1	Q.	Se	ction 2.3 of Appendix C states that the last boiler feed pump overhaul in 2013 used a
2		ref	urbished volute impeller cartridge. The impeller cartridge that was removed at that time was
3		ref	urbished and is now planned to be used in this current proposed overhaul. Section 4.1 of
4		Ар	pendix C further states that "the volute impeller cartridge which is removed from the pump
5		[dı	ring the overhaul proposed within the Application] would then be refurbished and returned
6		to	inventory as a critical spare to support both of the Unit 3 boiler feed pumps prior to the next
7		wii	nter operating season."
8		i.	How confident is Hydro that the continued use of refurbished parts for this critical item is
9			appropriate?
10		ii.	Has Hydro completed an economic and/or reliability analysis that recommends the
11			continued refurbishment of this critical piece of equipment as opposed to purchasing a new
12			impeller cartridge? If so, please provide the analysis(es).
13	Α.	i.	Newfoundland and Labrador Hydro ("Hydro") is very confident that the continued use of a
14			refurbished volute impeller cartridge is appropriate in the regular overhaul of the boiler
15			feed pumps. This strategy has been followed for all six boiler feed pumps at the Holyrood
16			Thermal Generating Station ("Holyrood TGS") (two pumps per unit) for more than 25 years.
17			The boiler feed pumps on all units have performed reliably as a result. The volute impeller
18			cartridge is refurbished in the Original Equipment Manufacturer ("OEM") facility, where it
19			undergoes a detailed as-received inspection and technical assessment before it is
20			completely restored to design specifications. Should there be problems with the condition
21			of the volute impeller cartridge that warrant replacement then this would be identified
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- during the as-received inspection and Hydro would work with the supplier to address these
 concerns, including project change orders as required. However, this is not expected to be
 required. This overhaul approach is recommended by the OEM and is standard industry
 practice. It is followed by other clients of the OEM.
- ii. Hydro has not completed an economic or reliability analysis regarding the continued
 refurbishment versus replacement of the boiler feed pump volutes. As noted previously, this

method is recommended by the OEM and the refurbished parts have historically performed
 reliably.