Q. Re: Rocky Pond Plant Refurbishment (p. 2 of 81, Schedule B) - Has NP undertaken, as it did in the case of the Rattling Brook Penstock, a study to determine the optimum diameter for the replacement penstock?

A. A study similar to that undertaken to determine the optimum diameter of the replacement penstock at Rattling Brook has not been undertaken for the replacement penstock at Rocky Pond.

Rattling Brook plant has 2 generating units. It was originally designed to be operated on an isolated system in the Grand Falls area. Only one unit was expected to be operated at a time, with the second unit available as a backup. When the plant was connected to the Island Interconnected System the operating regime changed and operation of both units was feasible. However, the plant output and capacity were limited when operating the two units due to high head losses in the penstock. To reduce the head losses, the penstock was replaced with a larger diameter penstock which resulted in higher plant production and capacity.

Rocky Pond plant has 1 generating unit. It was originally designed as part of a system of plants on the Southern Shore which served the eastern Avalon Peninsula. Unlike Rattling Brook, the operating regime associated with Rocky Pond has not changed significantly since its 1942 construction. Accordingly, the design criterion that was used for determining the existing penstock diameter has not changed materially. As part of the final detailed design of the Rocky Pond plant, the optimum penstock diameter will be determined, however, it is unlikely the new penstock diameter will differ materially from that of the existing penstock.

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Prior to the connection of the Rattling Brook plant to the Island Interconnected System, operation of both units was not feasible as electrical demand on the isolated Grand Falls system did not require 2 unit operation.