

Code Consulting Services



Morrison Hershfield's team of code consultants have extensive experience in analyzing and applying the requirements of the National Building Code of Canada, Provincial Codes, International Building Code, NFPA 5000 and other building and fire Codes across North America and around the world. We have proven experience in providing innovative, cost effective design solutions to meet project goals and to meet the intent of the Codes and in negotiating with Authorities Having Jurisdiction.

- **Analyzing and Applying Building Codes for New Construction and Renovations**
- **Code Alternatives and Variances**
- **Developing Code Concepts for Design Projects**
- **Construction Review for Code Compliance**
- **Risk Assessment of Building and Operations**
- **Integrated Fire Protection Systems Concepts and Design**
- **Investigation and Support for Litigation**
- **Fire Modeling**

Our engineers take active roles in numerous Code and Standard writing organizations and committees, which helps in keeping them abreast of leading edge technologies and developments, as well as contributing their expertise to the committees.



West Block
Redevelopment,
Parliament Hill



Analysis of National
and Ontario Code
Provisions



Technical Training
Courses



Ontario Fire Code Part
4 Audit, Flammable
and Combustible
Liquids



Airport Facility Safety
Code Review





DND Modular Quarters Fire Modeling and Remediation

We were retained to apply advanced computational fire models to assess the life safety performance of 26 of DND's existing modular living quarters at bases across Canada. The project was initiated as a result of separate analysis which showed that the residential buildings were no longer being operated as dwelling units, creating conditions that were not compliant with applicable Codes. The project involved the application of Fire Dynamic Simulator and CFAST fire models to assess fire spread, smoke development, smoke spread, tenability conditions in egress stairs, and the effects of seven different remediation options including the installation of sprinkler protection, additional smoke detection, additional compartmentation, and new exit stairwells.



Ottawa International Airport, Phase I and II

We were retained to define the applicable Code and fire protection features for the design of the new passenger terminal for the Ottawa Airport. The project involved the design of a new terminal, ramp and apron features, and adjacent parking garage. Challenges included large transient occupant loads, security constraints and interconnected floor spaces. We were also retained by the Airport Authority to monitor the implementation of the design concept throughout the construction and commissioning phases. The Phase II expansion involved the addition of new gates, extension of the existing ground and hold room features and new airline lounges.



Victoria Memorial Museum Building, Ottawa

We were hired by the design team and the Canadian Museum of Nature as Code consultants for the expansion and complete redevelopment of this national heritage building in Ottawa. The project included the complete redevelopment of the central atrium and a new glass lantern feature, as well as redevelopment of all galleries and public spaces and the complete replacement and upgrading of all systems. The project allowed the integration of modern fire protection and life safety features in conjunction with seismic upgrades, environmental controls and new support spaces.