

1     **Q.     Project C-77: Install Fire Protection in 230 kV Stations – Bay d’Espoir**

2             Volume I, Tab C, pages C-77 to C-65, cites Appendix, “Install Fire Protection, Bay  
3             d’Espoir” found in Volume III, Tab 26. On page 6 of the Appendix, Hydro advises  
4             that FM Global recommends to install a gaseous fire suppression system where  
5             major loss due to fire is critical and states that Manitoba Hydro uses automatic fire  
6             suppression systems in its plant. Is it considered the industry norm to install  
7             gaseous fire suppression systems in terminal stations?

8

9

10    **A.**     The installation of gaseous fire suppression systems in terminal stations are not  
11             considered the industry norm, however, there are utilities that have installed  
12             gaseous fire protection in in their asset base. Further, as with most electric utilities  
13             that carry insurance, their insurance providers like FM Global encourage the utilities  
14             to reduce risk in all areas. As such FM global has recommended the installation of  
15             these systems to help reduce the risk of prolonged outages to the Newfoundland  
16             grid.

17

18             Hydro has specific experience with regards to a fire at a facility with similar  
19             components to that of the terminal station at Bay d’Espoir. The Frequency  
20             Convertor in Corner Brook experienced a fire which caused major damage to cables  
21             and placed that system out of service for a number of weeks. As well, as part of  
22             Board Order P.U. 50(2014), the Board approved the installation of a gaseous fire  
23             suppression system at Holyrood Terminal Station, being completed over the years  
24             2015-2016.