- At Tab 1.3, Lockston Hydro Plant Refurbishment, at page 11, it is outlined that index testing on unit G1 was performed in 2003 by ACRES. The peak efficiency was 84.4%, and is considered low compared to modern runner design. What is considered to be efficient in modern runner design?
- A. A reasonable peak efficiency assumption for a refurbished horizontal Francis type turbine such as generating unit G1 at Lockston plant would be 92%, based on an engineering estimate provided by Hatch.<sup>1</sup>

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At page 11 of Tab 1.3 Lockston Hydro Plant Refurbishment it is anticipated that a peak unit efficiency of 87% can be achieved. This is based upon the 92% runner efficiency combined with a 95% generator efficiency to provide the estimate of 87% unit efficiency. (92% ×95% = 87%)