

Field Approvals, Permits and Variances

This bulletin has been developed to inform owners, designers, engineers, vendors, builders, installers, contractors, equipment rental and leasing companies of the minimum requirements to ensure safe installation of gas appliances in Alberta. Under the Safety Codes Act and Regulations it is the responsibility of the above parties to ensure that the design, installation and operation of equipment comply with the specified Acts and Regulations.

Oil and Gas Industry

ITEM	SCOPE	PRESSURE - psig(kPag)	ACT	DESIGN CODE	REGISTRATION	GAS FIELD APPROVAL	GAS PERMIT REQUIRED	GAS VARIANCE REQUIRED
1	Process gas piping	≥ 15(103)	Safety Codes Act	ASME B31.3	ABSA	N/A	NO	NO
2	Fuel/process gas piping supplying gas to fuel burning equipment	≥ 15(103)	Safety Codes Act	ASME B31.3	ABSA	N/A	NO	NO
3	Fuel/process gas piping supplying gas to fuel burning equipment	< 15(103)	Safety Codes Act	ASME B31.3	N/A	N/A	NO	NO
4	New fuel gas piping	≤ 66 (455)	Safety Codes Act	CSA B149.1 CSA B149.2	N/A	N/A	YES	NO
5	Existing fuel gas piping	≤ 66 (455)	Safety Codes Act	CSA B149.1 CSA B149.2	N/A	N/A	NO	NO
6	New fuel gas piping	> 66 (455)	Safety Codes Act	B149.1 and Engineering	N/A	N/A	YES	NO
	New fuel gas piping in a building	> 66 (455)	Safety Codes Act		N/A	N/A	YES	NO
7	Existing fuel gas piping	> 66 (455))	Safety Codes Act		N/A	N/A	NO	NO
	Existing fuel gas piping in a building	> 66 (455)	Safety Codes Act		N/A	N/A	NO	NO
8	New uncertified fuel gas equipment and appliance	ANY	Safety Codes Act	CSA B149.1 CSA B149.2 CSA B149.3	N/A	CB	NO	NO
						IB	NO	NO
						P.Eng.	YES	YES
9	Existing uncertified fuel gas equipment and appliance modification, upgrade or relocation	ANY	Safety Codes Act	CSA B149.1 CSA B149.2 CSA B149.3	N/A	CB	NO	NO
						IB	NO	NO
						P.Eng.	YES	YES
10	Certified fuel gas equipment and appliance installation or relocation	ANY	Safety Codes Act	CSA B149.1 CSA B149.2	N/A	N/A	YES	NO
11	Existing certified fuel gas equipment and appliance modification or upgrade	ANY	Safety Codes Act	CSA B149.1 CSA B149.2 CSA B149.3	N/A	CB	NO	NO
						IB	NO	NO
						P.Eng.	YES	YES

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For more information, please call Municipal Affairs, Safety Services at
1-866-421-6929 or visit www.municipalaffairs.alberta.ca.

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Gas Distribution Utilities

ITEM	SCOPE	PRESSURE - psig(kPag)	ACT	DESIGN CODE	REGISTRATION	GAS FIELD APPROVAL	GAS PERMIT REQUIRED	GAS VARIANCE REQUIRED
1	Power piping	≥ 15(103)	Gas Distribution Act Rural Utilities Act	ASME B31.1	ABSA	N/A	NO	NO
2	Fuel/process gas piping supplying gas to fuel burning equipment	≥ 15(103)	Gas Distribution Act Rural Utilities Act	ASME B31.3	ABSA	N/A	NO	NO
3	Fuel/process gas piping supplying gas to fuel burning equipment	< 15(103)	Gas Distribution Act Rural Utilities Act	ASME B31.3	N/A	N/A	NO	NO
4	New fuel gas piping	≤ 66 (455)	Gas Distribution Act Rural Utilities Act	CSA B149.1 CSA B149.2	N/A	CB	NO	NO
						IB	NO	NO
5	Existing fuel gas piping	≤ 66 (455)	Gas Distribution Act Rural Utilities Act	CSA B149.1 CSA B149.2	N/A	CB	NO	NO
						IB	NO	NO
6	New fuel gas piping	> 66 (455)	Gas Distribution Act Rural Utilities Act	CSA B149.1 CSA B149.2	N/A	CB	NO	NO
						IB	NO	NO
7	Existing fuel gas piping	> 66 (455)	Gas Distribution Act Rural Utilities Act	CSA B149.1 CSA B149.2	N/A	CB	NO	NO
						IB	NO	NO
8	New uncertified fuel gas equipment and appliance	ANY	Gas Distribution Act Rural Utilities Act	CSA B149.1 CSA B149.2 CSA B149.3	N/A	CB	NO	NO
						IB	NO	NO
9	Existing uncertified fuel gas equipment and appliance modification, upgrade or relocation	ANY	Gas Distribution Act Rural Utilities Act	CSA B149.1 CSA B149.2 CSA B149.3	N/A	CB	NO	NO
						IB	NO	NO
10	Certified fuel gas equipment and appliance installation or relocation	ANY	Gas Distribution Act Rural Utilities Act	CSA B149.1 CSA B149.2	N/A	N/A	NO	NO
11	Existing certified fuel gas equipment and appliance modification or upgrade	ANY	Gas Distribution Act Rural Utilities Act	CSA B149.1 CSA B149.2 CSA B149.3	N/A	CB	NO	NO
						IB	NO	NO

Other Industrial and Commercial Users

ITEM	SCOPE	PRESSURE - psig(kPag)	ACT	DESIGN CODE	REGISTRATION	GAS FIELD APPROVAL	GAS PERMIT REQUIRED	GAS VARIANCE REQUIRED
1	Process piping	≥ 15(103)	Safety Codes Act	ASME B31.3	ABSA	N/A	NO	NO
2	Fuel/process gas piping supplying gas to fuel burning equipment	≥ 15(103)	Safety Codes Act	ASME B31.3	ABSA	N/A	NO	NO
3	Fuel/process gas piping supplying gas to fuel burning equipment	< 15(103)	Safety Codes Act	ASME B31.3	N/A	N/A	NO	NO
4	New fuel gas piping	≤ 66 (455)	Safety Codes Act	CSA B149.1 CSA B149.2	N/A	N/A	YES	NO
5	Existing fuel gas piping	≤ 66 (455)	Safety Codes Act	CSA B149.1 CSA B149.2	N/A	N/A	NO	NO

6	New fuel gas piping	> 66 (455)	Safety Codes Act	B149.1 and Engineering STANDATA G-02-13	N/A	N/A	YES	NO
7	Existing fuel gas piping	> 66 (455)	Safety Codes Act	B149.1 and Engineering STANDATA G-02-13	N/A	N/A	NO	NO
8	New uncertified fuel gas equipment and appliance	ANY	Safety Codes Act	CSA B149.1 CSA B149.2 CSA B149.3	N/A	CB	NO	NO
						IB	NO	NO
9	Existing uncertified fuel gas equipment and appliance modification, upgrade or relocation	ANY	Safety Codes Act	CSA B149.1 CSA B149.2 CSA B149.3	N/A	CB	NO	NO
						IB	NO	NO
10	Certified fuel gas equipment and appliance installation or relocation	ANY	Safety Codes Act	CSA B149.1 CSA B149.2	N/A	N/A	YES	NO
11	Existing certified fuel gas equipment and appliance modification or upgrade	ANY	Safety Codes Act	CSA B149.1 CSA B149.2 CSA B149.3	N/A	CB	NO	NO
						IB	NO	NO

Pathways to Compliance

Certification Body	A Certification Body (CB), accredited by the Standards Council of Canada, may test and certify any appliance or equipment related to gas systems for which there is a recognized standard. CB's can also perform a special inspection and approval in the field for uncertified gas appliances and equipment. A special inspection is not intended to be used as a means to accept appliances and equipment when certified products of similar type are available. A field approval label attached by the CB will not allow the appliance or equipment to be moved to another location. A special inspection label will allow relocation. A gas permit is required for the installation of the appliance or equipment through the AHJ. A permit is not required for the uncertified appliance portion of the system that is within the scope of the CB. http://municipalaffairs.gov.ab.ca/documents/ss/STANDATA/gas/G-02-01a-Aug2013.pdf
Inspection Body	An Inspection Body (IB), accredited by the Standards Council of Canada, may inspect and accept one-of-a-kind and site specific installations only. Appliances and equipment of this type will need a third party Inspection Body for testing and approval every time it is installed or relocated. A gas permit is required for the installation of the appliance or equipment through the AHJ. A permit is not required for the uncertified appliance portion of the system that is within the scope of the CB. http://municipalaffairs.gov.ab.ca/documents/ss/STANDATA/gas/G-02-01a-Aug2013.pdf
Variance	This variance allows for a third party inspection and acceptance of uncertified gas-fired process equipment by a professional engineer and shall comply with existing gas codes and standards. These site-specific installations require a gas permit and an inspection by a local Safety Codes Officer in the gas discipline for any alterations, extensions, additions or installations of gas-fired appliances. This Variance applies to site-specific installations only and will expire as of July 1, 2015. A permit is required for the uncertified appliance portion of the system that is within the scope of the Variance. http://municipalaffairs.gov.ab.ca/documents/ss/STANDATA/gas/Var-G01-13.pdf
Existing Equipment	All existing appliances, piping and equipment that were installed without the required permit will require compliance to current codes, a gas permit through the local Authority Having Jurisdiction (AHJ) and an inspection by a Safety Codes Officer in the gas discipline. Appliances and equipment that were exempted from the code, such as petroleum refineries and chemical plants or that were installed under a properly utilized province wide variance will not require a permit.

Permits can be obtained through the Authority Having Jurisdiction. To determine who the AHJ may be, go to www.municipalaffairs.alberta.ca/cp_permit_information_search.cfm.