



651 Commerce Drive  
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# Notice – Call of Special Facilities Committee Meeting

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**Date:** March 14, 2024

**To:** Facilities Committee

**From:** Shiva Swaminathan, Chair Facilities Committee

**Subject:** March 19, 2024 NCPA Special Facilities Committee Meeting Notice and Agenda

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PLEASE TAKE NOTICE that, pursuant to Government code section 54956, a special meeting of the Northern California Power Agency Facilities Committee is hereby called for March 19, 2024 at 1:30 pm to discuss those matters listed on the attached Agenda. The meeting will be held at NCPA's Roseville Office, 651 Commerce Drive, Roseville, California, 95678.

SHIVA SWAMINATHAN  
Facilities Committee Chair

SS/cp



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Roseville, CA 95678

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# Special Facilities Committee Meeting Agenda

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**Date:** Tuesday, March 19, 2024  
**Subject:** Special Facilities Committee Meeting  
**Location:** NCPA Headquarters, 651 Commerce Drive, Roseville, CA  
**Time:** 1:30 pm

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**\*\*In compliance with the Brown Act, you may participate via teleconference at one of the meeting locations listed below or attend at NCPA Headquarters. In either case, please: (1) post this Agenda at a publicly accessible location at the participation location no later than 24-hours before the meeting begins, and (2) have a speaker phone available for any member of the public who may wish to attend at your location.\*\***

## NCPA, 651 Commerce Drive, Roseville, CA 95678 (916) 781-3636

ALAMEDA MUNICIPAL PWR 2000 Grand St., Alameda, CA	BAY AREA RAPID TRANSIT 2150 Webster Street, 1 <sup>st</sup> Floor, Oakland, CA	CITY OF BIGGS 3016 Sixth Street, Biggs, CA
CITY OF GRIDLEY 685 Kentucky Street, Gridley, CA	CITY OF HEALDSBURG 401 Grove Street, Healdsburg, CA	CITY OF LODI 1331 S. Ham Lane, Lodi, CA and 221 W. Pine Street, Lodi, CA
CITY OF LOMPOC 100 Civic Ctr. Plaza, Lompoc, CA	CITY OF PALO ALTO 250 Hamilton Avenue, 3 <sup>rd</sup> Floor Palo Alto, CA	PLUMAS-SIERRA REC 3524 Muirholland Way, Sacramento CA
PORT OF OAKLAND 530 Water Street, Oakland, CA	CITY OF REDDING 3611 Avtech Pkwy., Redding, CA	CITY OF ROSEVILLE 2090 Hilltop Circle, Roseville, CA
CITY OF SHASTA LAKE 3570 Iron Court, Shasta Lake, CA	SILICON VALLEY POWER 881 Martin Ave., Santa Clara, CA	TURLOCK IRRIGATION DISTRICT 333 E. Canal Drive, Turlock, CA
CITY OF UKIAH 300 Seminary Ave., Ukiah, CA		

*The Facilities or Finance (Committee) may take action on any of the items listed on this Agenda regardless of whether the matter is described as an Action Item, or an Informational Item. This agenda is often supplemented by various documents which are available to the public upon request. Pursuant to Government Code Section 54957.5, the following is the location at which the public can view agendas and other public writings: NCPA Offices, 651 Commerce Drive, Roseville, California, or [www.ncpa.com](http://www.ncpa.com).*

*Persons requiring accommodation in accordance with the Americans with Disabilities Act in order to attend or participate in this meeting are requested to contact the NCPA Secretary at 916.781.3636 in advance of the meeting to arrange for such accommodations.*

## **REVIEW SAFETY PROCEDURES**

### **1. Call Meeting to Order and Roll Call**

#### **PUBLIC FORUM**

Any member of the public who wishes to address the Committee on matters not on the Agenda, but within the subject matter jurisdiction of the Committee, or any member of the public who desires to address the Committee on any item considered by the Committee at this meeting before or during the Committee's consideration of that item, shall so advise the Chair and shall thereupon be given an opportunity to do so.

#### **OPEN SESSION**

#### **INFORMATIONAL ITEMS**

- 2. NCPA Geothermal Facility – Second Amendment to Geothermal Plant 1, Unit 1 Steam Strainer Damage Project** – Staff is seeking a recommendation for Commission approval of Second Amendment to Resolution 23-49 authorizing additional funds of \$250,000 for the Geothermal Plant 1, Unit 1 Steam Strainer Damage 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 revised total not to exceed amount of \$5,750,000, to be funded from the cancelled Intertie Switch Project in the FY24 budget. (*Commission Category: Discussion/Action; Sponsor: Geo*)
- 3. NCPA Geothermal Facility – First Amendment to Geothermal Plant 1, Unit 2 Turbine Overhaul Project** – Staff is seeking a recommendation for Commission approval of the First Amendment to Resolution 24-02 for the Geothermal Plant 1, Unit 2 Turbine Overhaul Project: 1) authorizing additional funding and a budget augmentation of \$2,200,000 for a revised total not to exceed amount of \$9,400,000; 2) 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; and 3) authorizing the use of \$2,200,000 from the Maintenance Reserve to be replenished by Project Participants over a ten-year period in Fiscal Years 2025 - 2034 through the annual budget process. (*Commission Category: Discussion/Action; Sponsor: Geo*)

#### **ADJOURNMENT**

SS/cp



# Commission Staff Report – *DRAFT*

**COMMISSION MEETING DATE:** March 28, 2024

**SUBJECT:** Second Amendment to the NCPA Geothermal Plant 1, Unit 1 Steam Strainer Damage Project; Applicable to the following: NCPA Geothermal Facility

**AGENDA CATEGORY:** Discussion/Action

<b>FROM:</b>	Michael DeBortoli	<b>METHOD OF SELECTION:</b>
	Assistant General Manager	<i>Competitive Pricing Process</i>
Division:	Generation Services	<i>If other, please describe:</i>
Department:	Geothermal	

<b>IMPACTED MEMBERS:</b>		
All Members	<input type="checkbox"/>	City of Lodi <input checked="" type="checkbox"/>
Alameda Municipal Power	<input checked="" type="checkbox"/>	City of Lompoc <input checked="" type="checkbox"/>
San Francisco Bay Area Rapid Transit	<input type="checkbox"/>	City of Palo Alto <input type="checkbox"/>
City of Biggs	<input type="checkbox"/>	City of Redding <input type="checkbox"/>
City of Gridley	<input checked="" type="checkbox"/>	City of Roseville <input checked="" type="checkbox"/>
City of Healdsburg	<input checked="" type="checkbox"/>	City of Santa Clara <input checked="" type="checkbox"/>
		City of Shasta Lake <input type="checkbox"/>
		City of Ukiah <input checked="" type="checkbox"/>
		Plumas-Sierra REC <input checked="" type="checkbox"/>
		Port of Oakland <input type="checkbox"/>
		Truckee Donner PUD <input type="checkbox"/>
		Other <input type="checkbox"/>
<i>If other, please specify</i>		
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## **RECOMMENDATION:**

Approval of the Second Amendment to Resolution 23-49 authorizing additional funds of \$250,000 for the Geothermal Plant 1, Unit 1 Steam Strainer Damage 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 revised total not to exceed amount of \$5,750,000, to be funded from the cancelled Intertie Switch Project in the FY24 budget.

## **BACKGROUND:**

On March 1, 2023, NCPA's Geothermal Plant 1, Unit 1 was taken offline for routine seasonal Stretford maintenance. During the course of inspections conducted by NCPA staff, steam strainer failures were found which caused strainer material to enter the steam turbine. NCPA hired Reliable Turbine Services, LLC (RTS) to perform a Steam Path Inspection. RTS removed the upper turbine case and found screen material throughout the turbine rotor and casing diaphragms. RTS completed their inspection of the turbine rotor and found that there was impact damage from the strainer material primarily to the first three stages of the turbine, as well as extensive erosion and wear on the remaining four stages of the turbine. RTS recommended replacement of the blades.

The Geothermal Plant 1, Unit 1 Steam Strainer Damage Project was originally approved by the Commission on May 25, 2023 for an amount not to exceed \$2,500,000. This original approval included \$1,073,465 in contingency funds.

On October 6, 2023, the Commission approved an Amendment to the Geothermal Plant 1, Unit 1 Steam Strainer Project, increasing the budget by \$3,000,000, for an updated total not to exceed of \$5,500,000. While NCPA is on-track to complete the work and return the unit to service on March 21, 2024, due to additional field work on the seals and diaphragm adjustments, the remaining balance of the contingency funds is running low. NCPA would like to increase the contingency by an additional \$250,000 to account for any unexpected findings during the final turbine assembly.

## **FISCAL IMPACT:**

NCPA Members previously approved funding up to \$5,500,000 for this project. The actual cost spent to date is \$5,412,338.21. NCPA is now requesting an additional \$250,000 for the project, to be added to the contingency funds, for an updated total not to exceed amount of \$5,750,000. Having these additional funds will allow for unexpected findings during assembly, and minimize impacts to the return to service date of the unit.

This additional contingency will be funded from the cancelled Intertie Switch Project, which was budgeted in FY24 at \$1,750,000. Of that, \$1,182,348 was previously authorized for additional Plant 2, Unit 4 turbine work, which leaves a remaining balance of \$567,652. There remain sufficient funds from that cancelled project to cover the additional requested amount for the Plant 1, Unit 1 Steam Strainer Damage Project.

A breakdown of the project scope and associated costs is shown below:

Scope of Work	Cost
Inspection To Date	\$1,853,700
Proposal for Turbine Repairs	\$2,851,096
Contingency Funds	\$595,204
Incidentals (Scaffold, Oil Flush)	\$200,000
<b>Additional Contingency for Assembly</b>	<b>\$250,000</b>
<b>Total Project Cost</b>	<b>\$5,750,000</b>

NCPA has an open claim with our insurance carrier stemming from the steam strainer damage. Any funds received from insurance reimbursements will be deposited into the Maintenance Reserve.

#### **SELECTION PROCESS:**

On April 10, 2023, NCPA issued a Request for Proposals for the Geothermal Plant 1, Unit 1 Steam Path Inspection Project. Three potential bidders were contacted. One bidder declined and two bidders responded with proposals. RTS was awarded this work based on cost and availability.

#### **ENVIRONMENTAL ANALYSIS:**

These activities are categorically exempt under Class 1, 2, 3, 4, and 11 from the provisions of the California Environmental Quality Act pursuant to Sections 15301 (b), 15302 (c), 15303, 15304 and 15311 of the CEQA Guidelines. A Notice of Exemption was approved by the NCPA Commission on September 27, 2013 for this class of work and was filed in Sonoma County. No environmental review is necessary.

#### **COMMITTEE REVIEW:**

Pending Committee review and approval.

**AFTER FACILITIES APPROVAL:** On March 19, 2024, the Special Facilities Committee reviewed and endorsed the recommendation above for Commission approval.

Respectfully submitted,

RANDY S. HOWARD  
General Manager

Attachments:

- Second Amendment to Resolution 23-49

**AMENDED RESOLUTION 23-49**

**RESOLUTION OF THE NORTHERN CALIFORNIA POWER AGENCY  
APPROVING THE SECOND AMENDMENT TO THE NCPA GEOTHERMAL PLANT 1, UNIT 1  
STEAM STRAINER DAMAGE PROJECT**

**(reference Staff Report #XXX:24)**

WHEREAS, on March 1, 2023, NCPA's Geothermal Plant 1, Unit 1 was taken offline for routine seasonal Stretford maintenance. During the course of inspections conducted by NCPA staff, steam strainer failures were found which caused strainer material to enter the steam turbine; and

WHEREAS, NCPA hired Reliable Turbine Services, LLC (RTS) to inspect the turbine rotor. RTS found that there was impact damage from the strainer material primarily to the first three stages of the turbine, as well as extensive erosion and wear on the remaining four stages of the turbine, and recommended replacement of the blades; and

WHEREAS, the NCPA Geothermal Plant 1, Unit 1 Steam Strainer Damage Project was originally approved by the Commission on May 25, 2023 (Resolution 23-49) for an amount not to exceed \$2,500,000. This original approval included \$1,073,465 in contingency funds; and

WHEREAS, on October 6, 2023, the Commission approved an Amendment to the Geothermal Plant 1, Unit 1 Steam Strainer Project, increasing the budget by \$3,000,000, for an updated total amount not to exceed \$5,500,000; and

WHEREAS, NCPA is on-track to complete the work and return the unit to service on March 21, 2024, however, due to additional field work on the seals and diaphragm adjustments, the remaining balance of the contingency funds is running low; and

WHEREAS, staff is now requesting to increase the project budget by \$250,000, for a revised total amount not to exceed \$5,750,000 to account for any unexpected findings during the final turbine assembly; and

WHEREAS, these activities are categorically exempt under Class 1, 2, 3, 4, and 11 from the provisions of the California Environmental Quality Act pursuant to Sections 15301 (b), 15302 (c), 15303, 15304 and 15311 of the CEQA Guidelines. A Notice of Exemption was approved by the NCPA Commission on September 27, 2013 for this class of work and was filed in Sonoma County. No environmental review is necessary; and

NOW, THEREFORE BE IT RESOLVED, that the Commission of the Northern California Power Agency authorizes approval of the Second Amendment to Resolution 23-49 authorizing additional funds of \$250,000 for the Geothermal Plant 1, Unit 1 Steam Strainer Damage 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 revised total not to exceed amount of \$5,750,000, to be funded from the cancelled Intertie Switch Project in the FY24 budget.

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PASSED, ADOPTED and APPROVED this \_\_\_\_ day of \_\_\_\_\_, 2024, by the following vote on roll call:

	<u>Vote</u>	<u>Abstained</u>	<u>Absent</u>
Alameda	_____	_____	_____
San Francisco BART	_____	_____	_____
Biggs	_____	_____	_____
Gridley	_____	_____	_____
Healdsburg	_____	_____	_____
Lodi	_____	_____	_____
Lompoc	_____	_____	_____
Palo Alto	_____	_____	_____
Port of Oakland	_____	_____	_____
Redding	_____	_____	_____
Roseville	_____	_____	_____
Santa Clara	_____	_____	_____
Shasta Lake	_____	_____	_____
Truckee Donner	_____	_____	_____
Ukiah	_____	_____	_____
Plumas-Sierra	_____	_____	_____

\_\_\_\_\_  
JERRY SERVENTI  
CHAIR

ATTEST: \_\_\_\_\_  
CARRIE POLLO  
ASSISTANT SECRETARY





# Commission Staff Report – *DRAFT*

**COMMISSION MEETING DATE:** March 28, 2024

**SUBJECT:** First Amendment to Geothermal Plant 1, Unit 2 Turbine Overhaul Project;  
Applicable to the following: NCPA's Geothermal Facility.

**AGENDA CATEGORY:** Discussion/Action

<b>FROM:</b>	Michael DeBortoli	<b>METHOD OF SELECTION:</b>
	Assistant General Manager	<i>Competitive Pricing Process</i>
Division:	Generation Services	<i>If other, please describe:</i>
Department:	Geothermal	

<b>IMPACTED MEMBERS:</b>		
All Members	<input type="checkbox"/>	City of Lodi <input checked="" type="checkbox"/>
Alameda Municipal Power	<input checked="" type="checkbox"/>	City of Lompoc <input checked="" type="checkbox"/>
San Francisco Bay Area Rapid Transit	<input type="checkbox"/>	City of Palo Alto <input type="checkbox"/>
City of Biggs	<input type="checkbox"/>	City of Redding <input type="checkbox"/>
City of Gridley	<input checked="" type="checkbox"/>	City of Roseville <input checked="" type="checkbox"/>
City of Healdsburg	<input checked="" type="checkbox"/>	City of Santa Clara <input checked="" type="checkbox"/>
		City of Shasta Lake <input type="checkbox"/>
		City of Ukiah <input checked="" type="checkbox"/>
		Plumas-Sierra REC <input checked="" type="checkbox"/>
		Port of Oakland <input type="checkbox"/>
		Truckee Donner PUD <input type="checkbox"/>
		Other <input type="checkbox"/>
<i>If other, please specify</i>		
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## RECOMMENDATION:

Approval of the First Amendment to Resolution 24-02 for the Geothermal Plant 1, Unit 2 Turbine Overhaul Project: 1) authorizing additional funding and a budget augmentation of \$2,200,000 for a revised total not to exceed amount of \$9,400,000; 2) 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; and 3) authorizing the use of \$2,200,000 from the Maintenance Reserve to be replenished by Project Participants over a ten-year period in Fiscal Years 2025 - 2034 through the annual budget process.

## BACKGROUND:

In December 2023, during a planned transmission line outage scheduled by Pacific Gas and Electric (PG&E), NCPA hired Reliable Turbine Services, LLC (RTS) to perform a nondestructive visual inspection on the Plant 1, Unit 2 turbine rotor L-0 blades. The visual inspection revealed significant wear on the L-0 blades, and RTS recommended that the L-0 blades be replaced. The Geothermal Plant 1, Unit 2 Turbine Overhaul Project was originally approved by the Commission on January 5, 2024 (Resolution 24-02) for an amount not to exceed \$7,200,000.

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

- Turbine Overhaul and Generator Testing
- Transportation and Insurance
- Unit 2 GSU Transformer Overhaul
- Balance of Plant Work
- Lakeville 230kV Line Repairs

As detailed in the original Scope of Work, the Unit 2 turbine rotor and diaphragms were sent off-site to the RTS shop in Sullivan, MO, where the vendor performed the casing assessment along with a full turbine rotor/diaphragm inspection. These inspections revealed that additional refurbishments are needed on the casing and turbine rotor/diaphragm. In addition, NCPA has identified that the main stop valves will need to have additional maintenance performed. None of this additional work was included in the original base scope. The price of this additional maintenance is shown in the table below.

Casing Assessment – Upper and Lower (Welding and Boring Work)	\$653,000
Unit 2 Rotor and Stationary Diaphragm Refurbishments	\$2,189,609
Main Stop Valves – Maintenance	\$250,000
<b>Sub Total</b>	<b>\$3,092,609</b>
Contingency @ 10%	\$307,391
<b>Total</b>	<b>\$3,400,000</b>
<i>Contingency from Original Project</i>	<i>\$1,200,000</i>
<b>Additional Funding Request = Total – (Original Contingency)</b>	<b>\$2,200,000</b>

## FISCAL IMPACT:

The revised total cost is anticipated not to exceed \$9,400,000. A breakdown of the project costs is shown in the table below.

Description	Cost
Unit 2 Turbine Rotor Overhaul and Generator Reset	\$4,500,000
Unit 2 GSU Transformer Overhaul	\$300,000
Transportation and Insurance	\$100,000
Additional Balance of Plant Work	\$200,000
Incidentals (scaffold, etc)	\$400,000
Lakeville 230KV Line Repairs	\$500,000
Contingency	\$1,200,000
<b>Additional Funding Request = Total - (Original Contingency)</b>	<b>\$2,200,000</b>
<b>Revised Total Not to Exceed</b>	<b>\$9,400,000</b>

The original \$7,200,000 for the Geothermal Plant 1, Unit 2 Overhaul Project was funded from the Geo Decommissioning Reserve. These funds are to be replenished by the Project Participants over a three-year period through the normal budgeting process beginning in Fiscal Year 2025. NCPA is proposing that the additional \$2,200,000 be funded from the Maintenance Reserve and replenished by the Project Participants over a ten-year period through the normal budget process for Fiscal Years 2025-2034. Funding sources for this project are shown in the table below.

Description	Cost
Geo Decommissioning Reserve	\$7,200,000
Geo Maintenance Reserve	\$2,200,000
<b>New Total</b>	<b>\$9,400,000</b>

The budget impact for Fiscal Years 2025-2034 for the proposed ten-year replenishment period of the requested \$2,200,000 into the Maintenance Reserve would be as follows:

(000s)

Funding/(Expenditures)	Beginning Balance	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
<b>Reserve Activity</b>												
Unit One Overhaul							(6,831)					(8,049)
Unit Two Overhaul								(7,070)				
<b>Proposed: Unit Two Turbine Overhaul Project</b>	<b>(2,200)</b>											
Unit Four Overhaul	(1,664)					(6,600)					(7,777)	
Well Replacement /Workover			(1,000)	(2,000)	(2,000)		(1,500)		(1,500)	(1,000)		
Balance of Plant Work	(500)	(500)	(515)	(530)	(546)	(563)	(580)	(597)	(615)	(633)	(652)	
Plant 1 & 2 Emergency Eyewash Stations	(140)											
Plant 2 Cooling Tower Basin Clean Out	(150)											
Contingent maintenance	(150)	(500)	(513)	(525)	(538)	(552)	(566)	(580)	(594)	(609)	(624)	
Projected Requirements		(4,804)	(2,000)	(3,028)	(3,056)	(7,685)	(9,446)	(8,215)	(2,677)	(2,209)	(9,020)	(9,326)
<b>Additional Collection Fiscal Years 2025-2034</b>			220	220	220	220	220	220	220	220	220	220
<b>Annual Funding Req*</b>	3,380	5,112	5,240	5,371	5,371	5,506	5,643	5,784	5,929	6,077	6,229	
Vendor Refund Well Work Over Project	99											
<b>Balance</b>	<b>1,909</b>	<b>584</b>	<b>3,917</b>	<b>6,349</b>	<b>8,885</b>	<b>6,791</b>	<b>3,071</b>	<b>719</b>	<b>4,046</b>	<b>7,986</b>	<b>5,263</b>	<b>2,386</b>
<b>Minimum Emergency Contingency Balance</b>	<b>\$ 2,250</b>	<b>2,250</b>	<b>2,250</b>	<b>2,250</b>	<b>2,250</b>	<b>2,250</b>	<b>2,250</b>	<b>2,250</b>	<b>2,250</b>	<b>2,250</b>	<b>2,250</b>	<b>2,250</b>

## **SELECTION PROCESS:**

RTS was already on site working on a separate project for Unit 1 when the Unit 2 turbine issues were identified. Attempting to complete the Unit 2 work utilizing a separate vendor would have resulted in significant delay of work claims from both, as well as inefficiencies coordinating the project schedules. As a result, NCPA awarded work for the Unit 2 Turbine Overhaul Project to RTS on a sole-source basis. RTS will perform the additional refurbishment work for the turbine casing, rotor, and stationary diaphragms.

NCPA solicited competitive bids for the additional maintenance work on the main stop. NCPA sent out a request for proposal on February 21, 2024. Two vendors, Custom Valve Solutions, Inc. and Industrial Service Solutions, LLC dba Bay Valve Service, declined to bid. NCPA received a response from one vendor: CTI Controltech, Inc., with a bid of \$186,010. NCPA intends to award this work to CTI Controltech, Inc., pending approval of the First Amendment to the Plant 1, Unit 2 Turbine Overhaul Project.

## **ENVIRONMENTAL ANALYSIS:**

These activities are categorically exempt under Class 1, 2, 3, 4, and 11 from the provisions of the California Environmental Quality Act pursuant to Sections 15301 (b), 15302 (c), 15303, 15304 and 15311 of the CEQA Guidelines. A Notice of Exemption was approved by the NCPA Commission on September 27, 2013 for this class of work and was filed in Sonoma County. No environmental review is necessary.

## **COMMITTEE REVIEW:**

Pending Committee review and approval.

**AFTER FACILITIES APPROVAL:** On March 19, 2024, the Facilities Committee reviewed and endorsed the recommendation above for Commission approval.

Respectfully submitted,

RANDY S. HOWARD  
General Manager

Attachments:

- Amended Resolution 24-02

**AMENDED RESOLUTION 24-02**

**RESOLUTION OF THE NORTHERN CALIFORNIA POWER AGENCY  
APPROVING THE FIRST AMENDMENT TO THE NCPA GEOTHERMAL PLANT 1, UNIT 2  
TURBINE OVERHAUL PROJECT**

**(reference Staff Report #XXX:24)**

WHEREAS, in December 2023, during a planned transmission line outage scheduled by Pacific Gas and Electric (PG&E), NCPA hired Reliable Turbine Services, LLC (RTS) to perform a nondestructive visual inspection on the Plant 1, Unit 2 turbine rotor L-0 blades. The visual inspection revealed significant wear on the L-0 blades, and RTS recommended that the L-0 blades be replaced; and

WHEREAS, the Geothermal Plant 1, Unit 2 Turbine Overhaul Project was originally approved by the Commission on January 5, 2024 (Resolution 24-02) for an amount not to exceed \$7,200,000; and

WHEREAS, as detailed in the original Scope of Work, the Unit 2 turbine rotor and diaphragms were sent off-site to the RTS shop in Sullivan, MO, where the vendor performed the casing assessment along with a full turbine rotor/diaphragm inspection. These inspections revealed that additional refurbishments are needed on the casing and turbine rotor/diaphragm. In addition, NCPA has identified that the main stop valves will need to have additional maintenance performed. None of this work was included in the original base scope; and

WHEREAS, staff is now seeking approval for an additional \$2,200,000, for an updated total project cost not to exceed \$9,400,000 for the additional work required to complete this project; and

WHEREAS, RTS will perform the additional refurbishment work for the turbine casing, rotor, and stationary diaphragms. NCPA sent out a request for proposal on February 21, 2024 for the additional maintenance work on the main stop valves. Two vendors declined to bid. NCPA received a response from one vendor: CTI Controltech, Inc., with a bid of \$186,010. NCPA intends to award this work to CTI Controltech, Inc. pending approval of the First Amendment to the Plant 1, Unit 2 Turbine Overhaul Project; and

WHEREAS, these activities are categorically exempt under Class 1, 2, 3, 4, and 11 from the provisions of the California Environmental Quality Act pursuant to Sections 15301 (b), 15302 (c), 15303, 15304 and 15311 of the CEQA Guidelines. A Notice of Exemption was approved by the NCPA Commission on September 27, 2013 for this class of work and was filed in Sonoma County. No environmental review is necessary; and

NOW, THEREFORE BE IT RESOLVED, that the Commission of the Northern California Power Agency authorizes approval of the First Amendment to Resolution 24-02 for the Geothermal Plant 1, Unit 2 Turbine Overhaul Project: 1) authorizing additional funding and a budget augmentation of \$2,200,000 for a revised total not to exceed amount of \$9,400,000; 2) 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; and 3) authorizing the use of \$2,200,000 from the Maintenance Reserve to be replenished by Project Participants over a ten-year period in Fiscal Years 2025 - 2034 through the annual budget process.

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PASSED, ADOPTED and APPROVED this \_\_\_\_ day of \_\_\_\_\_, 2024, by the following vote on roll call:

	<u>Vote</u>	<u>Abstained</u>	<u>Absent</u>
Alameda	_____	_____	_____
San Francisco BART	_____	_____	_____
Biggs	_____	_____	_____
Gridley	_____	_____	_____
Healdsburg	_____	_____	_____
Lodi	_____	_____	_____
Lompoc	_____	_____	_____
Palo Alto	_____	_____	_____
Port of Oakland	_____	_____	_____
Redding	_____	_____	_____
Roseville	_____	_____	_____
Santa Clara	_____	_____	_____
Shasta Lake	_____	_____	_____
Truckee Donner	_____	_____	_____
Ukiah	_____	_____	_____
Plumas-Sierra	_____	_____	_____

\_\_\_\_\_  
JERRY SERVENTI  
CHAIR

ATTEST: \_\_\_\_\_  
CARRIE POLLO  
ASSISTANT SECRETARY