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Minutes

To: NCPA Facilities Committee
From: Cheryl Bolt
Subject: October 23, 2024 Special Facilities Committee Meeting Minutes

- 1. Call meeting to order & Roll Call** – The meeting was called to order by Tony Zimmer at 9:06 am. Attending via teleconference and on-line presentation were Midson Hay and Ben Rings (Alameda), Terry Crowley (Healdsburg), Brad Wilkie (Lompoc), Shiva Swaminathan and Vicente Rios (Palo Alto), Nathan Tang and Liem Nguyen (Port of Oakland), Peter Lorenz (non-voting Rep. with TID) and Cindy Sauers (Ukiah). Those attending in person are listed on the attached Attendee Sign-in Sheet. Committee Representatives from BART, Gridley, Plumas-Sierra, Redding, and Shasta Lake were absent. A quorum of the Committee was established at the time of roll. Elisa Arteaga (Gridley) joined the meeting at 9:40 am

PUBLIC FORUM

No public comment.

OPEN SESSION

DISCUSSION / ACTION ITEMS

- 2. NCPA Support Services - CLEARresult Consulting, Inc** – Staff presented background information and was seeking a recommendation for Commission approval of the Second Amendment to Resolution 21-120 and to authorize NCPA's General Manager or his designee to execute the Second Amendment to Confirmation Number 0236. The Facilities Committee had no further questions.

FISCAL IMPACT: There is no fiscal impact to NCPA. The services provided by CLEARresult to SVP will be billed to and paid by SVP pursuant to the terms of the Support Services Program Agreement. NCPA's administrative costs will be reimbursed by SVP.

Motion: A motion was made by Brad Wilkie and seconded by Monica Nguyen recommending Commission approval to authorize NCPA's General Manager to execute the Second Amendment to Confirmation Number 0236 in the amount not to exceed \$598,453 plus \$8,605 for NCPA's administrative fees, for a total not to exceed amount of \$607,058, with any non-substantive changes as approved by the NCPA General Counsel in the amount not to exceed \$598,453 plus \$8,605 for NCPA's administrative fees, for a total not to exceed amount of \$607,058, with any non-substantive changes as approved by the NCPA General Counsel. The motion carried by a majority of those Committee members present on a roll call vote as follows: YES = Alameda,

Biggs, Healdsburg, Lodi, Lompoc, Palo Alto, Roseville, Santa Clara, and Ukiah. ABSTAIN = Port of Oakland. The motion passed.

- 3. NCPA Geothermal Facility – 2025 Geothermal FY24 Encumbrance Request** — Staff presented background information and are proposing that excess funds from several projects budgeted in FY 2024 be encumbered and reallocated to help fund removing the underground diesel tank that is used to supply the back-up auxiliary generator and Plant #2 Fire Pump System with fuel and replace it with an above-ground tank. Staff is seeking a recommendation for Commission approval to authorize the reallocation of funds in the FY 2024 budget to help fund this project.

FISCAL IMPACT: If approved, a total of \$587,919 of FY 2024 project funds will be encumbered and reallocated to the Geothermal Plant #2 Diesel Tank Project, for revised total project funding of \$787,919. A breakdown of the additional funding sources is shown in the table below.

Project	Remaining Funds
FY 2024 Plant #1 Steam Strainer	\$188,077
FY 2024 Plant #1 13.8 KV / 2.4 KV / 480 V Bus Restoration	\$124,842
FY 2024 Plant #2 Diesel Tank	\$275,000
FY 2025 Plant #2 Diesel Tank*	\$200,000
Total	\$787,919

**Already approved in the FY25 Budget*

Motion: A motion was made by Brian Schinstock and seconded by Jiayo Chiang recommending Commission approval to authorize the FY 2024 Geothermal Facilities Encumbrance Request and reallocating funds from the FY 2024 budget in the amount of \$587,919 to help fund the Geothermal Plant #2 Diesel Tank Project, pending NCPA encumbrance processing. The motion carried by a majority of those Committee members present on a roll call vote as follows: YES = Alameda, Biggs, Healdsburg, Lodi, Lompoc, Port of Oakland, Roseville, Santa Clara, and Ukiah. ABSTAIN = Palo Alto. The motion passed.

- 4. NCPA Hydroelectric Facility – 2025 Hydroelectric Facilities FY24 Encumbrances** – Staff presented background information and are requesting Commission approval authorizing the FY 2024 Hydro Facilities encumbrances and to reallocate various funds in the FY 2024 budget to help fund the projects listed herein as follows:
- **Collierville Powerhouse Turbine Runner** – Staff shared that a crack in the turbine runner was detected during maintenance. Collierville has no spare runner and the lead time to purchase a new runner is 18-24 months. If not acted upon now, the unit is exposed to long duration outages.
 - **New Spicer Meadow Sidelights and Roof Leaks** – Staff reported that the Powerhouse’s building sidelights and roof require maintenance to prevent water leakage and to protect critical generation equipment from water intrusion. Repair attempts have been made with marginal success to the existing semi-transparent sidelights, as existing materials are brittle. Looking to replace with metal.
 - **New Spicer Meadow Dam Spillway** – Staff reported that the spillway is damaged and is in need of critical maintenance to remain compliant with Federal and State agencies.
 - **McKays 17 Kv Wildfire Mitigation** – Staff reported that funds were approved in the FY 2025 budget, however, road access is not feasible and additional helicopter support is required in order to mitigate the risk of high fire danger with exposed conductors and to get the project completed on time.

FISCAL IMPACT: The total combined estimated cost of the projects is not to exceed \$1,468,500. A table detailing a breakdown of the estimated costs associated with each project can be referenced in Staff Report 256:24.

Motion: A motion was made by Alan Harbottle and seconded by Monica Nguyen recommending Commission approval to authorize the FY 2024 Hydroelectric Facilities Encumbrances and reallocating various funds in the FY24 budget in the amount of \$1,468,500 to help fund the CV Turbine Runner Repair Project, NSM Spillway Maintenance Project, NSM Sidelight & Roof Maintenance Project and additional funding for the budget approved McKays 17Kv Wildfire Mitigation Project, pending NCPA encumbrance processing. The motion carried by a majority of those Committee members present on a roll call vote as follows: YES = Alameda, Biggs, Healdsburg, Lodi, Lompoc, Palo Alto, Port of Oakland, Roseville, Santa Clara, and Ukiah. The motion passed.

INFORMATIONAL ITEMS

All NCPA Members – STIG Repowering and Future Options Discussion – Staff discussed the status of the STIG unit and reported that inspections may reveal that the unit has reached a critical point in its lifecycle. Staff explained that the unit is experiencing high vibration risks and there is no third-party maintenance support. As of October 9, 2024, CT2 is in a forced outage.

➤ **Upgrade Options – Repower Technology Highlights**

- Staff presented to the Committee a breakdown of demolition costs.
- Staff provided an overview of an upgraded GE natural gas/biofuel/hydrogen turbine technology
- The LM6000 aeroderivative gas turbine has over 40 million operating hours and more than 1,200 units have shipped worldwide
- Unit has the capability to burn 35% hydrogen
- GE has committed to 100% hydrogen by 2030
- 57+MW output but up to 49.9MW is proposed
- Engine capable of being powered up in 5 minutes
- No major permitting changes anticipated
- Estimated operable lifespan could go beyond 2045
- MID recently repowered their STIG to a GE LM6000 Peaker
- Repowering CT2 will not be deemed a “new project” as there are no plans to increase capacity or technology
- If unit ordered now the delivery schedule is 1.5 to 2 years out
- 1 year CAISO Repower Evaluation process

➤ **Project Costs**

- A breakdown of costs associated with the project estimated at \$48 million
- Payback of investment estimated to be 9 years
- Staff reported that these project costs could potentially be included in the 2026 budget
- 2nd Phase costs are estimated to be \$5 million
- 3rd Phase costs estimated at \$43 million

➤ **Next Steps**

- Staff discussed the urgency to move this project forward and an immediate need to schedule a meeting with Members who are eager to move this project forward.
- Further discussions are required to confirm Member commitment and willingness to increase their share of the project.
- Looking at having the 2nd phase agreement approved and signed by April 2025

- NCPA General Counsel recommended to project participants that they reach out to her directly if they intend to move into the Phase 2 agreement so that she can add this as a discussion item at the next Legal Committee meeting scheduled for November 7, 2024

ADJOURNMENT

The meeting was adjourned at 12:15 pm by Tony Zimmer.

**Northern California Power Agency
 October 23, 2024 Special Facilities Committee Meeting
 Attendance List**

NCPA Facilities Committee Members are requested to sign, but signature by members of the public is voluntary.

<u>MEMBER</u>	<u>NAME</u>
ALAMEDA	<i>Alan Harbott</i>
BART	
BIGGS	<i>Boo Sheppard</i>
GRIDLEY	
HEALDSBURG	
LODI	<i>James Conway</i>
LOMPOC	
PALO ALTO	
PLUMAS-SIERRA REC	
PORT OF OAKLAND	
REDDING	
ROSEVILLE	<i>B S Obed</i>
SANTA CLARA	
SHASTA LAKE	
TID	
UKIAH	

