



CMD 26-M11 - CNSC Staff Submission

Event Initial Report – Roof Fire at Candu Energy Inc.

Classification	UNCLASSIFIED
Type of CMD	Original
CMD Number	26-M11
Reference CMD(s)	N/A
Type of report	Event Initial Report
Public meeting date	March 24, 2026
SharePoint ID	R40ZYCTGPMES-533513193-40 - EN
Word	R40ZYCTGPMES-533513193-47 – FR
SharePoint ID	R40ZYCTGPMES-533513193-50 – EN
PDF	R40ZYCTGPMES-533513193-51 – FR
Summary	This CMD is being presented to communicate a fire event that occurred February 28, 2026, at Candu Energy Inc.
Actions required	There are no actions requested of the Commission. This CMD is for information only.



CMD 26-M11

Event Initial Report – Roof Fire at Candu Energy Inc.

Signed by:

X

Kimberley Campbell
Director General (Acting)
Directorate of Nuclear Cycle and Facilities Regulations



EVENT INITIAL REPORT (EIR)

UNCLASSIFIED

EIR: Roof fire at Candu Energy	
Prepared by: Wastes and Decommissioning Division, Directorate of Nuclear Cycle and Facilities Regulation	
Licensee: Candu Energy Inc.	Location: 2233 Speakman Drive, Mississauga, Ontario
Date Event was Discovered: 2026-02-28	Have Regulatory Reporting Requirements been met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Proactive Disclosure: Licensee: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CNSC: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Overview	
Reporting Criteria: General Nuclear Safety and Control Regulations (SOR/2000-202) 29 (1) Every licensee who becomes aware of any of the following situations shall immediately make a preliminary report to the Commission of the location and circumstances of the situation and of any action that the licensee has taken or proposes to take with respect to it: <ul style="list-style-type: none">(d) a situation or event that requires the implementation of a contingency plan in accordance with the licence;	
Description: On February 28, 2026 at 7:05 AM, Candu Energy Inc. (Candu Energy) contacted the CNSC duty officer to report that a fire had occurred at their site (SP3) located at 2233 Speakman Drive, Mississauga. In accordance with General Nuclear Safety and Control Regulations (SOR/2000-202) 29(1) (d), Candu Energy provided the following information: A fire on the roof occurred at approximately 2:00 AM, February 28, 2026, at Candu Energy SP3, located at 2233 Speakman Drive, Mississauga. A 911 phone call was placed by the alarm monitoring company, and fire trucks arrived at 2:14 AM. Mississauga Fire and Emergency Services accessed the roof from the exterior of the building using ladders and extinguished the fire. As this location was known to contain nuclear substances, Mississauga Fire and Emergency Services' hazmat crew entered the interior of the building and checked for exposure hazard level. At 5:30 AM, the fire inspectors arrived on-site. At 6:50 AM the fire chief gave Candu Energy staff clearance to enter the building. Mississauga Fire and Emergency Services remained on scene conducting Fire Watch activities until 9:30 AM and left SP3 at 10:30 AM on February 28, 2026. Appendix A Figures 1 and 2 indicate fire location and subsequent roof damage. In addition to roof damage, there was interior building damage, as windows on the top floor broke under the heat of the fire, and the ingress of fire water (Appendix A Figures 3, 4, 5). Prior to the event, the roof was being repaired; however, no workers were present at the time of the fire. No personnel were injured. The fire did not impact any nuclear facilities or substances. This event did not result in any impact to the health and safety of people, the public, nor the environment. Cause(s): Candu Energy informed CNSC staff that the initial apparent cause was a portable light lithium-ion battery left in the roofing repair equipment cart (Appendix A Figure 6). Mississauga Fire and Emergency Services and Candu Energy will be contacting the roofing contractor to further assess the cause of the fire. The results of these assessments will be communicated to CNSC staff as per the reporting requirements as listed in Candu Energy Inc. Waste Nuclear Substance Licence WNSL-W2-3762.3/2026 Licence Conditions Handbook (LCH).	

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Impact of the Event
<p>On People:</p> <p>How many workers have been (or may be) affected? None.</p> <p>Was there any impact(s) to any of the Indigenous Nations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If, yes complete Indigenous Consultation section below, if not applicable delete the row</p> <p>How many members of the public have been (or may be) affected by the event? None.</p>
<p>Indigenous Engagement:</p> <p>CNSC staff previously determined that REGDOC 3.2.2, <i>Indigenous Engagement</i> is not a requirement for the Candu Energy Waste Nuclear Substance Licence (WNSL)-W2-3762.3/2026.</p>
<p>How were they affected? Not applicable</p>
<p>On the Environment: This event did not result in any impact to the environment.</p>
<p>Other Implications: None.</p>
Licensee Actions
<p>Taken or in Progress (TCD = Target Completion Date):</p> <p>Candu Energy undertook the following actions:</p> <ul style="list-style-type: none"> contacted 911 notified CNSC Duty Officer as per the licence communicated event internally at Candu Energy and issued an internal Flash report (an internal Candu Energy communiqué) regarding this event provided CNSC staff with a preliminary report and supplementary information completed an investigation of the interior of the building for additional damage; and initiated a fire system integrity check (TCD March 5, 2026) completed an electrical inspection removed all residual fire water from building interior completed cleanup of roof damage and placed temporary plywood and tarp materials as protective measures on the damaged roof/exterior wall (Appendix A Figure 7) placed all roof repair activities on hold until further notice conducting an extent of condition assessment of the interior building to assess for potential water damage to the dry wall and interior fixtures from excess water seeping in from firefighting activities (TCD March 19, 2026) conducting structural integrity verification of the entire roof (TCD March 20, 2026) site operations continue except for the lab (used to work on contaminated tools and equipment) which is located directly under the area impacted by the fire - Candu Energy is waiting for structural engineering report before restarting work in the lab <p>Planned Additional Activities (TCD = Target Completion Date):</p> <p>Candu Energy plans to complete the following activities:</p> <ul style="list-style-type: none"> fire standpipe inspection to be completed, as fire trucks connected into the system (TCD March 31, 2026) remove remaining floor dust and soot (TCD March 13, 2026) roof repair (TCD to be determined) repair interior ceiling (TCD to be determined) replace damaged windows (TCD March 31, 2026)

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- review Mississauga Fire and Emergency Services Investigation Report (TCD March 31, 2026)
- conduct investigation of roof repair contractor (TCD to be determined)
- identify and determine corrective actions (TCD to be determined)
- verify effectiveness of corrective actions (ongoing)
- Candu Energy-wide roll-out of lessons learned (TCD to be determined)

Candu Energy is required to submit their full report to the CNSC by March 21, 2026.

CNSC Actions

Taken or in Progress:

As a response to the event, CNSC staff called Candu Energy staff on February 28, 2026, to discuss their initial response and status of the fire. Details from this discussion were recorded and circulated back through the duty officer notification system to inform all key staff required. On March 2, 2026, CNSC staff assembled subject matter experts and reviewed the information provided by the CNSC Duty Officer report and Candu Energy's submissions (including the preliminary event report).

On March 2, 2026, a CNSC inspector conducted a walkdown of Candu Energy's SP3 Building. The inspector walked down the areas impacted by the fire. The inspector confirmed that all sealed sources (category 5 check sources) as well as packaged unsealed sources were in a safe state and were not impacted by the fire. CNSC staff confirmed that initial clean-up of water from firefighting activities was completed by the licensee. Additionally, CNSC staff performed contamination measurements at select locations and readings confirmed to be at or below background.

CNSC staff are tracking progress of Candu Energy's current and planned actions (see above Licensee Actions section). Overall, CNSC staff are satisfied with the licensee actions taken thus far in response to the event.

Planned: CNSC staff will review Candu Energy's full event report due to be submitted March 21, 2026, and determine the need for subsequent actions to confirm acceptability of actions. CNSC staff have scheduled focused bi-weekly meetings with Candu Energy to monitor their progress and assess their follow-up actions.

Additional reporting to the Commission Members anticipated:

☐ Yes

☒ No

If Yes, provide method of reporting:

APPENDIX A – IMAGES



Figure 1 above: yellow square indicates roof fire location; green is previously completed roof repair; balance of area within the yellow border is remaining section of the roof where repair work has not commenced

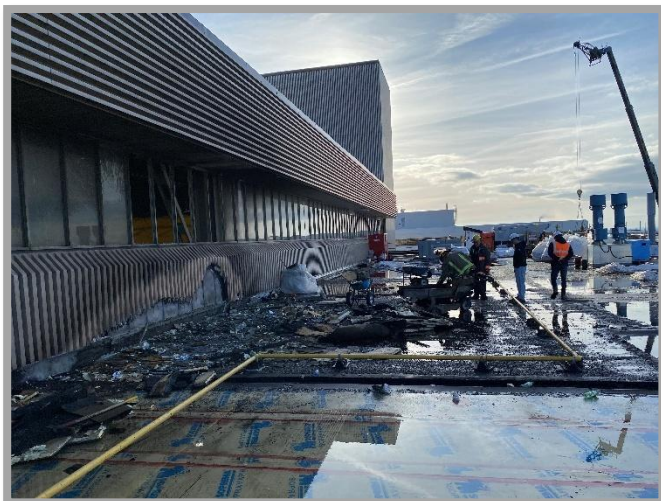


Figure 2 above: roof with fire damage

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Figure 3 above: section of the roof that breached building exterior



Figure 4 above: building interior damage where fire breached building exterior

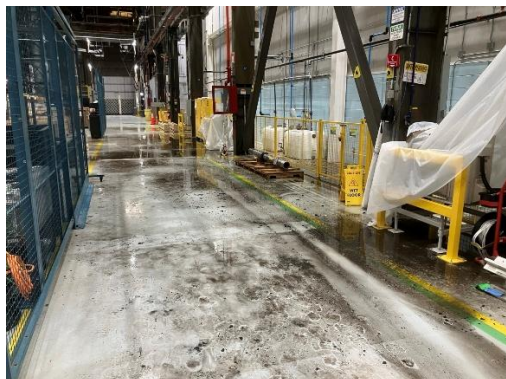


Figure 5 above: interior building water damage

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Figure 6 above: roofing repair equipment cart that contained lithium-ion battery portable light



Figure 7 above: area of the roof and building wall panels showing the plywood and tarp material installed in place of the roof windows as temporary protective measure