

# INDUSTRIAL SAFETY

## Pre-Start Health + Safety Reviews (PHSR/PSR)

JNE Consulting has extensive expertise in completing Pre-Start Health & Safety Reviews (PHSR/PSR/PSHSR) as required by Section 7 of O.Reg 851. Our team has personally completed over 2,000 application reviews ranging from stamping presses, pharmaceutical application, injection molding & die casting machines, robot cells, industrial ovens, food, dairy, bread and confectionary preparation, metal cutting and specialty equipment reviews.

## Purchasing Specifications

We work with your purchasing department, contract group or potential vendors directly to clearly identify and state what specific applicable Canadian, US, or International Standards new equipment being manufactured or upgraded must meet to satisfy the clients' contractual requirements for equipment/process safety. A failure on the vendor's end to satisfy the purchase specification is a potential breach of the contract.

## Fire Code Consulting

The Ontario Fire Code outlines the minimum requirements that the owner of an existing building is responsible for carrying out. JNE Consulting provides Fire Code inspections to review and comment on compliance with the provisions of the Fire Code for the purposes of due diligence, pre-lease/pre-purchase, building renovation, etc.

The intent of these inspections is to identify areas or components of an existing building that are required to be upgraded or repaired in order to maintain what is deemed the minimum level of safety for occupants. Such items of concern include fire separations/compartments, means of egress/access to exits, fire alarms, and fire suppression systems.



## Design Reviews

Similar to a Pre-Start Health & Safety Review in concept, but done at the "paper" or preliminary design stage, in essence, the Design Review identifies potential non-compliances before the designs are finalized and released for manufacture. Design Reviews focus on physical and interlocked guarding and protective systems. When timelines can afford it, the Design Review is a very effective tool at uncovering and mitigating non-compliances before equipment or processes are built or specified.

## Hazardous Area Classifications

Normally required and tied into PHSR/PSR Triggers #1, 4, 5 and 6, hazardous area classifications are also specified as a Regulatory compliance requirement in the Ontario Electrical Safety Code and referenced in the Ontario Fire Code. JNE Consulting has completed many classifications for flammable gas and liquid applications, explosive dust atmospheres and hybrid (flammable gas/liquid and dust) applications.

## Hazardous Process/Complex Risk Reviews

These applications require special consideration to safeguard workers' lives and physical property. They are normally "complex" in nature, meaning that not only a single large risk is to be evaluated and mitigated properly; multiple contributing factors could excite that risk, leading to loss. Furthermore, in these special cases, multiple legislative requirements overlap or compete for compliance dominance.

JNE Consulting specializes in analyzing these hazards with respect to Ontario Building Code, Electrical Code, Fire Code (specifically Parts 4 & 5), Ontario Occupational Health and Safety Act (OHSA) and various National Fire Protection Association and other recognized industry standards deemed "good engineering practice". Hazardous processes reviewed include:

- Flammable Liquids Dispensing;
- Spray Booths & Paint Kitchens;
- Explosive Material Processes;
- Dust Collectors;
- Roll Coating Applications;
- Solvent Wash Down/Dip Tanks

## Risk Engineering & Analysis

Risk engineering is the discipline of applying well founded scientific analyses and practices to the recognition and qualification of a risk or group of risks aiding in a selection process or decision. Risk analysis is the evaluation and mitigation of the selected risk prior to its implementation.

Working closely with our clients as the pre-selection stage for equipment and process evaluation, we have added value to the selection process through our knowledge and understanding of the associated machinery and process risks as they relate to Regulatory, Code and Standards compliance. Typical studies completed at the risk engineering stage include:

- Facility Descriptions;
- Process Compliance Specifications;
- Safety Management Protocols; and,
- Safety Assessment Measures

## Confined Space Assessments

In 2005 the definition of a “confined space” was reviewed and revised in Ontario. Under O.Reg. 632/05, the revised confined space definition changed a number of the existing Regulations already referencing confined spaces. Using the Ministry of Labour “Confined Space Guidelines”, JNE Consulting has helped many organizations assess their current “confined spaces” for revised compliance.

## Accident/Fatality Investigation

When the worst happens at an industrial facility or construction site, the post loss environment presents a myriad of challenges for any organization to deal with. JNE Consulting can provide immediate site response, control and collection of over-time sensitive data and evidence collection and preservation. We have helped clients respond to MOL Orders, and other stakeholders while investigations are ongoing.

JNE Consulting’s disciplined and practical approach to accident investigation is essential in establishing the foundation of a complete accident/fatality investigation. Furthermore, an in-depth understanding of the Occupational Health and Safety Act (OHSA), the internal responsibility system and due diligence is also mandatory in understanding exposure issues and completing concise and effective reporting regimes.

JNE Consulting works closely with clients’ internal investigation teams and has become a trusted source, completing numerous accident/fatality investigations in the industrial and construction sector.

## Compliance/Regulatory Assessments

Regulatory compliance is not an option, it is the law. Whether it be Fire Code considerations because of the addition of a hazardous process or an OHSA review due to a major upgrade within the plant, the potential cost of unrecognized and unmitigated risks today is too great. JNE Consulting has successfully completed many single scope/multiple scope audits (i.e. Fire Code, OHSA, Electrical Code, Building Code, etc.). A Trigger #1, 4, 5 & 6 PHSR/PSR would be considered incomplete without a Regulatory assessment being completed as part of the overall Regulatory review.



## Ministry of Labour Order Compliance Reporting

When an employee complains, or the Ministry of Labour completes an inspection and Orders are issued, a competent interpretation of the Orders is required. The complexity or Order compliance reporting depends on what exactly the Ministry of Labour has asked. JNE Consulting has successfully been retained by many clients not only as the “knowledgeable person” or “engineer” the MOL requires, but has acted as the client’s liaison with the MOL on the technical/engineering/Regulatory aspects of the Orders.

## Expert Witness/Litigation Support

JNE Consulting has providing consultation and support services to lawyers regarding current and pending cases. The range of support litigation services provided has varied, and is tailored to the needs of counsel and the case specifics. Typically, these services have ranged from:

- Research and documentation of facts;
- Determination of Regulatory compliance;
- Reporting; and,
- Providing testimony at trial.

