

1 Q. **Reference: Improve Boiler Load Capacity – Units 1, 2 and 3, Holyrood, June 1,**
2 **2018, Appendix A, B&W Engineering Study Report, Page A14.**

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4 *“The MgO additive system was taken out of service in 2014 and reductions in unit*
5 *load capability for Units #1 and #2 started to occur in 2015-2016 and Unit #3 in late*
6 *2017. This system should be placed back into service and the oil dosed at a rate of 1*
7 *lb. MgO per lb. V20 in the fuel oil.”*

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9 Why was the MgO additive system taken out of service?

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12 A. Hydro had been using a Magnesium Oxide (MgO) fuel additive to address fouling
13 concerns in the higher temperature lower furnace area, which were largely due to
14 Vanadium content in the fuel and other metals. With the switch to low Sulphur fuel
15 and an improved fuel specification, the content of these components dropped to
16 near zero and were no longer an issue for the areas of concern. MgO usage was no
17 longer required to address that problem and based upon this information, Hydro
18 determined that there was no known problem in the back end of the boiler area
19 and therefore, no known reason to continue the cost of using MgO.