

1 Q. C-21; Volume II, Tab 10: Automate Generator Deluge Systems – Bay d’Espoir, page  
2 6, Hydro states: *“In 2010 during the rewind of Unit 2, it was noted that the*  
3 *sprinkler ring in the deluge system did not have proper holes drilled in the pipe*  
4 *ring to discharge water.”* Hydro also states: *“There is a concern that this condition*  
5 *may exist in other units, and to inspect this sprinkler ring the generating unit will*  
6 *be required to be partially dismantled.”*

7 Please provide a brief history of the program explaining why changes to the original  
8 plan have occurred.

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11 A. The only change to the original plan was that the replacement of the sprinkler rings  
12 was removed from the scope of each project under this program. During  
13 preparation of the first project proposal under this program in 2012, Hydro  
14 consulted a fire systems contractor who recommended that the replacement of the  
15 sprinkler rings be included in the scope of work for the generator deluge system  
16 automation. This recommendation was made as part of a budgetary quotation  
17 which did not include travel to site to do a physical assessment. The contractor  
18 recommended that the rings be replaced based on age.

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20 During the tendering process in 2013, two fire system contractors were engaged in  
21 a site review of the work. Based on an inspection of a deluge ring during the pre-  
22 tender site visit, it was noted that the rings were in good condition and did not need  
23 to be replaced. At this time, Hydro’s insurance fire specialist from FM Global was  
24 on-site for a general site inspection. The specialist inspected the condition of the  
25 rings and likewise recommended that the rings do not need to be replaced.

1       The deluge system is a dry type system, meaning that the sprinkler rings are  
2       normally dry and fill with water only when the system is activated to suppress a fire.  
3       The good condition of the sprinkler rings can be attributed to the fact that the rings  
4       are dry and have not been exposed to conditions that would promote corrosion or  
5       contamination.