

1 Q. **Reference: Volume II, 2022 Capital Projects over \$500,000, Purchase 85' Material Handler**
2 **Aerial Device on Track Unit, page 1, lines 9-12.**

3 "Hydro maintains a fleet of off-road track equipment to perform work in off-road
4 locations; some of this equipment is due to be replaced. With the addition of an 85'
5 Category A aerial device track unit, Hydro plans to retire two existing units, a 2001
6 Bombardier crew carrier and a 1999 Bombardier Muskeg equipped with a boom, that
7 have exceeded their service life."

8 Please describe what a Category A aerial device is and why it is needed in this instance. Will
9 Hydro be using this Category A aerial device to do live line techniques on its 230 kV transmission
10 lines?
11
12

13 A. Category A aerial devices are rated for live line work on 138 kV lines or higher. This equipment
14 has a boom and bucket which is adequately insulated to prevent it from acting as a conductor if
15 it were to come in contact with voltages equal to or greater than 138 kV. Newfoundland and
16 Labrador Hydro ("Hydro") requires this equipment to support the completion of live line work
17 using various techniques across its system, including on its 138 kV and 230 kV lines. Live line
18 work enables Hydro to complete work on its lines without taking outages, therefore improving
19 customer reliability. For example, in 2020, the use of live line work resulted in the avoidance of
20 272,700 customer outage hours. This corresponds to distribution SAIDI¹ and SAIFI²
21 improvements of 6.52 hours per customer and 2.87 interruptions per customer, respectively.

¹ System Average Interruption Duration Index ("SAIDI").

² System Average Interruption Frequency Index ("SAIFI").