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January 07, 2021

DECISION MEMORANDUM

TO: Council members

FROM: John Ollis
Manager of Planning and Analysis

SUBJECT: Contract renewal with PSR

PROPOSED ACTION: Council staff recommends authorization to renew the Council's contract with PSR for PSR's continued maintenance and support services for the redeveloped GENESYS model for the remainder of the 2021 fiscal year and in an amount not to exceed \$64,800.

SIGNIFICANCE: Maintenance and support services for the redeveloped GENESYS model remain necessary as staff continues to utilize the model in development of the 2021 Power Plan.

BUDGETARY/ECONOMIC IMPACTS

Total contract budget not-to-exceed \$64,800.

BACKGROUND AND ANALYSIS

The GENESYS model is the primary analytical tool the Council uses in understanding the impacts of changes in the hydroelectric system's operations on the regional power system and to assess resource adequacy. The GENESYS model is used to assess resource cost-effectiveness and to evaluate the effective load carrying capability of variable generation. Further, the GENESYS model is used to assess the impacts and costs of non-power related constraints on the regional power system.

The Council previously contracted with PSR to redevelop the GENESYS model and to provide maintenance and support services for the model post-redevelopment. As staff continues to utilize the redeveloped GENESYS model in development of the 2021

Power Plan, there is a continuing need for ongoing maintenance and support services, which includes fixing bugs, implementing model updates and new versions, and addressing technical issues identified by staff as it utilizes the model.

ALTERNATIVES

The alternative is to have staff or another firm provide the necessary maintenance and support services on the redeveloped GENESYS model; however, such an approach would require either significant utilization of staff's time or a substantial amount of time and resources of another firm to learn the redeveloped GENESYS software code to be able to provide the support sought at the level and quality sought. Both of these alternatives seem imprudent at this time given the schedule for the 2021 Power Plan.