Appendix A

Additional Boiler Vent Failures

TECHNICAL SAFETY BC

Additional Boiler Vent Failures

The incident was originally investigated in 2021 and an incident summary report was previously published.https¿ ~~w~~www¡technicalsafetybc¡ca ~~re~~gulatory_resources ~~in~~cident_investigations ~~ca~~rbon_monoxide_exposure_residential_building. In addition to this incident, Technical Safety BC has received numerous additional notifications beginning in 2020 involving CO releases into occupied spaces – including schools, residences, and care homes. These incidents were linked to delayed ignition events that caused venting components on wall-mounted boilers certified to the CSA 4.9 standard to become dislodged. The incidents were not limited to a specific boiler manufacturer or certification body. Some of the investigated incidents resulted in published incident summary reports.

Incident #	Year	Vent type/material	Incident Report
1	2020	CPVC	Carbon-monoxide-was-released-from-boilers-into-the-mechanical-room-of-a-school
2	2021	Polypropylene	Carbon-monoxide-exposure-residential-building
3	2021	Polypropylene	Products-of-combustion-exhausted-into-dwelling
4	2021	Polypropylene	Carbon-monoxide-exposure-multi-unit-care-home
5	2022	CPVC	CO-released-into-boiler-room

6	2023	CPVC	None
7	2023	Polypropylene	Delayed-ignition-causes-damage-to-boiler-and-venting
8	2023	Polypropylene	None
9	2024	Polypropylene	Dislodged-boiler-venting-system-releases-carbon-monoxide
10	2024	Polypropylene	None
11	2024	Polypropylene	None