Q. **Reference: Bay d'Espoir Unit 7 Additional Analysis Report, September 23, 2025, page 7 of 41.**

"Unit 7 generator was designed and constructed with a floating rim. The term "floating rim" is just another way of saying that the spider is much less stiff than more conventional designs. This has caused problems several times in the past, requiring rebalancing following a unit trip and overspeed. We should consider that we have been fortunate in that we have been able to balance the unit to within acceptable (but on some occasions, less than desirable) limits quickly. We can expect this to occur again and we should also expect the situation to recur with sufficient severity that a significant delay would be experienced in returning the unit to service. This could have a detrimental affect on our ability to meet energy demands if such an event occurs during a peak production period."

**a)** Will the problem with the floating rim design be addressed in the Life Extension of Bay d'Espoir Unit 7 project? If not, why not?

**b)** If rebalancing is required following a unit trip and overspeed, how long will the rebalancing typically take before the unit can be returned to service?

A. **a)** The floating rim will not be addressed during the Bay d'Espoir Unit 7 Life Extension Project.

During the early life of Unit 7, the records show continual issues because of the rotor design. The addition of guide blocks in 1992 and maintenance interventions since then have mitigated the issue to an operationally manageable level. Replacing the rotor spider is a significant and costly undertaking, which is difficult to justify, considering there has been no impact on the unit's operation over the last ten years. Please refer to Newfoundland and Labrador Hydro's response to PUB-NLH-026 of this proceeding for further details on cost and justification.

**b)** The last major rebalancing effort was in 2014. It took ten days and was scheduled as part of a planned shutdown. The unit ran under a load restriction of 110 MW for a short period prior to the shutdown.