

Appendix A

Additional Boiler Vent Failures

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The incident was originally investigated in 2021 and an incident summary report was previously published <https://www.technicalsaftybc.ca/regulatory-resources/incident-investigations/carbon-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	<u>Carbon-monoxide-was-released-from-boilers-into-the-mechanical-room-of-a-school</u>
2	2021	Polypropylene	<u>Carbon-monoxide-exposure-residential-building</u>
3	2021	Polypropylene	<u>Products-of-combustion-exhausted-into-dwelling</u>
4	2021	Polypropylene	<u>Carbon-monoxide-exposure-multi-unit-care-home</u>
5	2022	CPVC	<u>CO-released-into-boiler-room</u>

6	2023	CPVC	None
7	2023	Polypropylene	<u>Delayed-ignition-causes-damage-to-boiler-and-venting</u>
8	2023	Polypropylene	None
9	2024	Polypropylene	<u>Dislodged-boiler-venting-system-releases-carbon-monoxide</u>
10	2024	Polypropylene	None
11	2024	Polypropylene	None
12	2025	Polypropylene	None
13	2026	Polypropylene	<u>Carbon monoxide exposure results in 6 transported to hospital</u>