clearly-articulated ethics strategy reinforces our commitment to our mandate.

In 2004, the CNSC's Audit and Ethics Group was mandated in addition to its rigorous internal audit role, to develop such a strategy, and receive and investigate disclosures of wrongdoing as required by the draft *Public Servants Disclosure Protection Act* (Bill C-11). Designed especially for the CNSC with extensive input from leaders, staff and subject experts, the values and ethics strategy was launched in March 2005. It meets government requirements, reflects the spirit and intent of the draft Bill C-11, and includes a formal process for receiving information about alleged wrongdoing in the workplace.

An active, clearly articulated values and ethics strategy is a key component of sound governance, and provides all CNSC staff with practical tools for making ethical decisions in the course of their work. The strategy also provides guidance for strengthening the CNSC's relationships with licensees and stakeholders.

It also reinforces the CNSC's longstanding culture of employee openness, integrity, and commitment, encourages new channels for workplace dialogue, and provides protection against any reprisals.

To help implement the strategy, leaders and staff have been provided with practical tools and advisory services to guide their ethical decision-making. These include publications for staff and management that offer a model for ethical decision-making and case studies.

As the strategy unfolds, the next focus of the CNSC's attention will geared towards our relationships with licensees and the public. The values and ethics initiative will work towards preparing guidance for licensees, contractors, and other stakeholders to guide them in their relationships with the CNSC.

### **Measures of Performance**

The CNSC recognizes the importance of being able to measure both the effectiveness and the efficiency of its programs, and has initiated the development of an integrated performance management framework. Effectiveness will be measured by way of selected outcome measures relating to the collective impact of the activities on meeting the mandate of the CNSC.

Efficiency, on the other hand, will be measured through ongoing monitoring of the CNSC's performance against external and internal performance standards relating to individual activities undertaken and their associated outputs.

### **Outcome Measures**

In 2004-2005, the CNSC developed an initial set of seven non-financial indicators based on feasibility, relevance and availability of data. The initial set of indicators is as follows:

Outcome	Indicator
Stakeholders' understanding	Level of understanding by stakeholders of the
of the regulatory program	regulatory program
High levels of compliance	Number and significance of non-compliances
with the regulatory	Proportion of licensees meeting expectations (by
framework	safety area where applicable)
	Number of non-authorized activities
	detected/identified
Low levels of exposure to	Levels of radiation doses to workers and to the
humans and the environment	public
	Levels of releases of hazardous substances from
	licensees to the environment
	Number of times regulatory limits are exceeded
	(workers, public, environment)

These indicators will be further defined, base-level data will be collected, and potential target levels will be explored to monitor the performance of the CNSC against the above-noted outcomes. Under this initiative, the CNSC is also contributing to the Expenditure Management Information System (EMIS) project, coordinated by Treasury Board.

The CNSC currently publishes two significant measures of safe and secure nuclear installations and processes used only for peaceful purposes, the first part of the CNSC's stated ultimate outcome (see the logic model on page 52). These measures are the Radiation Index for nuclear stations, and the CNSC Report Card on Nuclear Power Plant Performance. The CNSC Report Card on Nuclear Power Plant Performance as of January 2005 is available on page 84. For more information on these significant measures, please consult the CNSC's Web site at <a href="https://www.nuclearsafety.gc.ca">www.nuclearsafety.gc.ca</a>.

### **Performance Standards**

Performance standards have been developed for the CNSC's relationships with stakeholders. It is very important to note that as an independent regulator, it is inappropriate for the relationship between licensees and the CNSC to be considered a service; hence there are no service standards. A list of performance standards focusing on the needs and expectations of external stakeholders has been developed and work is progressing on implementing such standards. Internal performance standards have been put in place to monitor and report on the ability of corporate service functions to meet the needs and expectations of internal CNSC clients in supporting the delivery of the overall regulatory program.

External performance standards for the following activities were developed in 2003-2004, and were implemented in 2004-2005. These include:

Activity	Performance standard	Target	2004-2005 results
Access to Information (ATI)			
Respond to requests under the ATI and Privacy Acts	within legislated time periods as stated in the Acts	90%	95.5%
Response to public inquiries			
Acknowledge request	within same business day	100%	100%
Respond to request - low complexity - medium complexity - high complexity	within same business day within 5 business days within 10 business days	100%	90.5%
<b>External Communications</b>			
Place Public Hearings Advertisements	within deadlines stipulated in the regulations	100%	94%
<b>External Reporting to Central Agencies</b>			
File annual Report on Plans and Priorities and Departmental Performance Report	within required timelines	100%	100%
Invoice Processing			
Pay supplier invoices	within 30 calendar days of receipt of invoice or goods, whichever is the latest	100%	83.6%
<b>Licensing</b> – for requests pertaining to an <u>exi</u>	sting licence, the CNSC will:		
Publish the Records of Proceedings, including Reasons for Decision, upon conclusion of the public hearing	within 30 business days	90%	93%

External performance standards for operational activities were developed in 2004-2005,

and will be implemented in 2005-2006. These include:

Activity	Target	
Compliance	Performance standard	Target
<b>Verification</b> : upon completion of the verification activity,		
the CNSC will:		
Issue Type I Inspection Report	within 60 business days	80%
Issue Type II Inspection Report <sup>3</sup>	within 40 business days	80%
Issue Desktop Review Report	within 60 business days	90%
<b>Enforcement</b> – upon an order being made, the CNSC will:		
Confirm, amend, revoke or replace the order (see	within 10 business days	100%
CNSC Regulatory Guide G-273)		
<b>Licensing</b> – for requests pertaining to an <u>existing</u> licence, the	e CNSC will:	
<b>Screen</b> the request for completeness and issue	within 20 business days	90%
notification that the licensing request is / is not		
complete		
<b>Issue</b> a licensing decision when a public hearing is not	within 80 business days	80%
required (assuming an environmental assessment		
under the Canadian Environmental Assessment Act		
(CEAA) is not required)		
<b>Issue</b> a licensing decision when a public hearing is	within 160 business days	90%
required (assuming an environmental assessment		
under the CEAA is not required) (see CNSC		
document INFO-0715)		

<sup>&</sup>lt;sup>3</sup> In Power Reactors, unless major issues arise, findings from Field Inspections and Control Room Inspections will be reported on a quarterly basis, within 40 business days of end of quarter.

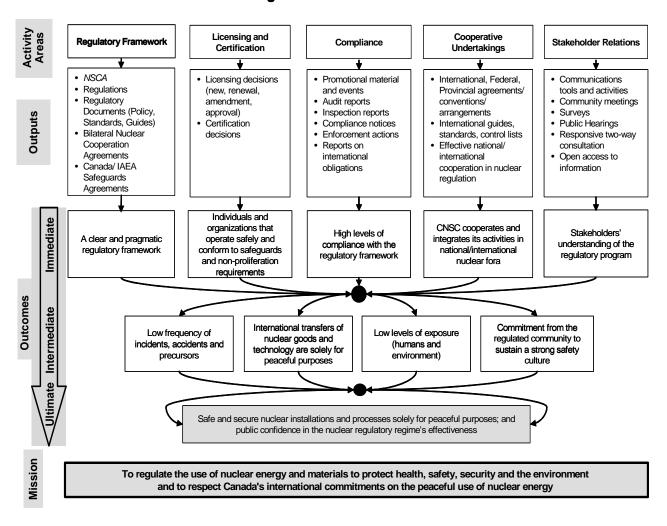
# SECTION III – SUPPLEMENTARY INFORMATION

# The Canadian Nuclear Safety Commission – Operating Context

# The CNSC Strategic Framework

The CNSC Strategic Framework uses this logic model for planning, for focusing activities and programs, for evaluating the contribution of initiatives to the CNSC outcomes and for illustrating the role of the CNSC as an agency committed to achieving results for Canadians.

### **CNSC Logic Model - Results for Canadians**



### Governance at the CNSC

The Commission is an independent, quasi-judicial administrative tribunal and court of record, and is separate from CNSC staff. Both the staff organization and the Commission operate in a transparent manner. The CNSC is known as one of the most open and transparent nuclear regulators in the world.

The CNSC's governance includes a clear vision with articulated outcomes, a focused mission and mandate, strong leadership as well as strong and professional corporate services providing information and internal controls that enable good stewardship of resources.

Integrated planning and performance management is an important aspect of the CNSC's governance. It promotes vigorous and responsible management of resources with an emphasis on results. The CNSC defines desired results, delivers regulatory programs and activities, evaluates performance and makes necessary adjustments. The CNSC conducts mid-year and year-end corporate reviews of results achieved against plans and reallocates resources to the highest priorities. In addition, regulatory activities are reviewed and monitored quarterly.

Performance agreements that are specific, results-based, and clearly identify accountability continued to be in place in 2004-2005 for the top two levels of management. The next level of management will prepare 2005-2006 performance contracts. Performance agreements include Modern Management, Workforce Sustainability as well as commitments under the business planning and budgeting process.

A high level of oversight and scrutiny is provided by an independent internal audit program, complemented by regular audits by the Office of the Auditor General (financial and performance) and other officers of Parliament including the Canadian Human Rights Commission (employer obligations under the *Employment Equity Act*) and the Privacy Commissioner of Canada (*Privacy Act*). The CNSC also abides by a "Conflict of Interest and Post-Employment Code for the CNSC", modeled on the Values and Ethics Code for the Public Service.

## **Organizational Information**

The CNSC operates as two separate organizations as follows:

- (i) a Commission of up to seven members; and
- (ii) a staff organization of approximately 530 people.

### (i) Commission

The *Nuclear Safety and Control Act* (NSCA) provides for the appointment of up to seven Commission members by the Governor in Council. Members serve for a term not

exceeding five years. One member of the Commission is designated as the President of the Commission. This position is held by Linda J. Keen.

Supported by the Secretariat, the Commission functions as an independent, quasi-judicial administrative tribunal and court of record. It sets regulatory policy direction on matters relating to health, safety, security and environmental issues affecting the Canadian nuclear industry. It makes independent decisions on the licensing of nuclear-related activities in Canada, and establishes legally-binding regulations. The Commission takes into account the views, concerns and opinions of interested parties and intervenors. The Commission delegates to Designated Officers the authority to render licensing decisions for certain categories of nuclear facilities and activities in accordance with the requirements of the NSCA and its associated regulations. The Commission retains for its own consideration licensing matters related to major nuclear facilities, for which it holds public hearings, in accordance with the CNSC *Rules of Procedure*.

### (ii) CNSC Staff

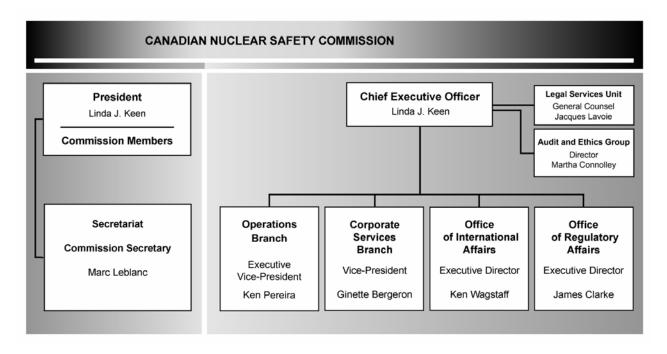
CNSC staff are located at a headquarters in Ottawa, site offices at each of the five nuclear power plants in Canada, and five regional offices. CNSC staff are located at each nuclear power plant in Canada to assess performance against regulations and specific conditions of operating licences. Regional offices conduct compliance activities for nuclear substances, transportation, radiation devices and equipment containing nuclear substances. They also respond to unusual events involving nuclear substances.

CNSC staff support the Commission by:

- developing regulatory frameworks;
- carrying out licensing, certification, compliance inspections and enforcement actions;
- coordinating the CNSC's international undertakings;
- developing CNSC-wide programs in support of regulatory effectiveness;
- maintaining relations with stakeholders; and
- providing administrative support.

In addition, staff prepare recommendations on licensing decisions, present them to the Commission for consideration during public hearings and subsequently administer the Commission's decisions. Where so designated, staff also render licensing decisions.

# **Organizational Chart**



### Financial Summary Overview

The following summary tables represent an overview of the CNSC's financial performance for 2004-2005. Financial information presented in most tables includes four figures:

- "Main Estimates" represent the reference level in CNSC's 2005-2006 Main Estimates
- "Planned Spending" represent the CNSC's appropriations on April 1, 2004 plus any anticipated funding adjustment;
- "Total Authorities" includes planned spending plus additional spending approved by Parliament during the fiscal year; and
- "Actual Spending" represents the actual expenditures incurred by the CNSC for the fiscal year and publish in the Public Accounts of Canada for 2004-2005.

In 2004-2005, the CNSC's planned spending of \$70.6 million consisted of an operating budget of \$70.0 million (includes statutory employee benefits of \$8.4 million) and a transfer payment budget (Grants and Contributions) of \$0.6 million. The transfer payments budget consisted of a \$0.6 million contribution to the IAEA for the Canadian Safeguards Support Program and several smaller grants and contributions to other international and non-profit organizations.

In addition to the \$70.6 million planned spending, the CNSC received additional supplementary funding of \$5.0 million, for a total authority of \$75.6 million. The supplementary funding includes the Generator (\$2.0 million); the Operating Budget Carry Forward (\$2.6 million); Cost Recovery Phase-In and other adjustments (\$0.4 million).

In 2004-2005, the CNSC recovered \$48.8 million in non-respendable revenues, which represents approximately 60% of the \$80.8 million of full cost of expenditures. Full cost includes services without charge, and all other expenditures as shown within the Statement of Operations on page 67 of the Audited Financial Statements.

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**Table 1: Comparison of Planned Spending and Actual (incl. FTE)** 

				2004	I–2005	
Program Activity (\$ millions)	2002–03 Actual	2003–04 Actual	Main Estimates	Planned Spending	Total Authorities	Actual Spending
Nuclear Regulation	63.8	67.6	65.4	70.6	75.6	73.2
Total	63.8	67.6	65.4	70.6	75.6	73.2

Total	63.8	67.6	65.4	70.6	75.6	73.2
Less: Non-Respendable revenue	(38.2)	(42.1)	-	(50.2)	-	(48.8)
Plus: Cost of services received without charge	7.0	7.8	-	7.4	-	8.1
Net cost of Department	32.6	33.3	-	27.8	•	32.5

Full Time	-	508.3	504.2	530.2	530.2	516.8
Equivalents						

**Table 2: Use of Resources by Business Lines (or Program Activities)** 

2004–2005										
				Plus: Non- Budgetary						
Program Activity (\$ millions)	Operating (incl. EBP)	Capital	Grants and Contributions	Total: Gross Budgetary Expenditures	Less: Respendable Revenue	Total: Net Budgetary Expenditures	Loans, Investments and Advances	Total		
Nuclear Regulation										
Main Estimates	64.8	-	0.6	65.4	-	65.4	-	65.4		
Planned Spending	70.0	-	0.6	70.6	-	70.6	-	70.6		
Total Authorities	75.0	-	0.6	75.6	-	75.6	-	75.6		
Actual Spending	73.0	-	0.2	73.2	-	73.2	-	73.2		

**Table 3: Voted and Statutory Items** 

			2005		
Vote or Statutory	Truncated Vote or Statutory Wording				
Item (\$ millions)		Main Estimates	Planned Spending	Total Authorities	Actual Spending
20	Operating expenditures	56.8	61.5	67.4	65.4
	Grants and Contributions	0.6	0.6	0.6	0.2
(S)	Contributions to employee benefit plans	8.0	8.5	7.6	7.6
	Total	65.4	70.6	75.6	73.2

**Table 4: Net Cost of Department** 

(\$ millions)	2004–2005
Total Actual Spending	73.2
Plus: Services Received without Charge	
Accommodation provided by Public Works and Government Services Canada (PWGSC)	4.5
Contributions covering employers' share of employees' insurance premiums and expenditures paid by TBS (excluding revolving funds)	3.4
Services rendered by Justice Canada, Office of Auditor General of Canada, and other	0.2
Less: Non-respendable Revenue	(48.8)
2004–2005 Net cost of Department	32.5

**Table 5: Contingent Liabilities** 

	(\$ millions)				
Contingent Liabilities	March 31, 2004	March 31, 2005			
Claims, Pending and Threatened Litigation	55.2	55.2			
Total	55.2	55.2			

Claims have been made against the CNSC in the normal course of operations. Legal proceedings for claims totaling approximately \$55,250,000 were still pending at March 31, 2005. The final outcome is presently not determinable and, accordingly, no provision has been recorded in the accounts for these contingent liabilities. Settlements, if any, resulting from the resolution of these claims will be accounted for in the year in which the liability is considered likely and the cost can be reasonably estimated.

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Table 6: Sources of Non-Respendable and Respendable Revenue

# Non-Respendable Revenue

Program			2004-2005				
Activity (\$ millions)	Actual 2002-03	Actual 2003-04	Main Estimates	Planned Revenue	Total Authorities	Actual Spending	
Nuclear Regulation							
Licence Fees	37.5						
<ul> <li>Regulatory Plan</li> <li>Activity Fees</li> </ul>		34.7	-	40.9	-	40.6	
o Formula Fees		2.9	-	4.1	-	3.4	
o Fixed Fees		0.4	-	0.1	-	0.3	
Special Projects	0.7	4.1	-	5.1	1	4.5	
Total Non- Respendable Revenue	38.2	42.1	-	50.2	-	48.8	

 $Respendable\ Revenue-Not\ applicable$ 

Table 7-A: 2004-05 User Fee Reporting Template – User Fees Act

				2004-05				Planning Years			
A. User Fee	Fee Type	Fee Setting Authority	Date Last Modified <sup>B</sup>	Forecast Revenue (\$ millions)	Actual Revenue (\$ millions)	Full Cost (\$ millions)	Performance Standard	Performance Results	Fiscal Year	Forecast Revenue (\$ millions)	Estimated Full Cost (\$ millions)
CNSC Cost Recovery Fees Regulations* - regulates the use of nuclear energy and substances in Canada	Regulatory Service	Nuclear Safety Control Act CNSC Cost Recovery Fees Regulations	July 1, 2003	\$50.2	\$48.8	**\$80.8  Included in the full cost is \$8.1 million for services provided without charge from other government	See page 48	See page 48	2005- 2006 2006- 2007 2007- 2008	\$52.4 \$50.8 \$50.8	***\$79.0 ***\$73.7 ***\$73.0
				\$50.2	\$48.8	departments **\$80.8			Total:	\$154.0	***\$225.7

### B. Date Last Modified:

Extensive consultations with licensees and other key stakeholders took place prior to publication of the new CNSC Cost Recovery Fees Regulations in the Canada Gazette. On July 1, 2003 new CNSC Cost Recovery Fees Regulations were implemented which replace the former AECB Cost Recovery Fees Regulations 1996. The Cost Recovery Advisory Group (CRAG) met in October 2003 to discuss the CNSC's Cost Recovery Program. CRAG members viewed the forum as a positive mechanism for information sharing. The agenda and minutes of the meeting are available on the CNSC's Web site.

### C. Other Information:

- \* Additional information may be found at <u>www.nuclearsafety.gc.ca</u>
- \*\* Calculation of full cost is based on CNSC audited financial statements.
- \*\*\* Includes services provided without charge from other government departments.

Please refer to the CNSC Audited Financial Statements for additional detailed information as follows:

- 1. Auditors Report this report states that the CNSC has complied with the CNSC Cost Recovery Fees Regulations for 2004-2005.
- 2. Details on revenue charged and the associated cost of operations by fee category.

The CNSC has established two dispute resolution mechanisms internal to the CNSC. The first addresses disputes over the administration of fees and the other over regulatory activity assignments. Details regarding the process and contact information are available on the CNSC Web site. During the 2004-2005 fiscal year, two disputes over the administration of fees were brought forward by licensees. Both complaints were resolved at the first level of grievance.

**Table 7-B: 2004–05 User Fee Reporting Template – Policy on Service Standards for External Fees** 

A. External Fee	Service Standard	Performance Result	Stakeholder Consultation				
Regulatory Service Fee; Canadian Nuclear Safety Commission Cost Recovery Fees Regulations, July 2003	It is very important to note that as an independent regulator, it is inappropriate for the relationship between licensees and the CNSC to be considered a service. The CNSC has developed performance standards for its relationships with stakeholders, in place of service standards.	See page 48	The CNSC has established the Cost Recovery Advisory Group (CRAG), consisting of representatives from different industry sectors, as a forum for ongoing communication and consultation with stakeholders or licensees regarding CNSC's regulatory activities and resulting fees. There is at least one (1) CRAG meeting held annually.				
B. Other Information: None							

**Table 8: Major Regulatory Initiatives** 

Regulations	Expected Results	Performance measurement criteria	Results achieved
Amendments to the Nuclear Security Regulations (NSR).  Amendments to the NSR will:  Penact on a permanent basis the increased security requirements for certain nuclear facilities imposed in the Fall 2001 through CNSC Order Number 01-01 and Designated Officer Order Number 01-D1; and  Poing the CNSC nuclear security regulations in line with international security practices.	High levels of compliance with international practices regarding the physical protection of nuclear facilities, as specified in measures set out in amendments to the Nuclear Security Regulations.	Frequency and importance of deficiencies and instances of noncompliance with regulatory requirements regarding nuclear security, as determined through audits and other inspections.	Comments on the proposed amendments to the <i>Nuclear Security Regulation</i> were reviewed in 2004-05, and significant revisions made in response to those comments. Revised proposed amendments will be published again for stakeholder comment in the <i>Canada Gazette</i> , Part 1 in 2005.

**Table 9: Financial Statements of Departmental Corporations and Agents of Parliament** 

See Audited Financial Statements on page 67.

# Table 10: Response to Parliamentary Committees, Audits and Evaluations for FY2004–2005

### **Response to Parliamentary Committees**

The CNSC was not asked to respond to parliamentary committees this fiscal year.

### **Response to the Auditor General**

### February 2005 Report of the Office of the Auditor General

### Chapter 6: Canadian Nuclear Safety Commission - Power Reactor Regulation

The Auditor General's Report reads, "The Canadian Nuclear Safety Commission has responded to our observations and informs us that it is continuing with the improvements it began in response to the December 2000 recommendations. Overall, the CNSC has made satisfactory progress in response to our recommendations from our December 2000 audit of power reactor regulation."

Among the improvements noted by the OAG are:

- Progress in implementing a consistent approach to compliance and enforcement
- The development of a new scale for rating the performance of power reactor licensees and that the CNSC has committed to improving the consistency of ratings, and communicating their basis more effectively to licensees, along with measures by which licensees can improve their ratings
- The issuance of key regulatory documents and the implementation of a process for prioritizing the development of regulatory policies, standards and guides
- Progress in addressing the human resources issues of capacity, recruitment and retention of capable staff, and clarification of roles and responsibilities
- Clarification of the roles of President and Chief Executive Officer

The OAG also notes that progress has been slower than planned in the development of a formal, well-articulated risk-management approach to power reactor regulation. However, it noted that such an approach has been adopted for the regulation of nuclear substances and uranium mining and processing. Progress in implementing a more systematic risk-informed approach for the regulation of power reactors is ongoing and continues as part of the Power Reactor Regulation Improvement Program, announced in early 2004.

The CNSC recognizes that there is room for further improvement and remains strongly committed to ongoing improvements in all areas of regulation within the CNSC's mandate. The CNSC's plan is contained in its Report on Plans and Priorities and is reported to Parliament in its Annual Report at <a href="https://www.nuclearsafety.gc.ca">www.nuclearsafety.gc.ca</a>.

### **External Audits or Evaluations**

None.

### **Internal Audits or Evaluations**

Evaluation of CBRN Training Program for First Responders

Evaluation of CNSC-IAEA Contribution Agreement in support of the Canadian Safeguards Support Program

### **Table 11: Travel Policies**

### **Comparison to the TBS Special Travel Authorities**

CNSC Travel Policy (Chapter 12):

Authority: Nuclear Safety & Control Act

Coverage: Applies to staff at the Executive level

### Principal difference(s) in Policy Provisions:

- 1. Daily incidental allowance is \$18.00 (TBS is \$17.30)
- 2. Private vehicle mileage TBS low rate is applied more frequently
- 3. Travel service provider is Global Travel, which is not TBS service provider

### Principal financial implications of the difference(s):

- 1. Cost increase of \$0.70 per travel day for daily incidental allowance
- 2. Cost reduction of approximately \$0.30 per kilometer for distances traveled and reimbursed at low rate
- 3. Cost neutral in respect of travel service provider

### Comparison to the TBS Travel Directive, Rates and Allowances

CNSC Travel Policy:

Authority: Nuclear Safety & Control Act

Coverage: Applies to the general employee population

### Principal difference(s) in Policy Provisions:

- 1. Class of air travel business class only permitted if travel time to destination is 18 hours or more. This is more stringent than TBS policy
- 2. Daily incidental allowance is \$18.00 (TBS is \$17.30)
- 3. Private vehicle mileage low rate is applied more frequently
- 4. Travel service provider is Global Travel, which is not TBS service provider

### Principal financial implications of the difference(s):

- Significant cost reduction for business class travel as this class is not permitted for majority of trips to Europe. (CNSC has a substantial requirement to travel overseas)
- 2. Cost increase of \$0.70 per travel day for daily incidental allowance
- 3. Cost reduction of approximately \$0.30 per kilometer for distances traveled and reimbursed at low rate
- 4. Cost neutral in respect of travel service provider

### **Audited Financial Statements**

### **Management Responsibility for Financial Statements**

The accompanying financial statements of the Canadian Nuclear Safety Commission (CNSC) for the year ended March 31, 2005 and all information included in its annual report are the responsibility of management.

These financial statements have been prepared by management in accordance with Canadian generally accepted accounting principles for the public sector and, where appropriate, they include amounts that have been estimated according to management's best estimates and judgement. Management has prepared the financial information presented elsewhere in the annual report and has ensured that it is consistent with that provided in the financial statements.

Management has developed and maintains books, records, financial and management controls and information systems. They are designed to provide reasonable assurance that the Government's assets are safeguarded and controlled, that resources are managed economically and efficiently in the attainment of corporate objectives, and that transactions are in accordance with the *Financial Administration Act* and regulations as well as CNSC policies and statutory requirements such as the *Canadian Nuclear Safety Commission Cost Recovery Fees Regulations*.

The Commission's external auditor, the Auditor General of Canada, has audited the financial statements and at the specific request of the Commission, compliance with the *Canadian Nuclear Safety Commission Cost Recovery Fees Regulations*. The Auditor General has reported on her audit and compliance findings to the Commission and to the Minister of Natural Resources.

Linda J. Keen President and CEO Hugh Robertson Acting Vice President, Corporate Services Branch

Ottawa, Canada June 3, 2005

### **AUDITOR'S REPORT**

To the Canadian Nuclear Safety Commission and the Minister of Natural Resources

I have audited the statement of financial position of the Canadian Nuclear Safety Commission as at March 31, 2005 and the statements of operations, deficit and cash flows for the year then ended. These financial statements are the responsibility of the Commission's management. My responsibility is to express an opinion on these financial statements based on my audit.

I conducted my audit in accordance with Canadian generally accepted auditing standards. Those standards require that I plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In my opinion, these financial statements present fairly, in all material respects, the financial position of the Commission as at March 31, 2005 and the results of its operations and its cash flows for the year then ended in accordance with Canadian generally accepted accounting principles.

Further, in my opinion, the Canadian Nuclear Safety Commission has complied, in all significant respects, with the *Canadian Nuclear Safety Commission Cost Recovery Fees Regulations* pursuant to the *Nuclear Safety and Control Act*.

Crystal Pace, CA Principal for the Auditor General of Canada

Ottawa, Canada June 3, 2005

## **Canadian Nuclear Safety Commission**

## **Statement of Financial Position**

as at March 31

	2005	2004
Assets		
Current assets:		
Due from the Consolidated Revenue Fund	\$6,273,832	\$5,141,024
Accounts receivable (Note 4)	4,665,597	2,630,536
Prepaid expenses	<u>256,489</u>	<u>269,569</u>
	11,195,918	8,041,129
Non-current assets:		
Capital assets (Note 5)	3,309,023	1,395,878
Total Assets	\$14,504,941	\$9,437,007
Liabilities and Deficit		
Current liabilities:		
Accounts payable and accrued liabilities	\$6,273,832	\$5,141,024
Vacation pay	3,350,110	3,136,267
Deferred revenue (Note 6)	4,944,687	6,445,602
Employee severance benefits (Note 12)	476,757	<u>468,705</u>
	15,045,386	15,191,598
Non-current liabilities:		
Employee severance benefits (Note 12)	8,034,219	7,264,144
	23,079,605	22,455,742
Deficit	(8,574,664)	(13,018,735)
Total Liabilities and Deficit	\$14,504,941	\$9,437,007

Commitments and Contingencies (Note 11)

The accompanying notes are an integral part of these financial statements.

Approved by:

Linda J. Keen President and CEO **Hugh Robertson** 

Acting Vice President, Corporate Services Branch

Ottawa, Canada June 3, 2005

## **Statement of Operations for the year ended March 31**

	2005	2004
Revenues		
Licence fees	\$44,296,069	\$38,010,204
Special projects	4,489,706	4,122,783
Other	10,143	16,336
Total revenues (Note 7)	48,795,918	42,149,323
Expenses		
Salaries and employee benefits	54,458,975	51,330,580
Professional and special services	10,701,495	9,818,998
Accommodation	4,640,009	4,288,523
Furniture, equipment repairs and rental	4,412,733	3,699,189
Travel and Relocation	3,699,005	4,084,327
Communication and information	1,613,672	1,574,955
Utilities, materials and supplies	597,019	742,353
Grants and contributions	226,957	448,976
Other	489,855	486,072
Total expenses (Note 7)	80,839,720	76,473,973
Net cost of operations	\$32,043,802	\$34,324,650

## Statement of Deficit for the year ended March 31

	2005	2004
Balance at beginning of year	(\$13,018,735)	(\$17,029,479)
Net cost of operations	(32,043,802)	(34,324,650)
Services provided without charge (Note 9)	8,138,745	7,783,155
Net cash provided by government (Note 3 c)	27,216,320	29,233,200
Change in due from Consolidated Revenue Fund	1,132,808	1,319,039
Balance at end of year	(\$8,574,664)	(\$13,018,735)

The accompanying notes are an integral part of these financial statements.

## Statement of Cash Flows for the year ended March 31

	2005	2004
Operating Activities		
N	Ф22 042 002	Φ24.224.650
Net cost of operations	\$32,043,802	\$34,324,650
Non-cash items		
Amortization of capital assets (Note 5)	(481,056)	(408,792)
Services provided without charge by other Government		
departments and agencies (Note 9)	(8,138,745)	(7,783,155)
Net gain on disposal of surplus assets	3,759	984
Net change in non-cash working capital balances	2,168,193	3,549,407
Change in non-current employee severance benefits	(770,075)	(1,019,087)
Cash used in operating activities	24,825,878	28,664,007
Investing Activities		
Acquisitions of, and improvements to, capital assets (Note 3a)	2,394,201	571,212
Proceeds on disposal of surplus assets	(3,759)	(2,019)
Troceeds on disposar or surprus assets	(3,737)	(2,017)
Cash used in investing activities	2,390,442	569,193
Net cash provided by government (Note 3c)	\$27,216,320	\$29,233,200

The accompanying notes are an integral part of these financial statements.

## 1. Authority and Objectives

The Canadian Nuclear Safety Commission (CNSC) was established in 1946 by the *Atomic Energy Control Act*. Prior to May 31, 2000, when the federal *Nuclear Safety and Control Act* (NSCA) came into effect, the CNSC was known as the Atomic Energy Control Board (AECB). The CNSC is a departmental corporation named in Schedule II to the *Financial Administration Act* and reports to Parliament through the Minister of Natural Resources.

The *Nuclear Safety and Control Act* provides comprehensive powers to the CNSC to establish and enforce national standards for nuclear energy in the areas of health, safety and environment. It establishes a basis for implementing Canadian policy and fulfilling Canada's obligations with respect to the non-proliferation of nuclear weapons. The NSCA also provides CNSC compliance inspectors with clearer, fuller powers and brings penalties for infractions in line with current legislative practices. The CNSC is empowered to require financial guarantees, order remedial action in hazardous situations and require responsible parties to bear the costs of decontamination and other remedial measures.

The objectives of the CNSC are to:

- regulate the development, production and use of nuclear energy and the production, possession and use of nuclear substances, prescribed equipment and information in order to: a) prevent unreasonable risk to the environment, to the health and safety of persons and to national security; and b) achieve conformity with measures of control and international obligations to which Canada has agreed; and
- disseminate scientific, technical and regulatory information concerning: a) the activities of the CNSC; b) the development, production, possession, transport and use of nuclear energy and substances; and c) the effects of nuclear energy and substances use on the environment and on the health and safety of persons.

The CNSC also administers the *Nuclear Liability Act*, including designating nuclear installations and prescribing basic insurance to be carried by the operators of such nuclear installations, and the administration of supplementary insurance coverage premiums for these installations. The sum of the basic insurance and supplementary insurance totals \$75 million for each designated installation (Note 13). The number of installations requiring insurance coverage is 14 (2004 – 14).

The CNSC's expenditures are funded by a budgetary lapsing authority. Employer contributions to employee pension and non-pension benefits are authorized by a statutory authority.

The CNSC established a cost recovery program as provided for by the NSCA. The intent of the program is the recovery of CNSC's expenditures related to its regulatory activities from users licensed under the Act. These expenditures include the technical assessment of licence applications, compliance inspections and the development of licence standards. On July 1, 2003 new CNSC Cost Recovery Fees Regulations were implemented which replace the former AECB Cost Recovery Fees Regulations 1996. The new fees are being phased in over a three-year period through application of fee reductions amounting to 15% in the first year, 10% in the second year and 5% in the third year.

## 2. Significant Accounting Policies

These financial statements have been prepared in accordance with Canadian generally accepted accounting principles for the public sector. The significant accounting policies are:

## a) Parliamentary appropriations

Appropriations are based in large part on cash flow requirements. Consequently, items recognized in the statement of deficit and the statement of financial position are not necessarily the same as those provided through appropriations from Parliament. Note 3 shows the reconciliation of net cost of operations, parliamentary appropriations voted and net cash provided by government to parliamentary appropriations used.

#### b) Due from the Consolidated Revenue Fund

The CNSC operates within the Consolidated Revenue Fund (CRF), which is administered by the Receiver General for Canada. All cash received by the CNSC is deposited to the CRF and all cash disbursements made by the CNSC are paid from the CRF. Due from the Consolidated Revenue Fund represents the amount of cash that the CNSC is entitled to draw from the Consolidated Revenue Fund, without further appropriations, in order to discharge its liabilities.

#### c) Revenue

Licence fee revenue is recognized on a straight-line basis over the period to which the fee payment pertains (normally three months or one year). All other revenue is recognized in the period in which the underlying transaction or event occurred that gave rise to the revenue. Licence fees received for future year licence periods are recorded as deferred revenue. Revenue from licence fees, contract projects and other sources is deposited to the Consolidated Revenue Fund and is not available for use by the CNSC. Legislative authority allows for the respending of amounts received on the disposal of surplus assets.

## d) Vacation pay

Vacation pay is expensed as the benefit accrues to employees under their respective terms of employment using the salary levels at year end. Vacation pay liability payable on cessation of employment represents obligations of the CNSC that are normally funded by appropriation when paid.

#### e) Pension benefits

All eligible employees participate in the Public Service Pension Plan administered by the Government of Canada. The CNSC's contributions reflect the full cost as employer. This amount is currently based on a multiple of an employee's required contributions and may change over time depending on the experience of the Plan. The CNSC's contributions are expensed during the year in which the services are rendered and represent the total pension obligation. The CNSC is not currently required to make contributions with respect to actuarial deficiencies of the Public Service Pension Plan.

## f) Employee severance benefits

Employees are entitled to severance benefits, as provided for under their respective terms of employment. The cost of these benefits is accrued as employees render the services necessary to earn them. Employee severance benefits represent obligations of the CNSC that are normally funded by appropriation when the benefits are paid. The cost of the benefits earned by employees is calculated using information derived from the results of the actuarially determined liability for employee severance benefits for the Government as a whole.

## g) Services provided without charge by other government departments and agencies

Services provided without charge by other government departments and agencies are recorded as operating expenses at their estimated fair value. These include services such as: accommodation provided by Public Works and Government Services Canada, contributions covering employers' share of employees' insurance premiums and costs paid by Treasury Board Secretariat, salaries and associated legal costs of services provided by Justice Canada, audit services provided by the Office of the Auditor General, and workers' compensation benefits provided by Human Resources and Skills Development Canada. A corresponding amount is credited directly to the Deficit.

### h) Grants and contributions

Grants are recognized in the year in which entitlement of recipients has been established, while contributions are recognized in the year in which the conditions for payment are met.

## i) Capital assets

Capital assets with an acquisition cost of \$10,000 or more are recorded at cost less accumulated amortization. Amortization commences on the first day of the month following the month of acquisition and is calculated on a straight-line basis over the estimated useful life of the asset as follows:

## Asset Class Amortization Period

Informatics equipment and software 2 to 5 years
Motor vehicles 4 years
Furniture and equipment 5 to 20 years

## j) Nuclear Liability Reinsurance Account

The CNSC administers the Nuclear Liability Reinsurance Account on behalf of the federal government. The CNSC receives premiums paid by the operators of nuclear installations for the supplementary insurance coverage and credits these to the Nuclear Liability Reinsurance Account in the Consolidated Revenue Fund. Since the CNSC does not have the risks and rewards of ownership, nor does it have accountability for this account, it does not include any of the associated financial activity or potential liability in its financial statements. Financial activity and liability is however reported in Note 13 of these financial statements.

### k) Use of estimates

These financial statements are prepared in accordance with Canadian generally accepted accounting principles. The preparation of accrual financial statements requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenue, expenses and contingencies during the reporting period. Actual results could differ from the estimates. The most significant items where estimates are used are employee severance liabilities and amortization of capital assets.

## 3. Parliamentary Appropriations

The CNSC receives its funding through parliamentary appropriations, which are based primarily on cash flow requirements. Items recognized in the statement of operations and the statement of deficit in one year may be funded through parliamentary appropriations in prior and future years. Accordingly, the CNSC has different net results of operations for the year on a government funding basis than on a Canadian generally accepted accounting principles basis. These differences are reconciled below.

## a) Reconciliation of net cost of operations to total parliamentary appropriations used

	2005	2004
Net cost of operations	\$32,043,802	\$34,324,650
Items not affecting appropriations:		
Amortization of capital assets	(481,056)	(408,792)
Vacation pay – accrual	(213,842)	(333,069)
Services provided without charge by other Government		
departments and agencies	(8,138,745)	(7,783,155)
Revenue (non respendable)	48,795,918	42,149,323
Change in employee severance benefits	(778,127)	(807,610)
Other expenses	(655,803)	(394,164)
	38,528,345	32,422,533
Items affecting appropriation:		
Capital asset acquisitions	2,394,201	571,212
Prepaids (excluding accountable advances)	214,039	262,707
	2,608,240	833,919
Total parliamentary appropriations used	\$73,180,387	\$67,581,102

## b) Reconciliation of parliamentary appropriations voted to total parliamentary appropriations used

	2005	2004
Parliamentary appropriations voted:		
Vote 20 - CNSC Operating expenditures	\$57,414,000	\$53,241,000
Supplementary Vote 20a	9,229,200	6,743,500
Supplementary Vote 20b	359,000	2,553,472
Transfer from Treasury Board Vote 10		120,000
Transfer from Treasury Board Vote 15	<u>1,015,000</u>	940,000
	68,017,200	63,597,972
Less: lapsed appropriation	2,425,660	3,026,176
	65,591,540	60,571,796
Statutory		
Spending of proceeds from disposal of surplus assets	1,035	9,981
Contributions to employee pension and non-pension benefit plans	7,587,812	6,999,325
Total parliamentary appropriations used	\$73,180,387	\$67,581,102

## c) Reconciliation of net cash provided by government to total parliamentary appropriations used

	2005	2004
Net cash provided by government	\$27,216,320	\$29,233,200
Revenue (non-respendable)	48,795,918	42,149,323
Net change in non-cash working capital balances charged to Vote	(2,873,894)	(3,920,615)
Refunds of prior years' expenditures	42,043	119,194
Total parliamentary appropriations used	\$73,180,387	\$67,581,102

## 4. Accounts Receivable

	2005	2004
Licence fees	\$4,233,803	\$2,218,096
Contract Project		377,630
Other	431,794	34,810
Net receivables	\$4,665,597	\$2,630,536

## 5. Capital Assets

		2004			
Capital asset class	Opening Balance	Additions (disposals) for the year	Accumulated Amortization	Net book value	Net book value
Informatics equipment and software	\$717,272	\$39,838	\$435,308	\$321,802	\$388,223
Motor vehicles	457,592	(13,079)	352,633	91,880	119,698
Furniture and equipment	1,415,794	2,305,941	826,394	2,895,341	887,957
Total	\$2,590,658	\$2,332,700	\$1,614,335	\$3,309,023	\$1,395,878

Amortization for the current year amounts to \$481,056 (2004 - \$408,792) and is included in other expenses on the statement of operations.

## 6. Deferred Revenue

Generally, licence fees are paid in advance of the fee period. Since revenue is recognized over the duration of the fee period, fees received for future year licence periods are recorded as deferred revenue.

	2005	2004
Balance at beginning of year	\$6,445,602	\$10,210,591
Less: revenue included in licence fees in the year	(6,403,401)	(9,163,830)
Add: fees received in the year for future year licence periods	4,902,486	5,398,841
Balance at end of year	\$4,944,687	\$6,445,602

## 7. Summary of Expenditures and Revenues by Cost Recovery Fee Category

	Revenue	Licences Provided Free of Charge (Note 10)	2005 Total Value of Licences and Other Revenue	2004 Total Value of Licences and Other Revenue	2005 Cost of Operations	2004 Cost of Operations
Licensing, Certification & Compliance Regulatory Plan Activity Fees						
Power reactors	\$29,900,355	\$	\$29,900,355	\$26,428,275	\$33,690,541	\$32,148,743
Non-power reactors	930,285	375,084	1,305,369	1,142,648	1,474,702	1,415,411
Nuclear research & test establishments	3,002,441		3,002,441	1,580,560	3,383,063	1,937,790
Particle accelerators		344,147	344,147	227,702	339,091	385,724
Uranium processing facilities	1,543,800		1,543,800	923,614	1,739,493	1,113,162
Nuclear substance processing facilities	272,577		272,577	430,034	310,008	581,857
Heavy water plants	11,774		11,774	133,426	13,266	112,698
Radioactive waste facilities	993,807		993,807	896,937	1,119,782	1,251,051
Fusion facilities				9,387		10,366
Uranium mines & mills	3,799,696	124,314	3,924,010	3,136,572	4,453,525	3,914,313
Waste nuclear substance licences	155,074	361,744	516,818	427,665	579,801	489,984
Total Regulatory Plan Activity Fees	40,609,809	1,205,289	41,815,098	35,336,820	47,103,272	43,361,099
Formula Fees						
Nuclear substances	3,141,773	3,876,512	7,018,285	5,924,507	7,560,905	7,321,967
Class II nuclear facilities	191,680	1,826,446	2,018,126	1,736,311	2,486,997	2,070,465
Dosimetry services	46,252	2,797	49,049	90,837	693,913	537,046
Total Formula Fees	3,379,705	5,705,755	9,085,460	7,751,655	10,741,815	9,929,478

[ m. 1 m. ]	1					
Fixed Fees						
Transport licences and						
transport package	122 505		122 505	204 (22	421.250	602.010
certificates	132,505		132,505	294,633	431,250	692,018
Radiation device and						
prescribed equipment	04.600	4.5.550	100.250	1.50.21.5	252 121	1 - 5 - 5 - 5
certificates	91,600	16,650	108,250	168,316	272,134	167,756
Exposure device operator	02.450		02.450	20.100	12.210	120 100
certificates	82,450		82,450	39,100	43,310	138,198
Total Fixed Fees	306,555	16,650	323,205	502,049	746,694	997,972
Total Tixed Tees	200,222	10,020	525,205	202,019	7-10,05-1	<i>331,312</i>
<u>l</u>		L	L			
Total Licensing,						
Certification &	44,296,069	6,927,694	51,223,763	43,590,524	58,591,781	54,288,549
Compliance						
Non-Licensing and Non-						
Certification						
Co-operation						
undertakings	10,143		10,143		12,243,854	11,162,148
Stakeholder relations					4,812,991	6,051,862
Regulatory framework					521,812	894,826
Special projects, other					321,012	074,020
revenue and related						
expenses	4,489,706		4,489,706	4,139,119	4,669,282	4,076,588
Total Non-Licensing and	.,,		.,,,,,,,	.,,	.,557,202	.,0,0,000
Non-Certification	4,499,849		4,499,849	4,139,119	22,247,939	22,185,424
			, ,	, ,	, ,	, ,
Total	\$48,795,918	\$6,927,694	\$55,723,612	\$47,729,643	\$80,839,720	\$76,473,973

## 8. Related Party Transactions

The CNSC is related in terms of common ownership to all Government of Canada departments, agencies, and Crown corporations. The CNSC enters into transactions with these entities in the normal course of business. Certain of these transactions are on normal trade terms applicable to all individuals and enterprises, while others are services provided without charge to the CNSC. All material related party transactions are disclosed below.

During the year, the CNSC expensed \$18,547,219 (2004 - \$17,025,131) which include services provided without charge of \$8,138,745 (2004 - \$7,783,155) as described in Note 9. The CNSC recognized revenue of \$4,072,168 (2004 - \$7,508,925) which include accounts receivables in the amount of \$774,719 (2004 - \$745,842).

### 9. Services Provided Without Charge

During the year, the CNSC received services that were obtained without charge from other government departments and agencies. These are recorded at their estimated fair value in the financial statements as follows:

	2005	2004
Accommodation provided by Public Works and		
Government Services Canada	\$4,473,762	\$4,149,585
Contributions for employer's share of employee benefits		
provided by the Treasury Board Secretariat	3,398,459	3,232,418
Salary and associated costs of legal services provided by		
Justice Canada	171,000	207,996
Audit services provided by the Office of the Auditor		
General of Canada	63,524	106,221
Other	32,000	86,935
	\$8,138,745	\$7,783,155

## 10. Licences Provided Free of Charge by the CNSC

The CNSC provides licences free of charge to educational institutions; not-for-profit research institutions wholly owned by educational institutions; publicly funded health care institutions, not-for-profit emergency response organizations; and federal departments. The total of these licences amounted to \$6,927,694 (2004 - \$5,580,320).

### 11. Commitments and Contingencies

## a) Commitments

The nature of the CNSC's activities results in some multi-year contracts and obligations whereby the CNSC will be committed to make some future payments when the services and goods are received. These commitments are subject to there being an appropriation by Parliament for the fiscal year in which the payment is made and the CNSC has the right to terminate these commitments. As of March 31, 2005 the CNSC has future years contractual obligations for the following:

	2006	2007	2008	2009 and thereafter
Acquisitions of goods and services	\$7,616,896	\$16,833	\$	\$
Operating leases	113,432	93,786	93,216	8,510
Total	\$7,730,328	\$110,619	\$93,216	\$8,510

## b) Contingencies

Claims have been made against the CNSC in the normal course of operations. Legal proceedings for claims totaling approximately \$55,250,000 (2004 - \$55,250,000) were still pending at March 31, 2005. The final outcome is presently not determinable and, accordingly, no provision has been recorded in the accounts for these contingent liabilities. Settlements, if any, resulting from the resolution of these claims will be accounted for in the year in which the liability is considered likely and the cost can be reasonably estimated.

## 12. Employee Future Benefits

#### a) Pension Benefits

The CNSC and all eligible employees contribute to the Public Service Pension Plan. This pension plan provides benefits based on years of service and average earnings at retirement. The benefits are fully indexed to the increase in the Consumer Price Index. The employer's and employees' contributions to the plan were as follows:

	2005	2004
CNSC's contributions Employees' contributions	\$5,561,867 \$2,269,595	\$4,983,519 \$2,141,052

## b) Employee Severance Benefits

The CNSC provides severance benefits to its employees based on years of service and final salary. This benefit plan is not pre-funded and thus has no assets, resulting in a plan deficit equal to the accrued benefit obligation. Benefits will be paid from future appropriations. Information about the plan, measured as at the statement of financial position date is as follows:

	2005	2004
Accrued benefit obligation, beginning of year Cost for the year Benefits paid during the year	\$7,732,849 1,245,415 (467,288)	\$6,925,239 1,254,449 (446,839)
Accrued benefit obligation, end of year	\$8,510,976	\$7,732,849

## 13. Nuclear Liability Reinsurance Account

Under the *Nuclear Liability Act* (NLA), operators of designated nuclear installations are required to possess basic and/or supplementary insurance of \$75 million per installation for specified liabilities. The federal government has designated the Nuclear Insurance Association of Canada (NIAC) as the sole provider of third party liability insurance and property insurance for the nuclear industry in Canada. NIAC provides insurance to nuclear operators under a standard policy.

The policy consists of two types of coverage: Coverage A and Coverage B. Coverage A includes only those risks that are accepted by the insurer, that is, bodily injury and property damage. Coverage B risks include personal injury that is not bodily, for example psychological injury, damages arising from normal emissions and damage due to acts of terrorism. Effective in 2003, the federal government agreed to provide coverage for damage due to acts of terrorism which was previously provided under Coverage A.

NIAC receives premiums from operators for both coverages, however, premiums for Coverage B risks are remitted to the federal government which reinsures these risks under a Reinsurance Agreement between NIAC and the federal government. The federal government, through the Reinsurance Agreement also pays the difference (supplementary insurance) between the basic insurance amount set by the CNSC and the full \$75 million of liability imposed by the NLA. As of March 31, 2005 the total supplementary insurance coverage is \$584,500,000 (2004 - \$584,500,000).

All premiums paid by the operators of nuclear installations for the supplementary insurance coverage are credited to a Nuclear Liability Reinsurance Account in the Consolidated Revenue Fund. Premiums received in respect of coverage for damage due to acts of terrorism amount to \$140,523 (2004 - \$134,055). Claims against the supplementary insurance coverage are payable out of the Consolidated Revenue Fund and charged to the Account. There have been no claims against or payments out of the Account since its creation.

As explained in Note 2 j), the CNSC administers the Nuclear Liability Reinsurance Account on behalf of the Government of Canada through a specified purpose account consolidated in the Public Accounts of Canada. During the year, the following activity occurred in this account:

	2005	2004
Opening balance	\$690,476	\$554,921
Receipts deposited	142,323	135,555
Closing balance	\$832,799	\$690,476

## **SECTION IV – OTHER ITEMS OF INTEREST**

# Report Card on Nuclear Power Plant Performance as of January 2005

CNSC staff assesses licensee programs ("P") and their implementation ("I") separately, according to five ratings. As of January 2005, Pickering A Units 1, 2 and 3 remained fuelled and in a guaranteed shutdown state, and Unit 1 was undergoing restart work. Bruce A Units 1 and 2 remained defuelled and in a lay-up state.

Safety Area / Program	P or I	Bruce		Darling -ton	Pickering		Gentilly-2	Point Lepreau
		A	В		A	В		•
<b>Operating Performance</b>	P	В	В	В	В	В	В	В
	I	В	В	В	В	В	В	В
Organization & Plant	P	В	В	В	В	В	В	В
Management	I	В	В	В	В	С	В	В
Operations	P	В	В	В	В	В	В	В
	I	В	В	В	В	В	В	В
Occupational Health &	P	В	В	В	В	В	В	В
Safety (non-radiological)	I	В	В	В	В	В	В	В
Performance Assurance	P	В	В	В	В	В	С	В
	I	В	В	В	В	В	С	В
Quality Management	P	С	С	В	В	В	В	В
	I	В	В	С	С	С	В	В
Human Factors	P	В	В	В	В	В	С	С
	I	В	В	В	В	В	С	С
Training, Examination,	P	В	В	В	В	В	С	В
and Certification	I	В	В	В	В	В	С	В
Design & Analysis	P	В	В	В	В	В	В	В
	I	В	В	В	В	С	В	В
Safety Analysis	P	В	В	В	В	В	В	В
	I	В	В	В	В	В	В	В
Safety Issues	P	В	В	В	В	В	В	В
	I	В	В	В	В	В	В	В
Design	P	В	В	В	В	В	В	С
	I	В	В	В	В	С	В	С
<b>Equipment Fitness</b>	P	В	В	В	В	В	В	В
for Service	I	В	В	В	В	В	В	С
Maintenance	P	В	В	В	В	В	В	В
	I	В	В	В	В	С	В	В
Structural Integrity	P	В	В	В	В	В	В	С
	I	В	В	В	В	В	В	С

Safety Area / Program	P or I	Bruce		Darling -ton	Pickering		Gentilly-2	Point Lepreau
		A	В		A	В		_
Reliability	P	В	В	В	В	В	В	В
	I	В	В	В	В	В	В	В
Equipment Qualification	P	В	В	В	В	В	В	В
	I	В	В	С	В	В	В	С
Emergency	P	A	A	A	A	A	A	A
Preparedness	I	A	A	A	A	A	В	С
Environmental	P	В	В	В	В	В	В	В
Performance	I	В	В	В	В	В	В	В
Radiation Protection	P	В	В	В	В	В	В	В
	I	В	В	В	В	В	С	В
Site Security	P	Protected						
	I	Protected						
Safeguards	P	В	В	В	В	В	В	В
	I	В	В	В	В	В	В	В

## Legend:

A = Exceeds requirements

B = Meets requirements

C = Below requirements

D = Significantly below requirements

E = Unacceptable

## **Information Sources**

## For further information or to request publications, contact:

Canadian Nuclear Safety Commission Office of Communications and Regulatory Affairs 280 Slater Street, P.O. Box 1046, Station B Ottawa, Ontario K1P 5S9

Telephone: (613) 995-5894 or 1-800-668-5284 (within Canada) Fax: (613) 995-5086

e-mail: info@ccsn-ccsn.gc.ca

**The following information** is available on the CNSC Web site at www.nuclearsafety.gc.ca

## Information on the plans, priorities, and activities of the CNSC may be found in:

Canadian Nuclear Safety Commission, *Annual Report*Canadian Nuclear Safety Commission, *Report on Plans and Priorities*Canadian Nuclear Safety Commission, *Departmental Performance Report* 

## The CNSC administers the following Acts and associated regulations:

Nuclear Safety and Control Act, 1997, c.9 Nuclear Liability Act, 1985, c. N-28

**For further information** you may also consult the CNSC Web site at <a href="https://www.nuclearsafety.gc.ca">www.nuclearsafety.gc.ca</a>

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