

APPENDIX A

The [Safety Standards Amendment Act](#) came into force on Nov. 7, 2016 and has resulted in changes to the administration of regulatory authority and processes by the BC Oil and Gas Commission (Commission) and the [BC Safety Authority \(BCSA\)](#). Changes to regulatory processes are provided below.

The BCSA continues to regulate the following appliances/equipment at an oil and gas facility:

- a. Pressure vessels under ASME Boiler and Pressure Vessel Code Section VIII.
- b. Power boilers under ASME Boiler and Pressure Vessel Code Section I.
- c. Heating boilers under ASME Boiler and Pressure Vessel Code Section IV.

Commission Regulated Versus BCSA Regulated Pressure Piping Within an Oil and Gas Facility

Commission: responsible for all pressure piping associated with the gathering, processing, measuring, storing, or disposing the oil and gas facility feed. With respect to utility system pressure piping, the Commission regulates all systems (e.g. instrument air, plant air, demin water, nitrogen, fuel gas, steam, heat transfer fluids) with the following exceptions:

- a. Pressure piping associated with occupied buildings (e.g. fuel gas for space heating).
- b. Pressure piping associated with a boiler that is regulated by the BCSA.

BCSA: responsible for pressure piping at an oil and gas facility associated with occupied buildings and with boilers as defined in the Safety Standards Act (i.e. ASME Boiler and Pressure Vessel Code Sections I and IV). Pressure piping associated with a boiler includes:

- a. The fuel system elements (e.g. piping and valves) that regulate, burn and exhaust combustible fuels; the following subsystems are included, as applicable:
 - i. fuel supply,
 - ii. combustion air supply,
 - iii. fuel burning,
 - iv. ignition,
 - v. combustion products removal,
 - vi. control,
 - vii. interlock; and
- b. the heat transfer fluid piping to and from the boiler defined as external piping under the jurisdiction of ASME Boiler Pressure Vessel Code Section I (ASME Code Certification is required for this piping including Data Forms and Code Symbol Stamping).

While boilers and boiler systems fall within the jurisdiction of the BCSA, there is a point at which the fuel supply system starts; this point is the jurisdiction transfer point from the Commission to the BCSA. This jurisdiction transfer point will be at the first circumferential joint for welding end connections, the face of the first flange in bolted flanged connections, or the first threaded joint in that type of connection upstream of the shutoff valve. A diagram showing a fuel supply system is provided for clarity (see figure 1).

The jurisdiction transfer points for the heat transfer medium coincide with the jurisdiction transfer points for the ASME Boiler and Pressure Vessel Code Sections I and IV (e.g. the first circumferential joint for welding end connections, or the face of the first flange in bolted flanged connections, or the first threaded joint in that type of connection; and which extends up to and including the valve or valves required by the Code).

Refrigeration Systems and Equipment

Commission: responsible for process refrigeration; specifically systems and equipment used to produce LNG but would also apply to other oil and gas facilities with process refrigeration (e.g. deep cut facilities). The permit holder of a oil and gas facility will be required to demonstrate that operators are competent (i.e. trained, qualified and experienced) in the operation of a process refrigeration system. For example, at an LNG facility, the permit holder would need to demonstrate that the requirements of CSA Z276 Clause 13.5 and the LNG facility's Safety and Loss Management Program are met.

BCSA: responsible for environmental refrigeration (e.g. air conditioning on a control room) and pressure vessels contained within the refrigeration process (e.g. if the main cryogenic heat exchanger is a pressure vessel under ASME Boiler and Pressure Vessel Code Section VIII).

Design Registration Process

If required by the selected design standard (e.g. CSA B51), design registrations for Commission regulated elements (e.g. fittings) will be reviewed and administered by the BCSA. In these cases, compliance with design registration requirements will fall to the Commission.

Elevating Devices and Passenger Conveyors

BCSA is responsible for any apparatus, mechanism or device that is installed or positioned for the purpose of raising, lowering, moving, carrying, conveying or directing persons, materials or goods. Depending on the type of device, permits may or may not be required for the installation or operation of these devices.

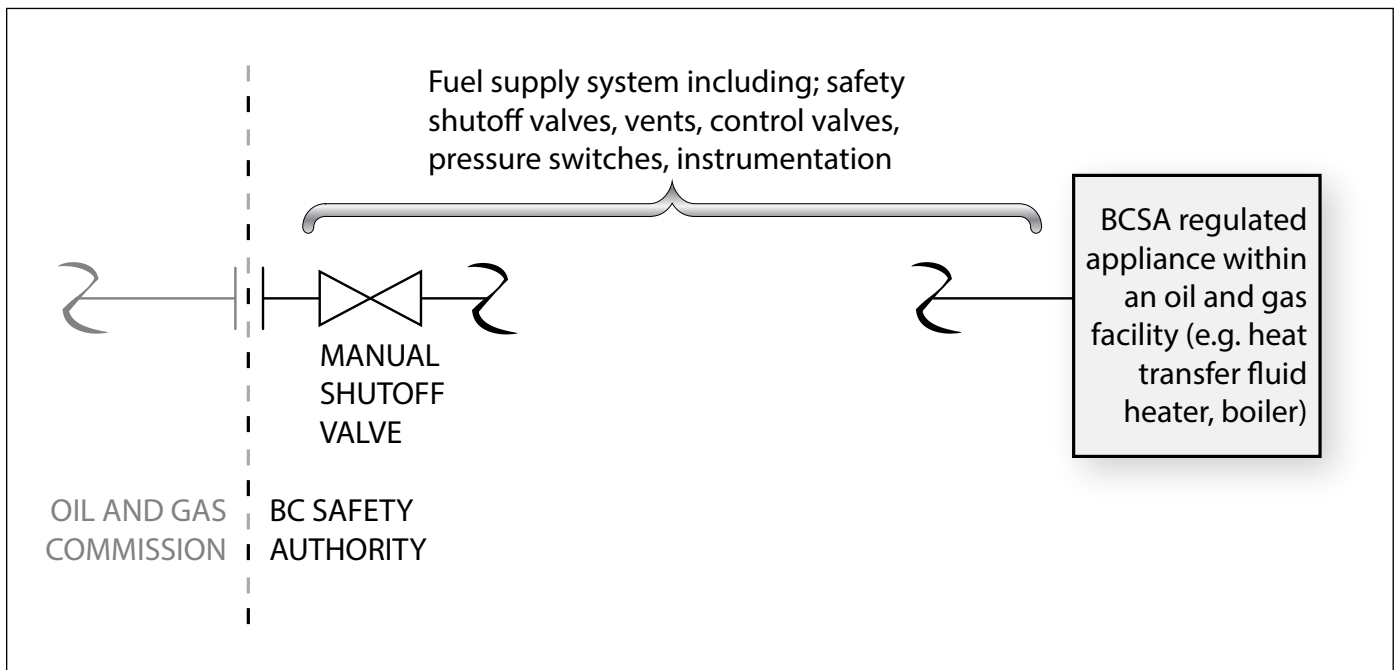
Passenger Ropeways

Passenger ropeways are a special type of passenger conveyor that uses a flexible haul rope to move people (e.g. cable car). While these devices are not normally found in oil and gas facilities, they are used during construction of pipelines (e.g. river crossings) and other similar situations. Passenger ropeways are administered by BCSA.

BCSA Safety Management Plans (SMP), and Commission Safety and Loss Management Program (SLMP)

SMPs and SLMPs are complementary and can be tailored to accommodate both agencies' requirements through a single document. SMPs are part of the Alternative Safety Approaches (ASA) regulation under the Safety Standards Act. An Alternative Safety Approach requires proponents to engage with the BCSA at a much earlier stage of the project with regard to the SMP, as early as pre-FEED depending on whether applying for design variance or operations variance. Whereas the Commission does not require a SLMP until the construction phase; prior to requesting a leave to operate. Despite the timing difference, both agencies recommend tripartite engagement at all stages of the project to ensure a seamless approach to the development and implementation of the SMP and SLMP. It is also recommended the oil and gas facility combine both agencies' requirements into one plan/program to aid implementation and increase effectiveness.

Figure 1: Fuel Supply System - Jurisdiction transfer point between the Commission and the BCSA.



Link: BCSA and Commission [Memorandum of Understanding](#)