

1 Q. **Tab C, 2014 Capital Projects \$500,000 and Over: Explanations – Install Fire**
2 **Protection System, p. C-58**

3 Has Hydro investigated the efficacy of the high pressure water mist system it seeks
4 to install at the Nain diesel plant in terms of its capability to prevent damage to the
5 diesel generator subsequent to the original cause of the fire, be it catastrophic
6 engine failure (as in Nain in 1993) or other precipitating cause?

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9 A. Yes, Hydro has investigated the efficacy of the high pressure water mist system it
10 seeks to install at the Nain diesel plant in terms of its capability to prevent damage
11 to the diesel generator subsequent to the original cause of the fire, be it
12 catastrophic engine failure or other precipitating cause. Hydro did this by engaging
13 the engineering consulting firm Hatch to perform a study that included
14 investigation of this system along with others and providing a recommendation as
15 to its preference for use in this application. In addition, Hydro reviewed the
16 manufacturer's literature on the water mist system. Hydro believes there may be
17 some damage to contents inside the generator hall if the system is activated
18 however, it is expected that there would be minimal damage to the contents of the
19 hall including the generating sets. After considering the pros and cons of each
20 system investigated by Hatch, Hydro believes the water mist system is the best
21 alternative for fire suppression at the Nain diesel plant.