Ensuring safety, *protecting property*

Fire Protection Engineering / Buildings

Main Services

EMERGENCY PLANNING

- Fire safety plans
- Fire safety staff and occupant training
- Fire drill evaluations

FIRE PROTECTION ENGINEERING

- Fire and evacuation modelling
- Performance-based design
- Fire testing

BUILDING & FIRE CODE

- Plans review and codes consulting
- Pre-purchase/Due diligence audits
- Alternative solutions
- Building condition reports

FIRE PROTECTION SYSTEMS

- Fire alarm and voice communication system design
- Sprinkler and standpipe systems design
- Fire pump and fire protection water supply design
- Commissioning

OTHER MECHANICAL AND ELECTRICAL SPECIALTY SERVICES

- Fire protection
- Contract administration
- Food services
- IT systems
- Lighting studio
- Physical security

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01 / Canadian Museum of Nature, Ottawa, ON
02/ University of Ottawa, Advanced Research Complex Ottawa, ON
03 / Central Storage Facility, Library and Archives Canada, Gatineau, QC
04 / Thomas D'Arcy McGee Building, 90 Sparks Street Ottawa, ON

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Fire protection consulting from design through to construction

Safety of people and property is paramount. WSP's fire protection engineers offer comprehensive solutions to protect occupants and properties from the harmful and destructive effects of fire and smoke. Part science and technology, part psychology, part management and law, this field requires rigorous mastery of all aspects of emergency planning, fire protection engineering, security system design, building and fire codes.

By working with WSP, you are selecting a consultant that provides fire engineering solutions to many of Canada's leading architects, developers, engineers and planners. We work with clients at all stages of a project's life cycle, from conceptual to operational and our projects span sectors from government and commercial property development to mass transit and infrastructure.

WSP's fire protection engineering services include code consultancy, the development of comprehensive fire safety strategies, fire risk assessments and analysis, fire system design and specification, value engineering exercises and peer reviews. Using advanced computer modelling of fire, smoke, evacuation and structural response, we combine theoretical knowledge with practical application. This includes introducing complex fire engineering strategies where standard code requirements may present obstacles with respect to project vision, cost or function.

Why WSP?

WSP offers a complete suite of performance design solutions for fire protection in the built environment. Our solutions enable clients to meet the highest safety standards and satisfy their legal obligations, while also offering design flexibility and cost savings.

Up-to-the-minute knowledge in building and fire codes

Our services, expertise, and knowledge of relevant codes, standards and the regulatory process means we offer a complete set of solutions to meet today's standards. We understand the intent of applicable regulations, enabling us to provide solutions for innovative designs or complex existing conditions where compliance with the letter of the Code cannot be achieved. And, all of our services are delivered with a clear focus on the fundamental precepts of the industry: life safety, property protection and environmental stewardship.

Expert advice in fire protection engineering

WSP provides a wealth of resources to the specialized field of fire protection engineering. We have the scientific training and experience to provide simple solutions to seemingly complex problems. New provisions in Canadian building codes allow for innovative fire protection thinking and our hands-on experience ensures seamless execution of new ideas, products, and construction methods. WSP is optimally positioned to assist our clients with the implementation of their creative ideas by ensuring that fire safety is part of the answer.

In-depth expertise in fire alarm systems

Our design experts offer state-of-the-art technical knowledge in fire alarm and voice communication systems to safeguard your property and its occupants. When designing fire alarm systems, WSP keeps robust, fault-tolerant safety features, ease of maintenance, cost effectiveness, system growth and life cycle changes at the forefront to maximize the value on investment.

Security systems that affect egress

WSP has extensive experience in the integration of security systems that affect egress and fire alarm systems to achieve code compliant solutions. Working alongside our physical security group, we help owners and operators achieve the conflicting goals of access control and building code compliance for systems that affect building egress with our ability to navigate the sometimes complex process.

WSP™ is one of the world's leading professional services consulting firms. We are dedicated to our local communities and propelled by international brainpower. We are technical experts and strategic advisors including engineers, technicians, scientists, project managers, planners, surveyors and environmental specialists, as well as other design and program management professionals. We design and deliver lasting solutions in the Buildings, Transportation, Infrastructure, Environment, Geomatics, Energy, Resources and Industry sectors as well as project delivery and strategic consulting services. With over 8,000 talented people across Canada and 42,000 globally, we engineer projects that will help societies grow for generations to come.

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