



INFORMATION BULLETIN

ELECTRICAL BONDING REQUIREMENTS FOR GAS PIPING OR TUBING SYSTEMS

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Topic

CSA B149.1-15 Natural Gas and Propane Installation Code (B149.1) clause 4.7.3 requires that interior metal gas piping or tubing that may become energized shall be made electrically continuous and shall be bonded in accordance with Canadian Electrical Code, Part I. requirements (BC Electrical Code).

Important Information

The requirement to provide an electrical bond between interior metal piping and the building electrical grounding system was introduced in the 1975 edition of the Canadian Electrical Code. BC Electrical Code rule 10-406 defines the current bonding requirements.

The purpose of bonding interior metal piping to the building grounding system is to provide a safe electrical path to ground should the metal piping become electrically energized. This safety requirement is intended to protect the system user from shock and the gas piping system from damage.

Cases have been reported that corrugated stainless steel tubing (CSST) has been damaged during lightning storms due to inadequate electrical bonding to ground. This has resulted in the dangerous release of gas. It is the responsibility of licensed gas contractors and homeowners to ensure that a licensed electrical contractor performs this regulated work.

A handwritten signature in black ink that reads "Brad Wyatt".

Brad Wyatt
Provincial Safety Manager - Gas

References:

Gas Safety Regulation
CSA B149.1 - Natural gas and propane installation code
BC Electrical Code

For more information about British Columbia Safety Authority, please visit our website at:
www.safetyauthority.ca