

WAPA Exploration of Energy Imbalance Market

Sierra Nevada Region
August 14, 2019

Arun K. Sethi
VP of Power Marketing

Agenda

- NEPA Compliance for EIM
- WAPA and Reclamation EIM Cost Estimates
- EIM Questions and Response
- Next Steps

NEPA Compliance for EIM

Gerald Robbins
Environment Manager
and NEPA Compliance Officer

NEPA Compliance

- A National Environmental Policy Act (NEPA) review was required for this action
- Environment Group has completed a Categorical Exclusion (CX)
- The Exclusion Category is B4.4 : Power Marketing Services and Activities
 - Power marketing services and activities (including, but not limited to, storage, load shaping and balancing, seasonal exchanges, and other similar activities), provided that the operations of generating projects would remain within normal operating limits.
 - <https://www.wapa.gov/regions/SN/environment/Documents/cx-eim.pdf>

4

WAPA and Reclamation EIM Cost Estimates

Arun Sethi

WAPA Software Cost Estimates

- WAPA currently uses OATI products
- Due to WAPA FY end and Procurement deadlines, WAPA is in the process to procure EIM modules with FY19 funds
- 30-days termination clause if WAPA decides against participating in EIM
- Procurement contract has not been signed

OATI Modules

- WAPA currently using:
 - webTrans
 - webTrader
 - webAccounting
 - webSupport
 - webIntegrity
 - webRegistry
 - webSmartTag
 - webSmartOASIS
 - webCalc

EIM Modules & Cost Estimate

- webEIM Participating Resource SC
- webTrader MRTU Market Solution Settlements
- webSmartBid

• All EIM Modules	\$514,000
• Annual Recurring Fee	<u>\$170,000</u>
Total	\$684,000

Reclamation Software Costs

- USBR is anticipating the need to change the Central Valley Automated Control System (CVACS) generator control system, primarily software, to accommodate real-time dispatch signals from the EIM.
- The current plan envisions the creation of “virtual” units for each EIM aggregation area and the adaptation of the existing automatic schedule and AGC dispatch functions to integrate with the new EIM signals.
- The full scope of changes will not be known until decisions on aggregation are completed.
- Placeholder funding amounts of \$500k each year for CVACS EIM changes in FY20 and FY21 have been approved by the Technical Committee to support the project.

EIM Questions and Response

Arun Sethi

EIM Questions and Response

<https://www.wapa.gov/regions/SN/PowerMarketing/Pages/western-eim.aspx>

Next Steps

Arun Sethi

Comments

- WAPA will accept comments through August 16, 2019
- Assess comments and post response NLT August 23, 2019
- Inform customers of WAPA decision NLT August 30, 2019

Questions/Comments