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Minutes

Date: September 14, 2022
To: NCPA Facilities Committee
From: Carrie Pollo
Subject: September 7, 2022 Facilities Committee Meeting Minutes

- 1. Call meeting to order & Roll Call** – The meeting was called to order by Committee Chair Jiayo Chiang (Lodi) at 9:03 am. Attending via teleconference and on-line presentation were Alan Harbottle and Roger Yang (Alameda), James Sheppard (Biggs), Cliff Wagner (Gridley), Shiva Swaminathan (Palo Alto), Khaly Nguyen (Port of Oakland), Nick Rossow (Redding), Ryley Kelly (Roseville), and Steve Hance (Santa Clara). Peter Lorenz (non-voting Representative with TID) attended via teleconference. Those attending in person are listed on the attached Attendee Sign-in Sheet. Committee Representatives from BART, Healdsburg, Lompoc, Plumas-Sierra, Shasta Lake, TID, and Ukiah were absent. A quorum of the Committee was established.

PUBLIC FORUM

No public comment.

- 2. Approval of Minutes from the August 3, 2022 Facilities Committee meeting.**

Motion: A motion was made by Steve Hance and seconded by Cliff Wagner recommending approval of the August 3, 2022 Facilities Committee meeting minutes. A vote was taken by roll call: YES = Alameda, Gridley, Palo Alto, Port of Oakland, Redding, Roseville, and Santa Clara. ABSTAIN = Biggs and Lodi. The motion passed.

- 3. All NCPA Facilities, Members, SPPA – Modesto Industrial Electrical Co., Inc. dba Industrial Electrical Co., Inc. MTGSA** – Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task General Services Agreement with Modesto Industrial Electrical Co., Inc. dba Industrial Electrical Co., Inc. for motor maintenance services, with a not to exceed amount of \$500,000, for use at all facilities owned and/or operated by NCPA, NCPA Members, by SPPA, and SPPA Members.

This is an existing NCPA vendor. The current agreement with Industrial Electrical Co., Inc. 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. NCPA has agreements in place for similar services with Caltrol, Inc., Custom Valve Solutions, Koffler Electrical Mechanical Apparatus, and Martech. 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 and agreement were available for review. It is recommended to place this item on the Commission Consent Calendar.

Motion: A motion was made by Jiayo Chiang and seconded by Shiva Swaminathan recommending Commission approval authorizing the General Manager or his designee to enter into a Multi-Task General Services Agreement with Modesto Industrial Electrical Co., Inc. dba Industrial Electrical Co., Inc. for motor maintenance services, with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$500,000 over five years, for use at any facilities owned and/or operated by NCPA, NCPA Members, by SCPPA and SCPPA Members. A vote was taken by roll call: YES = Alameda, Biggs, Gridley, Lodi, Palo Alto, Port of Oakland, Roseville, and Santa Clara. ABSTAIN = Redding. The motion passed.

- 4. All NCPA Facilities, Members, SCPPA – Nooter/Eriksen, Inc. MTGSA-EMS** – Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task General Services Agreement and Agreement for Equipment, Materials and Supplies with Nooter/Eriksen, Inc. for heat recovery steam generator (HRSG) support services and parts, with a not to exceed amount of \$500,000, for use at all facilities owned and/or operated by NCPA, NCPA Members, by SCPPA, and SCPPA Members.

This is a new agreement with 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. NCPA currently has agreements in place with HRST, Inc. and Tetra Engineering Group, Inc. for similar services. 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 and agreement were available for review. It is recommended to place this item on the Commission Consent Calendar.

Motion: A motion was made by Alan Harbottle and seconded by Steve Hance recommending Commission approval authorizing the General Manager or his designee to enter into a Multi-Task General Services Agreement and Agreement for Purchase of Equipment, Materials and Supplies with Nooter Eriksen, Inc. for heat recovery steam generator (HRSG) support services and parts, with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$500,000 over five years, for use at any facilities owned and/or operated by NCPA. A vote was taken by roll call: YES = Alameda, Biggs, Gridley, Lodi, Palo Alto, Port of Oakland, Roseville, and Santa Clara. ABSTAIN = Redding. The motion passed.

- 5. All NCPA Facilities, Members, SCPPA – Unique Scaffold MTGSA** – Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task General Services Agreement with Unique Scaffold for scaffolding 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, by SCPPA, and SCPPA Members.

This is an existing NCPA vendor. The current agreement is with Ernie & Sons Scaffolding, Inc. dba Unique Scaffold. Ernie & Sons Scaffolding has transferred their assets to Unique Scaffold. 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. NCPA has agreements in place for similar services with American Industrial Scaffolding, Inc., ASRC/D2 Industrial (pending), BrandSafway, LLC and Elevator, LLC. 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 and agreement were available for review. It is recommended to place this item on the Commission

Consent Calendar.

Motion: A motion was made by Steve Hance and seconded by Shiva Swaminathan recommending Commission approval authorizing the General Manager or his designee to enter into a Multi-Task General Services Agreement with Unique Scaffold for scaffold related 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. A vote was taken by roll call: YES = Alameda, Biggs, Gridley, Lodi, Palo Alto, Port of Oakland, Roseville, and Santa Clara. ABSTAIN = Redding. The motion passed.

- 6. All NCPA Facilities (Except LEC), Members, SCPPA – Ford Construction Company, Inc. MTGSA** – Staff presented background information and was seeking a recommendation for Commission approval of a five-year Multi-Task General Services Agreement with Ford Construction Company, Inc. for general maintenance services, with a not to exceed amount of \$3,000,000, for use at all facilities owned and/or operated by NCPA (except LEC), NCPA Members, by SCPPA, and SCPPA Members.

This is an existing NCPA vendor. The current agreement with Ford Construction Company, Inc. 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 projects. NCPA has agreements in place for similar services with K.W. Emerson, Inc. and Syblon Reid. 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 and agreement were available for review. It is recommended to place this item on the Commission Consent Calendar.

Motion: A motion was made by Shiva Swaminathan and seconded by Jiayo Chiang recommending Commission approval authorizing the General Manager or his designee to enter into a Multi-Task General Services Agreement with Ford Construction Company, Inc. for general maintenance 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 (except the Lodi Energy Center), NCPA Members, by SCPPA, and SCPPA Members. A vote was taken by roll call: YES = Alameda, Biggs, Gridley, Lodi, Palo Alto, Port of Oakland, Roseville, and Santa Clara. ABSTAIN = Redding. The motion passed.

- Prior to the presentation of item # 7, Mike Brozo (Plumas-Sierra) joined the meeting via teleconference and online presentation.

- 7. Casualty Insurance Program Extension to March 1, 2023** – Staff presented background information and was seeking a recommendation for Commission approval to extend the current liability insurance program.

NCPA utilizes Alliant Insurance Services, Inc. as the Agency's broker to procure Casualty insurance, including Liability, Workers Comp, and Auto coverages. Over the last several years, the renewal process has been increasingly challenging because of higher premiums and broker delays. The leading cause for this delay is the Liability program being presented and negotiated during the height of the wildfire season. Despite having a robust Wildfire Mitigation Plan and our vegetation management practice, the media coverage of California wildfires seems to suggest that our plants are in constant and imminent danger.

One of the goals identified in the 2021-2026 Strategic Plan was to develop a long-term, cost-effective insurance coverage strategy. The current casualty insurance coverage expires on

December 31, 2022. After a thorough discussion with Alliant, they suggested moving the renewal outside the typical wildfire season by extending our current coverage by two months. In addition, after meeting with the Chief AEGIS underwriter in July 2022, they corroborated Alliant's recommendation stating that moving the renewal date was in the best interest of NCPA.

NCPA directed Alliant to approach the markets requesting if an extension to the current Casualty programs were an option they would consider. After a few months of negotiations, the markets agreed. A summary of the premiums is detailed in the table below:

NCPA			
Program	Carrier	Current Premium	Extension NTE
Excess Liability	AEGIS	1,091,244	209,000
Excess Liability	EIM	179,460	34,000
Excess Liability	Ironshore	77,437	15,000
Workers Comp	Liberty Mutual	229,089	44,000
Auto	Liberty Mutual	60,185	12,000
		Total	314,000
LEC			
Program	Carrier	Current Premium	Extension
Excess Liability	AEGIS	170,836	33,000
		Total	33,000
		Grand Total	347,000

Moving the renewal date of the liability insurance program will have no impact on the coverages or limits provided by the current program. Furthermore, moving the renewal date will not interfere with or change anything associated with the property insurance program provided by FM Global. The actual prices will come in lower than presented today.

Motion: A motion was made by Steve Hance and seconded by Shiva Swaminathan recommending Commission approval authorizing the General Manager to extend the expiration of the Agency's Casualty insurance coverage from 12/31/2022 to 2/28/2023 at a not-to-exceed premium of \$347,000. A vote was taken by roll call: YES = Alameda, Biggs, Gridley, Lodi, Palo Alto, Plumas-Sierra, Port of Oakland, Roseville, and Santa Clara. ABSTAIN = Redding. The motion passed.

- NCPA Geothermal Facility – Rejection of All Original Bids Received on July 1, 2021 for the NCPA Geothermal Plants #1 & #2 Emergency Shower and Eyewash Stations Replacement Project** – Staff provided background information and was seeking a recommendation for Commission approval delegating authority to the General Manager or his designee to reject all original bids received on July 1, 2021 for the Geothermal Plants #1 and #2 Emergency Shower and Eyewash Stations Replacement Project.

The emergency showers and eyewash stations at NCPA's Geothermal Plants #1 and #2 are in disrepair and out of compliance with current OSHA standards and must be replaced. An outside engineering firm was hired to provide an estimate for replacement of the thirteen emergency

showers and eyewash stations. The engineering firm estimated this project would cost approximately \$200,000.

In accordance with the NCPA procurement policies and procedures, NCPA followed a formal Public Works Bid process for this project. On May 24 2021, NCPA posted a Notice Inviting Bids for the Geothermal Plants #1 and #2 Emergency Shower and Eyewash Stations Replacement Project (GEO376), with proposals due by July 1, 2021. Bid walks took place on June 8, 2021 and June 10, 2021, and there were three attendees. Staff received bids from two vendors, as shown below:

Vendor	Bid
Hudson Mechanical	\$829,480.00
Northern Industrial Construction	\$561,035.35

The bids received were substantially higher than the amount available for this project in the FY 2022 budget. The Contract Documents for this project allow the Agency to exercise its discretion and request the NCPA Commission to reject all bids. Geothermal project staff determined it would be prudent to delay this project until FY 2023 to allow time for additional funds to be allocated to perform this work. As a result of rejecting these bids, staff will be seeking approval of new bids that will be presented in a subsequent Staff Report.

At the time of original bidding, there was \$200,000 allocated for this work in the FY 2022 budget. Thus, there were not sufficient funds available for NCPA to move forward with this project based on the bids received. Geothermal project staff determined that delaying the project until the next fiscal year would allow time for additional funds to be allocated to perform this work.

Motion: A motion was made by James Sheppard and seconded by Jiayo Chiang recommending Commission approval delegating authority to the General Manager or his designee to reject all original bids received on July 1, 2021 for the Geothermal Plants #1 and #2 Emergency Shower and Eyewash Stations Replacement Project. A vote was taken by roll call: YES = Alameda, Biggs, Gridley, Lodi, Plumas-Sierra, Port of Oakland, and Roseville. ABSTAIN = Palo Alto, and Redding. The motion passed.

- 9. NCPA Geothermal Facility – Geothermal Plants #1 & #2 Emergency Shower and Eyewash Stations Replacement Project** – Staff provided background information and was seeking a recommendation for Commission approval of the Geothermal Plants #1 & #2 Emergency Shower and Eyewash Stations Replacement 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, without further approval by the Commission, for a total not to exceed \$915,000, and authorizing the use of \$558,000 from the FY 2023 Geothermal Facility Project Budget, \$117,000 from FY 2022 encumbered funds, \$140,000 from the Maintenance Reserve, and \$100,000 from the FY 2023 Geothermal Facility Operations and Maintenance Budget to fund the project.

The emergency shower and eyewash stations at NCPA’s Geothermal Plants #1 and #2 are in disrepair and out of compliance with current OSHA standards. The scope of the project is to replace a total thirteen emergency showers and eyewash stations at both plants, and ensure that the stations are upgraded to OSHA standards. Sheds containing a water heater, pump, and circulating valve will be installed to provide tepid water per OSHA standards, and insulate and heat trace all piping for freeze protections. This is a mandatory project.

Total cost of this project is not to exceed \$915,000. This amount includes \$142,186.86, or approximately 18%, in contingency funds. No cash collection or budget augmentation is required for this work. Additional Maintenance Reserve collections are not anticipated in future budget

years to refund the Reserve. Purchase orders referencing the terms and conditions of any agreements executed for work related to this project will be issued following NCPA procurement policies and procedures.

A breakdown of funding sources is shown in the table below.

Description	Amount
FY 2023 Budget – Plants #1 & #2 Emergency Shower & Eyewash Stations	\$558,000
FY 2022 Budget – Plants #1 & #2 Emergency Shower & Eyewash Stations (Encumbered)	\$117,000
Maintenance Reserve – Deferred Well Workovers (\$500,000)	\$140,000
FY2023 Geothermal Facility O&M Budget	\$100,000
Total	\$915,000

In accordance with NCPA’s procurement policies and procedures, Geothermal project staff followed a Public Works Bid process for this project. On May 24, 2021, NCPA posted a Notice Inviting Bids for the Geothermal Plants #1 and #2 Emergency Shower and Eyewash Stations Replacement Project (GEO376), with proposals due by July 1, 2021. Bid walks took place on June 6 and June 8, 2021, with two attendees at each bid walk. Two vendors submitted bids: Hudson Mechanical and Northern Industrial Construction. The bids received were higher than the amount available for this project in the FY 2022 budget. Geothermal project staff determined it would be prudent to delay this project until the next fiscal year to allow time for additional funds to be allocated to perform this work.

On June 27, 2022, NCPA posted an updated Notice Inviting Bids for the Geothermal Plants #1 and #2 Emergency Shower and Eyewash Stations Replacement Project (GEO376), with proposals due by August 11, 2022. Bid walks took place on July 12, 2022 and July 14, 2022, and there were two attendees at each bid walk. Staff received bids from two vendors, as shown below:

Vendor	Bid
Hudson Mechanical	\$948,555.00
Northern Industrial Construction	\$772,813.14

Geothermal project staff have evaluated the bids received and have determined Northern Industrial Construction to be the responsive, responsible bidder. If approved by the NCPA Commission, work will be awarded to Northern Industrial Construction.

Motion: A motion was made by Cliff Wagner and seconded by James Sheppard recommending Commission approval authorizing the Geothermal Plants #1 and #2 Emergency Shower and Eyewash Stations Replacement 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, without further approval by the Commission, for a total not exceed \$915,000, and authorizing the use of \$558,000 from the FY 2023 Geothermal Facility Project Budget, \$117,000 from FY 2022 encumbered funds, \$140,000 from the Maintenance Reserve, and \$100,000 from the FY 2023 Geothermal Facility Operations and Maintenance Budget to fund the project. A vote was taken by roll call: YES = Alameda, Biggs, Gridley, Lodi, Plumas-Sierra, Port of Oakland, Roseville, and Santa Clara. ABSTAIN = Palo Alto, and Redding. The motion passed.

10. NCPA Geothermal Facility – Geothermal H-Line Pipeline Repair Project – Staff presented background information and was seeking a recommendation for Commission approval of the Geothermal H-Line Pipeline 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, without further approval by the Commission, for a total not to exceed amount of \$280,000 and authorizing the use of \$67,500 of encumbered funds from the FY 2022 budget and \$212,500 from the FY 2023 Geothermal Facility Operations and Maintenance Budget to fund the project.

NCPA Geothermal staff have determined a 500-foot section of the H-Line Steam Pipeline at NCPA's Geothermal Facility is being undermined by erosion. To prevent further damage to the H-Line Steam Pipeline and avoid a possible environmental incident with the pipeline, staff is proposing repairs to the damaged portions.

The scope of work for the proposed Geothermal H-Line Pipeline Repairs Project will include the following activities:

- Convert a pipe support into a pipe anchor
- Repair three additional pipe supports
- Modify five water drop pots or knockout pots
- Repair several conduit pipe supports
- Repair 500 feet of eroded area to prevent further damage
- Repair pipe insulation and paint all affected pipeline sections

The total cost of this project is not to exceed \$280,000. This amount includes \$36,446, or approximately 15%, in contingency funds. Funds for this project were included in the approved FY2023 Geothermal Facility Budget as Steam Field Pipe Supports – Engineering. \$67,500 of encumbered funds from the FY 2022 budget and \$212,500 from the FY 2023 Geothermal Facility Operations and Maintenance Budget will be used to fund this project. No cash collection or budget augmentation is required for this work. Purchase orders referencing the terms and conditions of any agreements executed for work related to this project will be issued following NCPA procurement policies and procedures.

In accordance with NCPA's procurement policies and procedures, Geothermal project staff followed a formal Public Works Bid process. On July 5, 2022, NCPA issued a Notice Inviting Bids for the Geothermal H-Line Pipeline Repairs Project (GEO395), with proposals due by August 25, 2022. A bid walk took place on July 19, 2022 and July 21, 2022, and there were four attendees. NCPA received bids from two vendors: Hudson Mechanical, and Northern Industrial Construction. Staff have evaluated the bids received and have determined Northern Industrial Construction to be the responsive, responsible bidder with a bid of \$243,554. If approved by the NCPA Commission, work will be awarded to Northern Industrial Construction.

Motion: A motion was made by Jiayo Chiang and seconded by Alan Harbottle recommending Commission approval authorizing the Geothermal H-Line Pipeline Repairs 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, without further approval by the Commission, for a total not exceed \$280,000 and authorizing the use of \$67,500 of encumbered funds from the FY 2022 budget and \$212,500 from the FY 2023 Geothermal Facility Operations and Maintenance Budget to fund the project. A vote was taken by roll call: YES = Alameda, Biggs, Gridley, Lodi, Port of Oakland, Roseville, and Santa Clara. ABSTAIN = Palo Alto, and Redding. The motion passed.

- 11. NCPA Geothermal Facility – Geothermal Plant 2 Cooling Tower Basin Clean-Out Project –**
Staff provided background information and was seeking a recommendation for Commission approval of the Geothermal Plant 2 Cooling Tower Basin Clean-Out 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, without further approval by the Commission, for a total not exceed \$620,024, and authorizing the use of \$150,024 from the Maintenance Reserve to fund this project.

The Unit #3 and Unit #4 cooling tower basins at NCPA’s Geothermal Plant #2 need to be cleaned of sediment. NCPA Geothermal Plant #2 is due for a six-week overhaul starting on November 1, 2022. Geothermal project staff would like to complete the cleaning of the Unit #3 and Unit #4 cooling tower basins during the upcoming overhaul.

In April 2010, the Unit #3 cooling tower was shut down and left in cold standby. Non-operation of the cooling tower presented a fire hazard and the tower was demolished in May 2014, leaving the basin intact. Since that time, the Unit #3 basin has been used for the disposal of liquid sedimentary waste. Staff has determined that the Unit #3 basin can be utilized as storage for additional make up water to offset evaporation in the Unit #4 cooling tower, thus avoiding a possible loss in efficiency and the potential for curtailment of the unit during the summer months. The scope of work for this project will include the removal and disposal of sedimentation in the Unit #3 basin, which will allow it to be used for water storage going forward.

The Unit #4 cooling tower continues to be in use, but has not been cleaned since the 2016 Plant #2 overhaul. Cleaning of this type is customary during major overhauls. The scope of work for this project will also include draining the Unit #4 cooling tower basin, and removing and disposing of any sediment buildup.

The total cost of this project is not to exceed \$620,024. This amount includes \$103,337, or approximately 20%, in contingency funds and \$10,600 for a performance bond. \$470,000 for the Geothermal Plant 2 Cooling Tower Basin Clean-Out Project was approved in the FY 2023 budget. An additional \$150,024 will come from the Maintenance Reserve to fund this project. No cash collection or budget augmentation are required for this work. Purchase orders referencing the terms and conditions of any agreements executed for work related to this project will be issued following NCPA procurement policies and procedures.

A breakdown of the project costs is shown in the table below.

Geothermal Plant #2 Cooling Tower Basin Clean Out Project	Cost
Unit #4 Basin Clean Out	\$ 158,047
Unit #3 Basin Clean Out	\$ 348,040
Performance Bond	\$ 10,600
Sub-Total (Bid Amount)	\$ 516,687
Contingency (~20%)	\$ 103,337
Total Project Cost	\$ 620,024

In accordance with NCPA’s procurement policies and procedures, Geothermal project staff followed a formal Public Works Bid process. On July 12, 2022, NCPA issued a Notice Inviting Bids for the Geothermal Plant #2 Cooling Tower Basin Clean-Out Project (GEO397), with proposals due by August 4, 2022. A bid walk took place on July 26, 2022, and there were three attendees. NCPA received one bid from MP Environmental Services, Inc. Staff evaluated the bid received and plans to award this work to MP Environmental Services, Inc. pending project approval by the NCPA Commission.

Motion: A motion was made by Steve Hance and seconded by Alan Harbottle recommending Commission approval authorizing the Geothermal Plant #2 Cooling Tower Basin Clean Out 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, without further approval by the Commission, for a total not exceed \$620,024, and authorizing the use of \$150,024 from the Maintenance Reserve to fund this project. A vote was taken by roll call: YES = Alameda, Biggs, Gridley, Lodi, Plumas-Sierra, Port of Oakland, Roseville, and Santa Clara. ABSTAIN = Palo Alto, and Redding. The motion passed.

12. NCPA Hydro Facility – Stanislaus Weather Modification Program Request for Additional Funds – Staff presented background information and was seeking a recommendation for Commission approval to amend Resolution 18-68 authorizing the request for additional funds for the Stanislaus Weather Modification Program, increasing the total not-to-exceed amount of this Program from \$1,800,000 to \$2,100,000, and delegating authority to the General Manager or his designee to award bids, execute agreements, and to issue purchase orders for the Program in accordance with NCPA purchasing policies and procedures, without further approval by the Commission, for the remaining term of the Program.

The Stanislaus Weather Modification Program was originally approved in the August 23, 2018 Commission meeting (SR 186:18; Resolution: 18-68) with a budget not-to-exceed \$1,800,000. NCPA started the Program with RHS Consulting Ltd. and spent \$205,591.21 of the Program funds in the Winter 2018-2019. NCPA and RHS mutually agreed, after the completion of the 2018-2019 season, to discontinue working together for the remainder of the term. NCPA elected to move forward with the second, and only other responsive bidder, Weather Modification LLC for the remainder of the Program.

The overall Program estimate of \$1,800,000 was structured with the cost estimates consistent with the lower bidder RHS as well as actual costs experienced during each season which are contractually comprised of both fixed and variable costs. The requested budget augmentation reflects the higher costs of the original Weather Modification LLC bid as well as increases to contractual variable costs associated with flight hours, fuel, and materials. This has resulted in the need to increase the total Program authorization amount by an additional \$300,000 for a total not-to-exceed cost of \$2,100,000.

Total initial estimated cost of the Program for a five (5) year period was not-to-exceed \$1,800,000. This was based on unit / quantity assumptions provided to contractors, the price proposal recommended for acceptance for (\$274,793) for the winter period beginning November 1, 2018 through April 30, 2019. Additional costs could be incurred if services are requested for an additional month, or if actual costs (airplane flight time and consumables) are more than anticipated.

Winter Year	Original Estimate	Actual	Water Year Type
2018-2019	\$274,793	\$205,591	Wet
2019-2020	\$291,637	\$453,438	Dry
2020-2021	\$301,399	\$398,013	Dry
2021-2022	\$311,979	\$410,851	Dry
Program To Date	\$1,179,808	\$1,467,893	
2022-2023	\$322,956	\$423,080	
Subtotal	\$1,502,764	\$1,890,975	
Contingency	20%	11%	
Total Project Cost	\$1,800,000	\$2,100,000	

Total cost will not exceed \$2,100,000 over the five year term of the Program (ending August 2023). Purchase orders associated with agreements executed for this Program will utilize approved Hydroelectric budget funds.

Scientific experts in the field of weather modification estimate the snow pack can be increased from 2% to more than 10% percent by a well-managed weather modification Program. An increase of 2% would result in approximately ten thousand (10,000) MWh per year for the NCPA Hydroelectric Project during an average snow pack year. The value of an additional 10,000 MWh's for 2023 is on the order of \$700,000 (assuming a weighted price of \$70/MWh). Cost allocation will be based on project participation percentages.

A formal Request for Proposal was released on June 18, 2018 and sent to the three (3) vendors that were known to provide cloud seeding services in California. Two (2) responsive proposals were received. In accordance with NCPA's procurement policies and procedures, these responses were evaluated and RHS Consulting Ltd. was initially selected based on qualifications of the bidder's proposed Project Team, recent and relevant cloud seeding experience, proposed project approach, compliance with CEQA, willingness to sign NCPA's General Services Agreement, and corresponding fees. NCPA and RHS mutually agreed, after the completion of the 2018-2019 season, to discontinue working together for the remainder of the term. NCPA elected to move forward with the second, and only other responsive bidder, Weather Modification LLC, for the remainder of the Program.

Environmental impact considerations were previously analyzed by and are covered by an Initial Study and Negative Declaration ("IS/ND") adopted by the Commission on January 12, 2006. In anticipation of extending the Program by an additional five (5) years, NCPA prepared an Addendum to the IS/ND which was approved in the August 23, 2018 Commission Meeting (SR 168:18; Resolution: 18-52). The Addendum shows that the continuation of the Program will not result in any new or previously unidentified significant impacts.

Motion: A motion was made by Shiva Swaminathan and seconded by Cliff Wagner recommending Commission approval authorizing the request for additional funds for the Stanislaus Weather Modification Program, increasing the total not-to-exceed amount of this Program from \$1,800,000 to \$2,100,000, and delegating authority to the General Manager or his designee to award bids, execute agreements, and to issue purchase orders for the Program in accordance with NCPA purchasing policies and procedures, without further approval by the Commission, for the remaining term of the Program. A vote was taken by roll call: YES = Alameda, Biggs, Gridley, Lodi, Palo Alto, Plumas-Sierra, Port of Oakland, Roseville, and Santa Clara. ABSTAIN = Redding. The motion passed.

INFORMATIONAL ITEMS

13. New Business Opportunities – Staff provided an update regarding new business opportunities.

Calpine Geothermal Offer

- Term: 12 years commencing 1/1/2025
- Volume: 50 MW base 7x24; potentially up to an additional 50 MW
- Price: To Be Discussed
- All other terms per the term sheet
- Key Next Steps:
 - Transaction Confirmation Negotiations
 - RA Agreement
 - RPS Agreement
 - Member Project subscription
 - Third Phase Agreement process
 - Confirm level of interest with Members

14. Meter Maintenance Program Update – Staff provided an update regarding proposals received in response to NCPA’s Request for Proposals for Meter Maintenance Program Services.

CAISO Certified Meters must be certified and repaired in short order. NCPA staff have been experiencing a growing number of challenges without the Meter Maintenance Program. Staff propose developing a new Meter Maintenance Program to enable timely responses to issues. A RFP was created for these services. NCPA received proposals from Trimark Associates, Inc., and Ulteig Engineering, Inc.

- Two (2) Vendors
 - Trimark Associates – Final Bid - \$247K Annually
 - Ulteig – Final Bid - \$148K Annually
- Scope Capability

	Trimark	Ulteig
Provide Routine Preventative Meter Maintenance	Yes	Yes
Provide Unplanned Emergency Repair/Replacement (both metering and telecomm equipment)	Included	T&M
Oversee ISP Repairs	Included	T&M
Able to Travel and Service 49 Total Meters throughout Northern CA	Yes	Yes

Staff feels repairs under time and material cost structure will still provide a lower cost. Staff recommend using Ulteig to provide the Member meter maintenance services. Updates will be provided in future meetings regarding the Meter Maintenance Program Agreement and enabling agreement with Ulteig.

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

Hydro – Collierville (CV) Power House was 99% available during the month of August due to Unit 2 brushes. New Spicer Meadows Power House was at 99% availability due to Unit 3 oil pump. New Spicer Meadows storage decreased by 17,049 acre feet at 15% month over month from 116,199 acre feet to 99,150 acre feet as of September 6, 2022. At this time last year New Spicer Meadows Reservoir storage was only 67,960 acre feet. Current regulatory activities include completion of the FERC and DSOD annual inspections, FERC reviewing the supplemental environmental documentation for QCIP for annual dam maintenance, conducting ongoing CAOES EAP consultations, completed Lake Alpine Dam stability analysis, and preparation for the USGS annual audit process. Maintenance in the upper watershed includes Phase 1 work on Alpine Dam, work on Union Dam next week, and Utica valve operator replacement in October. Planned maintenance outages began yesterday with the Spicer Powerhouse Unit 3. Unit 1 will begin the week of September 12, 2022, and Unit 2 will begin the week of September 19, 2022. Beaver Creek and North Fork intakes cleanouts will be during the week of the September 26, 2022. The Collierville dual unit outage begins October 1, 2022 followed by the Unit 2 outage from October 2 – 14, 2022, and Unit 1 October 17 – 28, 2022.

CTs – CT1 had 32 actual starts, with 28 in real time and 4 ghost, of 46 forecasted. FYTD total is 54 starts. CT2 had 3 starts this month of 21 forecasted. FYTD total is 5 starts. CT1 Lodi was forced into an outage due to the generator power quality meter August 16 – 17, 2022. CT2 had a forced outage due to a gas turbine lube oil hose August 17 – 30, 2022. CT1 Lodi has used 171.6 hours (85%) of 200 allowed based on a calendar year. CT1 Alameda Diesel Unit 1 has used 12.58 hours of 20, and Unit 2, 12.27 hours of 20, based on a rolling year. Staff reviewed the CAISO Commitment Runs for August 2022.

Geo – There were no safety incidents to report for the month of August. Safety training is 66% complete. The plant conducted a second round of hands on CPR/AED training. The Geo staff also conducted a tour for the Port of Oakland August 11, 2022. The average net generation level for the month was 91.2 MW. Total net generation was 67.8 GWh. Actual year 2022 net generation was 526.7 GWh YTD, 2.7% over forecasted. The year 2022 Net Generation Forecast was 512.8 GWh YTD. FM Global was on site August 16 – 17, 2022 for their audit. Preparation for the Plant 2 overhaul from November 1 – December 16, 2022, continued during the month with Unit 4 turbine rotor refurbishment. Plant maintenance activities included the repair of the vacuum pump motor for Plant 2, and the Plant 1, Unit 1 circulating pump.

16. Planning and Operations Update

Current Market Conditions – Due to the high heat event currently going on there is an extremely high energy demand. The CAISO set a record for the all-time highest load September 6, 2022, and issued an Energy Emergency Alert 3 (EEA3) for the first time in history. The CAISO had to make adjustments to the loads. NCPA generation is running at full capacity, and responding well to the load. The forecast for today as well as the next few days is for peak demands with loads coming in higher than forecasted. By this Saturday hopefully the demand levels will start returning to normal levels. Please contact staff with any questions or concerns.

Resource Integrations in Progress

- Antelope Solar (NCPA) – October 2022
- Deer Creek – TBD
- Sandborne Storage – Q1 2023
- Scarlet Solar / Storage – Q1 2023
- Dagget Solar / Storage – Q4 2022
- Proxima Solar / Storage – Q3 2023

17. Next Meeting – The next Facilities Committee meeting is scheduled for October 5, 2022.

ADJOURNMENT

The meeting was adjourned at 11:30 am by the Committee Chair.

**Northern California Power Agency
September 7, 2022 Facilities Committee Meeting
Attendance List**

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

<u>NAME</u>	<u>AFFILIATION</u>
Carrie Pollo	NCPA
Tiago Chiang	Coda
Michael DeBortol.	NCPA
Jane Luckhardt	NCPA

**Northern California Power Agency
September 7, 2022 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>Joan Chang</i>
LOMPOC	
PALO ALTO	✓
PLUMAS-SIERRA REC	✓
PORT OF OAKLAND	✓
REDDING	✓
ROSEVILLE	✓
SANTA CLARA	✓
SHASTA LAKE	
TID	✓ (non-voting)
UKIAH	