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Minutes

To: NCPA Facilities Committee
From: Carrie Pollo
Subject: January 3, 2024 Facilities Committee Meeting Minutes

- 1. Call meeting to order & Roll Call** – The meeting was called to order by Committee Chair Shiva Swaminathan (Palo Alto) at 9:09 am. Attending via teleconference and on-line presentation were Alan Harbottle, Ben Rings, and Chris Ferrara (Alameda), Yuliya Shmidt (BART), Basil Wong and Monica Nguyen (Santa Clara). Peter Lorenz (non-voting Representative with TID) also attended via teleconference and on-line presentation. Those attending in person are listed on the attached Attendee Sign-in Sheet. Committee Representatives from Biggs, Gridley, Healdsburg, Lompoc, Plumas-Sierra, Port of Oakland, Redding, Shasta Lake, TID, and Ukiah were absent. A quorum of the Committee was not established.

PUBLIC FORUM

No public comment.

- 2. Approval of Minutes from the December 6, 2023 Facilities Committee meeting.**

Due to the lack of a quorum no formal action was taken on this item.

- 3. All NCPA Facilities, Members, SPPA – Irani Engineering, Inc. MTCSA** – Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task Consulting Services Agreement with Irani Engineering, Inc. for injection well related consulting services, with a not to exceed amount of \$2,000,000, for use at all facilities owned and/or operated by NCPA.

This is a current NCPA vendor whose agreement is expiring. NCPA has utilized this vendor in the past, and has a good working relationship with this vendor. NCPA desires to enter into this agreement so established terms and conditions are in place should this vendor be the successful bidder on future purchases. This enabling agreement does not commit NCPA to any expenditure of funds. At the time services are needed, NCPA will bid the specific scope of work consistent with NCPA procurement policies and procedures. NCPA has an agreement in place for similar services with AECOM Technical Service, Inc. A draft Commission Staff Report and agreement were available for review. It is recommended to place this item on the Commission Consent Calendar.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the General Manager or his designee to enter into a Multi-Task Consulting Services Agreement with

Irani Engineering, Inc. for injection well related consulting services, with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$2,000,000 over five years, for use at any facilities owned and/or operated by NCPA, NCPA Members, by SCPPA and SCPPA Members. No other meeting attendees had any objections or questions. This item will move forward to the next Commission Meeting scheduled on January 18, 2024 on the Commission Consent Calendar.

- 4. All NCPA Facilities – Advanced Chemical Transport, Inc. dba ACTEnviro MTGSA –** Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task General Services Agreement with Advanced Chemical Transport, Inc. dba ACTEnviro for waste removal services, with a not to exceed amount of \$3,000,000, for use at all facilities owned and/or operated by NCPA.

This is a current NCPA vendor whose agreement is expiring. NCPA has utilized this vendor in the past, and has a good working relationship with this vendor. NCPA desires to enter into this agreement so established terms and conditions are in place should this vendor be the successful bidder on future purchases. This enabling agreement does not commit NCPA to any expenditure of funds. At the time services are needed, NCPA will bid the specific scope of work consistent with NCPA procurement policies and procedures. NCPA has agreements in place for similar services with MP Environmental and Ponder Environmental. A draft Commission Staff Report and agreement were available for review. It is recommended to place this item on the Commission Consent Calendar.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the General Manager or his designee to enter into a Multi-Task General Services Agreement with Advanced Chemical Transport, Inc. dba ACTEnviro for waste removal services, with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$3,000,000 over five years, for use at any facilities owned and/or operated by NCPA. No other meeting attendees had any objections or questions. This item will move forward to the next Commission Meeting scheduled on January 18, 2024 on the Commission Consent Calendar.

- 5. All NCPA Facilities, Members, SCPPA – Process Cooling International, Inc. dba Applied Process Cooling Corp dba APCCO MTGSA –** Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task General Services Agreement with Process Cooling International, Inc. dba Applied Processing Cooling Corp dba APCCO for insulation related services, with a not to exceed amount of \$4,000,000, for use at all facilities owned and/or operated by NCPA, NCPA Members, SCPPA, and SCPPA Members.

This is a new NCPA vendor. NCPA desires to enter into this agreement so established terms and conditions are in place should this vendor be the successful bidder on future purchases. This enabling agreement does not commit NCPA to any expenditure of funds. At the time services are needed, NCPA will bid the specific scope of work consistent with NCPA procurement policies and procedures. NCPA has agreements in place for similar services with American Insulation & Scaffolding, Bayside Insulation & Construction, Farwest Insulation Contracting and Sunshine Metal Clad. A draft Commission Staff Report and agreement were available for review. It is recommended to place this item on the Commission Consent Calendar.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the General Manager or his designee to enter into a Multi-Task General Services Agreement with

Process Cooling International Inc. dba Applied Process Cooling Corp. dba APCCO for insulation services, with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$4,000,000 over five years, for use at any facilities owned and/or operated by NCPA, NCPA Members, by SCPPA and SCPPA Members. No other meeting attendees had any objections or questions. This item will move forward to the next Commission Meeting scheduled on January 18, 2024 on the Commission Consent Calendar.

6. **All NCPA Facilities, Members, SCPPA – Eaton Corporation MTGSA** – Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task General Services Agreement with Eaton Corporation for electrical related services, with a not to exceed amount of \$2,000,000, for use at all facilities owned and/or operated by NCPA, NCPA Members, SCPPA, and SCPPA Members.

This is a current NCPA vendor whose agreement is expiring. NCPA has utilized this vendor in the past, and has a good working relationship with this vendor. NCPA desires to enter into this agreement so established terms and conditions are in place should this vendor be the successful bidder on future purchases. This enabling agreement does not commit NCPA to any expenditure of funds. At the time services are needed, NCPA will bid the specific scope of work consistent with NCPA procurement policies and procedures. NCPA has agreements in place for similar services with Contra Costa Electric, Electrical Maintenance Consultants, Electric Power Systems and NorCal Power Services. A draft Commission Staff Report and agreement were available for review. It is recommended to place this item on the Commission Consent Calendar.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the General Manager or his designee to enter into a Multi-Task General Services Agreement with Eaton Corporation for electrical related services, with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$2,000,000 over five years, for use at any facilities owned and/or operated by NCPA, NCPA Members, by SCPPA and SCPPA Members. No other meeting attendees had any objections or questions. This item will move forward to the next Commission Meeting scheduled on January 18, 2024 on the Commission Consent Calendar.

7. **All NCPA Facilities – Univar Solutions, Inc. MTEMS** – Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task Agreement for Purchase of Equipment, Materials and Supplies with Univar Solutions, Inc. for the purchase of specialty chemicals, with a not to exceed amount of \$1,000,000, for use at all facilities owned and/or operated by NCPA.

NCPA has utilized this vendor in the past, and has a good working relationship with the vendor. NCPA's previous agreement with Univar Solutions, Inc. has expired. NCPA desires to enter into this agreement so established terms and conditions are in place should this vendor be the successful bidder on future purchases. This enabling agreement does not commit NCPA to any expenditure of funds. At the time services are needed, NCPA will bid the specific scope of work consistent with NCPA procurement policies and procedures. NCPA has agreements in place for similar services with Brenntag Pacific, Hill Brothers Chemical Company, Thatcher Company of California, and Dow Chemical (Pending). A draft Commission Staff Report and agreement were available for review. It is recommended to place this item on the Commission Consent Calendar.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the General Manager or his designee to enter into a Multi-Task Agreement for Purchase of Chemicals

with Univar Solutions, Inc. for specialty chemical purchases, with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$1,000,000 over five years, for use at any facilities owned and/or operated by NCPA. No other meeting attendees had any objections or questions. This item will move forward to the next Commission Meeting scheduled on January 18, 2024 on the Commission Consent Calendar.

- 8. All NCPA Facilities (except LEC), Members, SPCPA – Reliable Turbine Services, LLC MTGSA** – Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task General Services Agreement with Reliable Turbine Services, LLC for inspection and maintenance related services, with a not to exceed amount of \$10,000,000, for use at all facilities owned and/or operated by NCPA (except LEC), NCPA Members, SPCPA, and SPCPA Members.

NCPA does not have a current multi-task agreement in place with this vendor. NCPA has used this vendor in the past, and has a good working relationship with this vendor. NCPA desires to enter into this agreement so established terms and conditions are in place should this vendor be the successful bidder on future purchases. This enabling agreement does not commit NCPA to any expenditure of funds. At the time services are needed, NCPA will bid the specific scope of work consistent with NCPA procurement policies and procedures. NCPA has agreements in place with Stephens Mechanical Corporation, TCB Industrial, Inc. and Sulzer Turbo Services Houston, Inc. for similar services. A draft Commission Staff Report and agreement were available for review.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the General Manager or his designee to enter into a Multi-Task General Services Agreement with Reliable Turbine Services LLC for inspection and maintenance services, with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$10,000,000 over five years, for use at any facilities owned and/or operated by NCPA (except the Lodi Energy Center), NCPA Members, by SPCPA and SPCPA Members. No other meeting attendees had any objections or questions. This item will move forward to a Special Commission meeting on January 5, 2024.

- 9. All NCPA Facilities, Members, SPCPA – Quantum Spatial, Inc. dba NV5 Geospatial, Inc. First Amendment to MTGSA** – Staff provided background information and was seeking a recommendation for Commission approval of a First Amendment to the five-year Multi-Task General Services Agreement with Quantum Spatial, Inc. dba NV5 Geospatial, Inc. for transmission and distribution line and other modeling and mapping services, accepting assignment of the agreement to NV5 Geospatial, Inc., with no change to not to exceed amount of \$2,000,000 or contract term, for continued use at all facilities owned and/or operated by NCPA, NCPA Members, SPCPA, and SPCPA Members.

NCPA entered into a five-year Multi-Task General Services Agreement with Quantum Spatial, Inc. dba NV5 Geospatial, Inc. effective April 29, 2021, for use at all NCPA, NCPA Member, SPCPA, and SPCPA Member facilities. Effective November 8, 2022, Quantum Spatial, Inc. dba NV5 Geospatial, Inc. changed their name to NV5 Geospatial, Inc. NCPA now desires to enter into a First Amendment to the Multi-Task General Services Agreement accepting assignment to NV5 Geospatial, Inc. The total not to exceed amount of the agreement will remain unchanged at not to exceed \$2,000,000. This enabling agreement does not commit NCPA to any expenditure of funds. At the time services are needed, NCPA will bid the specific scope of work consistent with NCPA procurement policies and procedures. A draft Commission Staff Report, original agreement, and First Amendment were available for review. It is recommended to place this item on the Commission Consent Calendar.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the General Manager or his designee to enter into a First Amendment to the Multi-Task General Services Agreement with Quantum Spatial, Inc. dba NV5 Geospatial, Inc. for transmission and distribution line modeling and inspection related services, with any non-substantial changes recommended and approved by the NCPA General Counsel, accepting assignment to NV5 Geospatial, Inc., with no change to the not to exceed amount or contract term, for continued use at any facilities owned and/or operated by NCPA, NCPA Members, by SCPPA, and SCPPA Members. No other meeting attendees had any objections or questions. This item will move forward to the next Commission Meeting scheduled on January 18, 2024 on the Commission Consent Calendar.

- 10. All NCPA Facilities – Western Hydrologics, LLP MTCSA –** Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task Consulting Services Agreement with Western Hydrologics, LLP for hydrological modeling services, with a not to exceed amount of \$1,000,000, for use at all facilities owned and/or operated by NCPA.

This is a current NCPA vendor whose agreement is expiring. NCPA has utilized this vendor in the past, and has a good working relationship with this vendor. NCPA desires to enter into this agreement so established terms and conditions are in place should this vendor be the successful bidder on future purchases. This enabling agreement does not commit NCPA to any expenditure of funds. At the time services are needed, NCPA will bid the specific scope of work consistent with NCPA procurement policies and procedures. NCPA has agreements in place for similar services with CBEC Inc, Sierra Hydrologics, WEST Consultants, Inc., and Zanjero, Inc. A draft Commission Staff Report and agreement were available for review. It is recommended to place this item on the Commission Consent Calendar.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the General Manager or his designee to enter into a Multi-Task Consulting Services Agreement with Western Hydrologics, LLP for forecasting and modeling related consulting services, with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$1,000,000 over five years, for use at any facilities owned and/or operated by NCPA, NCPA Members, by SCPPA and SCPPA Members. No other meeting attendees had any objections or questions. This item will move forward to the next Commission Meeting scheduled on January 18, 2024 on the Commission Consent Calendar.

- 11. NCPA Hydroelectric Facility – Schneider Electric USA, Inc. First Amendment to MTGSA –** Staff presented background information and was seeking a recommendation for Commission approval of a First Amendment to the five-year Multi-Task General Services Agreement with Schneider Electric USA, Inc. for electric maintenance related services, extending the contract expiration date to December 31, 2024 and making this agreement for use by NCPA's Hydroelectric facility only for work performed under Purchase Order No. 57190, with no change to not to exceed amount of \$2,000,000.

NCPA entered into a five-year Multi-Task General Services Agreement with Schneider Electric USA, Inc. effective January 28, 2019, for an amount not to exceed \$2,000,000, for use at all NCPA, NCPA Member, SCPPA, and SCPPA Member facilities. NCPA has utilized this vendor for the past five year for electric maintenance services at its Hydroelectric plants, and this vendor has shown themselves to be competent and responsible.

NCPA's current agreement with Schneider Electric USA, Inc. is set to expire on January 28, 2024. NCPA is currently in negotiations with Schneider Electric USA, Inc. for a new five-year

Multi-Task General Services Agreement. NCPA has an open Purchase Order with Schneider Electric USA, Inc. for design/replacement of Collierville's Low Voltage 480v MCC Breakers; this work began in October 2023, and is anticipated to be complete in Fall 2024.

To continue the awarded work without interruption, NCPA now desires to enter into a First Amendment to the current Multi-Task General Services Agreement with Schneider Electric USA, Inc., extending the term of the agreement through December 31, 2024. This First Amendment is for use by NCPA's Hydroelectric Facility for work performed under Purchase Order #57190 only; all other NCPA Facilities, Members, SCPPA and SCPPA Members are being removed from this agreement. The total not to exceed amount of the agreement will remain unchanged at not to exceed \$2,000,000. Purchase orders referencing the terms and conditions of the agreement will be issued following NCPA procurement policies and procedures. NCPA has agreements in place for similar services with Electrical Maintenance Consultants Inc, Siemens Industry, Inc and ABB, Inc. A draft Commission Staff Report, original agreement, and First Amendment were available for review. It is recommended to place this item on the Commission Consent Calendar.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the General Manager or his designee to enter into a First Amendment to the Multi-Task General Services Agreement with Schneider Electric USA, Inc. for electric maintenance related services, with any non-substantial changes recommended and approved by the NCPA General Counsel, extending the agreement expiration from January 28, 2024 to December 31, 2024, for continued use by NCPA's Hydroelectric Facility for work performed under Purchase Order #57190 only. No other meeting attendees had any objections or questions. This item will move forward to the next Commission Meeting scheduled on January 18, 2024 on the Commission Consent Calendar.

- 12. Ulteig Engineers, Inc. First Amendment to GSA for Meter Maintenance –** Staff provided background information and was seeking a recommendation for Commission approval of a First Amendment to the General Services Agreement between NCPA and Ulteig Engineers, Inc. Accepting Assignment to Ulteig Operations, LLC for Meter Maintenance.

NCPA entered into a five-year General Services Agreement with Ulteig Engineers, Inc. effective June 1, 2023 for an amount not to exceed \$1,200,000 (the "Agreement"), for the purpose of supplying meter maintenance services to certain NCPA Members. Effective January 1, 2024 Ulteig Engineers, Inc. is assigning its work from Ulteig Engineers, Inc. to Ulteig, Operations, LLC. The Agency now desires to amend the Agreement to reflect that change and substitute Ulteig Operations, LLC in place of Ulteig Engineers, Inc. in the Agreement. As a result, NCPA staff have developed the First Amendment to implement this change, specifically substituting Ulteig Operations, LLC in place of Ulteig Engineers, Inc. in the Agreement. The total not to exceed amount of the Agreement will remain unchanged at a not to exceed amount of \$1,200,000.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the General Manager of NCPA to enter into the First Amendment to the General Services Agreement between NCPA and Ulteig Engineers, Inc. Accepting Assignment to Ulteig Operations, LLC for Meter Maintenance, including any non-substantive modifications to the First Amendment approved by the NCPA General Counsel. No other meeting attendees had any objections or questions. This item will move forward to the next Commission Meeting scheduled on January 18, 2024 on the Commission Consent Calendar.

- 13. NCPA Inter-Agency Resource Plan –** Staff provided background information and was seeking a recommendation for Commission adoption of the NCPA Inter-Agency Resource Plan to

prepare, develop, and maintain a diverse generation resource portfolio in accordance with or exceeding renewable portfolio standards and capacity obligations.

On April 29, 2021 the NCPA Commission approved the Strategic Plan for 2021 – 2026 (Resolution: 21-42). The strategic plan set multiple priorities which included the Agency to evaluate its resources and Member resources to better prepare for the future. In doing so, an Inter-Agency Resource Plan (IARP) was proposed.

The purpose of the IARP was to map a future course of actions to develop and procure resources through 2045 to optimize a resource portfolio to meet the members load forecasts. The IARP is for internal use by NCPA and NCPA Members and not for regulatory filings.

The IARP identified a growing aggregated load demand and new opportunities for NCPA to both procure and operate. Today NCPA Member portfolio meets RA, energy, and RPS mandates. However, the IARP shows new resources are needed after 2026. The completed NCPA IARP summarizes NCPA's resources (current resources, planned new resources, and planned retired resources), integrates energy and peak demand forecasts, and outlines planning scenarios and recommendations based on short, medium, and long-term timelines. The report concludes with recommendations to procure wind, solar, geothermal, short duration storage, and optimize NCPA's current assets, including upgrades and development of new resources. Of these recommendations, a total of 4.6 GW's of capacity was selected by 2045.

Staff is now seeking Commission adoption of the NCPA IARP to be used as a reference to advise and develop future resources and assets for NCPA and NCPA Members.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval of the NCPA Inter-Agency Resource Plan to prepare, develop, and maintain a diverse generation resource portfolio in accordance with or exceeding renewable portfolio standards and capacity obligations. No other meeting attendees had any objections or questions. This item will move forward to the next Commission Meeting scheduled on January 18, 2024 on the Commission Consent Calendar.

➤ ***Terry Crowley with the City of Healdsburg joined the meeting during the presentation of item 13.***

14. NCPA Preliminary Studies and Investigations Procedure – Staff presented background information and was seeking a recommendation for Commission approval of the NCPA Preliminary Studies and Investigations (PS&I) Procedure (GS-201), which will establish a process for the use of funds in the PS&I budget account, including the requirements for project evaluations approvals, funds tracking, and reimbursement.

On March 23, 2023 the NCPA Commission directed NCPA staff to establish a Preliminary Studies and Investigations (PS&I) budget account to fund activities associated with researching and/or evaluating new projects that may be of interest to NCPA Members. The Commission also directed NCPA staff to establish a procedure for the use of these funds.

NCPA staff is now seeking approval of the completed Preliminary Studies and Investigations Procedure (GS-201). As requested by the NCPA Commission, this procedure details the responsibilities and process for utilizing funds from the PS&I budget account. This procedure is applicable to any research or development project that is not specifically connected to an existing NCPA Phase II agreement.

After much discussion between the Committee Representatives on this and the next item, it was decided that these are not ready for Commission approval and that staff would take these items

back to the Commission for discussion and further clarification of the use of the funds for the PS&I Budget Account.

15. NCPA Preliminary Studies and Investigations Conceptual Projects Evaluation Approvals

– Staff presented background information and was seeking a recommendation for Commission approval to proceed with evaluations for two conceptual transmission projects, for an amount not to exceed \$102,000, to be funded from the Preliminary Studies and Investigations (PS&I) budget account.

On March 23, 2023 the NCPA Commission directed NCPA staff to establish a Preliminary Studies and Investigations (PS&I) budget account to fund activities associated with researching and/or evaluating new projects that may be of interest to NCPA Members. The Commission also directed NCPA staff to establish a procedure for the use of these funds. The corresponding Preliminary Studies and Investigations Procedure (GS-201) states that NCPA will present any prospective projects to the Commission for approval prior to spending funds from the PS&I Budget Account for project evaluation activities.

NCPA staff is now seeking approval from the Commission to spend funds to further evaluate two conceptual transmission projects. The prospective projects are summarized below.

Conceptual Transmission Project – NCPA Geothermal Project to City of Healdsburg

This project would be a screening level study for a new transmission source for serving the City of Healdsburg. NCPA has outlined two potential scenarios for the vendor to review as a part of the project evaluation. Scenario One would operate in parallel with the existing system, while the Scenario Two would use the existing system as a backup only. The results of this study will guide if the interconnection has merit and would be recommended to proceed with further development studies.

Conceptual Transmission Project – NCPA Hydroelectric Project to City of Santa Clara (Bellota to Newark)

This project would be a screening level study for a new transmission source between the Bellota area and Newark substation, for serving Silicon Valley Power. NCPA has outlined two potential scenarios for the vendor to review as a part of the project evaluation: Scenario One would lift the leads of the Collierville and New Melones powerhouses and put them on a new dedicated line to Newark, while Scenario Two would create a new transmission path between Bellota and Newark. The results of this study will guide if the interconnection has merit and would be recommended to proceed with further development studies.

After much discussion between the Committee Representatives on this and the prior item, it was decided that these are not ready for Commission approval and that staff would take these items back to the Commission for discussion and further clarification of the use of the funds for the PS&I Budget Account.

16. NCPA Geothermal Facility – Fourth Amendment to Resolution 21-109 for the NCPA

Geothermal Plant 2, Unit 4 Overhaul Project – Staff presented background information and was seeking a recommendation for Commission approval of the Fourth Amendment to Resolution 21-109 for the NCPA Geothermal Plant 2, Unit 4 Overhaul Project, increasing the total not to exceed amount of this project from \$7,400,000 to \$7,681,216 for settlement of the final invoice to close out the project.

On December 2, 2021, the NCPA Commission approved the Geothermal Plant 2 Unit 4 Overhaul Project (Resolution 21-109) for an amount not to exceed \$3,500,000. NCPA hired Reliable Turbine Services, LLC (RTS) to complete the work for the project. Subsequent Amendments to the original Resolution were approved by the Commission in November 2022, April 2023, and

October 2023, increasing the project budget and modifying the Scope of Work due to additional damage discovered by RTS.

During the course of work, numerous issues arose, resulting in extra delays and financial impacts. While NCPA was tracking and monitoring these, some of the final expenditures lagged behind, causing the work to run over the authorized amount. Factors that affected the project include unexpected findings on the row 2 turbine blade covers, extensive effort on the lube oil cleaning and flushing, and additional demobilizations due to a plant crane failure.

The work is now complete and the unit was returned to service on December 19, 2023. NCPA staff is now requesting to increase the project not to exceed amount from \$7,400,000 to \$7,681,216 to account for the remaining charges incurred over the course of this project.

There was discussion among the Committee Representatives with lots of questions regarding this fourth amendment and the cost of the final invoice to close out this project. Staff will bring this item back at a later date for more discussion and approval.

- 17. NCPA Geothermal Facility – Geothermal Plant 1, Unit 2 Overhaul Project** – Staff presented background information and was seeking a recommendation for Commission Approval of the Geothermal Plant 1, Unit 2 Overhaul Project and delegating authority to the General Manager or his designee to award bids, execute agreements, and to issue purchase orders for the project in accordance with NCPA purchasing policies and procedures, including approval for the turbine work to be awarded on a sole-source basis, without further approval by the Commission, for a total project cost not to exceed \$6,500,000, and authorizing the use of previously collected Decommissioning Funds to fund the project. These funds are to be replenished over a three-year period through the normal budgeting process.

In March 2023, Geo Plant 1, Unit 1 was taken offline for routine Stretford maintenance. During the course of inspections, NCPA staff found evidence of damage to the steam strainer. Out of an abundance of caution, NCPA also completed an inspection of the steam strainer in Unit 2. No signs of damage were discovered, and after completing routine maintenance, Unit 2 was returned to service.

In May 2023, NCPA hired Reliable Turbine Services, LLC (RTS) to perform a Steam Path Inspection of Unit 1. The Unit 1 rotor was found to have severe wear on the L-0 or last stage turbine blades. The turbine rotor and diaphragms were pulled and sent offsite for refurbishment. It was determined that the L-0 blades could not be repaired, and new blades would need to be manufactured. Because both units were installed at the same time and had similar operating conditions, NCPA staff was concerned about the condition of the blades in Unit 2. So, NCPA staff prepared to complete a thorough visual inspection at the next available opportunity, and to closely monitor the Unit 2 turbine vibration data until an examination could take place.

In December 2023, during a planned transmission line outage scheduled by Pacific Gas and Electric (PG&E), RTS was able to perform a nondestructive visual inspection on the Unit 2 turbine rotor L-0 blades. The visual inspection revealed significant wear on the L-0 blades. As with Unit 1, RTS recommends that the L-0 blades be replaced. Due to the high probability of a catastrophic failure, RTS does not recommend putting Unit 2 back into service until the blade replacement is complete. NCPA consulted with Siemens Energy USA, Inc. for a second opinion. Siemens agreed with RTS' findings that the blades must be replaced and the unit should remain offline until this work is complete. As with the Unit 1 blades, the Unit 2 blades will need to be reverse-engineered.

Plant 1, Unit 2 was scheduled for a planned outage in March 2024. Delaying work to repair the blades until the original planned outage in March poses a safety concern from the deteriorated

state of the blades and will likely result in this outage extending into the critical summer months. Therefore, the recommended course of action is to seek immediate authority to initiate the outage and take advantage of the knowledge, staff, and resources working on Plant 1, Unit 1.

The Scope of Work for the proposed Plant 1, Unit 2 Overhaul includes the following:

- Turbine Overhaul and Generator Testing – The testing is required to ensure the generator maintenance schedule can stay consistent with the turbine maintenance schedule. The turbine overhaul includes identified items such as the L-0 blades and service of Row 4 blades.
- Transportation and Insurance – Required to send the Unit 2 turbine rotor and diaphragms off site for refurbishment.
- Unit 2 GSU Transformer Overhaul – Installation of new bushings, seals, and replacement of transformer oil. This unit currently has several oil leaks that need to be serviced.
- Balance of Plant Work – Maintenance to Plant Pumps, Motors, Cooling Tower equipment, and Stretford System. These systems are critical to the reliability of the plant and require a full plant outage on common systems. NCPA is being proactive on the timing to reduce future unplanned outages.
- Lakeville 230kV Line Repairs – It was identified in the Western line assessment report that the last patch installed was intended to be a temporary measure. A permanent fix is required to ensure reliability of this line and for wildfire mitigation.

Going forward, NCPA's Geothermal staff will begin implementing a new outage task to inspect and borescope the turbines regularly to monitor the degradation and optimally time the outage schedules. These will be adjusted as needed based on conditions discovered.

Due to the lack of a quorum, no formal action was taken. However, the Members present at the meeting voiced their support of the recommendation for Commission approval authorizing the Geothermal (Geo) Plant 1, Unit 2 Turbine Overhaul Project and delegating authority to the General Manager or his designee to award bids, execute agreements, and to issue purchase orders for the project in accordance with NCPA purchasing policies and procedures, including approval for the turbine work to be awarded on a sole-source basis, without further approval by the Commission, for a total not to exceed \$7,200,000, and authorizing the use of previously collected Geo Decommissioning Reserve funds to fund the project. These funds are to be replenished by the Project Participants over a three-year period through the normal budgeting process. No other meeting attendees had any objections or questions. This item will move forward to a Special Commission meeting on January 5, 2024.

- 18. Resolution Commending Alan Harbottle** – Adopt a resolution by all Facilities Committee Members commending the service of Alan Harbottle, acting in the role of Facilities Committee Chair during Calendar Year 2023.

Due to the lack of a quorum no formal action was taken on this item.

INFORMATIONAL ITEMS

- 19. New Business Opportunities** – Staff will provide an update regarding new business opportunities.

City of Roseville RFP 07-096 – NCPA submitted a proposal on 12/20/23 to supply Services including core services of front, middle and back offices, and supplemental and future services on a time and material basis.

- Pricing for Proposed Services

- Incremental to RSVL existing Nexant Allocation
- \$1,225,000, escalated at 2.0% per year for Term
- Based on Nexant model simulation
- Transition Timeline
 - Focused integration effort July 2024 – December 2024
 - Procedures, technology, training, integration
- Staffing and Resources
 - Estimate 2 FTE staff additions will be needed
 - Pre-Scheduling and Energy Resource Analyst

Grace Solar Update

- Steps Completed:
 - Executed Non-Binding Letter of Intent for PPA Negotiations
 - Executed Confidentiality Agreement between NCPA and NextEra
- Next Steps:
 - NextEra to provide a draft PPA for consideration; once received NCPA will review and provide feedback to participating members
- Current Member Interest:
 - Biggs, Gridley, Healdsburg, Lodi, Lompoc, Port of Oakland, Plumas-Sierra, Ukiah, Shasta Lake, Santa Clara

Sunrise Energy – McCloud Solar Project

- Project Description:
 - 140 MW Solar PV Project (with BESS option)
 - Solar is Energy Only, BESS pending deliverability
 - Located in NP15; Corning, CA
 - Pricing:
 - Solar PV: \$44.00 / MWh with 0% escalation
 - BESS: \$12.00 / kW-month (subject to deliverability)
 - Term: Solar PV 25-year term, BESS 15-year term
 - Est. COD: 2029
 - Interconnection:
 - Cluster 14 project; Phase 1 complete
 - Interconnected in CAISO BAA; possible BANC interconnection

RAI Energy – Wildcat Energy Farm

- Project Description:
 - 100 MW Solar PV Project (with BESS option)
 - Located in IID; delivered to SP15
 - Pricing:
 - Solar PV: \$36.50 / MWh with 0% escalation
 - BESS: \$15.25 / kW-month
 - NP15 pricing option removed
 - Term: 20-year term
 - Est. COD: 9/1/2026
 - Interconnection:
 - Interconnected to IID
 - Dynamic / Pseudo scheduled into CAISO BAA @ SP15

20. Nexant Cost Allocation Model Billing Determinants for FY 2025 – Staff reviewed the initial calendar year 2023 billing determinants that will be used in the FY 2025 Nexant Cost Allocation Model.

The Nexant Model is the Commission-approved methodology used to allocate Power Management and certain Administrative Services budget costs to Members and Participants. Staff identified and reviewed the source of changes to Members' respective costs from the change in underlying calendar year 2023 operating data used as allocators in the model. The final version of the Nexant Cost Allocation Model and associated underlying operational data are scheduled to be finalized by January 11, 2024, and published to NCPA Connect for Member review and feedback.

The initial allocated results for FY 2025 indicate the biggest increases to Lompoc, Palo Alto, and Alameda by approximately 18.52%, 7.04%, and 6.43% respectively, with the updated CY 2023 determinants. Members with the biggest decreases include Port of Oakland, TID, and Gridley at 27.35%, 17.66%, and 15.58% respectively. Staff reviewed the underlying operational data, and provided an analysis regarding the cost drivers that resulted in the relative percentage changes in the allocations to Members.

The final proposed modifications for the FY 2025 Nexant Cost Allocation Model determinants results will be presented at the February Facilities Committee meeting. Staff will seek a recommendation for Commission approval at that time.

21. NCPA Generation Services Plant Updates – Plant Staff provided the Committee an update on current plant activities and conditions.

Hydro – Collierville (CV) Power House was at 100% availability during the month of December. New Spicer Meadows (NMS) Power House was at 91% availability due to a PG&E TIGO. The monthly generation profiles for CV and NMS were shared with the Committee. Precipitation was less than half of average for the month. It's been a slow start to the water year with low snow pack and precipitation. The McKays 17kV transmission line tripped due to high winds during the month. Vegetation maintenance was performed at the Collierville drainage.

New Spicer Meadows Reservoir Storage

- 9,206-acre feet decrease (9%) month-over-month
- 101,855-acre feet to 92,649-acre feet
- Storage levels remain strong going into winter
- Optimizing stored water

Current Events

- Projects
 - CCWD coordination meetings –January 11th
 - McKays sediment relocation site discussion with local private landowner
 - CV Drainage Project alternatives analysis nearly complete
 - 17KV fire hardening design 75% complete

CTs – CT1 had 0 starts of 0 forecasted. FYTD total is 57 starts. CT2 had 0 starts of 1 forecasted. FYTD total is 27 starts.

▪ **Outages**

- **CT1 Lodi** – Available
- **CT1 Alameda U1/U2** – Available
- **CT2 STIG** – Available

▪ **CT1 Lodi Run Hours**

- YTD hours 33.4 of 200 Allowed (based on calendar year)

▪ **CT1 Alameda Diesel Hours**

- U1= 4.85 hrs. of 42 (during any consecutive 12-month period)
- U2= 3.75 hrs. of 42 (during any consecutive 12-month period)

- **Safety and Environmental**
 - No safety issues to report
 - No environmental issues to report
- **2024 Planned Outages**
 - CT1 Lodi- 1/1/24 thru 1/31/24
 - CT2 STIG- 4/1/24 thru 4/30/24
 - CT1 Alameda U1/U2- 5/1/24 thru 5/31/24
- Staff reviewed the CAISO Commitment Runs for December 2023

Geo – There were no safety incidents for the month of December. The average Net Generation for the month of December was 35.1 MW. The total net generation was 26.1 GWh. CY 2023 actual net generation = 516.6 GWh, which is 22.3% below forecast. CY net generation goal was 664.8 GWh. Photos were shared with the Committee of the progress for the Unit 4 Overhaul Project. Repairs of the spare Unit 4 turbine rotor were completed and the unit was back up online December 19, 2024. Blade roots were sandblasted and cleaned for the Unit 1 steam strainer damage. Staff is waiting for new blades to be installed in late January 2024. Unit 1 diaphragm and seals were repaired and shipped back on December 29, 2023. Unit 2 underwent a turbine rotor inspection.

2024 Outage Update

- Plant 1 – March 24 Outage will be canceled due to the ongoing work at Unit 1 and 2
 - All BOP work will be conducted in Jan and Feb
 - Unit 1 - Outage to be complete by end of Feb
 - Unit 2 - Outage to be complete by end of May
- Plant 2 – May 24 Outage will be canceled due to the recent work performed on Unit 4 in 2023

22. Planning and Operations Update

- Resource Integrations
 - NID Deer Creek – Dec 2023 / Jan 2024
 - Lodi Strategic Reserve Resource – Jan 2024
 - Scarlet Solar / BESS – Mid-2024
 - Proxima Solar / BESS – Mid-2024
- SCPA SC Transition Activities
- Resource Development
 - ZWEDC – negotiations complete
 - Grace Solar Project – active negotiation
 - Wildcat Solar Project – active proposal
 - Sunrise Energy – active proposal
 - NCPA working to refresh Renewable RFP – Q1 2024
 - Influenced by IARP due to presented to the Commission in January 2024
- Ongoing daily operational activities
- The current market conditions and gas storage for the Pacific Region were reviewed
- Current reservoir storage remains high with most reservoirs above or near average

23. Next Meeting – The next Facilities Committee meeting is scheduled for February 7, 2024.

ADJOURNMENT

The meeting was adjourned at 2:00 pm by the Committee Chair.

**Northern California Power Agency
January 3, 2024 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	
BART	
BIGGS	
GRIDLEY	
HEALDSBURG	
LODI	<i>Gray Curney</i>
LOMPOC	
PALO ALTO	
PLUMAS-SIERRA REC	
PORT OF OAKLAND	
REDDING	
ROSEVILLE	<i>B. S. H.</i>
SANTA CLARA	
SHASTA LAKE	
TID	
UKIAH	