



Benchmark and gap analysis of safety management nuclear regulation for the Canadian Nuclear Safety Commission (CNSC)

The Canadian Nuclear Safety Commission (CNSC) is the nuclear regulatory authority of Canada with a mandate to protect the health, safety and security of Canadians as well as the environment from nuclear harm as well as ensuring that Canada respects its international commitments for the peaceful use of nuclear energy.

Services:

ISR was selected by the CNSC to benchmark the agency against other nuclear regulators with respect to Safety management regulations. The project included:

- Review and assessment of the current CNSC regulatory framework for references to the management of safety. This included a review of materials such as the Nuclear Safety and Control Act, CNSC regulations, the CNSC Regulatory Document (RD), Guides (G), Standard (S) and Policies (P) series and other documentation such as Canadian Standards Association standards (e.g. CSA N286.95 and CSA 286-05).
- Review and assessment of other regulatory agencies worldwide with respect to the implementation of safety management regulation. This included a review of the nuclear regulators for countries such as Spain, Finland, Sweden, UK and the US as well as other industries' regulators such as those for Civil Aviation (e.g. Transport Canada (TC) and the Federal Aviation Administration (FAA)).
- Review and Analysis of safety management regulation best practices and industry guidelines such as those published by the International Atomic Energy Association (IAEA) (e.g. GS-R-3), Western European Nuclear Regulators' Association (WENRA) and the National Energy Association (NEA).



From these tasks, the ISR team developed a comprehensive report detailing the status of the international nuclear community with respect to safety management. This report covered concepts such as management systems and safety culture. This was then related to the CNSC's regulatory framework and the Canadian nuclear industry at large.