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Agenda

Date: April 10, 2014

Subject: April 14, 2014 Lodi Energy Center Project Participant Committee Meeting

Location: 12745 N. Thornton Road, Lodi, CA or via teleconference

Time: 10:00 A.M.

***** In compliance with the Brown Act, you may participate in person at the meeting location or via teleconference at one of the locations listed below. In either case, please: (1) post this notice at a publicly accessible location at the participation location at least 72-hours before the call begins, and (2) have a speaker phone available for any member of the public who may wish to attend at your location.**

CITY OF AZUSA 729 N. Azusa Avenue Azusa, CA	NCPA 12745 N. Thornton Road Lodi, CA	CITY OF HEALDSBURG 401 Grove Street Healdsburg, CA
BAY AREA RAPID TRANSIT 300 Lakeside Drive, 16th Floor Oakland, CA	CITY OF GRIDLEY 685 Kentucky Street Gridley, CA	PLUMAS-SIERRA RURAL ELECTRIC COOP 73233 Highway 70 Portola, CA
CITY OF BIGGS 465 "C" Street Biggs, CA	CITY OF SANTA CLARA 1500 Warburton Avenue Santa Clara, CA	NCPA 651 Commerce Drive Roseville, CA
CITY OF LOMPOC 100 Civic Center Plaza Lompoc, CA	POWER & WATER RESOURCES POOLING AUTHORITY 2106 Homewood Way, Suite 100 Carmichael, CA	

The Lodi Energy Center Project Participant Committee may take action on any of the items listed on this Agenda regardless of whether the matter appears on the Consent Calendar or is described as an action item, a report, or an information item. If this Agenda is supplemented by staff reports, they are available to the public upon written request. Pursuant to California Government Code Section 54957.5, the following is the location at which the public can view Agendas and other public writings: NCPA, 651 Commerce Drive, Roseville, CA or www.ncpa.com

1. Call Meeting to Order and Roll Call

PUBLIC FORUM

Any member of the public who desires to address the Lodi Energy Center Project Participant Committee on any item considered by the Lodi Energy Center Project Participant Committee at this meeting before or during the Lodi Energy Center Project Participant Committee's PPC consideration of that item shall so advise the Chair and shall thereupon be given an opportunity to do so. Any member of the public who desires to address the Lodi Energy Center Project Participant Committee on any item within the jurisdiction of the Lodi Energy Center Project Participant Committee and not listed on the Agenda may do so at this time.

- 2. Meeting Minutes** - Approval of PPC meeting minutes for the March 10, 2014 regular meeting and April 10, 2014 special meeting

BUSINESS ACTION ITEMS

- 3. Lodi Energy Center Annual Budget for Fiscal Year 2015** – Staff seeking approval of the LEC proposed annual budget for fiscal year 2015 (*Michael DeBortoli/Jan Bonatto*)

MONTHLY REPORTS

- 4. Operational Report for March 2014** (*Jeremy Lawson*)
- 5. Market Data Report for March 2014** – Verbal Report (*Bob Caracristi*)
- 6. Monthly Asset Report** – (*Michael DeBortoli*)

CONSENT CALENDAR

All items on the Consent Calendar are considered routine and will be approved without discussion by a single roll call vote. Any Project Participant or member of the public may remove any item from the Consent Calendar. If an item is removed, it will be discussed separately following approval of the remainder of the Consent Calendar. Prior to the roll call vote to approve the Consent Calendar, the Participants will be polled to determine if any Participant wishes to abstain from one or more items on the Consent Calendar.

- 7. Treasurer's Report for March 2014** – Accept by all Participants
- 8. Financial Report for March 2014** – Approve by all Participants
- 9. GHG Reports (excerpted from monthly ARB)** - Accept by all Participants
- 10. AMEC Environmental & Infrastructure, Inc. Agreement** – Staff seeking approval of a five year Multi-Task Consulting Services Agreement in an amount not to exceed \$750,000 for civil, environmental, geotechnical, and structural engineering as needed at all facility locations. All purchase orders issued pursuant to this agreement will be charged against existing and future approved Annual Operating Budgets.
- 11. American Power Systems, LLC Agreement** – Staff seeking approval of a five year Multi-Task General Services Agreement in an amount not to exceed \$260,000 for miscellaneous battery testing and maintenance services as needed at all facility locations. All purchase orders issued pursuant to this agreement will be charged against existing and future approved Annual Operating Budgets.

12. Servo Con Associates, Inc. Agreement – Staff seeking approval of a five year Multi-Task General Services Agreement in an amount not to exceed \$350,000 for electrohydraulic control maintenance services as needed at all facility locations. All purchase orders issued pursuant to this agreement will be charged against existing and future approved Annual Operating Budgets.

13. LEC Project Management and Operations Agreement (PMOA) Schedule 6.00-Contact List – Staff seeking approval of revised Schedule 6.00 reflecting change for CDWR.

Consent Items pulled for discussion: _____

INFORMATIONAL ITEMS

14. Flexible Resource Adequacy Qualifying Capacity – Staff to discuss implications of CAISO Flexible Resource Adequacy Capacity Initiative for LEC (*Tony Zimmer*)

ADJOURNMENT

Next Meeting: May 12, 2014

**Lodi Energy Center
Project Participant Committee Meeting
March 10, 2014 - MEETING MINUTES**

Location: Lodi Energy Center
12745 N. Thornton Rd, Lodi CA 95242
and by teleconference
10:00 A.M.

1. Call Meeting to Order and Roll Call

The PPC meeting was called to order at 10:02 a.m. by Chairman Mike Werner. He asked that roll be called as listed below.

George Morrow (Azusa)
Frank Schultz (BART)
Mark Sorensen (Biggs by telephone)
Mike Werner (CDWR)
Lloyd Rowe (CDWR)
Owen Stiles (Gridley by telephone)
Melissa Price (Lodi)
Martin Caballero (MID)
Kent Palmerton (PWRPA by telephone)
Steve Hance (SVP by telephone)
Ken Speer (NCPA)
Mike DeBortoli (NCPA)
Jeremy Lawson (NCPA)
Linda Stone (NCPA)
Bob Caracristi (NCPA by telephone)
Donna Stevener (NCPA by telephone)
Michael Dean (Meyers-Nave by telephone)
Susie Berlin (by telephone)

Absent at roll call: Healdsburg, Lompoc, Plumas-Sierra, and Ukiah. A PPC quorum was present at roll call by both number and percentage share of Project capacity. Marty Hostler of Lompoc joined later in the meeting by telephone.

Public Forum

Chairman Werner asked if any members of the public were present in Lodi or at any of the other noticed meeting locations that would like to address the PPC on any agenda items. No members of the public were present.

2. Meeting Minutes

The draft minutes for the February 10, 2014 regular meeting were considered. The LEC PPC considered the following motion:

Date: 3/10/2014

Moved by: Azusa

Seconded by: BART

Discussion: There was no further discussion.

Vote Summary on Motion		
Participant	Vote	Particulars / GES
Azusa	Yes	2.7857%
BART	Yes	6.6000%
Biggs	Yes	0.2679%
CDWR	Yes	33.5000%
Gridley	Yes	1.9643%
Healdsburg	Absent	1.6428%
Lodi	Yes	9.5000%
Lompoc	Absent	2.0357%
Modesto	Yes	10.7143%
Plumas-Sierra	Absent	0.7857%
PWRPA	Yes	2.6679%
Silicon Valley Power	Yes	25.7500%
Ukiah	Absent	1.7857%
Vote Summary		
Total Ayes	9	93.7501%
Total Noes	0	0.0000%
Total Abstain	0	0.0000%
Total Absent	4	6.2499%
Result:	Motion passed	

REPORTS

3. Operational Reports for February 2014

Jeremy Lawson presented the written Operational Report including Safety, Notice of Violations, Outage Summaries, Planned Outages, and Generating Unit Statistics for February. There were no OSHA Recordable accidents, no Permit violations and no NERC/WECC violations. There was one outage on February 26 for a three hour period due to gas compressor control card failure. This type of issue occurred once before and they have determined the underlying issue and have replacement cards for the unit. There are no changes to the planned outage schedule. The report reflected monthly production of 156,078 net MWH, 581 service hours, and equivalent operating availability of 99.55%. The report set forth the Capacity Factor @ 280MW Pmax of 82.95% and @ 302MW Pmax of 76.91%. During the month the plant had 11 hot starts, one warm start, and zero cold starts. Jeremy noted the plant's performance is staying consistent. The RAC continues to be an operational concern but is holding strong. Ken Speer said it has performed well past the six week period believed to be an indicator that it will last through August when delivery of the replacement RAC is expected. Staff mentioned that the replacement unit is made of a new material which is not as susceptible to corrosion cracking.

4. Market Data Report for February 2014

Bob Caracristi discussed the operating and financial settlement results for the month.

5. ISO Response to February Gas Price Spikes

Gillian Biedler discussed the context of impacts to LEC revenue due to natural gas price spikes and ISO responses to the events of February 6.

6. Monthly Budget Review

Mike DeBortoli presented his updated monthly budget review for FY 14 with actual compared to estimated values for January. Mike said there was nothing out of the ordinary to report.

Consent Calendar

Chairman Werner asked if any Participant wished to remove any item listed on the Consent Calendar for separate discussion. Hearing none, he asked if any participant wished to abstain from one or more items on the Consent Calendar. There were no abstentions. The LEC PPC considered the following motion:

Date: 3/10/2014

Motion: The PPC approves the 3-10-2014 Consent Calendar consisting of agenda items 7, 8, 9, and 10.

Moved by: Azusa

Seconded by: BART

Discussion: There was no further discussion.

Vote Summary on Motion		
Participant	Vote	Particulars / GES
Azusa	Yes	2.7857%
BART	Yes	6.6000%
Biggs	Yes	0.2679%
CDWR	Yes	33.5000%
Gridley	Yes	1.9643%
Healdsburg	Absent	1.6428%
Lodi	Yes	9.5000%
Lompoc	Yes	2.0357%
Modesto	Yes	10.7143%
Plumas-Sierra	Absent	0.7857%
PWRPA	Yes	2.6679%
Silicon Valley Power	Yes	25.7500%
Ukiah	Absent	1.7857%
Vote Summary		
Total Ayes	10	95.7858%
Total Noes	0	0.0000%
Total Abstain	0	0.0000%
Total Absent	3	4.2142%
Result:	Motion passed	

11. Standard Large Generator Interconnection Agreement Upgrade Project with CAISO.

Mike DeBortoli presented a PowerPoint providing a description of the project including upgrade of the PG&E interconnection facilities at 8-Mile and NCPA, upgrade of NCPA's switchyard, and re-conductor 2.3 mile line to 795 ACSS from 1113 AAC. He outlined the project costs including a contingency factor, resulting in an estimated total project cost of \$8,587,950 over three years. Mike explained in addition to the LEC project, there are three other projects in the queue, a hydro project and two solar projects. Based on those projects, if all were to go forward, the LEC project is assigned about 70% of the project cost. The upgrade cost allocation is derived from load flow and impacts. It is estimated that a 10.4 MW increase in capacity output would result from the project. Mike responded to questions about the project process, what impact Stig's operation might have on the LEC congestion issues, RA benefits, financing methods and alternatives for the project, and timing. George Morrow noted that it is a large monetary output without any benefit for a number of years and an uncertainty of economics. He asked that staff tighten up the math a bit and inquired about any results from the congestion study that is being done by the outside consultant.

Ken Speer summarized the information and noted that there is a firm deadline on April 14 to pay \$911,000 to continue into Phase II of the upgrade process. Of that \$911,000, \$411,000 is a non-refundable payment for PG&E interconnection facilities and the \$500,000 goes toward the network upgrade costs. Network upgrade costs, including the \$500,000 are reimbursable costs based on a schedule upon COD. The \$6,592,000 re-conductor cost is an accurate cost number. We do not know for certain if the other projects will go forward. If they do they will contribute to the project costs as they will add more impact to the line. Ken said staff will certainly revisit the issues, seek to obtain more information about the congestion issues, and provide additional economic data.

Kent Palmerton commented that it is his vote to go forward with the upgrade project and secure our position in the transmission system, but he will be happy to listen to additional information. It was the consensus of the Participants present to wait for additional information on this project and hold a special meeting for this purpose in sufficient time to meet the April 14 payment deadline.

12. Lodi Energy Center Annual Budget for FY 2015

Mike DeBortoli presented a PowerPoint providing a budget overview and noting a \$5.3 million dollar reduction in O&M costs, for a net reduction of \$4.2 million. He discussed the increased maintenance costs for auxiliary power, DCS, and LTSA. He explained the project costs for plant betterment, PI performance modules, essential services, spare parts storage, and platforms. He responded to a question about the Starts Based Maintenance and confirmed the charges are contract based as addressed in the LTSA and are based on fired hours or number of starts.

Questions were voiced about the average electric and gas prices forecast sheet of the budget and also how the capacity factor is determined. It was noted that Appendix G information was not provided with the materials. There were questions on the energy side and about the declining capacity factor. The Participants requested additional explanatory information for the budget with a focus on operations and the revenue side. The Participants decided to consider final budget approval at the next regularly scheduled meeting. For coordination Ken asked that all budget questions be sent to Mike so they can be addressed. Donna Stevener will determine

which budget worksheets pertain to LEC and will have them sent out to the Participants in the next couple of days.

The meeting was recessed at 12:22 p.m. for a lunch break and reconvened at 12:40 p.m.

13. LEC Project Management and Operations Agreement (PMOA) Schedule 1.00 Exhibit 8

Bob Caracristi presented this item and explained that the revision to Exhibit 8 is necessary to reflect changes associated with a number of new or retired settlement charge codes to be implemented in conjunction with the CAISO's new fifteen-minute market structure that is scheduled to begin on May 1. He noted that the Staff Report said the change would begin on April 1 however the CAISO has just changed the implementation date to May 1, 2014. The LEC PPC considered the following motion:

Date: 3/10/2014

Motion: The PPC approves revised Exhibit 8, Settlement of CAISO Charge Codes and Allocations to Participants, to Schedule 1.00 of the Project Management and Operations Agreement (PMOA) effective May 1, 2014 or the date CAISO implements changes, whichever occurs last, to reflect changes associated with a number of new or retired settlements charge codes implemented in conjunction with the CAISO's new fifteen-minute market structure, as discussed at today's meeting.

Moved by: MID

Seconded by: DWR

Discussion: There was no further discussion.

Vote Summary on Motion		
Participant	Vote	Particulars / GES
Azusa	Yes	2.7857%
BART	Yes	6.6000%
Biggs	Yes	0.2679%
CDWR	Yes	33.5000%
Gridley	Absent	1.9643%
Healdsburg	Absent	1.6428%
Lodi	Absent	9.5000%
Lompoc	Absent	2.0357%
Modesto	Yes	10.7143%
Plumas-Sierra	Absent	0.7857%
PWRPA	Yes	2.6679%
Silicon Valley Power	Yes	25.7500%
Ukiah	Absent	1.7857%
Vote Summary		
Total Ayes	7	82.2858%
Total Noes	0	0.0000%
Total Abstain	0	0.0000%
Total Absent	6	17.7142%
Result:		Motion passed

Informational Items

14. Cap-and-Trade Program Bidding Regulations

James Takahara presented a PowerPoint providing information about recent enforcement action by CARB relative to non-disclosure of bidding information among auction participants. He discussed the settlement amounts awarded in four separate matters, the settlement dates, and the auction to which the enforcement action pertained. During discussion of the various actions, he noted auction participants have no business talking to the media; are not allowed to talk about bid or qualification status; and said the amount of the fine is not necessarily relative to the size of the violation, it is based on the ability to pay to make you feel it more. It is CARB's stand that participants not disclose anything ever.

Susie Berlin provided additional information and insight and said she spoke with counsel to gain a better understanding about what information, if any, may be disclosed after the auction. Also, checking into what are the end dates of the compliance. She said the safe interpretation is that you cannot say anything until CARB releases the report to wrap it up. Even then, you are still prohibited from releasing any bidding strategies. That information may never be disclosed. James commented that the participants must be very careful because CARB is definitely paying more attention to the non-disclosure of bidding information. James asked Susie if there is a statute of limitations for violations. She did not know. James said inquiry had been made of CARB about whether the software could be upgraded to prevent these types of issues and the answer was No. Scott Tomashefsky commented that request needs to get into the record for future use.

15. Data Portal Changes for new CAISO 15-Minute Market and 5-Minute Settlements

Bob Caracristi presented a PowerPoint outlining the changes to the Data Portal for the new structure, including changes to the reports, web services, and anticipated new FMM reports. He said hopefully it will be a seamless change.

16. Other New Business

None.

Adjournment

The next regular meeting of the PPC is scheduled for Monday, April 14, 2014. A special meeting of the PPC is targeted to be held on the afternoon of March 24. George Morrow mentioned he would prefer March 31. The only item to be considered at the special meeting will be the transmission upgrade project. Chairman Mike Werner adjourned the meeting at 1:18 p.m.

**Lodi Energy Center
Project Participant Committee SPECIAL Meeting
April 10, 2014 - MEETING MINUTES**

Location: Lodi Energy Center
12745 N. Thornton Rd, Lodi CA 95242
and by teleconference
8:30 A.M.

1. Call Meeting to Order and Roll Call

The PPC special meeting was called to order at 8:32 a.m. by Chairman Mike Werner. He asked that roll be called as listed below.

George Morrow (Azusa)
Frank Schultz (BART)
Mike Werner (CDWR)
Owen Stiles (Gridley)
Terry Crowley (Healdsburg)
Marty Hostler (Lompoc)
Kent Palmerton (PWRPA)
Steve Hance (SVP by telephone)
Ken Speer (NCPA)
Mike DeBortoli (NCPA)
Linda Stone (NCPA)
Donna Stevener (NCPA)
Ken Goeke (NCPA)
Tom Lee (NCPA)
Gillian Biedler (NCPA)
Steve Hill (NCPA)
Ruthann Ziegler (Meyers-Nave)

Absent at roll call: Biggs, Lodi, MID, Plumas-Sierra, and Ukiah. A PPC quorum was present at roll call by both number and percentage share of Project capacity. Participants Melissa Price of Lodi, Martin Caballero of MID, and Mike Brozo of Plumas-Sierra subsequently joined the meeting.

Public Forum

Chairman Werner asked if any members of the public were present in Lodi or at any of the other noticed meeting locations that would like to address the PPC on any agenda items. No members of the public were present.

2. Standard Large Generator Interconnection Agreement Upgrade Project with CAISO.

The project includes upgrade of the PG&E interconnection facilities at 8-Mile and NCPA, upgrade of NCPA's switchyard, and re-conductor 2.3 line to 795 ACSS from 1113 ACC. Mike DeBortoli's PowerPoint presentation was displayed on the screen and discussed. Ken Speer provided an introduction to the issue of how the upgrade may impact congestion and asked Steve Hill to speak about the information available to date from the consultant. Steve reviewed

the congestion data available from April to September 2013 and discussed the positive shadow price and how that relates to congestion. He said Nexant is still looking at the questions we posed because, although they have been under contract for over two months, gathering data has been difficult. The bottom line response from the consultant at this point is that upgrading the line may relieve congestion but they are not 100% certain because the cause is not definitely known. Ken Speer then asked Ken Goeke to speak about the analysis done in Power Management and his findings. Ken talked about the line running north to south with LEC having two major load points below it on the line. He looked at the load points and said there is a high correlation between LEC's congestion and the other two. Regarding financial impact, a review of the past 12 months including April 2013 shows a \$2,000,000 impact; without April a \$1,000,000 impact. He thinks this line is causing a portion of the congestion and his very conservative estimate is a savings of \$500,000 per year with the upgrade. In response to questions, he said upgrades to the line would not change the bidding behavior, that staff had looked at Stig in relation to the congestion issue, and confirmed that an upgrade will improve the economics of the project. Tom Lee responded to a question saying it is always better to run the plant, as the plant is making a contribution even with congestion.

Mike DeBortoli explained that the information being presented at this meeting has been revised from that presented previously to use NCPA rates for annual capacity price, eliminate the contingency on the network upgrade portion of the project, and add interest using prime rate of 3.25%. He talked about capacity value benefits. Steve Hance said it appears when valuing capacity the numbers are not taking into consideration outages. Mike agreed this was an oversight and estimated that correction would result in a \$20,000 difference. Mike said he has started conversations with the Hydro project, one of the other three projects in the Interconnection queue, and that it sounds pretty serious. Mike said the project cost numbers presented are the worst case scenario if all the other projects drop out. If, however, they go forward, they would pick up a portion of the costs. Talking with other projects before the deadline to commit is strategic since potential cost sharing is involved.

Mike presented a 10 year outlook discussing a NCPA-Lodi transmission line and PG&E Compressed Air Plant, both of which could have positive benefits. He said however, with the time frame involved, those projects should not influence this decision. He went over the estimated project costs including: \$411,000 non-refundable cost for PG&E Interconnection Facilities, \$6,592,000 network upgrade for PG&E reconductor which is reimbursable and fixed by tariff, \$530,000 for NCPA Switchyard upgrade, \$141,150 contingency, for a total estimated project cost of \$7,674,150. He said the network reimbursement starts in year four running from COD and is paid over five years with interest at the prime rate. The costs presented do not include any benefit for congestion and do not include any participation by other projects. The average annual capacity increase is 10.4 MW.

Next reviewed was the Total Cost by GES Share information prepared by the accounting department which shows funding of the \$911,000 in FY14 with a cash call of \$411,000 and the balance of funding over the 18-month period beginning July 1, 2014. It was noticed that the total project cost number itself is correct but that the totals for each participant do not include the FY16 portion in the total. Donna said the spreadsheet will be corrected and sent out today.

Ken Speer discussed the voting requirements necessary to pass a project exceeding \$5,000,000 as set forth in the PSA. He said he does not think the PSA as written reflects what was actually intended by the participants when drafting and said at some point the group may want to make recommendations about whether they want to revise the PSA language. The vote for today's item must follow the terms of the PSA which requires passage by a quorum of the

participants present or if a GES share vote is called, passage by 63.75% (75% reduced by percentage amount any participant is over 24%, or 75% reduced by 9.5% for DWR and 1.75 for SVP). Martin Caballero expressed concern about the funding requirement for MID in 2014 which appears would require a budget modification by MID and the timing involved. Donna said she must handle collection from all participants on the same schedule. The PPC considered the following motion:

Date: 4/10/2014

Motion: PPC approves continued participation in the 24 MW upgrade project at a total estimated cost of \$7,674,150, augment the LEC Budget for FY14 in the amount of \$411,000, reallocate \$500,000 in the FY14 budget from the water tank project for application to this project, enter into Phase II of the Large Generator Interconnection Agreement Study Process, and fund the balance of the estimated project cost over the 18 month period beginning July 2014, as discussed at today's meeting. After meeting with PG&E staff, NCPA will revisit the funding schedule for modification.

Moved by: Gridley

Seconded by: Lodi

Discussion: There was no further discussion.

Vote Summary on Motion		
Participant	Vote	Particulars / GES
Azusa	Yes	2.7857%
BART	Yes	6.6000%
Biggs	Absent	0.2679%
CDWR	Yes	33.5000%
Gridley	Yes	1.9643%
Healdsburg	Yes	1.6428%
Lodi	Yes	9.5000%
Lompoc	Yes	2.0357%
Modesto	Yes	10.7143%
Plumas-Sierra	Yes	0.7857%
PWRPA	Yes	2.6679%
Silicon Valley Power	Yes	25.7500%
Ukiah	Absent	1.7857%
Vote Summary		
Total Ayes	11	97.9464%
Total Noes	0	0.0000%
Total Abstain	0	0.0000%
Total Absent	2	2.0536%
Result:	Motion passed.	

Adjournment.

The April regular meeting of the PPC is scheduled for Monday, April 14, 2014. Chairman Mike Werner adjourned the special meeting at 9:40 a.m.

**Power Supply Budget
Assumptions & Preliminary Results:
Lodi Energy Center**

FY 2015

10 January 2014

Updated April 2014

NCPA Power Supply Budget → NCPA FY Budget → ARB

Development of the Power Supply budget begins in November for the fiscal year beginning the following July, and the process is finalized by late December or early January. Fixed costs are computed and added, creating the new FY budget.

FY2015 Budget		All Resources Bill (ARB)											
12/31/2013	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	TOTAL
MWH	MWH	MWH	MWH	MWH	MWH	MWH	MWH	MWH	MWH	MWH	MWH	MWH	MWH
Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$	Variable Cost - \$
Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$	Fixed Cost - \$
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\$/mwh	\$/mwh	\$/mwh	\$/mwh	\$/mwh	\$/mwh	\$/mwh	\$/mwh	\$/mwh	\$/mwh	\$/mwh	\$/mwh	\$/mwh	\$/mwh
	<i>Actual</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	
		<i>Pre-Bill</i>											

FY 2015 Budget

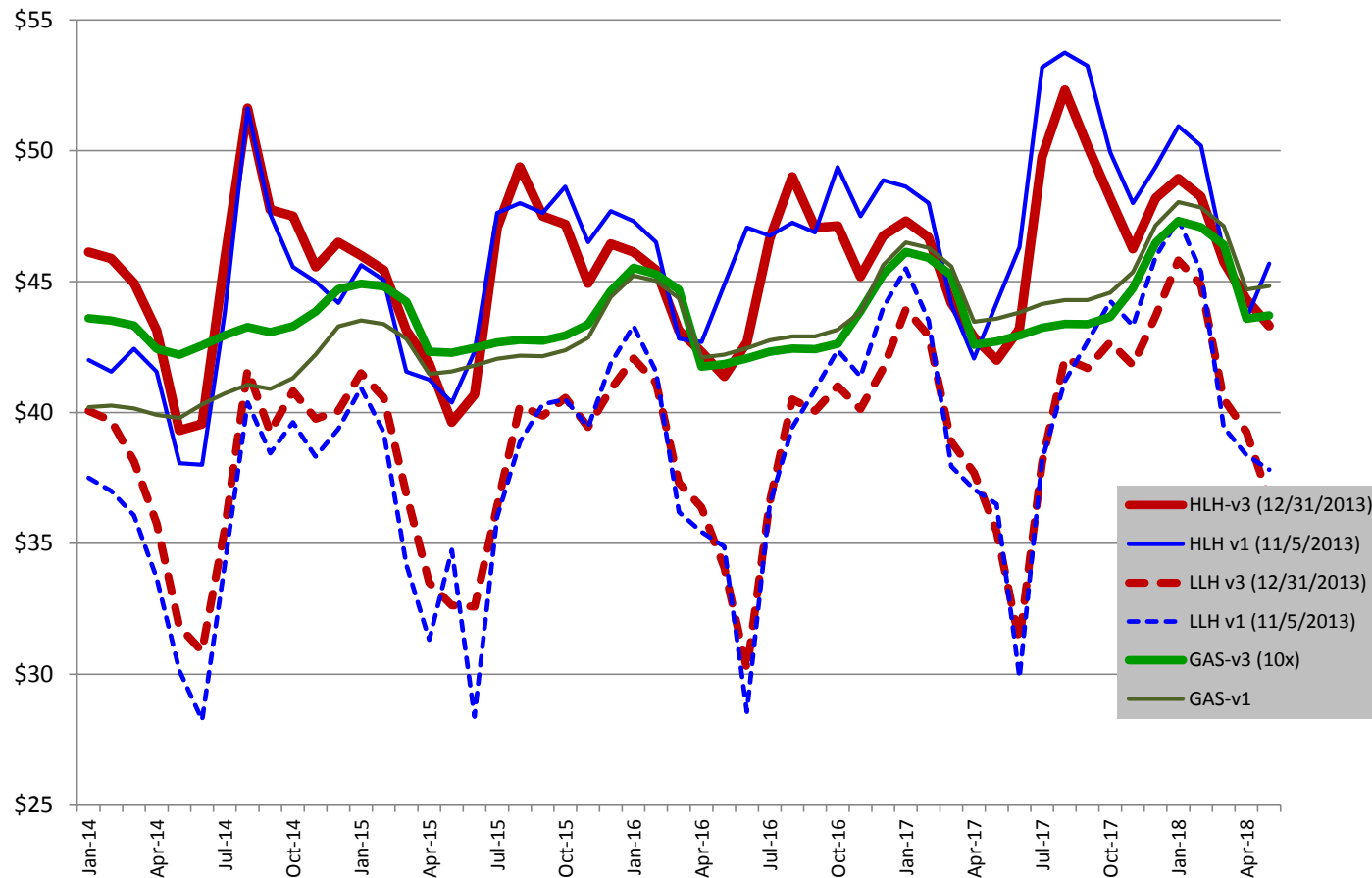
Summary of Key M36 Input Assumptions

- System optimization
 - PLEXOS Version = 6.207R05 Model = NCPA M36
 - Optimization Run Date = **2014-01-09** (11 Calendar Years: 1/1/2014 through 12/31/2024)

Market Price Assumptions for Natural Gas and Electric Power

- FY 2015 prices were updated in late December 2013 to reflect near-term increases due to heavy **weather-related demand** depleting natural gas inventory levels during Q4 2013, the likelihood of a **dry hydro season** and the updated CERA WECC price forecast dated 13 December 2013. Internal hydro forecasts forecasted a dry-to-critical year, and though market price levels at the time appeared to reflect a general market assumption of diminished hydro generation, it isn't possible to quantify exactly what percentage of normal generation levels markets were assuming at the end of December 2013.
 - Prices reflect market price curves from ICE and EOX during the month of December and coordinate ICE/NYMEX natural gas prices for the same dates.
 - Prices incorporate current analysis of short- and long-term factors including (PG&E gas) the potential for continuing high shale gas production versus potential derailment by costs of regulation, environmental threats, and global economic factors; (NP15 power) expecting spot power to trend higher because of increasing renewable energy prices (e.g. RECs, GHG), transmission costs, and changing demand patterns.
 - Prices from 2021 through 2024 were derived from CERA's base-case planning scenario using price escalators based on ICE and EOX price curves post-2016.
- After monthly power price curves are developed, a SAS program based on the previous year's ISO **hourly shapes** for each day transforms the monthly prices into unique hourly prices for each day of the 11-year PLEXOS optimization run.
- In the same manner, monthly natural gas prices are converted into **daily shapes**.

Forward Price Curves – Recent changes (Dec13)



Since record-cold temperatures materialized in late Q4 2013, inventory of gas in storage has fallen dramatically. Price increases for both power and gas reflecting the shift in supply/demand at the time were limited to the initial year of the budget – but were too large to ignore, especially changes in off-peak prices, which were up an average 6% per month by late December 2013.

Average Electric & Natural Gas Market Prices

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Weighted Average Forward Electric Prices For Fiscal Year Budget 2015 Version 3

Peak	FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Annual
ON	2015	\$ 47.23	\$ 52.81	\$ 48.55	\$ 47.95	\$ 45.88	\$ 46.86	\$ 46.31	\$ 45.69	\$ 43.34	\$ 42.08	\$ 40.13	\$ 41.65	\$ 45.83
ON	2016	\$ 48.40	\$ 50.56	\$ 48.29	\$ 47.65	\$ 45.25	\$ 46.79	\$ 46.43	\$ 45.70	\$ 43.35	\$ 42.53	\$ 41.93	\$ 43.68	\$ 45.98
ON	2017	\$ 47.90	\$ 50.24	\$ 47.85	\$ 47.60	\$ 45.50	\$ 47.13	\$ 47.59	\$ 46.94	\$ 44.40	\$ 43.07	\$ 42.55	\$ 44.13	\$ 46.32
ON	2018	\$ 51.13	\$ 53.57	\$ 51.04	\$ 48.66	\$ 46.57	\$ 48.58	\$ 49.22	\$ 48.50	\$ 46.01	\$ 44.55	\$ 43.86	\$ 45.63	\$ 48.23
ON	2019	\$ 52.78	\$ 55.32	\$ 52.88	\$ 50.04	\$ 48.11	\$ 50.16	\$ 50.98	\$ 50.32	\$ 47.71	\$ 46.31	\$ 45.61	\$ 47.46	\$ 49.91
ON	2020	\$ 55.13	\$ 57.70	\$ 55.22	\$ 52.29	\$ 50.23	\$ 52.45	\$ 52.87	\$ 52.23	\$ 49.48	\$ 48.03	\$ 47.42	\$ 49.34	\$ 52.00
ON	2021	\$ 57.22	\$ 60.07	\$ 57.43	\$ 54.43	\$ 51.82	\$ 52.86	\$ 54.81	\$ 54.11	\$ 51.28	\$ 49.25	\$ 49.50	\$ 51.54	\$ 53.82
ON	2022	\$ 60.12	\$ 63.14	\$ 60.42	\$ 55.79	\$ 53.24	\$ 54.52	\$ 56.78	\$ 56.08	\$ 53.14	\$ 50.50	\$ 51.66	\$ 53.80	\$ 55.91
ON	2023	\$ 63.16	\$ 66.44	\$ 63.54	\$ 57.22	\$ 54.70	\$ 56.38	\$ 58.85	\$ 58.13	\$ 55.07	\$ 51.75	\$ 53.90	\$ 56.14	\$ 58.13
ON	2024	\$ 66.43	\$ 69.79	\$ 66.85	\$ 58.65	\$ 56.21	\$ 58.21	\$ 61.01	\$ 60.26	\$ 57.12	\$ 53.09	\$ 56.22	\$ 58.69	\$ 60.43
OFF	2015	\$ 36.50	\$ 42.22	\$ 39.74	\$ 41.10	\$ 40.07	\$ 40.46	\$ 41.78	\$ 40.81	\$ 37.19	\$ 33.82	\$ 33.09	\$ 33.32	\$ 38.41
OFF	2016	\$ 37.35	\$ 40.84	\$ 40.35	\$ 40.83	\$ 39.76	\$ 41.26	\$ 42.33	\$ 41.41	\$ 37.63	\$ 36.66	\$ 34.53	\$ 30.88	\$ 38.73
OFF	2017	\$ 37.46	\$ 41.03	\$ 40.52	\$ 41.26	\$ 40.41	\$ 42.06	\$ 44.19	\$ 43.16	\$ 39.17	\$ 37.95	\$ 35.88	\$ 31.94	\$ 39.64
OFF	2018	\$ 38.95	\$ 42.57	\$ 42.12	\$ 42.94	\$ 42.09	\$ 44.04	\$ 46.06	\$ 45.08	\$ 40.79	\$ 39.52	\$ 37.10	\$ 32.56	\$ 41.21
OFF	2019	\$ 40.43	\$ 44.18	\$ 43.76	\$ 44.67	\$ 43.78	\$ 45.96	\$ 48.05	\$ 47.01	\$ 42.65	\$ 41.39	\$ 38.91	\$ 34.17	\$ 42.92
OFF	2020	\$ 42.42	\$ 46.39	\$ 46.03	\$ 47.07	\$ 46.16	\$ 48.41	\$ 49.82	\$ 48.82	\$ 44.23	\$ 42.91	\$ 40.43	\$ 35.40	\$ 44.90
OFF	2021	\$ 44.00	\$ 48.36	\$ 47.88	\$ 48.42	\$ 47.41	\$ 48.61	\$ 51.78	\$ 50.61	\$ 45.91	\$ 44.61	\$ 41.73	\$ 36.50	\$ 46.40
OFF	2022	\$ 45.67	\$ 50.24	\$ 49.74	\$ 50.25	\$ 49.27	\$ 50.78	\$ 53.84	\$ 52.52	\$ 47.65	\$ 46.37	\$ 43.04	\$ 37.63	\$ 48.17
OFF	2023	\$ 47.45	\$ 52.14	\$ 51.67	\$ 52.15	\$ 51.23	\$ 53.03	\$ 55.98	\$ 54.49	\$ 49.44	\$ 48.19	\$ 44.38	\$ 38.79	\$ 50.00
OFF	2024	\$ 49.29	\$ 54.15	\$ 53.67	\$ 54.12	\$ 53.27	\$ 55.38	\$ 58.21	\$ 56.59	\$ 51.30	\$ 50.13	\$ 45.76	\$ 40.05	\$ 51.85

Simple Average Forward Gas Prices For Fiscal Year Budget 2015 Version 3

	FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Annual
	2015	\$ 4.30	\$ 4.33	\$ 4.31	\$ 4.33	\$ 4.39	\$ 4.47	\$ 4.49	\$ 4.48	\$ 4.42	\$ 4.23	\$ 4.23	\$ 4.25	\$ 4.35
	2016	\$ 4.27	\$ 4.28	\$ 4.27	\$ 4.29	\$ 4.34	\$ 4.46	\$ 4.55	\$ 4.53	\$ 4.47	\$ 4.18	\$ 4.18	\$ 4.21	\$ 4.34
	2017	\$ 4.23	\$ 4.24	\$ 4.24	\$ 4.26	\$ 4.39	\$ 4.53	\$ 4.61	\$ 4.59	\$ 4.52	\$ 4.26	\$ 4.27	\$ 4.29	\$ 4.37
	2018	\$ 4.32	\$ 4.34	\$ 4.34	\$ 4.36	\$ 4.47	\$ 4.65	\$ 4.73	\$ 4.71	\$ 4.64	\$ 4.36	\$ 4.37	\$ 4.39	\$ 4.47
	2019	\$ 4.42	\$ 4.44	\$ 4.44	\$ 4.47	\$ 4.59	\$ 4.77	\$ 4.86	\$ 4.84	\$ 4.77	\$ 4.53	\$ 4.55	\$ 4.57	\$ 4.60
	2020	\$ 4.61	\$ 4.63	\$ 4.80	\$ 4.84	\$ 4.95	\$ 5.16	\$ 5.28	\$ 5.26	\$ 5.19	\$ 4.94	\$ 4.96	\$ 5.00	\$ 4.97
	2021	\$ 5.04	\$ 5.06	\$ 5.04	\$ 5.03	\$ 5.09	\$ 5.15	\$ 5.47	\$ 5.45	\$ 5.37	\$ 5.10	\$ 5.12	\$ 5.15	\$ 5.17
	2022	\$ 5.20	\$ 5.23	\$ 5.20	\$ 5.20	\$ 5.27	\$ 5.34	\$ 5.66	\$ 5.64	\$ 5.56	\$ 5.26	\$ 5.28	\$ 5.32	\$ 5.35
	2023	\$ 5.37	\$ 5.40	\$ 5.38	\$ 5.38	\$ 5.47	\$ 5.55	\$ 5.87	\$ 5.84	\$ 5.75	\$ 5.42	\$ 5.45	\$ 5.49	\$ 5.53
	2024	\$ 5.54	\$ 5.58	\$ 5.55	\$ 5.56	\$ 5.67	\$ 5.76	\$ 6.08	\$ 6.05	\$ 5.96	\$ 5.59	\$ 5.62	\$ 5.66	\$ 5.72

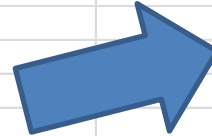
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M36 Input Assumptions: Environmental Cost Forecast

IHS-CERA: California's CO₂ program allowances are traded in dollars per metric ton. IHS CERA's price outlook is the weighted-averaged for the number of allowances projected to be sold in the individual quarterly auctions.

2013-09 WECC Power Fundamentals				2013-12 WECC Power Fundamentals			
	California				California		
	CO ₂				CO ₂		
	Trading				Trading		
	Program				Program		
2013	12.41			2013	12.07		
2014	13.14			2014	11.67		
2015	14.32			2015	12.82		
2016	15.33			2016	14.95		
2017	20.85			2017	17.59		
2018	27.86			2018	24.20		
2019	44.02			2019	36.67		
2020	55.61			2020	50.67		

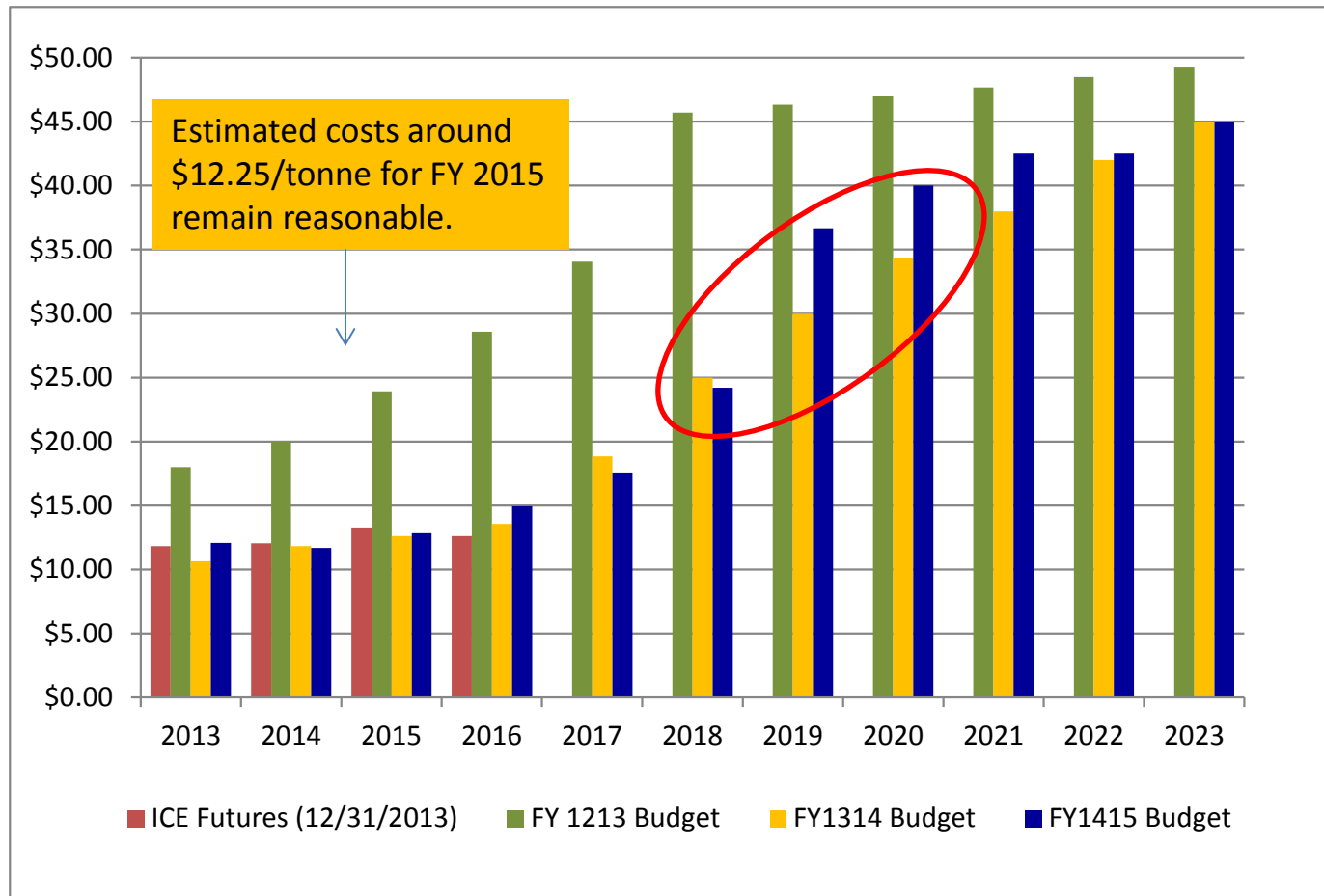
IHS CERA Market Briefing *WECC Power Market Fundamentals*, September 2013 and December 2013.



	FY1415 Budget	FY1314 Budget	ICE 12/31/2013
2013	12.07	10.65	11.81
2014	11.67	11.83	12.05
2015	12.82	12.60	13.27
2016	14.95	13.56	12.62
2017	17.59	18.85	
2018	24.20	25.00	
2019	36.67	30.00	
2020	40.00	34.36	
2021	42.50	38.00	
2022	42.50	42.00	
2023	45.00	45.00	
2024	45.00		

GHG allowance prices are currently lower than just a few months ago and are generally expected to remain so until a greater supply-demand imbalance develops in late **2017** – Model M36 used the most recent CERA Power Fundamentals forecast, dated 12/13/2013, through calendar 2019, after which modified prices were utilized, in order to better coordinate with ICE/EOX market power-gas prices.

GHG - Market Price Forecast



Current forecast reflects the expected shortage of allowances (tightening of supply/escalating prices) after 2017 (end of second compliance period)

Ancillary Services - Revenue Forecast

- Historical energy prices at LEC are highly correlated with NP15 ancillary services capacity prices
 - Using linear regression, AS capacity prices (Spin, Regulation Up and Regulation Down) were estimated as a function of energy prices in the same hour
- Historical Ancillary Services awards at LEC are correlated with AS capacity prices at NP15 as limited by LEC energy schedules
 - Relationships best captured through non-linear regressions
- AS prices and awards were forecasted by applying these historical relationships to PLEXOS model outputs

LEC – Summary of Modeled Properties

Maximum Capacity:	280 MW (nominal)
Min Stable Level:	165 MW
Monthly Capacity Rating:	Varying hourly capacity ratings by month (24 hour ratings per month) based on typical ambient temperatures thru the da
Heat Rate (average full-load) :	6,850 BTU/kWh
Startup Costs:	(<i>Hot</i>) \$12,000 (net of imbalance revenues) (<i>Warm</i>) \$13,000 (<i>Cold</i>) \$15,000
Minimum Up Time:	5 hours
Minimum Down Time:	3 hours
Max Ramp Up:	13.4 MW/minute
Max Ramp Down:	13.4 MW/minute

Calculation of Variable Costs (Dispatch cost)

- **“Total Variable Cost”** = Fuel Cost + Startup Cost + VO&M + GHG
- **GHG Cost**: separate Cost category in PLEXOS – not included in NCPA’s FY 2015 budget, but an estimate based on forecasted generation level is available for operational purposes.

Calculation of VOM Adder – for GHG Cost (Gas fired Units)

	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019+</u>
IHS-CERA CCA Forecast (\$/mT)	11.67	12.82	14.95	17.59	24.20	40.00
Escalator		3.0%	2.6%	2.9%	2.5%	2.5%
	LEC					
LDC (included in fuel cost)	0.54	0.55	0.57	0.59	0.60	0.62
Regular VO&M (incl. GMC)	3.39	3.49	3.58	3.69	3.78	3.87
LEC - mT/MWh	0.371	0.371	0.371	0.371	0.371	0.371
GHG \$/MWh	4.33	4.76	5.55	6.53	8.98	14.84
TOTAL (before fuel)	\$ 7.72	\$ 8.25	\$ 9.13	\$ 10.21	\$ 12.76	\$ 18.71

Monthly Generation – LEC Plant Totals (Gwh)

		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total	annual CF
2015	HLH	75.485	106.621	96.183	114.596	91.556	97.095	92.688	76.580	35.646	53.950	24.652	32.988	898.040	49.2%
	LLH	21.800	59.722	33.671	45.819	43.305	31.529	36.457	11.533	9.772	2.937	2.475	10.483	309.503	
	FY 2015 Total	97.285	166.343	129.854	160.415	134.861	128.624	129.145	88.113	45.418	56.887	27.127	43.470	1,207.543	
2016	HLH	81.702	98.838	89.607	101.528	85.455	93.202	71.787	47.468	29.270	60.906	36.270	48.069	844.102	44.6%
	LLH	23.624	49.265	33.635	27.559	34.665	32.355	22.181	8.824	6.334	7.062	1.774	2.420	249.698	
	FY 2016 Total	105.326	148.103	123.242	129.087	120.120	125.557	93.968	56.292	35.604	67.968	38.044	50.489	1,093.800	
2017	HLH	57.155	98.273	75.889	90.992	77.664	87.025	67.993	36.529	28.384	20.840	26.695	33.889	701.328	36.7%
	LLH	20.621	44.342	19.587	23.603	14.927	30.925	28.000	7.455	3.396	3.234	1.582	0.660	198.332	
	FY 2017 Total	77.777	142.615	95.476	114.595	92.591	117.950	95.993	43.984	31.780	24.074	28.277	34.549	899.661	
2018	HLH	61.129	102.651	90.051	87.369	59.731	74.970	53.096	34.087	12.539	3.362	16.167	24.837	619.989	32.5%
	LLH	18.234	41.603	19.072	28.765	14.471	26.621	15.422	9.543	1.155	0.297	0.825	-	176.008	
	FY 2018 Total	79.363	144.254	109.123	116.134	74.202	101.591	68.518	43.630	13.694	3.659	16.992	24.837	795.996	
2019	HLH	54.112	85.200	70.497	71.054	46.272	52.657	51.487	41.155	15.840	10.151	15.235	24.498	538.158	27.0%
	LLH	12.554	17.762	14.804	18.811	10.046	18.257	20.217	8.453	1.980	0.495	1.155	-	124.534	
	FY 2019 Total	66.666	102.962	85.301	89.865	56.318	70.914	71.704	49.608	17.820	10.646	16.390	24.498	662.692	
2020	HLH	63.597	83.672	60.553	65.462	37.145	50.147	46.205	39.675	-	2.475	10.044	24.764	483.738	24.6%
	LLH	14.621	24.001	13.687	13.196	11.618	13.984	17.348	9.858	-	0.165	0.660	0.330	119.468	
	FY 2020 Total	78.218	107.673	74.240	78.658	48.763	64.131	63.553	49.533	-	2.640	10.704	25.094	603.207	
2021	HLH	58.410	80.741	80.159	74.489	42.978	56.720	42.987	32.550	2.640	-	13.004	25.772	510.450	26.0%
	LLH	10.943	26.583	13.881	17.281	12.870	19.211	15.504	10.030	0.330	-	0.165	-	126.798	
	FY 2020 Total	69.353	107.324	94.040	91.770	55.848	75.931	58.491	42.580	2.970	-	13.169	25.772	637.248	
2022	HLH	69.015	86.054	91.146	66.267	38.167	51.131	38.862	35.323	2.640	-	14.977	29.093	522.676	26.4%
	LLH	11.285	23.324	14.878	18.501	14.660	16.646	19.991	6.072	0.330	-	0.165	-	125.852	
	FY 2022 Total	80.300	109.378	106.024	84.768	52.827	67.777	58.853	41.395	2.970	-	15.142	29.093	648.528	
2023	HLH	69.387	92.847	94.140	59.684	35.033	51.872	39.368	37.469	-	-	19.318	30.143	529.262	26.3%
	LLH	12.077	18.598	15.705	17.304	11.011	16.833	16.928	6.063	-	-	0.330	-	114.849	
	FY 2023 Total	81.464	111.445	109.845	76.988	46.044	68.705	56.297	43.532	-	-	19.648	30.143	644.111	
2024	HLH	73.508	97.463	95.134	50.192	29.426	49.485	46.498	33.762	-	-	18.673	31.191	525.332	26.1%
	LLH	11.575	21.300	14.718	17.404	12.993	19.738	11.628	6.453	-	-	-	-	115.809	
	FY 2024 Total	85.083	118.763	109.852	67.596	42.419	69.223	58.126	40.215	-	-	18.673	31.191	641.141	

5-Year Forecast: Plant Totals

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>
Energy	1,208	1,094	900	796	663
Value of Energy	\$ 56,141,615	\$ 49,353,854	\$ 41,168,298	\$ 38,262,701	\$ 33,077,213
A/S Revenue	1,420,431	1,491,453	1,566,025	1,644,326	1,726,543
less Variable Costs (incl. GHG)	(53,218,524)	(48,957,438)	(41,621,679)	(38,595,228)	(35,587,149)
NET	\$ 4,343,521	\$ 1,887,868	\$ 1,112,644	\$ 1,311,799	\$ (783,393)

Total Variable Costs = sum(Fuel costs incl. transport; VO&M; Startup/shutdown costs; GHG costs)

FY 2015 – Forecasted Energy and Value of Generation*

Lodi Energy Center - FY 2015 Expected Generation -- MWh

	Azusa	BART	Biggs	CDWR	Gridley	Healds	Lodi	Lompoc	MID	PSREC	PWRPA	SVP	Ukiah
	2.786%	6.600%	0.268%	33.500%	1.964%	1.643%	9.500%	2.036%	10.714%	0.786%	2.66790%	25.750%	1.786%
Jul-14	2,710	6,421	261	32,591	1,911	1,598	9,242	1,980	10,423	764	2,595	25,051	1,737
Aug-14	4,634	10,979	446	55,725	3,267	2,733	15,803	3,386	17,822	1,307	4,438	42,833	2,970
Sep-14	3,617	8,570	348	43,501	2,551	2,133	12,336	2,643	13,913	1,020	3,464	33,437	2,319
Oct-14	4,469	10,587	430	53,739	3,151	2,635	15,239	3,266	17,187	1,260	4,280	41,307	2,865
Nov-14	3,757	8,901	361	45,178	2,649	2,215	12,812	2,745	14,449	1,060	3,598	34,727	2,408
Dec-14	3,583	8,489	345	43,089	2,527	2,113	12,219	2,618	13,781	1,011	3,432	33,121	2,297
Jan-15	3,598	8,524	346	43,264	2,537	2,122	12,269	2,629	13,837	1,015	3,445	33,255	2,306
Feb-15	2,455	5,815	236	29,518	1,731	1,448	8,371	1,794	9,441	692	2,351	22,689	1,573
Mar-15	1,265	2,998	122	15,215	892	746	4,315	925	4,866	357	1,212	11,695	811
Apr-15	1,585	3,755	152	19,057	1,117	935	5,404	1,158	6,095	447	1,518	14,648	1,016
May-15	756	1,790	73	9,088	533	446	2,577	552	2,906	213	724	6,985	484
Jun-15	1,211	2,869	116	14,563	854	714	4,130	885	4,658	342	1,160	11,194	776
	33,639	79,698	3,235	404,527	23,720	19,838	114,717	24,582	129,380	9,488	32,216	310,942	21,563

Expected Energy Value of Generation

	Azusa	BART	Biggs	CDWR	Gridley	Healds	Lodi	Lompoc	MID	PSREC	PWRPA	SVP	Ukiah
	2.786%	6.600%	0.268%	33.500%	1.964%	1.643%	9.500%	2.036%	10.714%	0.786%	2.66790%	25.750%	1.786%
Jul-14	\$ 121,481	\$ 287,817	\$ 11,683	\$ 1,460,891	\$ 85,661	\$ 71,642	\$ 414,283	\$ 88,775	\$ 467,237	\$ 34,263	\$ 116,344	\$ 1,122,924	\$ 77,872
Aug-14	227,093	538,040	21,840	2,730,958	160,132	133,925	774,451	165,954	873,442	64,051	217,490	2,099,169	145,572
Sep-14	167,358	396,513	16,095	2,012,602	118,011	98,697	570,738	122,301	643,690	47,203	160,281	1,547,000	107,281
Oct-14	205,530	486,950	19,766	2,471,642	144,927	121,208	700,913	150,196	790,505	57,969	196,839	1,899,844	131,750
Nov-14	165,354	391,765	15,902	1,988,502	116,597	97,515	563,904	120,836	635,982	46,638	158,362	1,528,475	105,996
Dec-14	162,282	384,485	15,607	1,951,553	114,431	95,704	553,426	118,591	624,165	45,771	155,419	1,500,075	104,027
Jan-15	168,529	399,285	16,207	2,026,675	118,836	99,387	574,729	123,156	648,191	47,533	161,402	1,557,817	108,031
Feb-15	116,402	275,784	11,194	1,399,811	82,079	68,646	396,961	85,063	447,701	32,831	111,479	1,075,974	74,616
Mar-15	61,007	144,540	5,867	733,652	43,018	35,978	208,051	44,582	234,644	17,207	58,427	563,926	39,107
Apr-15	73,670	174,543	7,085	885,936	51,948	43,446	251,236	53,836	283,349	20,779	70,555	680,981	47,224
May-15	36,283	85,964	3,489	436,334	25,585	21,398	123,737	26,515	139,553	10,234	34,749	335,391	23,259
Jun-15	58,947	139,659	5,669	708,876	41,566	34,763	201,024	43,077	226,720	16,626	56,454	544,882	37,786
	\$ 1,563,936	\$ 3,705,345	\$ 150,403	\$ 18,807,433	\$ 1,102,789	\$ 922,310	\$ 5,333,451	\$ 1,142,882	\$ 6,015,178	\$ 441,104	\$ 1,497,801	\$ 14,456,460	\$ 1,002,520

*Energy Value of Generation = PLEXOS “Pool Revenue”

Expected Energy Value of Generation

	Azusa 2.786%	BART 6.600%	Biggs 0.268%	CDWR 33.500%	Gridley 1.964%	Healds 1.643%	Lodi 9.500%	Lompoc 2.036%	MID 10.714%	PSREC 0.786%	PWRPA 2.66790%	SVP 25.750%	Ukiah 1.786%
Jul-14	\$ 121,481	\$ 287,817	\$ 11,683	\$ 1,460,891	\$ 85,661	\$ 71,642	\$ 414,283	\$ 88,775	\$ 467,237	\$ 34,263	\$ 116,344	\$ 1,122,924	\$ 77,872
Aug-14	227,093	538,040	21,840	2,730,958	160,132	133,925	774,451	165,954	873,442	64,051	217,490	2,099,169	145,572
Sep-14	167,358	396,513	16,095	2,012,602	118,011	98,697	570,738	122,301	643,690	47,203	160,281	1,547,000	107,281
Oct-14	205,530	486,950	19,766	2,471,642	144,927	121,208	700,913	150,196	790,505	57,969	196,839	1,899,844	131,750
Nov-14	165,354	391,765	15,902	1,988,502	116,597	97,515	563,904	120,836	635,982	46,638	158,362	1,528,475	105,996
Dec-14	162,282	384,485	15,607	1,951,553	114,431	95,704	553,426	118,591	624,165	45,771	155,419	1,500,075	104,027
Jan-15	168,529	399,285	16,207	2,026,675	118,836	99,387	574,729	123,156	648,191	47,533	161,402	1,557,817	108,031
Feb-15	116,402	275,784	11,194	1,399,811	82,079	68,646	396,961	85,063	447,701	32,831	111,479	1,075,974	74,616
Mar-15	61,007	144,540	5,867	733,652	43,018	35,978	208,051	44,582	234,644	17,207	58,427	563,926	39,107
Apr-15	73,670	174,543	7,085	885,936	51,948	43,446	251,236	53,836	283,349	20,779	70,555	680,981	47,224
May-15	36,283	85,964	3,489	436,334	25,585	21,398	123,737	26,515	139,553	10,234	34,749	335,391	23,259
Jun-15	58,947	139,659	5,669	708,876	41,566	34,763	201,024	43,077	226,720	16,626	56,454	544,882	37,786
	\$ 1,563,936	\$ 3,705,345	\$ 150,403	\$ 18,807,433	\$ 1,102,789	\$ 922,310	\$ 5,333,451	\$ 1,142,882	\$ 6,015,178	\$ 441,104	\$ 1,497,801	\$ 14,456,460	\$ 1,002,520

Forecasted Dispatch Cost (Sum of Fuel Cost, Fuel Transport Cost, Plant Start costs, VO&M, GHG Cost)

	Azusa 2.786%	BART 6.600%	Biggs 0.268%	CDWR 33.500%	Gridley 1.964%	Healds 1.643%	Lodi 9.500%	Lompoc 2.036%	MID 10.714%	PSREC 0.786%	PWRPA 2.66790%	SVP 25.750%	Ukiah 1.786%
Jul-14	\$ 120,650	\$ 285,849	\$ 11,603	\$ 1,450,899	\$ 85,075	\$ 71,150	\$ 411,449	\$ 88,167	\$ 464,041	\$ 34,029	\$ 115,548	\$ 1,115,244	\$ 77,339
Aug-14	193,253	457,862	18,585	2,323,999	136,270	113,966	659,044	141,223	743,284	54,506	185,080	1,786,357	123,880
Sep-14	156,395	370,537	15,040	1,880,756	110,280	92,230	533,349	114,288	601,522	44,111	149,781	1,445,656	100,253
Oct-14	188,922	447,603	18,169	2,271,924	133,216	111,412	644,277	138,058	726,629	53,285	180,933	1,746,330	121,104
Nov-14	161,936	383,666	15,573	1,947,396	114,187	95,498	552,247	118,338	622,836	45,674	155,088	1,496,879	103,805
Dec-14	158,942	376,573	15,285	1,911,391	112,076	93,732	542,036	116,150	611,320	44,829	152,221	1,469,203	101,886
Jan-15	161,317	382,198	15,514	1,939,947	113,750	95,133	550,134	117,885	620,453	45,499	154,495	1,491,153	103,408
Feb-15	113,783	269,580	10,943	1,368,324	80,233	67,101	388,032	83,149	437,631	32,092	108,972	1,051,771	72,938
Mar-15	60,933	144,366	5,860	732,768	42,966	35,934	207,800	44,528	234,361	17,186	58,357	563,247	39,060
Apr-15	71,262	168,838	6,853	856,980	50,250	42,025	243,024	52,076	274,088	20,099	68,249	658,723	45,681
May-15	36,241	85,863	3,485	435,821	25,555	21,372	123,591	26,484	139,389	10,222	34,708	334,997	23,231
Jun-15	58,874	139,487	5,662	708,001	41,514	34,720	200,776	43,023	226,440	16,605	56,384	544,210	37,740
	\$ 1,482,508	\$ 3,512,423	\$ 142,572	\$ 17,828,206	\$ 1,045,371	\$ 874,274	\$ 5,055,760	\$ 1,083,369	\$ 5,701,992	\$ 418,138	\$ 1,419,817	\$ 13,703,770	\$ 950,323

Net Value of Generation - before A/S Revenue

	Azusa 2.786%	BART 6.600%	Biggs 0.268%	CDWR 33.500%	Gridley 1.964%	Healds 1.643%	Lodi 9.500%	Lompoc 2.036%	MID 10.714%	PSREC 0.786%	PWRPA 2.66790%	SVP 25.750%	Ukiah 1.786%
Jul-14	\$ 831	\$ 1,969	\$ 80	\$ 9,992	\$ 586	\$ 491	\$ 2,834	\$ 608	\$ 3,196	\$ 234	\$ 796	\$ 7,680	\$ 533
Aug-14	33,841	80,177	3,254	406,959	23,862	19,959	115,406	24,731	130,158	9,545	32,410	312,812	21,693
Sep-14	10,964	25,976	1,054	131,846	7,731	6,467	37,389	8,013	42,168	3,092	10,500	101,344	7,028
Oct-14	16,608	39,347	1,597	199,718	11,711	9,796	56,636	12,137	63,876	4,684	15,905	153,515	10,646
Nov-14	3,418	8,098	329	41,106	2,410	2,017	11,657	2,499	13,147	964	3,274	31,596	2,191
Dec-14	3,340	7,913	321	40,162	2,355	1,971	11,389	2,441	12,845	942	3,198	30,871	2,141
Jan-15	7,212	17,087	694	86,728	5,085	4,255	24,595	5,271	27,738	2,034	6,907	66,664	4,623
Feb-15	2,618	6,203	252	31,487	1,846	1,545	8,929	1,914	10,070	738	2,508	24,203	1,678
Mar-15	73	174	7	884	52	44	251	54	283	21	70	679	47
Apr-15	2,408	5,705	232	28,957	1,698	1,421	8,212	1,760	9,261	679	2,306	22,258	1,544
May-15	43	101	4	513	30	26	146	31	164	12	41	395	27
Jun-15	73	172	7	875	51	44	248	53	280	21	70	673	47
	\$ 81,428	\$ 192,922	\$ 7,831	\$ 979,227	\$ 57,418	\$ 48,036	\$ 277,691	\$ 59,513	\$ 313,186	\$ 22,967	\$ 77,984	\$ 752,690	\$ 52,197

Net Value of Generation - before A/S Revenue

	Azusa 2.786%	BART 6.600%	Biggs 0.268%	CDWR 33.500%	Gridley 1.964%	Healds 1.643%	Lodi 9.500%	Lompoc 2.036%	MID 10.714%	PSREC 0.786%	PWRPA 2.66790%	SVP 25.750%	Ukiah 1.786%
Jul-14	\$ 831	\$ 1,969	\$ 80	\$ 9,992	\$ 586	\$ 491	\$ 2,834	\$ 608	\$ 3,196	\$ 234	\$ 796	\$ 7,680	\$ 533
Aug-14	33,841	80,177	3,254	406,959	23,862	19,959	115,406	24,731	130,158	9,545	32,410	312,812	21,693
Sep-14	10,964	25,976	1,054	131,846	7,731	6,467	37,389	8,013	42,168	3,092	10,500	101,344	7,028
Oct-14	16,608	39,347	1,597	199,718	11,711	9,796	56,636	12,137	63,876	4,684	15,905	153,515	10,646
Nov-14	3,418	8,098	329	41,106	2,410	2,017	11,657	2,499	13,147	964	3,274	31,596	2,191
Dec-14	3,340	7,913	321	40,162	2,355	1,971	11,389	2,441	12,845	942	3,198	30,871	2,141
Jan-15	7,212	17,087	694	86,728	5,085	4,255	24,595	5,271	27,738	2,034	6,907	66,664	4,623
Feb-15	2,618	6,203	252	31,487	1,846	1,545	8,929	1,914	10,070	738	2,508	24,203	1,678
Mar-15	73	174	7	884	52	44	251	54	283	21	70	679	47
Apr-15	2,408	5,705	232	28,957	1,698	1,421	8,212	1,760	9,261	679	2,306	22,258	1,544
May-15	43	101	4	513	30	26	146	31	164	12	41	395	27
Jun-15	73	172	7	875	51	44	248	53	280	21	70	673	47
	\$ 81,428	\$ 192,922	\$ 7,831	\$ 979,227	\$ 57,418	\$ 48,036	\$ 277,691	\$ 59,513	\$ 313,186	\$ 22,967	\$ 77,984	\$ 752,690	\$ 52,197

Value of Ancillary Services

	Azusa 2.786%	BART 6.600%	Biggs 0.268%	CDWR 33.500%	Gridley 1.964%	Healds 1.643%	Lodi 9.500%	Lompoc 2.036%	MID 10.714%	PSREC 0.786%	PWRPA 2.66790%	SVP 25.750%	Ukiah 1.786%
Jul-14	\$ 4,410	\$ 10,449	\$ 424	\$ 53,039	\$ 3,110	\$ 2,601	\$ 15,041	\$ 3,223	\$ 16,963	\$ 1,244	\$ 4,224	\$ 40,769	\$ 2,827
Aug-14	6,206	14,703	597	74,630	4,376	3,660	21,164	4,535	23,869	1,750	5,943	57,365	3,978
Sep-14	5,175	12,260	498	62,229	3,649	3,052	17,647	3,781	19,903	1,459	4,956	47,833	3,317
Oct-14	5,325	12,617	512	64,040	3,755	3,141	18,161	3,892	20,482	1,502	5,100	49,225	3,414
Nov-14	3,816	9,042	367	45,894	2,691	2,251	13,015	2,789	14,678	1,076	3,655	35,276	2,446
Dec-14	3,646	8,637	351	43,840	2,571	2,150	12,432	2,664	14,021	1,028	3,491	33,698	2,337
Jan-15	3,494	8,279	336	42,020	2,464	2,061	11,916	2,553	13,439	986	3,346	32,299	2,240
Feb-15	2,542	6,022	244	30,567	1,792	1,499	8,668	1,857	9,776	717	2,434	23,496	1,629
Mar-15	1,014	2,403	98	12,195	715	598	3,458	741	3,900	286	971	9,374	650
Apr-15	1,476	3,496	142	17,746	1,041	870	5,032	1,078	5,676	416	1,413	13,640	946
May-15	635	1,503	61	7,631	447	374	2,164	464	2,441	179	608	5,865	407
Jun-15	1,831	4,337	176	22,015	1,291	1,080	6,243	1,338	7,041	516	1,753	16,922	1,173
	\$ 39,569	\$ 93,748	\$ 3,805	\$ 475,844	\$ 27,902	\$ 23,335	\$ 134,941	\$ 28,916	\$ 152,189	\$ 11,160	\$ 37,896	\$ 365,761	\$ 25,365

Value of Generation + Ancillary Services

	Azusa 2.786%	BART 6.600%	Biggs 0.268%	CDWR 33.500%	Gridley 1.964%	Healds 1.643%	Lodi 9.500%	Lompoc 2.036%	MID 10.714%	PSREC 0.786%	PWRPA 2.66790%	SVP 25.750%	Ukiah 1.786%
Jul-14	5,241	12,418	504	63,031	3,696	3,092	17,874	3,831	20,159	1,478	5,020	48,449	3,360
Aug-14	40,047	94,880	3,851	481,589	28,238	23,619	136,570	29,266	154,027	11,295	38,353	370,177	25,671
Sep-14	16,138	38,236	1,552	194,075	11,380	9,519	55,036	11,794	62,071	4,552	15,456	149,177	10,345
Oct-14	21,933	51,964	2,109	263,758	15,466	12,937	74,797	16,029	84,358	6,186	21,005	202,740	14,059
Nov-14	7,234	17,140	696	86,999	5,101	4,268	24,671	5,288	27,825	2,040	6,929	66,873	4,637
Dec-14	6,985	16,550	672	84,003	4,926	4,121	23,822	5,105	26,867	1,970	6,690	64,569	4,478
Jan-15	10,706	25,365	1,030	128,748	7,549	6,315	36,511	7,825	41,178	3,020	10,253	98,963	6,863
Feb-15	5,160	12,226	496	62,054	3,639	3,044	17,597	3,771	19,847	1,455	4,942	47,698	3,308
Mar-15	1,088	2,577	105	13,079	767	642	3,709	795	4,183	307	1,042	10,053	697
Apr-15	3,884	9,201	373	46,702	2,738	2,291	13,244	2,838	14,937	1,095	3,719	35,898	2,489
May-15	677	1,604	65	8,144	478	400	2,310	495	2,605	191	649	6,260	434
Jun-15	1,903	4,510	183	22,889	1,342	1,123	6,491	1,391	7,321	537	1,823	17,594	1,220
	\$ 120,997	\$ 286,671	\$ 11,636	\$ 1,455,071	\$ 85,319	\$ 71,371	\$ 412,632	\$ 88,429	\$ 465,375	\$ 34,127	\$ 115,880	\$ 1,118,450	\$ 77,562

Questions??:



Lodi Energy Center Project Participant Committee Staff Report

AGENDA ITEM NO.: 3

Date: April 11, 2015
To: Lodi Energy Center Project Participant Committee
Subject: Approval of Lodi Energy Center FY2015 Annual Budget

Proposal

Approve and adopt the Lodi Energy Center FY 2015 Annual Budget in the amount of \$90,878,345 and recommend for NCPA Commission approval.

Background

In October 2013, the Commission approved budget guidance for the NCPA FY 2015 Annual Budget and staff began preparation of the proposed budget during the following months. From January through April 10, 2014 various presentations on the budget were made as follows:

- Facilities Committee (January 8, February 12, March 12)
- Utility Directors (March 20-21- retreat)
- Lodi Energy Center Project Participant Committee (February 10, March 10, April 10)

All changes resulting from the budget review meetings have been incorporated in the proposed Lodi Energy Center FY 2015 Annual Budget. The Participants have been provided with the Lodi Energy Center Annual Operating Budget document and analysis.

Fiscal Impact

The Lodi Energy Center Annual Budget cost for FY2015 is approximately \$90.9 million, which represents a decrease of about \$0.1 million from the prior year's budget. Third Party Revenue forecast for FY 2015 is approximately \$56.0 million, which is about \$0.4 million more than the prior year's amount.

The forecast Net Annual Budget Cost to Participants is about \$34.9 million which is about \$0.5 million less than the prior year's budget, as augmented. Funding allocations for each member are attached to this staff report and is shown on page H-1 of the budget.

Environmental Analysis

This activity would not result in a direct or reasonably foreseeable indirect change in the physical environment and is therefore not a "project" for purposes of Section 21065 the California Environmental Quality Act. No environmental review is necessary.

Recommendation

NCPA staff recommends that the PPC pass a motion to approve the Lodi Energy Center FY2015 Annual Budget in the amount of \$90,878,345 and recommend for NCPA Commission approval.

Prepared by:


for DONNA STEVENER
Assistant General Manager/CFO
Administrative Services/Finance

Attachments: (1)

- Allocation of Project Budget

LODI ENERGY CENTER
Allocation of Project Budget
FY 2015

Allocation Percentages:		Allocated by	Total	Azusa	BART	Biggs	CDWR	Gridley	Healdsburg	Lodi	Lompoc	MID	Plumas-Sierra	PWRPA	SVP	Ukiah
Generation Entitlement Share		GES	100.0000%	2.7857%	6.6000%	0.2679%	33.5000%	1.9643%	1.6428%	9.5000%	2.0357%	10.7143%	0.7857%	2.6679%	25.7500%	1.7857%
Indenture Cost Share Group A		ICS A	100.0000%	4.9936%	11.8310%	0.4802%	0.0000%	3.5212%	2.9448%	17.0295%	3.6491%	0.0000%	1.4084%	4.7824%	46.1588%	3.2010%
Indenture Cost Share Group B		ICS B	100.0000%	0.000%	0.000%	0.000%	100.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
PROJECTED MWH			1,207,542	33,638	79,698	3,235	404,527	23,720	19,837	114,716	24,582	129,380	9,488	32,216	310,942	21,563
PROJECT COSTS:																
Fuel Cost	GES	\$	41,167,130	\$ 1,146,793	\$ 2,717,031	\$ 110,287	\$ 13,790,989	\$ 808,646	\$ 676,294	\$ 3,910,877	\$ 838,039	\$ 4,410,770	\$ 323,450	\$ 1,098,298	\$ 10,600,536	\$ 735,121
Labor	GES	\$	4,299,182	\$ 119,762	\$ 263,746	\$ 11,518	\$ 1,440,226	\$ 84,449	\$ 70,627	\$ 408,422	\$ 87,518	\$ 460,627	\$ 33,779	\$ 114,698	\$ 1,107,039	\$ 76,770
Variable O&M	GES	\$	3,651,332	\$ 101,715	\$ 240,988	\$ 9,782	\$ 1,223,196	\$ 71,723	\$ 59,984	\$ 346,877	\$ 74,330	\$ 391,215	\$ 28,689	\$ 97,414	\$ 940,218	\$ 65,202
Fixed O&M	GES	\$	1,765,358	\$ 49,178	\$ 116,514	\$ 4,729	\$ 591,395	\$ 34,677	\$ 29,001	\$ 167,709	\$ 35,937	\$ 189,146	\$ 13,870	\$ 47,098	\$ 454,580	\$ 31,524
O&M Administration	GES	\$	1,250,914	\$ 34,847	\$ 82,560	\$ 3,351	\$ 419,056	\$ 24,572	\$ 20,550	\$ 118,837	\$ 25,465	\$ 134,027	\$ 9,828	\$ 33,373	\$ 322,110	\$ 22,338
Mandatory Costs	GES	\$	220,000	\$ 6,129	\$ 14,520	\$ 589	\$ 73,700	\$ 4,321	\$ 3,614	\$ 20,900	\$ 4,479	\$ 23,571	\$ 1,729	\$ 5,869	\$ 56,650	\$ 3,929
Inventory Stock	GES	\$	400,000	\$ 11,143	\$ 26,400	\$ 1,072	\$ 134,000	\$ 7,857	\$ 6,571	\$ 38,000	\$ 8,143	\$ 42,857	\$ 3,143	\$ 10,672	\$ 103,000	\$ 7,143
O&M and Capital Projects Costs	GES	\$	6,791,260	\$ 189,184	\$ 448,223	\$ 18,194	\$ 2,275,072	\$ 133,401	\$ 111,567	\$ 645,170	\$ 138,250	\$ 727,636	\$ 53,359	\$ 181,184	\$ 1,748,749	\$ 121,272
Other Costs	GES	\$	1,441,211	\$ 40,148	\$ 95,120	\$ 3,861	\$ 482,806	\$ 28,310	\$ 23,676	\$ 136,915	\$ 29,339	\$ 154,416	\$ 11,324	\$ 38,450	\$ 371,112	\$ 25,736
Transmission (CAISO)		\$	489,050	\$ 13,479	\$ 31,936	\$ 1,296	\$ 162,101	\$ 9,505	\$ 7,949	\$ 45,969	\$ 9,850	\$ 51,844	\$ 3,802	\$ 18,078	\$ 124,600	\$ 8,641
Debt Service Cost:																
Indenture Group A Cost	ICS A	\$	21,233,950	\$ 1,060,339	\$ 2,512,189	\$ 101,965	\$ -	\$ 747,690	\$ 625,297	\$ 3,616,036	\$ 774,848	\$ -	\$ 299,059	\$ 1,015,492	\$ 9,801,337	\$ 679,699
BAB's Subsidy (Group A)	ICS A	\$	(4,194,160)	\$ (209,440)	\$ (496,211)	\$ (20,140)	\$ -	\$ (147,685)	\$ (123,510)	\$ (714,244)	\$ (153,049)	\$ -	\$ (59,071)	\$ (200,582)	\$ (1,935,974)	\$ (134,255)
Debt Fees (Group A)	ICS A	\$	29,804	\$ 1,488	\$ 3,526	\$ 143	\$ -	\$ 1,049	\$ 878	\$ 5,075	\$ 1,088	\$ -	\$ 420	\$ 1,425	\$ 13,757	\$ 954
Indenture Group B Cost	ICS B	\$	11,413,492	\$ -	\$ -	\$ -	\$ 11,413,492	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BAB's Subsidy (Group B)	ICS B	\$	(2,015,392)	\$ -	\$ -	\$ -	\$ (2,015,392)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Fees (Group A)	ICS B	\$	18,644	\$ -	\$ -	\$ -	\$ 18,644	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Admin & General	GES	\$	1,728,654	\$ 48,155	\$ 114,091	\$ 4,631	\$ 579,099	\$ 33,956	\$ 28,398	\$ 164,222	\$ 35,190	\$ 185,213	\$ 13,582	\$ 46,119	\$ 445,128	\$ 30,869
Power Mgmt Allocated Costs	GES	\$	1,187,916	\$ 33,092	\$ 78,402	\$ 3,182	\$ 397,952	\$ 23,334	\$ 19,515	\$ 112,852	\$ 24,182	\$ 127,277	\$ 9,333	\$ 31,692	\$ 305,888	\$ 21,213
Total Project Costs		\$	90,878,345	\$ 2,646,011	\$ 6,269,035	\$ 254,460	\$ 30,986,336	\$ 1,865,805	\$ 1,560,412	\$ 9,023,616	\$ 1,933,609	\$ 6,898,599	\$ 746,296	\$ 2,539,281	\$ 24,458,731	\$ 1,696,154
Third Party Revenue																
ISO Energy Sales	GES	\$	54,517,593	\$ 1,518,697	\$ 3,598,161	\$ 146,053	\$ 18,263,394	\$ 1,070,889	\$ 895,615	\$ 5,179,171	\$ 1,109,815	\$ 5,841,178	\$ 428,345	\$ 1,454,475	\$ 14,038,280	\$ 973,521
Ancillary Services Sales		\$	1,420,431	\$ 39,569	\$ 93,748	\$ 3,805	\$ 475,844	\$ 27,902	\$ 23,335	\$ 134,941	\$ 28,916	\$ 152,189	\$ 11,160	\$ 37,896	\$ 365,761	\$ 25,365
Interest Income	GES	\$	5,950	\$ 166	\$ 393	\$ 16	\$ 1,993	\$ 117	\$ 98	\$ 565	\$ 121	\$ 638	\$ 47	\$ 159	\$ 1,532	\$ 106
Interest Income (Group A)	ICS A	\$	32,667	\$ 1,631	\$ 3,865	\$ 157	\$ -	\$ 1,150	\$ 962	\$ 5,563	\$ 1,192	\$ -	\$ 460	\$ 1,562	\$ 15,079	\$ 1,046
Interest Income (Group B)	ICS B	\$	5,872	\$ -	\$ -	\$ -	\$ 5,872	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		\$	55,982,513	\$ 1,560,063	\$ 3,696,167	\$ 150,030	\$ 18,747,103	\$ 1,100,058	\$ 920,010	\$ 5,320,241	\$ 1,140,044	\$ 5,994,005	\$ 440,012	\$ 1,494,092	\$ 14,420,652	\$ 1,000,038
Annual Project Costs, net			\$ 34,895,832	\$ 1,085,948	\$ 2,572,868	\$ 104,430	\$ 12,239,233	\$ 765,747	\$ 640,402	\$ 3,703,376	\$ 793,565	\$ 904,594	\$ 306,284	\$ 1,045,189	\$ 10,038,079	\$ 696,116
Estimated price per Mwh			\$ 28.90	\$ 32.28	\$ 32.28	\$ 32.28	\$ 30.26	\$ 32.28	\$ 32.28	\$ 32.28	\$ 32.28	\$ 6.99	\$ 32.28	\$ 32.44	\$ 32.28	\$ 32.28
JPA Assessment (per PMOA)			\$ 90,219	\$ 5,080	\$ -	\$ -	\$ 60,851	\$ -	\$ -	\$ -	\$ -	\$ 19,462	\$ -	\$ 4,846	\$ -	\$ -
Summary of Variable and Fixed Project Costs:																
Variable Costs		\$	45,307,512	\$ 1,261,987	\$ 2,989,954	\$ 121,365	\$ 15,176,286	\$ 889,874	\$ 744,227	\$ 4,303,723	\$ 922,219	\$ 4,853,828	\$ 355,941	\$ 1,213,790	\$ 11,665,354	\$ 808,964
Fixed Costs		\$	45,570,833	\$ 1,384,024	\$ 3,279,080	\$ 133,096	\$ 15,810,050	\$ 975,931	\$ 816,185	\$ 4,719,894	\$ 1,011,390	\$ 2,044,770	\$ 390,355	\$ 1,325,492	\$ 12,793,377	\$ 887,190
		\$	90,878,345	\$ 2,646,011	\$ 6,269,035	\$ 254,460	\$ 30,986,336	\$ 1,865,805	\$ 1,560,412	\$ 9,023,616	\$ 1,933,609	\$ 6,898,599	\$ 746,296	\$ 2,539,281	\$ 24,458,731	\$ 1,696,154
FY 2014 Approved Budget (For Comparison Purpose):																
Net Annual Project Costs			\$ 35,371,219	\$ 1,096,169	\$ 2,597,083	\$ 105,413	\$ 12,408,047	\$ 772,955	\$ 646,430	\$ 3,738,231	\$ 801,036	\$ 1,006,489	\$ 309,166	\$ 1,054,978	\$ 10,132,555	\$ 702,668
Project Costs (Decrease)			\$ (475,387)	\$ (10,221)	\$ (24,215)	\$ (983)	\$ (168,814)	\$ (7,208)	\$ (6,027)	\$ (34,855)	\$ (7,471)	\$ (101,896)	\$ (2,882)	\$ (9,788)	\$ (94,476)	\$ (6,551)
			-1.34%	-0.93%	-0.93%	-0.93%	-1.36%	-0.93%	-0.93%	-0.93%	-0.93%	-10.12%	-0.93%	-0.93%	-0.93%	-0.93%

- 1 Generation Entitlement Share (GES) is synonymous with commonly used terms of Project Entitlement Share, Project Percentage, Project Share, Third Phase Share.
- 2 FY 2014 budget has been adjusted for budget augmentation for Transmission Upgrades and approved on April 10, 2014 in a Special LEC PPC meeting.

Section H

Lodi Energy Center Annual Operating Budget

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LODI ENERGY CENTER
Allocation of Project Budget
FY 2015

		Allocated by	Total	Azusa	BART	Biggs	CDWR	Gridley	Healdsburg	Lodi	Lompoc	MID	Plumas-Sierra	PWRPA	SVP	Ukiah
ALLOCATION PERCENTAGES:																
Generation Entitlement Share	GES		100.0000%	2.7857%	6.6000%	0.2679%	33.5000%	1.9643%	1.6428%	9.5000%	2.0357%	10.7143%	0.7857%	2.6679%	25.7500%	1.7857%
Indenture Cost Share Group A	ICS A		100.0000%	4.9936%	11.8310%	0.4802%	0.0000%	3.5212%	2.9448%	17.0295%	3.6491%	0.0000%	1.4084%	4.7824%	46.1588%	3.2010%
Indenture Cost Share Group B	ICS B		100.0000%	0.000%	0.000%	0.000%	100.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
PROJECTED MWH			1,207,542	33,638	79,698	3,235	404,527	23,720	19,837	114,716	24,582	129,380	9,488	32,216	310,942	21,563
PROJECT COSTS:																
Fuel Cost	GES	\$	41,167,130	\$ 1,146,793	\$ 2,717,031	\$ 110,287	\$ 13,790,989	\$ 808,646	\$ 676,294	\$ 3,910,877	\$ 838,039	\$ 4,410,770	\$ 323,450	\$ 1,098,298	\$ 10,600,536	\$ 735,121
Labor	GES	\$	4,299,182	\$ 119,762	\$ 283,746	\$ 11,518	\$ 1,440,226	\$ 84,449	\$ 70,627	\$ 408,422	\$ 87,518	\$ 460,627	\$ 33,779	\$ 114,698	\$ 1,107,039	\$ 76,770
Variable O&M	GES	\$	3,651,332	\$ 101,715	\$ 240,988	\$ 9,782	\$ 1,223,196	\$ 71,723	\$ 59,984	\$ 346,877	\$ 74,330	\$ 391,215	\$ 28,689	\$ 97,414	\$ 940,218	\$ 65,202
Fixed O&M	GES	\$	1,765,358	\$ 49,178	\$ 116,514	\$ 4,729	\$ 591,395	\$ 34,677	\$ 29,001	\$ 167,709	\$ 35,937	\$ 189,146	\$ 13,870	\$ 47,098	\$ 454,580	\$ 31,524
O&M Administration	GES	\$	1,250,914	\$ 34,847	\$ 82,560	\$ 3,351	\$ 419,056	\$ 24,572	\$ 20,550	\$ 118,837	\$ 25,465	\$ 134,027	\$ 9,828	\$ 33,373	\$ 322,110	\$ 22,338
Mandatory Costs	GES	\$	220,000	\$ 6,129	\$ 14,520	\$ 589	\$ 73,700	\$ 4,321	\$ 3,614	\$ 20,900	\$ 4,479	\$ 23,571	\$ 1,729	\$ 5,869	\$ 56,650	\$ 3,929
Inventory Stock	GES	\$	400,000	\$ 11,143	\$ 26,400	\$ 1,072	\$ 134,000	\$ 7,857	\$ 6,571	\$ 38,000	\$ 8,143	\$ 42,857	\$ 3,143	\$ 10,672	\$ 103,000	\$ 7,143
O&M and Capital Projects Costs	GES	\$	6,791,260	\$ 189,184	\$ 448,223	\$ 18,194	\$ 2,275,072	\$ 133,401	\$ 111,567	\$ 645,170	\$ 138,250	\$ 727,636	\$ 53,359	\$ 181,184	\$ 1,748,749	\$ 121,272
Other Costs	GES	\$	1,441,211	\$ 40,148	\$ 95,120	\$ 3,861	\$ 482,806	\$ 28,310	\$ 23,676	\$ 136,915	\$ 29,339	\$ 154,416	\$ 11,324	\$ 38,450	\$ 371,112	\$ 25,736
Transmission (CAISO)		\$	489,050	\$ 13,479	\$ 31,936	\$ 1,296	\$ 162,101	\$ 9,505	\$ 7,949	\$ 45,969	\$ 9,850	\$ 51,844	\$ 3,802	\$ 18,078	\$ 124,600	\$ 8,641
Debt Service Cost:																
Indenture Group A Cost	ICS A	\$	21,233,950	\$ 1,060,339	\$ 2,512,189	\$ 101,985	\$ -	\$ 747,690	\$ 625,297	\$ 3,616,036	\$ 774,848	\$ -	\$ 299,059	\$ 1,015,492	\$ 9,801,337	\$ 679,699
BAB's Subsidy (Group A)	ICS A	\$	(4,194,160)	\$ (209,440)	\$ (496,211)	\$ (20,140)	\$ -	\$ (147,685)	\$ (123,510)	\$ (714,244)	\$ (153,049)	\$ -	\$ (59,071)	\$ (200,582)	\$ (1,935,974)	\$ (134,255)
Debt Fees (Group A)	ICS A	\$	29,804	\$ 1,488	\$ 3,526	\$ 143	\$ -	\$ 1,049	\$ 878	\$ 5,075	\$ 1,088	\$ -	\$ 420	\$ 1,425	\$ 13,757	\$ 954
Indenture Group B Cost	ICS B	\$	11,413,492	\$ -	\$ -	\$ -	\$ 11,413,492	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BAB's Subsidy (Group B)	ICS B	\$	(2,015,392)	\$ -	\$ -	\$ -	\$ (2,015,392)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Fees (Group A)	ICS B	\$	18,644	\$ -	\$ -	\$ -	\$ 18,644	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Admin & General	GES	\$	1,728,654	\$ 48,155	\$ 114,091	\$ 4,631	\$ 579,099	\$ 33,956	\$ 28,398	\$ 164,222	\$ 35,190	\$ 185,213	\$ 13,582	\$ 46,119	\$ 445,128	\$ 30,869
Power Mgmt Allocated Costs	GES	\$	1,187,916	\$ 33,092	\$ 78,402	\$ 3,182	\$ 397,952	\$ 23,334	\$ 19,515	\$ 112,852	\$ 24,182	\$ 127,277	\$ 9,333	\$ 31,692	\$ 305,888	\$ 21,213
Total Project Costs		\$	90,878,345	\$ 2,646,011	\$ 6,269,035	\$ 254,460	\$ 30,986,336	\$ 1,865,805	\$ 1,560,412	\$ 9,023,616	\$ 1,933,609	\$ 6,898,599	\$ 746,296	\$ 2,539,281	\$ 24,458,731	\$ 1,696,154
Third Party Revenue																
ISO Energy Sales	GES	\$	54,517,593	\$ 1,518,697	\$ 3,598,161	\$ 146,053	\$ 18,263,394	\$ 1,070,889	\$ 895,615	\$ 5,179,171	\$ 1,109,815	\$ 5,841,178	\$ 428,345	\$ 1,454,475	\$ 14,038,280	\$ 973,521
Ancillary Services Sales		\$	1,420,431	\$ 39,569	\$ 93,748	\$ 3,805	\$ 475,844	\$ 27,902	\$ 23,335	\$ 134,941	\$ 28,916	\$ 152,189	\$ 11,160	\$ 37,896	\$ 365,761	\$ 25,365
Interest Income	GES	\$	5,950	\$ 166	\$ 393	\$ 16	\$ 1,993	\$ 117	\$ 98	\$ 565	\$ 121	\$ 638	\$ 47	\$ 159	\$ 1,532	\$ 106
Interest Income (Group A)	ICS A	\$	32,667	\$ 1,631	\$ 3,865	\$ 157	\$ -	\$ 1,150	\$ 962	\$ 5,563	\$ 1,192	\$ -	\$ 460	\$ 1,562	\$ 15,079	\$ 1,046
Interest Income (Group B)	ICS B	\$	5,872	\$ -	\$ -	\$ -	\$ 5,872	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		\$	55,982,513	\$ 1,560,063	\$ 3,696,167	\$ 150,030	\$ 18,747,103	\$ 1,100,058	\$ 920,010	\$ 5,320,241	\$ 1,140,044	\$ 5,994,005	\$ 440,012	\$ 1,494,092	\$ 14,420,652	\$ 1,000,038
Annual Project Costs, net			\$ 34,895,832	\$ 1,085,948	\$ 2,572,868	\$ 104,430	\$ 12,239,233	\$ 765,747	\$ 640,402	\$ 3,703,376	\$ 793,565	\$ 904,594	\$ 306,284	\$ 1,045,189	\$ 10,038,079	\$ 696,116
Estimated price per Mwh			\$ 28.90	\$ 32.28	\$ 32.28	\$ 32.28	\$ 30.26	\$ 32.28	\$ 32.28	\$ 32.28	\$ 32.28	\$ 6.99	\$ 32.28	\$ 32.44	\$ 32.28	\$ 32.28
JPA Assessment (per PMOA)			\$ 90,219	\$ 5,060	\$ -	\$ -	\$ 60,851	\$ -	\$ -	\$ -	\$ -	\$ 19,462	\$ -	\$ 4,846	\$ -	\$ -
Summary of Variable and Fixed Project Costs:																
Variable Costs		\$	45,307,512	\$ 1,261,987	\$ 2,989,954	\$ 121,365	\$ 15,176,286	\$ 889,874	\$ 744,227	\$ 4,303,723	\$ 922,219	\$ 4,853,828	\$ 355,941	\$ 1,213,790	\$ 11,665,354	\$ 808,964
Fixed Costs		\$	45,570,833	\$ 1,384,024	\$ 3,279,080	\$ 133,096	\$ 15,810,050	\$ 975,931	\$ 816,185	\$ 4,719,894	\$ 1,011,390	\$ 2,044,770	\$ 390,355	\$ 1,325,492	\$ 12,793,377	\$ 887,190
		\$	90,878,345	\$ 2,646,011	\$ 6,269,035	\$ 254,460	\$ 30,986,336	\$ 1,865,805	\$ 1,560,412	\$ 9,023,616	\$ 1,933,609	\$ 6,898,599	\$ 746,296	\$ 2,539,281	\$ 24,458,731	\$ 1,696,154
FY 2014 Approved Budget (For Comparison Purpose):																
Net Annual Project Costs			\$ 35,371,219	\$ 1,096,169	\$ 2,597,083	\$ 105,413	\$ 12,408,047	\$ 772,955	\$ 646,430	\$ 3,738,231	\$ 801,036	\$ 1,006,489	\$ 309,166	\$ 1,054,978	\$ 10,132,555	\$ 702,668
Project Costs (Decrease)			\$ (475,387)	\$ (10,221)	\$ (24,215)	\$ (983)	\$ (168,814)	\$ (7,208)	\$ (6,027)	\$ (34,855)	\$ (7,471)	\$ (101,896)	\$ (2,882)	\$ (9,788)	\$ (94,476)	\$ (6,551)
			-1.34%	-0.93%	-0.93%	-0.93%	-1.36%	-0.93%	-0.93%	-0.93%	-0.93%	-10.12%	-0.93%	-0.93%	-0.93%	-0.93%

1 Generation Entitlement Share (GES) is synonymous with commonly used terms of Project Entitlement Share, Project Percentage, Project Share, Third Phase Share.

2 FY 2014 budget has been adjusted for budget augmentation for Transmission Upgrades and approved on April 10, 2014 in a Special LEC PPC meeting.

Northern California Power Agency
Lodi Energy Center
Comparative Annual Budget Report

	FY 2014 Budget	Proposed FY 2015 Budget	Increase/ (Decrease)
Routine O & M Costs			
Variable	\$3,588,987	\$3,651,332	\$62,345
Fixed	1,464,503	1,765,358	300,855
Administration	1,214,657	1,250,914	36,257
Mandatory Costs	456,000	220,000	(236,000)
Inventory Stock	400,000	400,000	0
Routine O & M Costs without Labor	7,124,147	7,287,604	163,457
Labor	4,227,098	4,299,182	72,084
Total Routine O & M Costs	11,351,245	11,586,786	235,541
Other Plant Costs			
Fuel	41,400,588	41,167,130	(233,458)
AB32 GHG Offset	5,650,224	0	(5,650,224)
CA ISO Charges (variable)	528,800	489,050	(39,750)
Debt Service	25,956,029	26,437,890	481,861
Insurance	997,500	1,000,425	2,925
Other Costs	63,558	51,781	(11,777)
Generation Services Shared	510,711	437,453	(73,258)
Administrative & General	1,750,798	1,728,654	(22,144)
Power Management Allocated Costs	1,248,718	1,187,916	(60,802)
Total O & M Costs	89,458,171	84,087,085	(5,371,086)
Projects			
Operations & Maintenance	168,000	332,500	164,500
Capital	961,000	4,658,760	3,697,760
Maintenance Reserve	397,250	1,800,000	1,402,750
Total Projects Budget	1,526,250	6,791,260	5,265,010
Annual Budget Cost	90,984,421	90,878,345	(106,076)
Less: Third Party Revenue			
ISO Energy Sales	53,249,904	54,517,593	1,267,689
Ancillary Services Sales	2,290,040	1,420,431	(869,609)
Interest Income - Operations	9,330	5,950	(3,380)
Interest Income (NCPA)	49,216	32,667	(16,549)
Interest Income (CDWR)	14,712	5,872	(8,840)
	55,613,202	55,982,513	369,311
Net Annual Budget Cost To Participants	\$35,371,219	\$34,895,832	(\$475,387)
Total Variable Costs	\$51,168,599	\$45,307,512	(\$5,861,087)
Total Fixed Costs	39,815,822	45,570,833	5,755,011
	<u>\$90,984,421</u>	<u>\$90,878,345</u>	<u>(\$106,076)</u>
Net Annual Generation (MWh)	1,354,957	1,207,542	(147,415)
Net Annual Budget Costs per MWh	\$26	\$29	\$3
Variable Costs per MWh	\$38	\$38	\$0
Fixed Costs per KW Month	\$12	\$14	\$2

NORTHERN CALIFORNIA POWER AGCY
Lodi Energy Center
Comparative Annual Budget Report

	FY 2014 Budget	Proposed FY 2015 Budget	Increase/ (Decrease)
Variable O&M Costs			
Outside Services -			
Siemens LTSA	\$2,336,748	\$2,409,386	\$72,638
Other -			
Ammonia (SCR)	\$150,000	\$101,985	(\$48,015)
Emissions Chemicals/Gases	26,250	19,122	(7,128)
Water Treatment Waste Disposal	63,750	305,954	242,204
Raw Water Treatment System	777,978	0	(777,978)
Demin and Evap Cooler Water Systems	18,841	0	(18,841)
Cooling Tower Treatment	114,000	0	(114,000)
Cooling Tower Blow Down Treatment	26,420	0	(26,420)
Dry Chemicals	0	216,717	216,717
Bulk Chemicals	0	280,458	280,458
Specialty Chemicals	0	127,481	127,481
Laboratory and Testing	0	140,229	140,229
GT Inlet Air Filters	75,000	50,000	(25,000)
Subtotal	<u>1,252,239</u>	<u>1,241,946</u>	<u>(10,293)</u>
Total Variable O&M	<u>\$3,588,987</u>	<u>\$3,651,332</u>	<u>\$62,345</u>

NORTHERN CALIFORNIA POWER AGCY
Lodi Energy Center
Comparative Annual Budget Report

	FY 2014 Budget	Proposed FY 2015 Budget	Increase/ (Decrease)
Fixed O&M Costs			
Outside Services -			
Legal	10,000	40,000	30,000
Engineering	50,000	50,000	0
Electrical/Substation Maintenance	30,000	0	(30,000)
Insulation Maintenance	50,000	30,000	(20,000)
Temporary Labor	30,000	15,000	(15,000)
Buildings and Grounds	20,600	20,000	(600)
Consultants	25,600	50,000	24,400
Corrosion Control	5,150	5,000	(150)
CEMS Support Contact	10,000	10,000	0
Fire Protection	5,150	30,000	24,850
Plant Information Services	0	30,000	30,000
Siemens LTSA	110,000	110,000	0
DCS Support	0	115,000	115,000
Predictive Maintenance	0	50,000	50,000
Subtotal	346,500	555,000	208,500
Other -			
Equipment Rental	70,000	25,000	(45,000)
Safety Equipment	30,900	15,000	(15,900)
Lubricants	10,000	15,000	5,000
Consumables	75,000	50,000	(25,000)
HRSG/Boilers	77,250	77,250	0
Gas Turbine	70,000	70,000	0
Steam Turbine	51,500	51,500	0
Generator	61,800	61,800	0
Misc Maintenance Mat. & Sup.	150,000	200,000	50,000
Water Treatment	150,000	100,000	(50,000)
Liquidated Gas Turbines Shared Facilities - Maintenance	185,593	174,808	(10,785)
Auxiliary Power Usage	135,960	370,000	234,040
Painting of Structures	50,000	0	(50,000)
Subtotal	1,118,003	1,210,358	92,355
Total Fixed O&M	<u>\$1,464,503</u>	<u>\$1,765,358</u>	<u>\$300,855</u>

NORTHERN CALIFORNIA POWER AGCY
Lodi Energy Center
Comparative Annual Budget Report

	FY 2014 Budget	Proposed FY 2015 Budget	Increase/ (Decrease)
Administration			
Outside Services -			
Janitorial	\$5,000	\$0	(\$5,000)
Other -			
Travel & Staff Development	0	30,750	30,750
Ground Lease	1,000,000	1,000,000	0
Liquidated Gas Turbines Shared Facilities - Administration	209,657	220,164	10,507
Subtotal	1,209,657	1,250,914	41,257
Total Administration	\$1,214,657	\$1,250,914	\$36,257
Mandatory Costs			
Air Permit Fee	\$60,000	\$45,000	(\$15,000)
Hazardous Waste Disposal	240,000	25,000	(215,000)
Regulatory Permit Services	51,000	50,000	(1,000)
Title V Permit Fee	105,000	100,000	(5,000)
	\$456,000	\$220,000	(\$236,000)
Inventory			
Critical Gas Turbine Spares	\$100,000	\$100,000	\$0
Critical Spare Parts	300,000	300,000	0
	\$400,000	\$400,000	\$0
Labor			
Generation	\$4,222,616	\$3,305,474	(\$917,142)
Maintenance	0	993,708	993,708
Power Management	4,482	0	(4,482)
	\$4,227,098	\$4,299,182	\$72,084
Debt Service			
Issue #1 (NCPA) -			
Principal	\$4,690,833	\$4,885,417	\$194,584
Interest	16,540,220	16,348,533	(191,687)
BABS Interest Subsidy	(4,519,569)	(4,194,160)	325,409
	16,711,484	17,039,790	328,306
Issue #2 (CDWR) -			
Principal	3,981,250	4,177,500	196,250
Interest	7,435,054	7,235,992	(199,062)
BABS Interest Subsidy	(2,171,759)	(2,015,392)	156,367
	9,244,545	9,398,100	153,555
	\$25,956,029	\$26,437,890	\$481,861

Northern California Power Agency
Lodi Energy Center
Comparative Annual Budget Report

	FY 2014 Budget	Proposed FY 2015 Budget	Increase/ (Decrease)
Other Costs			
Debt Fees	\$35,888	\$37,448	\$1,560
Trustee Fees	16,000	11,000	(5,000)
NERC Compliance	11,670	3,333	(8,337)
	<u>\$63,558</u>	<u>\$51,781</u>	<u>(\$11,777)</u>
Generation Services Shared			
Salaries & Benefits	375,564	314,600	(60,964)
Other Costs	135,147	122,853	(12,294)
	<u>510,711</u>	<u>437,453</u>	<u>(73,258)</u>
Administrative & General			
Administrative Support	\$1,240,436	\$1,239,763	(\$673)
General Support	510,362	488,891	(21,471)
	<u>\$1,750,798</u>	<u>\$1,728,654</u>	<u>(\$22,144)</u>
O&M Projects			
Plant Betterment	\$125,000	\$125,000	\$0
Gas Comp Oil Pump	13,000	0	(13,000)
PI Performance Modules	0	80,000	80,000
Electrical Circuits Relocation	0	75,000	75,000
Inventory Parts Storage	0	52,500	52,500
HRSB/Boiler Overhauls	30,000	0	(30,000)
	<u>\$168,000</u>	<u>\$332,500</u>	<u>\$164,500</u>
Capital Projects			
Title 22 Water Storage Evaluation	\$50,000	\$0	(\$50,000)
Platforms (20)	0	150,000	150,000
Transmission Upgrade Project	911,000	4,508,760	3,597,760
	<u>\$961,000</u>	<u>\$4,658,760</u>	<u>\$3,697,760</u>

**Northern California Power Agency
Lodi Energy Center
Projects Detail**

Projects	Notes	Total	FY 2014 Budget	Proposed FY 2015 Budget	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024
Operations & Maintenance (O&M)													
HRSO/Boiler Overhauls	M	\$ 180,000	\$ 30,000	\$ -	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ -	\$ -	\$ -	\$ -
Injection Well Clean Maintenance	M	195,000	-	-	65,000	-	-	65,000	-	-	-	-	-
Plant Belterment	M	250,000	125,000	125,000	-	-	-	-	-	-	-	-	-
Gas Comp Oil Pump	M	13,000	13,000	-	-	-	-	-	-	-	-	-	-
PI Performance Modules	M	80,000	-	80,000	-	-	-	-	-	-	-	-	-
Electrical Circuits Relocation	M	75,000	-	75,000	-	-	-	-	-	-	-	-	-
Storage Depot	M	52,500	-	52,500	-	-	-	-	-	-	-	-	-
CT Maintenance Access	M	200,000	-	-	200,000	-	-	-	-	-	-	-	-
Steam Turbine Access	M	150,000	-	-	-	-	150,000	-	-	-	-	-	-
Cooling Tower Pump Down	M	100,000	-	-	-	-	-	-	100,000	-	-	-	-
Air Filter Puffer System	M	500,000	-	-	-	-	-	-	-	-	-	500,000	-
Gas Turbine Insulation	M	250,000	-	-	-	-	-	-	-	-	-	250,000	-
DCS Software Upgrades	M	200,000	-	-	-	-	-	-	-	-	200,000	-	-
BOP PLC Upgrades	M	155,000	-	-	30,000	-	-	-	-	-	125,000	-	-
iRig-B Time Stamping	M	30,000	-	-	-	30,000	-	-	-	-	-	-	-
HVAC	M	40,000	-	-	-	-	-	-	-	-	40,000	-	-
Total O&M Projects Funding Requirement		\$ 2,470,500	\$ 168,000	\$ 332,500	\$ 325,000	\$ 60,000	\$ 245,000	\$ 30,000	\$ 195,000	\$ -	\$ 365,000	\$ 750,000	\$ -

Projects	Notes	Total	FY 2014 Budget	Proposed FY 2015 Budget	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024
Capital Projects													
Title 22 Water Storage Evaluation	D	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Platforms (20)	D	950,000	-	150,000	150,000	150,000	150,000	150,000	150,000	50,000	-	-	-
Transmission Upgrades (1)	D	7,674,150	911,000	4,508,760	2,254,390	-	-	-	-	-	-	-	-
DCS	M	250,000	-	-	-	-	-	-	-	-	-	250,000	-
Total Capital Projects Funding Requirement		\$ 8,924,150	\$ 961,000	\$ 4,658,760	\$ 2,404,390	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 50,000	\$ -	\$ 250,000	\$ -

Notes:

- D Discretionary
- M Mandatory

1 Transmission Upgrades project is approved on April 10, 2014 in a Special LEC PPC meeting.

Authorization For Budget (AFB) is prepared for all projects greater than \$100K
The above Capital Projects listing serves as a planning & budgeting tool. Agency, Federal Energy Regulatory Commission, and Governmental Accounting Standards Board capitalization rules, policies and guidelines will be applied as costs are incurred.

**Northern California Power Agency
Maintenance Reserves - Lodi Energy Center
Budget FY 2015**

The Maintenance Reserves have been established to both Fund and Pay for:

- * Anticipated costs of estimated SCHEDULED OVERHAULS;
- * Deductible portion of an insured loss (currently \$500,000 or more depending on the type of loss); and
- * Unanticipated; but, Commission approved cost overruns, extraordinary maintenance NOT budgeted in either the Maintenance Expense Accounts or in the Maintenance Reserve.

Funding/(Expenditures)	Fiscal Year Activity										
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
LEC:											
Beginning Reserve Balance	378,334	-	-	-	-	-	-	-	-	-	-
Combustion Turbine		120,000	3,940,000	100,000	100,000	320,000	3,850,000	100,000	100,000	210,000	500,000
Steam Turbine		-	-	95,000	-	-	-	-	20,000	-	500,000
Generators		-	-	500,000	-	-	-	-	1,000,000	-	-
Plant Projects		-	190,000	300,000	305,000	-	95,000	95,000	415,000	200,000	535,000
HRSG		-	40,000	-	40,000	-	40,000	1,000,000	40,000	-	40,000
Projected Requirements	-	120,000	4,170,000	995,000	445,000	320,000	3,985,000	1,195,000	1,575,000	410,000	1,575,000
Funding Requirement	397,250	1,800,000	1,800,000	1,450,000	1,450,000	1,450,000	1,450,000	1,450,000	1,450,000	1,450,000	1,450,000
Cumulative Balance	\$ 775,584	\$ 2,455,584	\$ 85,584	\$ 540,584	\$ 1,545,584	\$ 2,675,584	\$ 140,584	\$ 395,584	\$ 270,584	\$ 1,310,584	\$ 1,185,584

Table #	Program	Unit of Measure	Description
Table 17	LEC	GWh, GW	LEC Project Generation and Capacity
Table 18	LEC	GWh	LEC Export Energy
Table 19	LEC	# count	LEC Bid Segments
Table 20	LEC	\$	Grid Management Calculation
Table 21	LEC	# count	LEC Participant Inter-SC Sched Count
Table 22	LEC	\$	GMC Inter SC Trades Settlement
Table 23	LEC	\$	LEC Export Energy Costs
Table 24	LEC	\$	LEC Allocated Schedule 7 CAISO Costs
Table 25	LEC	\$	LEC Total Allocated CAISO Costs

		Energy	Spinning Reserve Capacity	Non Spinning Reserve Capacity	Regulation Up Capacity	Regulation Down Capacity	Total Awards
		GWh	GW	GW	GW	GW	
2014	July	97.285	3.019	-	1.982	30.203	132.489
	August	186.343	3.317	-	1.738	46.436	217.834
	Sept	129.854	3.032	-	1.740	38.540	173.166
	October	160.415	0.959	-	0.041	47.000	208.414
	November	134.861	0.030	-	-	34.442	169.334
	December	128.624	-	-	-	33.088	161.712
2015	January	129.145	-	-	-	31.678	160.823
	February	88.113	0.012	-	-	23.030	111.155
	March	45.418	0.015	-	-	9.118	54.551
	April	56.887	0.271	-	-	12.972	70.130
	May	27.127	0.217	-	0.021	5.452	32.817
	June	43.470	1.918	-	1.623	10.456	57.468
FY2015	Total	1207.543	12.791	0.000	7.144	322.414	1549.892

Table 18 LEC Export Energy in GWh

		Azus	BART	Bloss	CDWR	Gridley	Healdsburg	Lodi	Lompoc	MID	Plumas	PWRPA	Santa Clara	Ukiah	Total Export Qty
2014	July	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	August	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Sept	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	October	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	November	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	December	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2015	January	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	February	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	March	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	April	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	May	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	June	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FY2012		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table 19 LEC Bid Segments

		Energy	Spin Reserve Cap	NSpin Reserve	Req Up Capacity	Req Dn Capacity	Total Bid Segments
2014	July	744	5,952	744	744	744	8,928
	August	744	5,952	744	744	744	8,928
	Sept	720	5,760	720	720	720	8,640
	October	744	5,952	744	744	744	8,928
	November	720	5,760	720	720	720	8,640
	December	744	5,952	744	744	744	8,928
2015	January	744	5,952	744	744	744	8,928
	February	672	5,376	672	672	672	8,064
	March	744	5,952	744	744	744	8,928
	April	720	5,760	720	720	720	8,640
	May	744	5,952	744	744	744	8,928
	June	720	5,760	720	720	720	8,640
FY2015	Total	70,080	8,760	8,760	8,760	8,760	105,120

Note: Bid Segments assumed DA and RT Energy Bid curve with 4 bid segments each; and, Spin, NSpin, ReqUp and ReqDn with 1 bid segment each.

CC 4561 - GMC System Operations Charge			
	Rate \$/ MWh		LEC Total
2014 July	0.289	\$	28,115
August	0.289	\$	48,073
Sept	0.289	\$	37,528
Oct	0.289	\$	46,360
Nov	0.289	\$	38,975
Dec	0.289	\$	37,172
2015 Jan	0.289	\$	37,323
Feb	0.289	\$	25,465
Mar	0.289	\$	13,126
April	0.289	\$	16,440
May	0.289	\$	7,840
Jun	0.289	\$	12,563
FY2015	Total	\$	348,980

CC 4560 - GMC Market Services Charge			
	Rate \$/ MW		LEC Total
2014 July	0.087	\$	11,487
August	0.087	\$	18,886
Sept	0.087	\$	15,014
Oct	0.087	\$	18,070
Nov	0.087	\$	14,661
Dec	0.087	\$	14,020
2015 Jan	0.087	\$	13,943
Feb	0.087	\$	9,637
Mar	0.087	\$	4,730
April	0.087	\$	6,080
May	0.087	\$	2,845
Jun	0.087	\$	4,982
FY2015	Total	\$	134,376

CC 4515 - GMC Bid Segment Charge			
	Rate \$/ bid seq		LEC Total
2014 July	0.005	\$	45
August	0.005	\$	45
Sept	0.005	\$	43
Oct	0.005	\$	45
Nov	0.005	\$	43
Dec	0.005	\$	45
2015 Jan	0.005	\$	45
Feb	0.005	\$	40
Mar	0.005	\$	45
April	0.005	\$	43
May	0.005	\$	45
Jun	0.005	\$	43
FY2015	Total	\$	526

CC 4575 - GMC Customer Charge			
	Rate \$/ SC-mo		
2014 July	0.00		
August	0.00		
Sept	0.00		
Oct	0.00		
Nov	0.00		
Dec	0.00		
2015 Jan	0.00		
Feb	0.00		
Mar	0.00		
April	0.00		
May	0.00		
Jun	0.00		
FY2015			

Total GMC for LEC		
	LEC Total GMC Amt.	
2014 July	\$ 39,647	
August	\$ 67,004	
Sept	\$ 52,585	
Oct	\$ 64,474	
Nov	\$ 53,699	
Dec	\$ 51,237	
2015 Jan	\$ 51,311	
Feb	\$ 35,142	
Mar	\$ 17,900	
April	\$ 22,564	
May	\$ 10,730	
Jun	\$ 17,589	
FY2015	\$ 483,881	

Table 21 LEC Participant Inter-SC Sched Count

	Azusa	BART	Biggs	CDWR	Gridley	Healdsburg	Lodi	Lompoc	MID	Plumas	PWRPA	Santa Clara	Ukiah	Total Count
59% Capacity Factor														
2014 July	439										439			439
August	439										439			439
Sept	425										425			425
October	439										439			439
November	425										425			425
December	439										439			439
2015 January	439										439			439
February	396										396			396
March	438										438			438
April	425										425			425
May	439										439			439
June	425										425			425
FY2015	Total	-	-	-	-	-	-	-	-	-	5,168	-	-	5,168

Note: Assumed one inter-sc trade of energy to PWRPA each hour

Table 22 GMC Inter SC Trades Settlement

	Rate \$/ Schedule-hr	Azusa	BART	Biggs	CDWR	Gridley	Healdsburg	Lodi	Lompoc	MID	Plumas	PWRPA	Santa Clara	Ukiah	Total Amount
2014 July	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 439	\$ -	\$ -	439
August	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 439	\$ -	\$ -	439
Sept	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 425	\$ -	\$ -	425
October	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 439	\$ -	\$ -	439
November	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 425	\$ -	\$ -	425
December	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 439	\$ -	\$ -	439
2015 January	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 439	\$ -	\$ -	439
February	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 396	\$ -	\$ -	396
March	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 438	\$ -	\$ -	438
April	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 425	\$ -	\$ -	425
May	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 439	\$ -	\$ -	439
June	1.000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 425	\$ -	\$ -	425
FY2015	Total	-	-	-	-	-	-	-	-	-	-	5,168	-	-	5,168

Northern California Power Agency
 Budgeted ISO Charges FY 2015
 Table 23 LEC Export Energy Costs
 (Based on ISO net export energy - Table 2)

	Rate \$/MWh	Azusa	BART	Biggs	CDWR	Gridley	Healdsburg	Lodi	Lompoc	MID	Plumas	PWRPA	Santa Clara	Ukiah	Total Export Cost
2014 July	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
August	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sept	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
October	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
November	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
December	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2015 January	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
February	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
March	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
April	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
May	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
June	10.038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FY2015	Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Table 24 LEC GMC Operating Costs

		Azusa	BART	Biggs	CDWR	Gridley	Healdsburg	Lodi	Lompoc	MID	Plumas	PWRPA	Santa Clara	Ukiah	NCPA-SC
		2.7857%	6.6000%	0.2679%	33.5000%	1.9643%	1.6428%	9.5000%	2.0357%	10.7143%	0.7857%	2.6679%	25.7500%	1.7857%	
2014	July	\$ 39,646.89	\$ 1,104	\$ 2,617	\$ 106	\$ 13,282	\$ 779	\$ 651	\$ 3,766	\$ 807	\$ 4,248	\$ 312	\$ 1,058	\$ 10,209	\$ 708
	August	\$ 67,003.95	\$ 1,867	\$ 4,422	\$ 180	\$ 22,446	\$ 1,316	\$ 1,101	\$ 6,365	\$ 1,364	\$ 7,179	\$ 526	\$ 1,788	\$ 17,254	\$ 1,196
	Sept	\$ 52,584.51	\$ 1,465	\$ 3,471	\$ 141	\$ 17,616	\$ 1,033	\$ 864	\$ 4,996	\$ 1,070	\$ 5,634	\$ 413	\$ 1,403	\$ 13,541	\$ 939
	Oct	\$ 64,474.11	\$ 1,796	\$ 4,255	\$ 173	\$ 21,599	\$ 1,266	\$ 1,059	\$ 6,125	\$ 1,312	\$ 6,908	\$ 507	\$ 1,720	\$ 16,602	\$ 1,151
	Nov	\$ 53,699.30	\$ 1,496	\$ 3,544	\$ 144	\$ 17,989	\$ 1,055	\$ 882	\$ 5,101	\$ 1,093	\$ 5,754	\$ 422	\$ 1,433	\$ 13,828	\$ 959
	Dec	\$ 51,237.41	\$ 1,427	\$ 3,382	\$ 137	\$ 17,165	\$ 1,006	\$ 842	\$ 4,868	\$ 1,043	\$ 5,490	\$ 403	\$ 1,367	\$ 13,194	\$ 915
2015	Jan	\$ 51,310.90	\$ 1,429	\$ 3,387	\$ 137	\$ 17,189	\$ 1,008	\$ 843	\$ 4,875	\$ 1,045	\$ 5,498	\$ 403	\$ 1,369	\$ 13,213	\$ 916
	Feb	\$ 35,142.11	\$ 979	\$ 2,319	\$ 94	\$ 11,773	\$ 690	\$ 577	\$ 3,339	\$ 715	\$ 3,765	\$ 276	\$ 938	\$ 9,049	\$ 628
	Mar	\$ 17,900.03	\$ 499	\$ 1,181	\$ 48	\$ 5,997	\$ 352	\$ 294	\$ 1,701	\$ 364	\$ 1,918	\$ 141	\$ 478	\$ 4,609	\$ 320
	April	\$ 22,563.80	\$ 629	\$ 1,489	\$ 60	\$ 7,559	\$ 443	\$ 371	\$ 2,144	\$ 459	\$ 2,418	\$ 177	\$ 602	\$ 5,810	\$ 403
	May	\$ 10,729.61	\$ 299	\$ 708	\$ 29	\$ 3,594	\$ 211	\$ 176	\$ 1,019	\$ 218	\$ 1,150	\$ 84	\$ 286	\$ 2,763	\$ 192
	Jun	\$ 17,588.60	\$ 490	\$ 1,161	\$ 47	\$ 5,892	\$ 345	\$ 289	\$ 1,671	\$ 358	\$ 1,884	\$ 138	\$ 469	\$ 4,529	\$ 314
FY2015		\$ 483,881.21	\$ 13,479	\$ 31,936	\$ 1,296	\$ 162,100	\$ 9,505	\$ 7,949	\$ 45,969	\$ 9,850	\$ 51,844	\$ 3,802	\$ 12,909	\$ 124,599	\$ 8,641

Note: LEC GMC Operating Costs represents sum of total LEC budgeted CAISO costs associated with Systems Operations charge, Market Services charge Bid Segment charge, and Customer Charge.

Table 25 LEC Total Allocated CAISO Costs

		Azusa	BART	Biggs	CDWR	Gridley	Healdsburg	Lodi	Lompoc	MID	Plumas	PWRPA	Santa Clara	Ukiah	Total Amount
2014 July	\$	1,104	\$ 2,617	\$ 106	\$ 13,282	\$ 779	\$ 651	\$ 3,766	\$ 807	\$ 4,248	\$ 312	\$ 1,497	\$ 10,209	\$ 708	\$ 40,086
August	\$	1,867	\$ 4,422	\$ 180	\$ 22,446	\$ 1,316	\$ 1,101	\$ 6,365	\$ 1,364	\$ 7,179	\$ 526	\$ 2,227	\$ 17,254	\$ 1,196	\$ 67,443
Sept	\$	1,465	\$ 3,471	\$ 141	\$ 17,616	\$ 1,033	\$ 864	\$ 4,996	\$ 1,070	\$ 5,634	\$ 413	\$ 1,828	\$ 13,541	\$ 939	\$ 53,009
Oct	\$	1,796	\$ 4,255	\$ 173	\$ 21,599	\$ 1,266	\$ 1,059	\$ 6,125	\$ 1,312	\$ 6,908	\$ 507	\$ 2,159	\$ 16,602	\$ 1,151	\$ 64,913
Nov	\$	1,496	\$ 3,544	\$ 144	\$ 17,989	\$ 1,055	\$ 882	\$ 5,101	\$ 1,093	\$ 5,754	\$ 422	\$ 1,858	\$ 13,828	\$ 959	\$ 54,125
Dec	\$	1,427	\$ 3,382	\$ 137	\$ 17,165	\$ 1,006	\$ 842	\$ 4,868	\$ 1,043	\$ 5,490	\$ 403	\$ 1,806	\$ 13,194	\$ 915	\$ 51,676
2015 Jan	\$	1,429	\$ 3,387	\$ 137	\$ 17,189	\$ 1,008	\$ 843	\$ 4,875	\$ 1,045	\$ 5,498	\$ 403	\$ 1,808	\$ 13,213	\$ 916	\$ 51,750
Feb	\$	979	\$ 2,319	\$ 94	\$ 11,773	\$ 690	\$ 577	\$ 3,339	\$ 715	\$ 3,765	\$ 276	\$ 1,334	\$ 9,049	\$ 628	\$ 35,539
Mar	\$	499	\$ 1,181	\$ 48	\$ 5,997	\$ 352	\$ 294	\$ 1,701	\$ 364	\$ 1,918	\$ 141	\$ 478	\$ 4,609	\$ 320	\$ 18,338
April	\$	629	\$ 1,489	\$ 60	\$ 7,559	\$ 443	\$ 371	\$ 2,144	\$ 459	\$ 2,418	\$ 177	\$ 1,027	\$ 5,810	\$ 403	\$ 22,989
May	\$	299	\$ 708	\$ 29	\$ 3,594	\$ 211	\$ 176	\$ 1,019	\$ 218	\$ 1,150	\$ 84	\$ 275	\$ 2,763	\$ 192	\$ 11,169
Jun	\$	490	\$ 1,161	\$ 47	\$ 5,892	\$ 345	\$ 289	\$ 1,671	\$ 358	\$ 1,884	\$ 138	\$ 469	\$ 4,529	\$ 314	\$ 18,013
FY2015	Total	\$ 13,479	\$ 31,936	\$ 1,296	\$ 162,100	\$ 9,505	\$ 7,949	\$ 45,969	\$ 9,850	\$ 51,844	\$ 3,802	\$ 18,078	\$ 124,599	\$ 8,641	\$ 489,050

Note: Sum of budgeted CAISO SC costs for LEC Project, inter-SC member costs, and member export costs

Table 1 LEC Project Ancillary Services Capacity Revenue Budget

Year	Month	Total Revenue	Azusa 2.7857%	BART 6.6000%	Biggs 0.2679%	CDWR 33.5000%	Gridley 1.9643%	Healdsburg 1.6428%	Lodi 9.5000%	Lompoc 2.0357%	MID 10.7143%	Plumas 0.7857%	PWRPA 2.6679%	Santa Clara 25.7500%	Ukiah 1.7857%	NCPA-SC 100.0000%
2014	July	\$ 158,325	\$ 4,410	\$ 10,449	\$ 424	\$ 53,038	\$ 3,110	\$ 2,601	\$ 15,041	\$ 3,223	\$ 16,963	\$ 1,244	\$ 4,224	\$ 40,769	\$ 2,827	\$ 158,325
	August	\$ 222,775	\$ 6,206	\$ 14,703	\$ 597	\$ 74,630	\$ 4,376	\$ 3,650	\$ 21,164	\$ 4,535	\$ 23,869	\$ 1,750	\$ 5,943	\$ 57,365	\$ 3,978	\$ 222,775
	Sept	\$ 185,758	\$ 5,175	\$ 12,260	\$ 498	\$ 62,229	\$ 3,649	\$ 3,052	\$ 17,647	\$ 3,781	\$ 19,903	\$ 1,459	\$ 4,956	\$ 47,833	\$ 3,317	\$ 185,758
	Oct	\$ 191,165	\$ 5,325	\$ 12,617	\$ 512	\$ 64,040	\$ 3,755	\$ 3,140	\$ 18,161	\$ 3,892	\$ 20,482	\$ 1,502	\$ 5,100	\$ 49,225	\$ 3,414	\$ 191,165
	Nov	\$ 136,996	\$ 3,816	\$ 9,042	\$ 367	\$ 45,894	\$ 2,691	\$ 2,251	\$ 13,015	\$ 2,789	\$ 14,678	\$ 1,076	\$ 3,655	\$ 35,276	\$ 2,446	\$ 136,996
	Dec	\$ 130,866	\$ 3,646	\$ 8,637	\$ 351	\$ 43,840	\$ 2,571	\$ 2,150	\$ 12,432	\$ 2,664	\$ 14,021	\$ 1,028	\$ 3,491	\$ 33,696	\$ 2,337	\$ 130,866
2015	Jan	\$ 125,434	\$ 3,494	\$ 8,279	\$ 336	\$ 42,020	\$ 2,484	\$ 2,061	\$ 11,916	\$ 2,553	\$ 13,439	\$ 986	\$ 3,346	\$ 32,299	\$ 2,240	\$ 125,434
	Feb	\$ 91,245	\$ 2,542	\$ 6,022	\$ 244	\$ 30,567	\$ 1,792	\$ 1,499	\$ 8,668	\$ 1,857	\$ 9,776	\$ 717	\$ 2,434	\$ 23,496	\$ 1,629	\$ 91,245
	Mar	\$ 36,403	\$ 1,014	\$ 2,403	\$ 98	\$ 12,195	\$ 715	\$ 598	\$ 3,458	\$ 741	\$ 3,900	\$ 286	\$ 971	\$ 9,374	\$ 650	\$ 36,403
	April	\$ 52,972	\$ 1,476	\$ 3,498	\$ 142	\$ 17,746	\$ 1,041	\$ 870	\$ 5,032	\$ 1,078	\$ 5,676	\$ 416	\$ 1,413	\$ 13,640	\$ 946	\$ 52,972
	May	\$ 22,778	\$ 635	\$ 1,503	\$ 61	\$ 7,631	\$ 447	\$ 374	\$ 2,164	\$ 464	\$ 2,441	\$ 179	\$ 608	\$ 5,865	\$ 407	\$ 22,778
	Jun	\$ 65,715	\$ 1,831	\$ 4,337	\$ 176	\$ 22,015	\$ 1,291	\$ 1,080	\$ 6,243	\$ 1,338	\$ 7,041	\$ 516	\$ 1,753	\$ 16,922	\$ 1,173	\$ 65,715
	Total	\$ 1,420,431	\$ 39,569	\$ 93,748	\$ 3,805	\$ 475,844	\$ 27,902	\$ 23,335	\$ 134,941	\$ 28,916	\$ 152,188	\$ 11,160	\$ 37,896	\$ 365,761	\$ 25,365	\$ 1,420,431

Table 2 LEC Project ISO Energy Sales Revenue Budget

Year	Month	Total Revenue	Azusa 2.7857%	BART 6.6000%	Biggs 0.2679%	CDWR 33.5000%	Gridley 1.9643%	Healdsburg 1.6428%	Lodi 9.5000%	Lompoc 2.0357%	MID 10.7143%	Plumas 0.7857%	PWRPA 2.6679%	Santa Clara 25.7500%	Ukiah 1.7857%	NCPA-SC 100.0000%
2014	July	\$ 4,360,871	\$ 121,481	\$ 287,818	\$ 11,683	\$ 1,480,892	\$ 85,661	\$ 71,640	\$ 414,283	\$ 88,774	\$ 467,237	\$ 34,263	\$ 116,344	\$ 1,122,924	\$ 77,872	\$ 4,360,871
	August	\$ 8,152,118	\$ 227,094	\$ 538,040	\$ 21,840	\$ 2,730,959	\$ 180,132	\$ 133,923	\$ 774,451	\$ 165,953	\$ 873,442	\$ 64,051	\$ 217,490	\$ 2,099,170	\$ 145,572	\$ 8,152,118
	Sept	\$ 6,007,770	\$ 167,350	\$ 395,513	\$ 16,095	\$ 2,012,603	\$ 118,011	\$ 98,695	\$ 570,738	\$ 122,300	\$ 643,891	\$ 47,203	\$ 160,281	\$ 1,547,001	\$ 107,281	\$ 6,007,770
	Oct	\$ 7,378,039	\$ 205,630	\$ 486,951	\$ 19,766	\$ 2,471,643	\$ 144,927	\$ 121,206	\$ 700,914	\$ 150,195	\$ 790,505	\$ 57,969	\$ 196,839	\$ 1,899,845	\$ 131,760	\$ 7,378,039
	Nov	\$ 5,935,829	\$ 165,354	\$ 391,765	\$ 15,902	\$ 1,988,503	\$ 116,597	\$ 97,514	\$ 563,904	\$ 120,836	\$ 635,983	\$ 46,638	\$ 158,362	\$ 1,528,476	\$ 105,996	\$ 5,935,829
	Dec	\$ 5,825,535	\$ 162,282	\$ 384,485	\$ 15,607	\$ 1,951,554	\$ 114,431	\$ 95,702	\$ 553,426	\$ 118,590	\$ 624,165	\$ 45,771	\$ 155,419	\$ 1,500,075	\$ 104,027	\$ 5,825,535
2015	Jan	\$ 5,815,555	\$ 162,004	\$ 383,827	\$ 15,580	\$ 1,948,211	\$ 114,235	\$ 95,538	\$ 552,478	\$ 118,387	\$ 623,096	\$ 45,693	\$ 155,153	\$ 1,497,505	\$ 103,848	\$ 5,815,555
	Feb	\$ 3,969,602	\$ 110,581	\$ 261,994	\$ 10,635	\$ 1,329,817	\$ 77,975	\$ 65,213	\$ 377,112	\$ 80,809	\$ 425,315	\$ 31,189	\$ 105,905	\$ 1,022,172	\$ 70,885	\$ 3,969,602
	Mar	\$ 1,908,318	\$ 53,160	\$ 125,949	\$ 5,112	\$ 639,287	\$ 37,485	\$ 31,350	\$ 181,290	\$ 38,848	\$ 204,463	\$ 14,894	\$ 50,912	\$ 491,392	\$ 34,077	\$ 1,908,318
	April	\$ 2,369,545	\$ 66,008	\$ 156,390	\$ 6,348	\$ 793,798	\$ 46,545	\$ 38,927	\$ 225,107	\$ 48,237	\$ 253,880	\$ 18,618	\$ 63,217	\$ 610,158	\$ 42,313	\$ 2,369,545
	May	\$ 1,071,189	\$ 29,840	\$ 70,698	\$ 2,870	\$ 358,848	\$ 21,041	\$ 17,597	\$ 101,763	\$ 21,806	\$ 114,770	\$ 8,416	\$ 28,578	\$ 275,831	\$ 19,128	\$ 1,071,189
	Jun	\$ 1,723,220	\$ 48,004	\$ 113,733	\$ 4,617	\$ 577,279	\$ 33,849	\$ 28,309	\$ 163,706	\$ 35,080	\$ 184,631	\$ 13,539	\$ 45,974	\$ 443,729	\$ 30,772	\$ 1,723,220
	Total	\$ 54,517,592	\$ 1,518,697	\$ 3,598,161	\$ 146,053	\$ 18,253,393	\$ 1,070,889	\$ 895,815	\$ 5,179,171	\$ 1,109,815	\$ 5,841,178	\$ 428,345	\$ 1,454,475	\$ 14,038,280	\$ 973,521	\$ 54,517,592

Spinning Reserve
Revenue Budget

Reg Up Capacity
Revenue Budget

Reg Down
Capacity Revenue
Budget

Total A/S Capacity
Revenue Budget
Amount

2014	July	\$ 13,531	\$ 25,559	\$ 119,235	\$ 158,325
	August	\$ 15,080	\$ 24,837	\$ 182,858	\$ 222,775
	Sept	\$ 13,434	\$ 19,704	\$ 152,619	\$ 185,758
	October	\$ 4,200	\$ 377	\$ 186,588	\$ 191,165
	November	\$ 130	\$ -	\$ 136,866	\$ 136,996
	December	\$ -	\$ -	\$ 130,866	\$ 130,866
2015	January	\$ -	\$ -	\$ 125,434	\$ 125,434
	February	\$ 51	\$ -	\$ 91,193	\$ 91,245
	March	\$ 65	\$ -	\$ 36,338	\$ 36,403
	April	\$ 1,158	\$ -	\$ 51,814	\$ 52,972
	May	\$ 943	\$ 181	\$ 21,655	\$ 22,778
	June	\$ 8,345	\$ 15,773	\$ 41,597	\$ 65,715
	Total	\$ 56,938	\$ 86,430	\$ 1,277,062	\$ 1,420,431

LEC Spinning Reserve Capacity Revenue

Year	Month	Spinning Reserve Market Price	Spinning Reserve Capacity in GW	Spinning Reserve Capacity Revenue Budget
2014	7	4.481	3.02	\$ 13,531
	8	4.547	3.32	\$ 15,080
	9	4.430	3.03	\$ 13,434
	10	4.381	0.96	\$ 4,200
	11	4.305	0.03	\$ 130
	12	-	-	\$ -
2015	1	-	-	\$ -
	2	4.308	0.01	\$ 51
	3	4.268	0.02	\$ 65
	4	4.274	0.27	\$ 1,158
	5	4.341	0.22	\$ 943
	6	4.350	1.92	\$ 8,345
	Total		12.79	\$ 56,938

LEC Regulation Up Capacity Revenue

Year	Month	Reg Up Market Price	Regulation Up Capacity in GW	Regulation Up Capacity Revenue Budget
2014	7	12.897	1.98	\$ 25,559
	8	14,290	1.74	\$ 24,837
	9	11.325	1.74	\$ 19,704
	10	9.257	0.04	\$ 377
	11	-	-	\$ -
	12	-	-	\$ -
2015	1	-	-	\$ -
	2	-	-	\$ -
	3	-	-	\$ -
	4	-	-	\$ -
	5	8.804	0.02	\$ 181
	6	9.716	1.62	\$ 15,773
Total			7.14	\$ 86,430

LEC Regulation Down Capacity Revenue

Year	Month	Reg Down Market Price	Regulation Down Capacity in GW	Regulation Down Capacity Revenue Budget
2014	7	3.948	30.20	\$ 119,235
	8	3.938	46.44	\$ 182,858
	9	3.960	38.54	\$ 152,619
	10	3.970	47.00	\$ 186,588
	11	3.974	34.44	\$ 135,866
	12	3.955	33.09	\$ 130,856
2015	1	3.960	31.68	\$ 125,434
	2	3.960	23.03	\$ 91,193
	3	3.985	9.12	\$ 36,338
	4	3.994	12.97	\$ 51,814
	5	3.972	5.45	\$ 21,655
	6	3.978	10.46	\$ 41,597
			322.41	\$ 1,277,062

LEC HLH Energy Revenue

Year	Month	Energy Market Price	Energy GWh	Energy Revenue Budget
2014	7	48.618	75.49	\$ 3,565,171
	8	53.856	106.62	\$ 5,630,655
	9	49.107	96.18	\$ 4,669,685
	10	48.491	114.60	\$ 5,494,878
	11	47.473	91.56	\$ 4,200,598
	12	49.103	97.10	\$ 4,549,872
2015	1	48.637	92.69	\$ 4,292,381
	2	47.660	76.58	\$ 3,498,940
	3	44,260	35.65	\$ 1,544,898
	4	42.082	53.95	\$ 2,270,216
	5	39.811	24.65	\$ 989,291
	6	41.874	32.99	\$ 1,373,933
			898.04	\$ 42,080,516

LEC LLH Energy Revenue

Year	Month	Energy Market Price	Energy GWh	Energy Revenue Budget
2014	7	36.414	21.80	\$ 795,700
	8	41.839	58.72	\$ 2,521,463
	9	39.762	33.67	\$ 1,338,086
	10	41.381	45.82	\$ 1,883,161
	11	41.110	43.31	\$ 1,735,231
	12	42.800	31.53	\$ 1,275,663
2015	1	43.650	36.46	\$ 1,523,173
	2	42.887	11.53	\$ 470,662
	3	37.669	9.77	\$ 363,421
	4	33.190	2.94	\$ 99,329
	5	31.913	2.48	\$ 81,898
	6	32.949	10.48	\$ 349,287
			309.50	\$ 12,437,074

NORTHERN CALIFORNIA POWER AGCY
Shared Facilities - Gas Plants
Comparative Annual Budget Report

	FY 2014 Budget	Proposed FY 2015 Budget	Increase/ (Decrease)
Shared Costs			
Operations	\$166,022	\$76,040	(\$89,982)
Maintenance	107,150	186,335	79,185
Administration	312,123	320,170	8,047
Shared Costs without Labor	\$585,295	\$582,545	(\$2,750)
Summary of Costs by Subprograms per PMOA Schedule 4.00			
Anhydrous Ammonia System (subprog 001)	\$20,000	\$15,000	(\$5,000)
Administration/Warehouse Building (subprog 002)	494,883	510,795	15,912
230 Kv Switchyard Common Equip (subprog 004)	11,725	24,000	12,275
Tooling and Special Equipment (subprog 005)	14,317	4,120	(10,197)
Vehicle Usage (subprog 007)	44,370	28,630	(15,740)
	\$585,295	\$582,545	(\$2,750)
Liquidation to Plants			
CT 1			
Operations	\$23,950	\$9,125	(\$14,825)
Maintenance	28,802	35,032	6,229
Administration	48,285	43,400	(4,884)
	101,037	87,557	(13,480)
CT 2			
Operations	28,239	13,687	(14,552)
Maintenance	16,253	29,724	13,471
Administration	54,182	56,606	2,423
	98,674	100,017	1,342
LEC			
Operations	113,833	53,228	(60,605)
Maintenance	62,094	121,580	59,485
Administration	209,656	220,164	10,508
	385,584	394,971	9,388
	\$585,295	\$582,545	(\$2,750)

NORTHERN CALIFORNIA POWER AGCY
Shared Facilities - Gas Plants
Comparative Annual Budget Report

	FY 2014 Budget	Proposed FY 2015 Budget	Increase/ (Decrease)
Operations Expense			
Plant -			
Safety Supplies & Equipment (subprog 002)	10,815	10,815	0
O2 & NOX Calib Gas (subprog 001)	20,000	0	(20,000)
Communication Services - Intranet (subprog 002)	65,000	45,000	(20,000)
	<u>95,815</u>	<u>55,815</u>	<u>(40,000)</u>
Other Costs -			
Telephone & Dedicated Comm. (subprog 002)	20,225	20,225	0
Telephone-Data CMU Link (subprog 002)	31,545	0	(31,545)
Vehicle & Misc Rental (subprog 007)	8,240	0	(8,240)
Doble Instrument Lease (subprog 005)	10,197	0	(10,197)
	<u>70,207</u>	<u>20,225</u>	<u>(49,982)</u>
	<u>\$166,022</u>	<u>\$76,040</u>	<u>(\$89,982)</u>
Maintenance Expense			
Plant -			
Ammonia System Maintenance (subprog 001)	\$0	\$15,000	\$15,000
Misc. Maint Materials & Supplies (subprog 002)	5,000	40,000	35,000
Tools/Shop/Warehouse Equipment (subprog 002)	25,000	25,000	0
Switchyard (subprog 004)	0	20,000	20,000
Vehicle Fuel/Maintenance (subprog 007)	21,630	21,630	0
	<u>51,630</u>	<u>121,630</u>	<u>70,000</u>
Other Costs -			
HVAC Services (subprog 002)	0	15,000	15,000
CMMS - Maintenance Connection (subprog 004)	7,725	0	(7,725)
Plant Information Services (subprog 002)	44,705	44,705	0
Network Security Testing (subprog 002)	3,090	0	(3,090)
Equipment Rentals (subprog 002)	0	5,000	5,000
	<u>55,520</u>	<u>64,705</u>	<u>9,185</u>
	<u>\$107,150</u>	<u>\$186,335</u>	<u>\$79,185</u>

NORTHERN CALIFORNIA POWER AGCY
Shared Facilities - Gas Plants
Comparative Annual Budget Report

	FY 2014 Budget	Proposed FY 2015 Budget	Increase/ (Decrease)
Administration Expense			
Outside Services -			
Legal Services (subprog 002)	\$0	\$10,000	\$10,000
Janitorial Services (subprog 002)	0	15,000	15,000
	0	25,000	25,000
Other Costs -			
Travel (subprog 002)	53,000	53,000	0
Staff Development (subprog 002)	50,750	50,750	0
Safety Equipment/Program (subprog 002)	25,000	25,000	0
Safety Incentive Program (subprog 002)	2,060	0	(2,060)
Communications Hardware (subprog 005)	4,120	4,120	0
Community Relations (subprog 002)	773	1,000	227
EH&S Safety Committee (subprog 002)	1,030	0	(1,030)
Hdwr/Sfwr Upgrades & Maint (subprog 004)	4,000	4,000	0
Janitorial Supplies & Misc Expenses (subprog 002)	8,090	47,500	39,410
Office Equipment Maintenance (subprog 002)	25,300	25,300	0
Safety Incentive Program (subprog 002)	6,000	2,500	(3,500)
General Office Supplies (subprog 002)	32,500	45,000	12,500
Computer (software,hardware,network,...) (subprog 002)	20,000	15,000	(5,000)
Vehicle Expense (subprog 007)	14,500	7,000	(7,500)
Ground Lease (subprog 002)	45,000	0	(45,000)
Awards/Employee Functions (subprog 002)	5,000	5,000	0
Employee Physicals (subprog 002)	15,000	0	(15,000)
Publications (subprog 002)	0	10,000	10,000
	312,123	295,170	(16,953)
	\$312,123	\$320,170	\$8,047

NORTHERN CALIFORNIA POWER AGENCY
Generation Services - Shared
Comparative Annual Budget Report

	FY 2014 Budget	Proposed FY 2015 Budget	Increase/ (Decrease)
Routine O&M Costs			
Operations	\$ 324,692	\$ 300,000	\$ (24,692)
Administration	140,000	65,000	(75,000)
Routine O&M w/o Labor	464,692	365,000	(99,692)
Labor	1,580,779	1,333,746	(247,033)
Total Routine O&M Costs	2,045,471	1,698,746	(346,725)
Occupancy Cost	104,150	155,833	51,683
Annual Budget Cost	2,149,621	1,854,579	(295,042)
Less Funding			
Generation Services Shared - Liquidation	(2,149,621)	(1,854,579)	295,042
	\$ -	\$ -	\$ -

	Person Years	Allocation
Allocated	FY 15	FY 15 %
Hydro	18.72	21.3%
CT 1	3.29	3.7%
CT 2	3.08	3.5%
LEC	20.71	23.6%
Geo	42.00	47.8%
	87.80	100.0%

Allocation based on FTE person years.

\$ 487,532	\$ 395,418	\$ (92,114)
80,734	69,494	(11,241)
75,786	65,058	(10,728)
510,711	437,453	(73,258)
994,857	887,156	(107,701)
\$ 2,149,621	\$ 1,854,579	\$ (295,042)

Northern California Power Agency
Calculation of JPA Assessment for Fiscal Year 2015 Budget

JPA Assessment Amount \$ / MWh			\$0.150	
Member	CY13 Energy Delivered MWh	Share %	JPA Assessment	Participant Revenue Share
Alameda	379,307	4.6730%	\$56,894	\$4,580
BART	367,855	4.5319%	\$55,177	4,441
Biggs	16,902	0.2082%	2,535	204
Gridley	35,731	0.4402%	5,360	431
Healdsburg	79,172	0.9754%	11,875	956
Lodi	452,608	5.5761%	67,889	5,465
Lompoc	137,420	1.6930%	20,612	1,659
Palo Alto	986,236	12.1503%	147,931	11,907
Plumas Sierra	165,389	2.0376%	24,808	1,997
Port Of Oakland	75,134	0.9256%	11,270	907
Redding	800,623	9.8636%	120,090	9,666
Roseville	1,232,840	15.1885%	184,920	14,885
Santa Clara	3,116,845	38.3992%	467,513	37,631
Truckee Donner	154,271	1.9006%	23,140	1,863
Ukiah	116,616	1.4367%	17,492	1,408
Subtotal NCPA Participants	8,116,951	100.0000%	1,217,506	\$97,999
Other participants:				
TID ¹	819,320		7,780	
Other LEC Participants:				
City of Azusa ²	33,734		5,060	
CDWR ²	405,673		60,851	
MID ²	129,746		19,462	
PWRPA ²	32,307		4,846	
Subtotal Other LEC participants			90,219	
Subtotal Other participants	-		97,999	
Total NCPA and Other			\$1,315,505	

¹ CY2013 MWh share of Geothermal generation (\$0.150 x 6.3305% x 819,320 Mwh)

² Per LEC Project Management and Operations Agreement, Article 6.2.1.b

JPA Cost rate x GES x Annual CY Mwh Generation

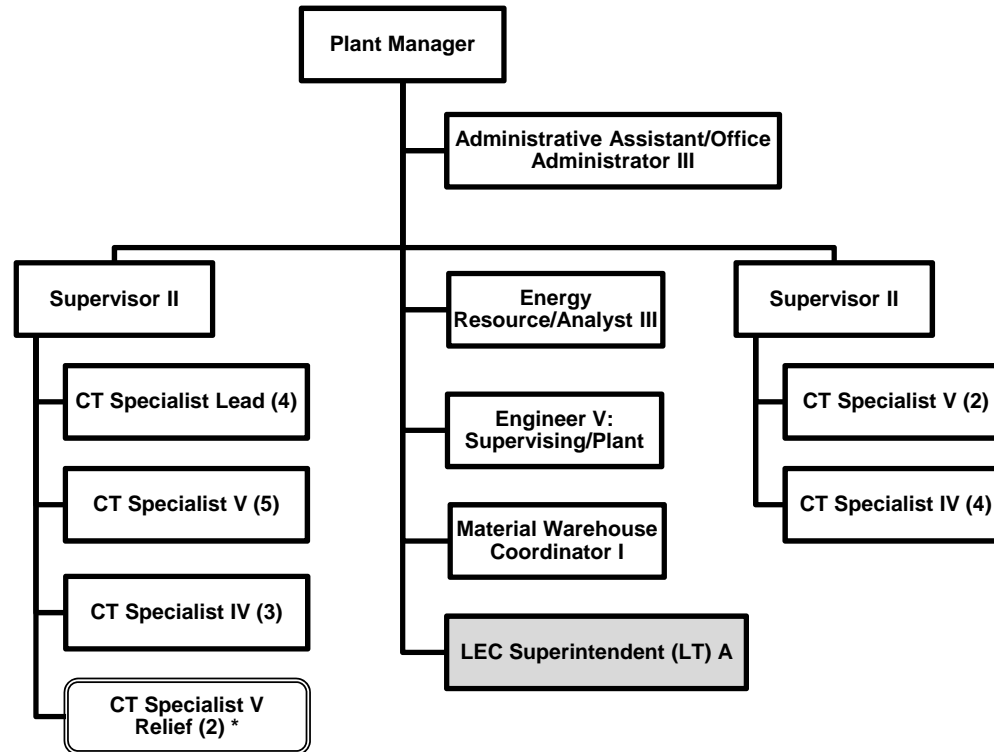
Azusa \$0.150 x 2.7857% x 1,210,965

CDWR \$0.150 x 33.5000% x 1,210,965

MID \$0.150 x 10.7143% x 1,210,965

PWRPA \$0.150 x 2.6679% x 1,210,965

Combustion Turbine Facilities and LEC



* CT Specialist V – Relief (2 positions) budgeted FY 2014-2015.

** (LT)-A Position budgeted limited term for Lodi Energy Center, ½ year FY 2013-2014, not budgeted FY 2014-2015.

Generation Services

Org. 610 - Combustion Turbine and Lodi Energy Center Facilities (CT 1, CT 2 & LEC)

No.	Name	Position	CT 1			CT 2			LEC			TOTAL
			Facility Mgmt & Admin 546-010-000	Operations 548-010-000	Maintenance 553-010-000	Facility Mgmt & Admin 546-006-000	Operations 548-006-000	Maintenance 553-006-000	Facility Mgmt & Admin 546-009-000	Operations 548-009-000	Maintenance 553-009-000	
			610-010-000	610-010-000	610-010-000	610-010-000	610-010-000	610-010-000	610-010-000	610-010-000	610-010-000	
1	DeBortoli, Michael	Manager, Plant	341			341			1,398			2,080
2	Venethongkham, Souriyet	Engineer/Energy Resource III	341			341			1,398			2,080
3	Conrad, Melissa	Administrative Assistant/Office Administrator III	341			341			1,398			2,080
4	Philpot, Melissa	Material/Warehouse Coordinator I	341			341			1,398			2,080
5	Lawson, Jeremy	Engineer V: Supervising/Plant	341			341			1,398			2,080
6	Santana, Rafael	Supervisor II			354			270			1,456	2,080
7	Sexton, Scott	Supervisor II		172			182			1,726		2,080
8	Aistrup, Scott	CT Specialist V		172			182			1,726		2,080
9	Cottrell, Matthew	CT Specialist - Lead		172			182			1,726		2,080
10	Dempsey, Mark W.	CT Specialist V		172			182			1,726		2,080
11	Johnson, Ryan	CT Specialist - Lead		172			182			1,726		2,080
12	Johnson, Tom	CT Specialist IV		172			182			1,726		2,080
13	Murphy, Eric	CT Specialist V		172			182			1,726		2,080
14	Pacheco, Jeffrey	CT Specialist - Lead		172			182			1,726		2,080
15	Phillips, Jaun	CT Specialist IV		172			182			1,726		2,080
16	Quitter, John	CT Specialist V		172			182			1,726		2,080
17	Rusk, Brad	CT Specialist V		172			182			1,726		2,080
18	Stimac, Dennis	CT Specialist IV		172			182			1,726		2,080
19	Wertz, James	CT Specialist - Lead		172			182			1,726		2,080
20	Vacant	CT Specialist V - Relief *		172			182			1,726		2,080
21	Vacant	CT Specialist V - Relief *		172			182			1,726		2,080
22	Gibbon, Jeff	CT Specialist IV			354			270			1,456	2,080
23	Martin, Joshua	CT Specialist IV			354			270			1,456	2,080
24	Oliveros, Felix	CT Specialist IV			354			270			1,456	2,080
25	Peplot, Rick L.	CT Specialist V			354			270			1,456	2,080
26	Ropp, Michael	CT Specialist IV			354			270			1,456	2,080
27	Turner, Dylan	CT Specialist V			354			270			1,456	2,080
28	Vacant	Superintendent, Generation Resources (LT) (LEC) **										-
Total Hours			1,705	2,580	2,478	1,705	2,730	1,890	6,990	25,890	10,192	56,160
Total in Person Years			0.82	1.24	1.19	0.82	1.31	0.91	3.36	12.45	4.90	27.00
Total Budget \$			\$ 163,716	\$ 262,513	\$ 241,602	\$ 163,716	\$ 277,775	\$ 184,273	\$ 671,188	\$ 2,634,286	\$ 993,708	\$ 5,592,778

* CT Specialist V - Relief (2 positions) budgeted FY 2014-2015.

** Position budgeted Limited Term for Lodi Energy Center 1/2 year FY 2013-2014, not budgeted FY 2014-2015.

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B

PERIOD ENDING	Total Issue			ICS-A	100.0%
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	TOTAL PROJECT	
7/1/2014	4,690,833	16,540,220	(4,519,569)	16,711,485	
7/1/2015	4,885,417	16,348,533	(4,519,569)	16,714,381	
7/1/2016	5,131,250	16,104,262	(4,519,569)	16,715,943	
7/1/2017	5,387,083	15,847,700	(4,519,569)	16,715,214	
7/1/2018	5,653,750	15,578,345	(4,519,569)	16,712,527	
7/1/2019	5,939,583	15,295,658	(4,519,569)	16,715,672	
7/1/2020	6,235,833	14,998,679	(4,519,569)	16,714,943	
7/1/2021	6,547,083	14,686,887	(4,519,569)	16,714,402	
7/1/2022	6,873,333	14,359,533	(4,519,569)	16,713,297	
7/1/2023	7,215,000	14,015,866	(4,519,569)	16,711,297	
7/1/2024	7,576,667	13,655,116	(4,519,569)	16,712,214	
7/1/2025	7,959,167	13,276,283	(4,519,569)	16,715,881	
7/1/2026	8,368,333	12,862,273	(4,501,795)	16,728,811	
7/1/2027	8,769,583	12,250,464	(4,287,662)	16,732,385	
7/1/2028	9,186,250	11,609,320	(4,063,262)	16,732,308	
7/1/2029	9,622,917	10,937,713	(3,828,200)	16,732,430	
7/1/2030	10,080,000	10,234,182	(3,581,964)	16,732,218	
7/1/2031	10,561,667	9,497,233	(3,324,031)	16,734,868	
7/1/2032	11,063,750	8,725,069	(3,053,774)	16,735,045	
7/1/2033	11,590,417	7,916,198	(2,770,669)	16,735,946	
7/1/2034	12,137,917	7,068,823	(2,474,088)	16,732,652	
7/1/2035	12,715,000	6,181,420	(2,163,497)	16,732,923	
7/1/2036	13,317,500	5,251,826	(1,838,139)	16,731,187	
7/1/2037	13,950,000	4,278,184	(1,497,364)	16,730,820	
7/1/2038	14,612,917	3,258,299	(1,140,405)	16,730,811	
7/1/2039	15,310,417	2,189,949	(766,482)	16,733,884	
7/1/2040	14,643,750	1,070,605	(374,712)	15,339,643	
	<u>\$250,025,417</u>	<u>\$294,038,641</u>	<u>(\$93,900,871)</u>	<u>\$450,163,186</u>	

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
AZUSA

ICS-A 4.9936%

PERIOD ENDING	Total Issue			TOTAL PROJECT
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	
7/1/2014	234,240	825,948	(225,688)	834,500
7/1/2015	243,957	816,376	(225,688)	834,645
7/1/2016	256,233	804,178	(225,688)	834,723
7/1/2017	269,008	791,367	(225,688)	834,687
7/1/2018	282,324	777,916	(225,688)	834,552
7/1/2019	296,597	763,800	(225,688)	834,709
7/1/2020	311,391	748,970	(225,688)	834,673
7/1/2021	326,933	733,401	(225,688)	834,646
7/1/2022	343,225	717,054	(225,688)	834,591
7/1/2023	360,286	699,893	(225,688)	834,491
7/1/2024	378,346	681,878	(225,688)	834,537
7/1/2025	397,447	662,961	(225,688)	834,720
7/1/2026	417,879	642,287	(224,800)	835,365
7/1/2027	437,916	611,736	(214,108)	835,544
7/1/2028	458,722	579,720	(202,902)	835,540
7/1/2029	480,527	546,183	(191,164)	835,546
7/1/2030	503,352	511,051	(178,868)	835,536
7/1/2031	527,405	474,251	(165,988)	835,668
7/1/2032	552,477	435,693	(152,492)	835,677
7/1/2033	578,776	395,301	(138,355)	835,722
7/1/2034	606,116	352,987	(123,545)	835,557
7/1/2035	634,933	308,674	(108,036)	835,571
7/1/2036	665,019	262,254	(91,789)	835,484
7/1/2037	696,604	213,634	(74,772)	835,466
7/1/2038	729,707	162,706	(56,947)	835,465
7/1/2039	764,537	109,357	(38,275)	835,619
7/1/2040	731,246	53,461	(18,712)	765,996
	<u>\$12,485,203</u>	<u>\$14,683,036</u>	<u>(\$4,689,009)</u>	<u>\$22,479,230</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
BART

ICS-A 11.8310%

PERIOD ENDING	Total Issue			
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	TOTAL PROJECT
7/1/2014	554,972	1,956,872	(534,710)	1,977,134
7/1/2015	577,993	1,934,193	(534,710)	1,977,477
7/1/2016	607,078	1,905,293	(534,710)	1,977,661
7/1/2017	637,345	1,874,940	(534,710)	1,977,575
7/1/2018	668,895	1,843,072	(534,710)	1,977,257
7/1/2019	702,711	1,809,628	(534,710)	1,977,629
7/1/2020	737,761	1,774,492	(534,710)	1,977,543
7/1/2021	774,585	1,737,604	(534,710)	1,977,479
7/1/2022	813,183	1,698,875	(534,710)	1,977,348
7/1/2023	853,606	1,658,216	(534,710)	1,977,112
7/1/2024	896,395	1,615,535	(534,710)	1,977,220
7/1/2025	941,648	1,570,716	(534,710)	1,977,654
7/1/2026	990,057	1,521,734	(532,607)	1,979,184
7/1/2027	1,037,528	1,449,351	(507,273)	1,979,607
7/1/2028	1,086,824	1,373,497	(480,724)	1,979,597
7/1/2029	1,138,486	1,294,040	(452,914)	1,979,612
7/1/2030	1,192,564	1,210,805	(423,782)	1,979,587
7/1/2031	1,249,550	1,123,617	(393,266)	1,979,900
7/1/2032	1,308,951	1,032,262	(361,292)	1,979,921
7/1/2033	1,371,261	936,565	(327,798)	1,980,028
7/1/2034	1,436,036	836,312	(292,709)	1,979,638
7/1/2035	1,504,310	731,323	(255,963)	1,979,670
7/1/2036	1,575,592	621,343	(217,470)	1,979,465
7/1/2037	1,650,423	506,151	(177,153)	1,979,421
7/1/2038	1,728,853	385,489	(134,921)	1,979,420
7/1/2039	1,811,374	259,093	(90,682)	1,979,784
7/1/2040	1,732,500	126,663	(44,332)	1,814,831
	<u>\$29,580,479</u>	<u>\$34,787,679</u>	<u>(\$11,109,402)</u>	<u>\$53,258,757</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
BIGGS

ICS-A

0.4802%

PERIOD ENDING	Total Issue		INTEREST	TOTAL
	PRINCIPAL	INTEREST*	SUBSIDY	PROJECT
7/1/2014	22,527	79,431	(21,704)	80,254
7/1/2015	23,461	78,511	(21,704)	80,268
7/1/2016	24,642	77,338	(21,704)	80,275
7/1/2017	25,870	76,106	(21,704)	80,272
7/1/2018	27,151	74,812	(21,704)	80,259
7/1/2019	28,524	73,454	(21,704)	80,274
7/1/2020	29,946	72,028	(21,704)	80,270
7/1/2021	31,441	70,531	(21,704)	80,268
7/1/2022	33,008	68,959	(21,704)	80,262
7/1/2023	34,649	67,308	(21,704)	80,253
7/1/2024	36,385	65,576	(21,704)	80,257
7/1/2025	38,222	63,757	(21,704)	80,275
7/1/2026	40,187	61,769	(21,619)	80,337
7/1/2027	42,114	58,830	(20,591)	80,354
7/1/2028	44,115	55,752	(19,513)	80,354
7/1/2029	46,212	52,526	(18,384)	80,354
7/1/2030	48,407	49,148	(17,202)	80,353
7/1/2031	50,720	45,609	(15,963)	80,366
7/1/2032	53,132	41,900	(14,665)	80,367
7/1/2033	55,661	38,016	(13,306)	80,371
7/1/2034	58,290	33,947	(11,881)	80,355
7/1/2035	61,061	29,685	(10,390)	80,357
7/1/2036	63,955	25,221	(8,827)	80,348
7/1/2037	66,992	20,545	(7,191)	80,347
7/1/2038	70,176	15,647	(5,477)	80,346
7/1/2039	73,525	10,517	(3,681)	80,361
7/1/2040	70,324	5,141	(1,799)	73,666
	<u>\$1,200,699</u>	<u>\$1,412,064</u>	<u>(\$450,941)</u>	<u>\$2,161,821</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
GRIDLEY

PERIOD ENDING	Total Issue			TOTAL PROJECT
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	
7/1/2014	165,171	582,407	(159,141)	588,437
7/1/2015	172,023	575,657	(159,141)	588,539
7/1/2016	180,679	567,056	(159,141)	588,594
7/1/2017	189,687	558,022	(159,141)	588,568
7/1/2018	199,077	548,537	(159,141)	588,474
7/1/2019	209,142	538,584	(159,141)	588,584
7/1/2020	219,573	528,126	(159,141)	588,559
7/1/2021	230,533	517,148	(159,141)	588,540
7/1/2022	242,021	505,621	(159,141)	588,501
7/1/2023	254,051	493,520	(159,141)	588,430
7/1/2024	266,786	480,818	(159,141)	588,463
7/1/2025	280,254	467,478	(159,141)	588,592
7/1/2026	294,662	452,900	(158,515)	589,047
7/1/2027	308,790	431,358	(150,975)	589,173
7/1/2028	323,462	408,782	(143,074)	589,170
7/1/2029	338,838	385,134	(134,797)	589,175
7/1/2030	354,932	360,361	(126,126)	589,167
7/1/2031	371,892	334,412	(117,044)	589,260
7/1/2032	389,572	307,223	(107,528)	589,267
7/1/2033	408,116	278,741	(97,560)	589,298
7/1/2034	427,395	248,904	(87,116)	589,182
7/1/2035	447,715	217,657	(76,180)	589,192
7/1/2036	468,930	184,925	(64,724)	589,131
7/1/2037	491,201	150,641	(52,724)	589,118
7/1/2038	514,543	114,730	(40,155)	589,118
7/1/2039	539,103	77,111	(26,989)	589,226
7/1/2040	515,629	37,698	(13,194)	540,132
	<u>\$8,803,778</u>	<u>\$10,353,551</u>	<u>(\$3,306,394)</u>	<u>\$15,850,936</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
HEALDSBURG

ICS-A 2.9448%

PERIOD ENDING	Total Issue			
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	TOTAL PROJECT
7/1/2014	138,138	487,083	(133,094)	492,127
7/1/2015	143,868	481,438	(133,094)	492,212
7/1/2016	151,107	474,245	(133,094)	492,258
7/1/2017	158,641	466,690	(133,094)	492,236
7/1/2018	166,494	458,757	(133,094)	492,157
7/1/2019	174,911	450,433	(133,094)	492,250
7/1/2020	183,635	441,687	(133,094)	492,228
7/1/2021	192,801	432,505	(133,094)	492,213
7/1/2022	202,409	422,865	(133,094)	492,180
7/1/2023	212,470	412,745	(133,094)	492,121
7/1/2024	223,121	402,121	(133,094)	492,148
7/1/2025	234,385	390,965	(133,094)	492,256
7/1/2026	246,434	378,773	(132,571)	492,637
7/1/2027	258,250	360,757	(126,265)	492,742
7/1/2028	270,520	341,876	(119,657)	492,740
7/1/2029	283,380	322,098	(112,734)	492,743
7/1/2030	296,840	301,380	(105,483)	492,737
7/1/2031	311,024	279,678	(97,887)	492,815
7/1/2032	325,810	256,939	(89,929)	492,820
7/1/2033	341,319	233,119	(81,592)	492,847
7/1/2034	357,442	208,166	(72,858)	492,750
7/1/2035	374,436	182,033	(63,712)	492,758
7/1/2036	392,179	154,658	(54,130)	492,707
7/1/2037	410,805	125,986	(44,095)	492,696
7/1/2038	430,327	95,952	(33,583)	492,696
7/1/2039	450,867	64,491	(22,572)	492,786
7/1/2040	431,235	31,528	(11,035)	451,728
	<u>\$7,362,850</u>	<u>\$8,658,970</u>	<u>(\$2,765,231)</u>	<u>\$13,256,589</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
LODI

ICS-A 17.0295%

PERIOD ENDING	Total Issue			
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	TOTAL PROJECT
7/1/2014	798,823	2,816,709	(769,658)	2,845,875
7/1/2015	831,960	2,784,066	(769,658)	2,846,368
7/1/2016	873,824	2,742,468	(769,658)	2,846,634
7/1/2017	917,391	2,698,777	(769,658)	2,846,510
7/1/2018	962,803	2,652,907	(769,658)	2,846,052
7/1/2019	1,011,479	2,604,767	(769,658)	2,846,588
7/1/2020	1,061,928	2,554,193	(769,658)	2,846,464
7/1/2021	1,114,933	2,501,097	(769,658)	2,846,371
7/1/2022	1,170,491	2,445,350	(769,658)	2,846,183
7/1/2023	1,228,675	2,386,825	(769,658)	2,845,843
7/1/2024	1,290,265	2,325,392	(769,658)	2,845,999
7/1/2025	1,355,403	2,260,878	(769,658)	2,846,623
7/1/2026	1,425,081	2,190,375	(766,631)	2,848,825
7/1/2027	1,493,412	2,086,187	(730,165)	2,849,434
7/1/2028	1,564,368	1,977,004	(691,951)	2,849,421
7/1/2029	1,638,730	1,862,633	(651,921)	2,849,441
7/1/2030	1,716,569	1,742,825	(609,989)	2,849,405
7/1/2031	1,798,594	1,617,327	(566,064)	2,849,857
7/1/2032	1,884,096	1,485,832	(520,041)	2,849,887
7/1/2033	1,973,785	1,348,085	(471,830)	2,850,040
7/1/2034	2,067,021	1,203,782	(421,324)	2,849,479
7/1/2035	2,165,295	1,052,662	(368,432)	2,849,525
7/1/2036	2,267,898	894,357	(313,025)	2,849,230
7/1/2037	2,375,609	728,551	(254,993)	2,849,167
7/1/2038	2,488,500	554,871	(194,205)	2,849,166
7/1/2039	2,607,280	372,936	(130,528)	2,849,689
7/1/2040	2,493,751	182,318	(63,811)	2,612,257
	<u>\$42,577,963</u>	<u>\$50,073,174</u>	<u>(\$15,990,805)</u>	<u>\$76,660,332</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
LOMPOC

PERIOD ENDING	Total Issue			TOTAL PROJECT
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	
7/1/2014	171,175	603,576	(164,926)	609,826
7/1/2015	178,276	596,581	(164,926)	609,932
7/1/2016	187,247	587,668	(164,926)	609,989
7/1/2017	196,582	578,305	(164,926)	609,962
7/1/2018	206,313	568,476	(164,926)	609,864
7/1/2019	216,744	558,160	(164,926)	609,979
7/1/2020	227,554	547,323	(164,926)	609,952
7/1/2021	238,912	535,946	(164,926)	609,932
7/1/2022	250,818	524,000	(164,926)	609,892
7/1/2023	263,286	511,459	(164,926)	609,819
7/1/2024	276,483	498,295	(164,926)	609,853
7/1/2025	290,441	484,471	(164,926)	609,986
7/1/2026	305,372	469,363	(164,277)	610,458
7/1/2027	320,015	447,037	(156,463)	610,589
7/1/2028	335,219	423,641	(148,274)	610,586
7/1/2029	351,154	399,133	(139,696)	610,590
7/1/2030	367,834	373,460	(130,711)	610,583
7/1/2031	385,410	346,568	(121,299)	610,679
7/1/2032	403,732	318,390	(111,437)	610,686
7/1/2033	422,951	288,873	(101,106)	610,719
7/1/2034	442,930	257,951	(90,283)	610,598
7/1/2035	463,989	225,569	(78,949)	610,608
7/1/2036	485,975	191,647	(67,076)	610,545
7/1/2037	509,055	156,117	(54,641)	610,532
7/1/2038	533,246	118,900	(41,615)	610,531
7/1/2039	558,699	79,914	(27,970)	610,643
7/1/2040	534,371	39,068	(13,674)	559,766
	<u>\$9,123,785</u>	<u>\$10,729,891</u>	<u>(\$3,426,577)</u>	<u>\$16,427,099</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
PLUMAS-SIERRA

ICS-A

1.4084%

PERIOD ENDING	Total Issue			
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	TOTAL PROJECT
7/1/2014	66,067	232,957	(63,655)	235,369
7/1/2015	68,807	230,257	(63,655)	235,410
7/1/2016	72,270	226,817	(63,655)	235,432
7/1/2017	75,873	223,203	(63,655)	235,421
7/1/2018	79,629	219,409	(63,655)	235,383
7/1/2019	83,655	215,428	(63,655)	235,428
7/1/2020	87,827	211,245	(63,655)	235,418
7/1/2021	92,211	206,854	(63,655)	235,410
7/1/2022	96,806	202,243	(63,655)	235,394
7/1/2023	101,618	197,403	(63,655)	235,366
7/1/2024	106,712	192,322	(63,655)	235,379
7/1/2025	112,099	186,987	(63,655)	235,431
7/1/2026	117,862	181,156	(63,404)	235,613
7/1/2027	123,513	172,539	(60,389)	235,663
7/1/2028	129,381	163,509	(57,228)	235,662
7/1/2029	135,532	154,050	(53,917)	235,664
7/1/2030	141,969	144,141	(50,449)	235,661
7/1/2031	148,753	133,761	(46,817)	235,698
7/1/2032	155,825	122,886	(43,010)	235,701
7/1/2033	163,242	111,494	(39,023)	235,713
7/1/2034	170,954	99,559	(34,846)	235,667
7/1/2035	179,081	87,061	(30,471)	235,671
7/1/2036	187,567	73,968	(25,889)	235,646
7/1/2037	196,475	60,255	(21,089)	235,641
7/1/2038	205,812	45,891	(16,062)	235,641
7/1/2039	215,636	30,844	(10,795)	235,684
7/1/2040	206,246	15,079	(5,278)	216,047
	<u>\$3,521,422</u>	<u>\$4,141,315</u>	<u>(\$1,322,524)</u>	<u>\$6,340,213</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
POWER AND WATER RESOURCE

ICS-A

4.7824%

PERIOD ENDING	Total Issue			
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	TOTAL PROJECT
7/1/2014	224,335	791,021	(216,144)	799,211
7/1/2015	233,641	781,854	(216,144)	799,350
7/1/2016	245,397	770,172	(216,144)	799,425
7/1/2017	257,632	757,902	(216,144)	799,390
7/1/2018	270,385	745,020	(216,144)	799,261
7/1/2019	284,055	731,501	(216,144)	799,412
7/1/2020	298,223	717,298	(216,144)	799,377
7/1/2021	313,108	702,387	(216,144)	799,351
7/1/2022	328,711	686,732	(216,144)	799,298
7/1/2023	345,051	670,296	(216,144)	799,202
7/1/2024	362,347	653,043	(216,144)	799,246
7/1/2025	380,640	634,926	(216,144)	799,422
7/1/2026	400,208	615,126	(215,294)	800,040
7/1/2027	419,397	585,867	(205,054)	800,211
7/1/2028	439,324	555,205	(194,322)	800,207
7/1/2029	460,207	523,086	(183,080)	800,213
7/1/2030	482,067	489,440	(171,304)	800,203
7/1/2031	505,102	454,196	(158,969)	800,330
7/1/2032	529,114	417,268	(146,044)	800,338
7/1/2033	554,301	378,585	(132,505)	800,381
7/1/2034	580,485	338,060	(118,321)	800,224
7/1/2035	608,083	295,621	(103,467)	800,237
7/1/2036	636,897	251,164	(87,907)	800,154
7/1/2037	667,146	204,600	(71,610)	800,136
7/1/2038	698,849	155,825	(54,539)	800,136
7/1/2039	732,207	104,732	(36,656)	800,283
7/1/2040	700,324	51,201	(17,920)	733,604
	<u>\$11,957,237</u>	<u>\$14,062,129</u>	<u>(\$4,490,723)</u>	<u>\$21,528,642</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
SANTA CLARA

ICS-A 46.1588%

PERIOD ENDING	Total Issue			
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	TOTAL PROJECT
7/1/2014	2,165,232	7,634,764	(2,086,178)	7,713,818
7/1/2015	2,255,049	7,546,284	(2,086,178)	7,715,155
7/1/2016	2,368,523	7,433,531	(2,086,178)	7,715,876
7/1/2017	2,486,612	7,315,105	(2,086,178)	7,715,539
7/1/2018	2,609,702	7,190,775	(2,086,178)	7,714,299
7/1/2019	2,741,639	7,060,289	(2,086,178)	7,715,751
7/1/2020	2,878,385	6,923,208	(2,086,178)	7,715,414
7/1/2021	3,022,054	6,779,288	(2,086,178)	7,715,164
7/1/2022	3,172,647	6,628,186	(2,086,178)	7,714,655
7/1/2023	3,330,356	6,469,553	(2,086,178)	7,713,731
7/1/2024	3,497,297	6,303,035	(2,086,178)	7,714,155
7/1/2025	3,673,854	6,128,171	(2,086,178)	7,715,847
7/1/2026	3,862,721	5,937,069	(2,077,974)	7,721,815
7/1/2027	4,047,933	5,654,665	(1,979,133)	7,723,465
7/1/2028	4,240,261	5,358,721	(1,875,552)	7,723,430
7/1/2029	4,441,821	5,048,715	(1,767,050)	7,723,486
7/1/2030	4,652,805	4,723,974	(1,653,391)	7,723,388
7/1/2031	4,875,137	4,383,807	(1,534,332)	7,724,611
7/1/2032	5,106,892	4,027,386	(1,409,585)	7,724,693
7/1/2033	5,349,995	3,654,021	(1,278,907)	7,725,109
7/1/2034	5,602,715	3,262,883	(1,142,009)	7,723,588
7/1/2035	5,869,089	2,853,268	(998,644)	7,723,714
7/1/2036	6,147,196	2,424,179	(848,463)	7,722,912
7/1/2037	6,439,150	1,974,758	(691,165)	7,722,743
7/1/2038	6,745,144	1,503,991	(526,397)	7,722,739
7/1/2039	7,067,102	1,010,854	(353,799)	7,724,157
7/1/2040	6,759,377	494,178	(172,962)	7,080,592
	<u>\$115,408,689</u>	<u>\$135,724,657</u>	<u>(\$43,343,499)</u>	<u>\$207,789,847</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE ONE Series A & B
UKIAH

ICS-A 3.2010%

PERIOD ENDING	Total Issue			
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	TOTAL PROJECT
7/1/2014	150,154	529,452	(144,671)	534,935
7/1/2015	156,382	523,316	(144,671)	535,027
7/1/2016	164,251	515,497	(144,671)	535,077
7/1/2017	172,441	507,285	(144,671)	535,054
7/1/2018	180,977	498,663	(144,671)	534,968
7/1/2019	190,126	489,614	(144,671)	535,069
7/1/2020	199,609	480,108	(144,671)	535,045
7/1/2021	209,572	470,127	(144,671)	535,028
7/1/2022	220,015	459,649	(144,671)	534,993
7/1/2023	230,952	448,648	(144,671)	534,929
7/1/2024	242,529	437,100	(144,671)	534,958
7/1/2025	254,773	424,974	(144,671)	535,075
7/1/2026	267,870	411,721	(144,102)	535,489
7/1/2027	280,714	392,137	(137,248)	535,604
7/1/2028	294,052	371,614	(130,065)	535,601
7/1/2029	308,030	350,116	(122,541)	535,605
7/1/2030	322,661	327,596	(114,659)	535,598
7/1/2031	338,079	304,006	(106,402)	535,683
7/1/2032	354,151	279,289	(97,751)	535,689
7/1/2033	371,009	253,397	(88,689)	535,718
7/1/2034	388,535	226,273	(79,196)	535,612
7/1/2035	407,007	197,867	(69,254)	535,621
7/1/2036	426,293	168,111	(58,839)	535,565
7/1/2037	446,539	136,945	(47,931)	535,553
7/1/2038	467,759	104,298	(36,504)	535,553
7/1/2039	490,086	70,100	(24,535)	535,652
7/1/2040	468,746	34,270	(11,995)	491,022
	<u>\$8,003,312</u>	<u>\$9,412,176</u>	<u>(\$3,005,766)</u>	<u>\$14,409,722</u>

NORTHERN CALIFORNIA POWER AGENCY
DEBT SERVICE REQUIREMENTS
LODI ENERGY CENTER - ISSUE TWO Series A & B
CDWR

PERIOD ENDING	Total Issue		ICS-B	100.0000%
	PRINCIPAL	INTEREST*	INTEREST SUBSIDY	TOTAL PROJECT
7/1/2014	3,981,250	7,435,054	(2,171,759)	9,244,545
7/1/2015	4,177,500	7,235,992	(2,171,759)	9,241,733
7/1/2016	4,387,917	7,027,117	(2,171,759)	9,243,274
7/1/2017	4,596,667	6,815,362	(2,171,759)	9,240,270
7/1/2018	4,744,583	6,669,587	(2,171,759)	9,242,412
7/1/2019	4,980,833	6,432,358	(2,171,759)	9,241,433
7/1/2020	5,222,917	6,184,923	(2,164,723)	9,243,117
7/1/2021	5,381,667	5,938,412	(2,078,444)	9,241,634
7/1/2022	5,582,083	5,632,787	(1,971,475)	9,243,395
7/1/2023	5,787,917	5,315,781	(1,860,523)	9,243,174
7/1/2024	6,003,333	4,987,085	(1,745,480)	9,244,938
7/1/2025	6,223,750	4,646,156	(1,626,154)	9,243,751
7/1/2026	6,450,000	4,292,709	(1,502,448)	9,240,261
7/1/2027	6,690,417	3,926,413	(1,374,245)	9,242,585
7/1/2028	6,936,250	3,546,465	(1,241,263)	9,241,452
7/1/2029	7,192,083	3,152,555	(1,103,394)	9,241,244
7/1/2030	7,457,917	2,744,116	(960,441)	9,241,592
7/1/2031	7,733,750	2,320,581	(812,203)	9,242,128
7/1/2032	8,019,583	1,881,382	(658,484)	9,242,481
7/1/2033	8,315,417	1,425,950	(499,082)	9,242,284
7/1/2034	8,621,667	953,717	(333,801)	9,241,582
7/1/2035	8,172,083	464,093	(162,432)	8,473,744
	<u>\$136,659,583</u>	<u>\$99,028,593</u>	<u>(\$33,125,145)</u>	<u>\$202,563,031</u>

Weighted Average Forward Electric Prices For Budget Run FY2015 (v3)

Electric Market Prices - \$/MWh

Load	FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Annual
ON	2015	\$ 47.23	\$ 52.81	\$ 48.55	\$ 47.95	\$ 45.88	\$ 46.86	\$ 46.31	\$ 45.69	\$ 43.34	\$ 42.08	\$ 40.13	\$ 41.65	\$ 45.83
ON	2016	\$ 48.40	\$ 50.56	\$ 48.29	\$ 47.65	\$ 45.25	\$ 46.79	\$ 46.43	\$ 45.70	\$ 43.35	\$ 42.53	\$ 41.93	\$ 43.68	\$ 45.98
ON	2017	\$ 47.90	\$ 50.24	\$ 47.85	\$ 47.60	\$ 45.50	\$ 47.13	\$ 47.59	\$ 46.94	\$ 44.40	\$ 43.07	\$ 42.55	\$ 44.13	\$ 46.32
ON	2018	\$ 51.13	\$ 53.57	\$ 51.04	\$ 48.66	\$ 46.57	\$ 48.58	\$ 49.22	\$ 48.50	\$ 46.01	\$ 44.55	\$ 43.86	\$ 45.63	\$ 48.23
ON	2019	\$ 52.78	\$ 55.32	\$ 52.88	\$ 50.04	\$ 48.11	\$ 50.16	\$ 50.98	\$ 50.32	\$ 47.71	\$ 46.31	\$ 45.61	\$ 47.46	\$ 49.91
ON	2020	\$ 55.13	\$ 57.70	\$ 55.22	\$ 52.29	\$ 50.23	\$ 52.45	\$ 52.87	\$ 52.23	\$ 49.48	\$ 48.03	\$ 47.42	\$ 49.34	\$ 52.00
ON	2021	\$ 57.22	\$ 60.07	\$ 57.43	\$ 54.43	\$ 51.82	\$ 52.86	\$ 54.81	\$ 54.11	\$ 51.28	\$ 49.25	\$ 49.50	\$ 51.54	\$ 53.82
ON	2022	\$ 60.12	\$ 63.14	\$ 60.42	\$ 55.79	\$ 53.24	\$ 54.52	\$ 56.78	\$ 56.08	\$ 53.14	\$ 50.50	\$ 51.66	\$ 53.80	\$ 55.91
ON	2023	\$ 63.16	\$ 66.44	\$ 63.54	\$ 57.22	\$ 54.70	\$ 56.38	\$ 58.85	\$ 58.13	\$ 55.07	\$ 51.75	\$ 53.90	\$ 56.14	\$ 58.13
ON	2024	\$ 66.43	\$ 69.79	\$ 66.85	\$ 58.65	\$ 56.21	\$ 58.21	\$ 61.01	\$ 60.26	\$ 57.12	\$ 53.09	\$ 56.22	\$ 58.69	\$ 60.43
OFF	2015	\$ 36.50	\$ 42.22	\$ 39.74	\$ 41.10	\$ 40.07	\$ 40.46	\$ 41.78	\$ 40.81	\$ 37.19	\$ 33.82	\$ 33.09	\$ 33.32	\$ 38.41
OFF	2016	\$ 37.35	\$ 40.84	\$ 40.35	\$ 40.83	\$ 39.76	\$ 41.26	\$ 42.33	\$ 41.41	\$ 37.63	\$ 36.66	\$ 34.53	\$ 30.88	\$ 38.73
OFF	2017	\$ 37.46	\$ 41.03	\$ 40.52	\$ 41.26	\$ 40.41	\$ 42.06	\$ 44.19	\$ 43.16	\$ 39.17	\$ 37.95	\$ 35.88	\$ 31.94	\$ 39.64
OFF	2018	\$ 38.95	\$ 42.57	\$ 42.12	\$ 42.94	\$ 42.09	\$ 44.04	\$ 46.06	\$ 45.08	\$ 40.79	\$ 39.52	\$ 37.10	\$ 32.56	\$ 41.21
OFF	2019	\$ 40.43	\$ 44.18	\$ 43.76	\$ 44.67	\$ 43.78	\$ 45.96	\$ 48.05	\$ 47.01	\$ 42.65	\$ 41.39	\$ 38.91	\$ 34.17	\$ 42.92
OFF	2020	\$ 42.42	\$ 46.39	\$ 46.03	\$ 47.07	\$ 46.16	\$ 48.41	\$ 49.82	\$ 48.82	\$ 44.23	\$ 42.91	\$ 40.43	\$ 35.40	\$ 44.90
OFF	2021	\$ 44.00	\$ 48.36	\$ 47.88	\$ 48.42	\$ 47.41	\$ 48.61	\$ 51.78	\$ 50.61	\$ 45.91	\$ 44.61	\$ 41.73	\$ 36.50	\$ 46.40
OFF	2022	\$ 45.67	\$ 50.24	\$ 49.74	\$ 50.25	\$ 49.27	\$ 50.78	\$ 53.84	\$ 52.52	\$ 47.65	\$ 46.37	\$ 43.04	\$ 37.63	\$ 48.17
OFF	2023	\$ 47.45	\$ 52.14	\$ 51.67	\$ 52.15	\$ 51.23	\$ 53.03	\$ 55.98	\$ 54.49	\$ 49.44	\$ 48.19	\$ 44.38	\$ 38.79	\$ 50.00
OFF	2024	\$ 49.29	\$ 54.15	\$ 53.67	\$ 54.12	\$ 53.27	\$ 55.38	\$ 58.21	\$ 56.59	\$ 51.30	\$ 50.13	\$ 45.76	\$ 40.05	\$ 51.85

Simple Average Forward Gas Prices For Budget Run FY2015

Natural Gas Prices (\$/MMBtu at PG&E CG)

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Annual
2015	\$ 4.30	\$ 4.33	\$ 4.31	\$ 4.33	\$ 4.39	\$ 4.47	\$ 4.49	\$ 4.48	\$ 4.42	\$ 4.23	\$ 4.23	\$ 4.25	\$ 4.35
2016	\$ 4.27	\$ 4.28	\$ 4.27	\$ 4.29	\$ 4.34	\$ 4.46	\$ 4.55	\$ 4.53	\$ 4.47	\$ 4.18	\$ 4.18	\$ 4.21	\$ 4.34
2017	\$ 4.23	\$ 4.24	\$ 4.24	\$ 4.26	\$ 4.39	\$ 4.53	\$ 4.61	\$ 4.59	\$ 4.52	\$ 4.26	\$ 4.27	\$ 4.29	\$ 4.37
2018	\$ 4.32	\$ 4.34	\$ 4.34	\$ 4.36	\$ 4.47	\$ 4.65	\$ 4.73	\$ 4.71	\$ 4.64	\$ 4.36	\$ 4.37	\$ 4.39	\$ 4.47
2019	\$ 4.42	\$ 4.44	\$ 4.44	\$ 4.47	\$ 4.59	\$ 4.77	\$ 4.86	\$ 4.84	\$ 4.77	\$ 4.53	\$ 4.55	\$ 4.57	\$ 4.60
2020	\$ 4.61	\$ 4.63	\$ 4.80	\$ 4.84	\$ 4.95	\$ 5.16	\$ 5.28	\$ 5.26	\$ 5.19	\$ 4.94	\$ 4.96	\$ 5.00	\$ 4.97
2021	\$ 5.04	\$ 5.06	\$ 5.04	\$ 5.03	\$ 5.09	\$ 5.15	\$ 5.47	\$ 5.45	\$ 5.37	\$ 5.10	\$ 5.12	\$ 5.15	\$ 5.17
2022	\$ 5.20	\$ 5.23	\$ 5.20	\$ 5.20	\$ 5.27	\$ 5.34	\$ 5.66	\$ 5.64	\$ 5.56	\$ 5.26	\$ 5.28	\$ 5.32	\$ 5.35
2023	\$ 5.37	\$ 5.40	\$ 5.38	\$ 5.38	\$ 5.47	\$ 5.55	\$ 5.87	\$ 5.84	\$ 5.75	\$ 5.42	\$ 5.45	\$ 5.49	\$ 5.53
2024	\$ 5.54	\$ 5.58	\$ 5.55	\$ 5.56	\$ 5.67	\$ 5.76	\$ 6.08	\$ 6.05	\$ 5.96	\$ 5.59	\$ 5.62	\$ 5.66	\$ 5.72

Northern California Power Agency
Capacity Factor and Generation - GWh
Ten Years - FY2015 to FY2024

TOTAL PROJECT ANNUAL CAPACITY FACTOR BY RESOURCE 3%

Annual Capacity Factor - FY												
Type	Resource Name	Installed Capacity (MW*)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Hydro	Collierville	246.9	18.5%	19.8%	19.8%	19.8%	19.8%	19.8%	19.8%	19.8%	19.8%	19.8%
	NSM	6.1	28.9%	33.4%	33.5%	33.5%	33.5%	33.5%	33.5%	33.5%	33.5%	33.4%
Geothermal	Geo	NA **										
Gas	CT1_AL1	23.8										
	CT1_AL2	25.4										
	CT1_LD	25.3										
	STIG	49.9	0.8%	0.6%	0.2%	0.2%	0.5%	0.5%	0.2%	0.4%	0.7%	1.1%
	LEC	280	44.9%	40.4%	33.2%	29.5%	24.4%	22.2%	23.5%	23.9%	23.7%	23.6%
WAPA	Western BR	1895.0	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%
Member Contracts	AL-PA_High Winds	30	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
	PA_Shiloh Wind	25	34%	34%	34%	34%	34%	34%	34%	8%		
	AL_Richmond_LFG	2.5	90%	90%	90%	90%	90%	15%				
	AL_Butte_LFG		88%	88%	88%	88%	88%	88%	88%	88%	88%	88%
	AL-PA_OxMtn_LFG	10.6	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	AL-PA_KellerCanyon_LFG	3.8	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
	AL-PA_SantaCruz_LFG	3.0	86%	86%	86%	86%	86%	86%	86%	86%	86%	86%
	PA_JohnsonCyn_LFG	1.4	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%
	PA_San_Joaquin_LFG	4.1	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%
	PA-Brannon Solar	20.0	24%	27%	27%	26%	26%	26%	26%	26%	25%	25%
	PA-Blue Sky Solar 20 MW	20.0			13%	25%	25%	25%	25%	25%	24%	24%
	PA-Elevation Solar 40 MW	40.0			7%	13%	13%	13%	13%	13%	13%	13%
	PA-Frontier Solar 20 MW	20.0			13%	25%	25%	25%	25%	25%	24%	24%
	PO EBMUD 1MW 2012-17	1.0	100%	100%	100%	33%						
	PS_HighSierra1	3.3	96%	96%	97%	97%	98%	97%	97%	97%	97%	98%
	PS_HighSierra2	3.3	83%	84%	85%	87%	88%	87%	86%	86%	87%	88%
	UK_Mendo	3.5	39%	39%	39%	39%	39%	39%	39%	39%	39%	39%
NCPA Contracts	Graeagle	0.44	52%	52%	52%	52%	52%	52%	52%	52%	52%	52%
	SCL_Supply	58.3	20%	20%	20%	17%						
	GR PV Main	1.0	21%	21%	21%	21%	21%	21%	21%	20%	20%	20%
	BART PV	2.5	21%	21%	21%	21%	21%	21%	21%	20%	20%	20%

* Pmax, if available, for certain units from NCPA MARS system - 2010-01-06.

** Geo Capacity varies base on both normal steam decline as well as maximum steam draw. Units are normally run baseload.

Generation - GWh											
Type	Resource Name	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Hydro	Collierville	459,018	493,616	493,616	493,616	493,616	493,616	493,616	493,616	493,617	493,616
	NSM	19,518	22,602	22,602	22,602	22,602	22,602	22,602	22,602	22,602	22,602
Geothermal	Geo	830,160	853,106	828,072	804,062	778,814	754,200	740,095	737,657	715,373	702,720
Gas	CT1_AL1	-	-	-	-	-	-	-	-	-	-
	CT1_AL2	-	-	-	-	-	-	-	-	-	-
	CT1_LD	-	-	-	-	-	-	-	-	-	-
	STIG	4,139	3,155	0,850	0,818	2,773	2,401	0,833	1,918	3,767	5,584
	LEC	1,207,543	1,093,800	899,661	795,996	662,692	603,207	637,248	648,528	644,111	641,141
	Western BR	2,479.5	3,056.0	3,340.0	3,340.0	3,340.0	3,340.0	3,340.0	3,340.0	3,339.9	3,339.9
WAPA	AL-PA_High Winds	87,055	87,169	87,055	87,055	87,055	87,169	87,055	87,055	87,055	87,169
	PA_Shiloh Wind	75,277	75,372	75,277	75,277	75,277	75,372	75,277	11,724	-	-
Member Contracts	AL_Richmond_LFG	19,710	19,764	19,710	19,710	19,710	3,348	-	-	-	-
	AL_Butte_LFG	16,644	16,690	16,644	16,644	16,644	16,690	16,644	16,644	16,644	16,690
	AL-PA_OxMtn_LFG	93,031	93,286	93,031	93,031	93,031	93,286	93,031	93,031	93,031	93,286
	AL-PA_KellerCanyon_LFG	28,032	28,109	28,032	28,032	28,032	28,109	28,032	28,032	28,032	28,109
	AL-PA_SantaCruz_LFG	22,776	22,838	22,776	22,776	22,776	22,838	22,776	22,776	22,776	22,838
	PA_JohnsonCyn_LFG	11,414	11,446	11,414	11,414	11,414	11,446	11,414	11,414	11,414	11,446
	PA_San_Joaquin_LFG	35,627	35,725	35,627	35,627	35,627	35,725	35,627	35,627	35,627	35,725
	PA-Brannon Solar	44,425	50,403	50,050	49,699	49,351	49,006	48,663	48,322	47,984	47,909
	PA-Blue Sky Solar 20 MW	-	-	24,349	47,559	47,256	46,955	46,655	46,354	46,056	45,759
	PA-Elevation Solar 40 MW	-	-	25,695	49,664	49,324	48,988	48,653	48,321	47,984	47,648
	PA-Frontier Solar 20 MW	-	-	24,349	47,559	47,256	46,955	46,655	46,354	46,056	45,759
	PO EBMUD 1MW 2012-17	8,760	8,784	8,760	2,952	-	-	-	-	-	-
	PS_HighSierra1	28,076	28,433	28,507	28,584	28,666	28,640	28,534	28,599	28,633	28,693
	PS_HighSierra2	24,541	25,069	25,084	25,747	25,949	25,739	25,314	25,542	25,773	25,996
	UK_Mendo	12,093	12,118	12,093	12,093	12,093	12,118	12,093	12,093	12,093	12,118
	NCPA Contracts	Graeagle	2,004	2,010	2,004	2,004	2,004	2,010	2,004	2,004	2,010
	SCL_Supply	87,936	87,936	87,936	66,966	-	-	-	-	-	-
	GR PV Main	1,995	1,989	1,976	1,966	1,956	1,949	1,936	1,926	1,917	1,915
	BART PV	4,987	4,972	4,940	4,915	4,890	4,873	4,840	4,816	4,792	4,788

Northern California Power Agency
Gas Plant Generation GHG Estimate
Ten Years - FY2015 to FY2024

LEC forecasted Generation - Expected Energy in MWh per Fiscal Year per Participant

FY	Biggs	Gridley	Healds	Lodi	Lompoc	Plumas	Ukiah	BART	SVP	Azusa	CDWR	MID	PWRPA	Total
2015	3,235	23,720	19,838	114,717	24,582	9,488	21,583	79,698	310,942	33,639	404,527	129,380	32,216	1,207,543
2016	2,930	21,486	17,969	103,911	22,266	8,594	19,532	72,191	281,653	30,470	366,423	117,193	29,181	1,093,800
2017	2,410	17,672	14,780	85,468	18,314	7,089	16,065	59,378	231,663	25,062	301,386	96,392	24,002	899,661
2018	2,132	15,536	13,077	75,620	16,204	6,254	14,214	52,536	204,969	22,174	266,659	85,285	21,236	795,996
2019	1,776	13,017	10,887	62,956	13,480	5,207	11,834	43,738	170,643	18,461	222,002	71,003	17,680	662,692
2020	1,616	11,649	9,909	57,305	12,279	4,739	10,771	39,812	155,326	16,804	202,074	64,629	16,093	603,207
2021	1,707	12,517	10,469	60,539	12,972	5,007	11,379	42,059	164,091	17,752	213,478	66,277	17,001	637,248
2022	1,737	12,739	10,654	61,610	13,202	5,095	11,581	42,803	166,996	18,066	217,257	69,485	17,302	648,528
2023	1,726	12,652	10,581	61,191	13,112	5,051	11,502	42,511	165,859	17,943	215,777	69,012	17,164	644,111
2024	1,718	12,694	10,533	60,908	13,062	5,037	11,449	42,316	165,094	17,860	214,782	68,694	17,105	641,141

GHG Estimated Obligations - Allowances (MTs) 0.371

FY	Biggs	Gridley	Healdsburg	Lodi	Lompoc	Plumas	Ukiah	BART	SVP	Azusa	CDWR	MID	PWRPA	Total
2015	1,200	8,800	7,360	42,560	9,120	3,520	8,000	29,568	115,360	12,480	150,079	48,000	11,952	447,998
2016	1,087	7,971	6,666	38,551	8,261	3,188	7,246	26,783	104,493	11,304	135,943	43,479	10,826	401,800
2017	894	6,556	5,483	31,709	6,795	2,622	5,960	22,029	85,947	9,298	111,814	35,762	8,905	333,774
2018	791	5,801	4,851	28,055	6,012	2,320	5,273	19,491	76,044	8,227	98,930	31,641	7,879	295,315
2019	659	4,829	4,039	23,357	5,005	1,932	4,390	16,227	63,309	6,849	82,363	26,342	6,559	245,859
2020	600	4,396	3,676	21,260	4,556	1,758	3,996	14,770	57,626	6,234	74,970	23,977	5,970	223,790
2021	633	4,644	3,884	22,460	4,813	1,858	4,222	15,604	60,878	6,586	79,200	25,331	6,307	236,419
2022	645	4,726	3,953	22,857	4,898	1,890	4,296	15,880	61,956	6,703	80,602	25,779	6,419	240,604
2023	640	4,694	3,926	22,702	4,865	1,878	4,267	15,772	61,534	6,657	80,053	25,603	6,375	238,965
2024	637	4,672	3,908	22,597	4,842	1,869	4,248	15,699	61,250	6,626	79,684	25,485	6,346	237,863

GHG Allowances - Allocated or Purchased

FY	Biggs	Gridley	Healdsburg	Lodi	Lompoc	Plumas	Ukiah	BART	SVP	Azusa	CDWR	MID	PWRPA	Total
2015	-	-	-	-	4,000	-	-	-	-	-	-	-	-	4,000
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Net Short/(Long) GHG Allowances by Member

FY	Biggs	Gridley	Healds.	Lodi	Lompoc	Plumas	Ukiah	BART	SVP	Azusa	CDWR	MID	PWRPA	Total
2015	1,200	8,800	7,360	42,560	9,120	3,520	8,000	29,568	115,360	12,480	150,079	48,000	11,952	447,998
2016	1,087	7,971	6,666	38,551	8,261	3,188	7,246	26,783	104,493	11,304	135,943	43,479	10,826	401,800
2017	894	6,556	5,483	31,709	6,795	2,622	5,960	22,029	85,947	9,298	111,814	35,762	8,905	333,774
2018	791	5,801	4,851	28,055	6,012	2,320	5,273	19,491	76,044	8,227	98,930	31,641	7,879	295,315
2019	659	4,829	4,039	23,357	5,005	1,932	4,390	16,227	63,309	6,849	82,363	26,342	6,559	245,859
2020	600	4,396	3,676	21,260	4,556	1,758	3,996	14,770	57,626	6,234	74,970	23,977	5,970	223,790
2021	633	4,644	3,884	22,460	4,813	1,858	4,222	15,604	60,878	6,586	79,200	25,331	6,307	236,419
2022	645	4,726	3,953	22,857	4,898	1,890	4,296	15,880	61,956	6,703	80,602	25,779	6,419	240,604
2023	640	4,694	3,926	22,702	4,865	1,878	4,267	15,772	61,534	6,657	80,053	25,603	6,375	238,965
2024	637	4,672	3,908	22,597	4,842	1,869	4,248	15,699	61,250	6,626	79,684	25,485	6,346	237,863

ESTIMATED COST OF GHG OBLIGATIONS - LEC (by Fiscal Year - in \$)

FY	BIG	GRI	HEA	LOD	LOM	PLU	UKI	BART	SVP	Azusa	CDWR	MID	PWRPA	Total
2015	\$ 14,697	\$ 107,704	\$ 90,126	\$ 521,184	\$ 111,681	\$ 43,105	\$ 97,968	\$ 362,086	\$ 1,412,682	\$ 152,828	\$ 1,837,859	\$ 587,802	\$ 146,365	\$ 5,486,145
2016	\$ 15,094	\$ 110,673	\$ 92,559	\$ 535,253	\$ 114,696	\$ 44,268	\$ 100,811	\$ 371,860	\$ 1,450,816	\$ 156,953	\$ 1,887,470	\$ 603,669	\$ 150,316	\$ 5,634,238
2017	\$ 14,548	\$ 106,670	\$ 89,211	\$ 515,800	\$ 110,547	\$ 42,867	\$ 96,971	\$ 358,408	\$ 1,398,333	\$ 151,275	\$ 1,819,191	\$ 581,831	\$ 144,878	\$ 5,430,420
2018	\$ 16,530	\$ 121,200	\$ 101,363	\$ 586,164	\$ 125,606	\$ 48,478	\$ 110,180	\$ 407,230	\$ 1,588,814	\$ 171,882	\$ 2,067,001	\$ 681,089	\$ 164,513	\$ 6,170,162
2019	\$ 20,044	\$ 146,970	\$ 122,915	\$ 710,795	\$ 152,312	\$ 58,786	\$ 133,607	\$ 493,815	\$ 1,926,628	\$ 208,427	\$ 2,506,486	\$ 801,649	\$ 198,814	\$ 7,482,049
2020	\$ 22,982	\$ 168,512	\$ 140,931	\$ 814,977	\$ 174,637	\$ 67,403	\$ 153,190	\$ 566,195	\$ 2,209,017	\$ 238,977	\$ 2,873,867	\$ 919,149	\$ 228,871	\$ 8,578,708
2021	\$ 26,126	\$ 191,564	\$ 160,211	\$ 928,468	\$ 198,527	\$ 75,624	\$ 174,147	\$ 643,651	\$ 2,511,215	\$ 271,670	\$ 3,267,017	\$ 1,044,890	\$ 260,161	\$ 9,752,290
2022	\$ 27,395	\$ 200,863	\$ 167,987	\$ 971,438	\$ 208,164	\$ 80,343	\$ 182,600	\$ 674,894	\$ 2,633,109	\$ 284,856	\$ 3,425,598	\$ 1,095,608	\$ 272,811	\$ 10,225,965
2023	\$ 28,008	\$ 205,382	\$ 171,750	\$ 993,199	\$ 212,827	\$ 82,143	\$ 186,690	\$ 690,012	\$ 2,692,092	\$ 291,237	\$ 3,502,334	\$ 1,120,151	\$ 276,922	\$ 10,454,727
2024	\$ 28,676	\$ 210,256	\$ 175,843	\$ 1,016,865	\$ 217,898	\$ 84,100	\$ 191,138	\$ 706,454	\$ 2,756,239	\$ 298,177	\$ 3,585,787	\$ 1,146,842	\$ 285,568	\$ 10,703,842

STIG forecasted Generation - MWh

FY	Alameda	Lodi	Lompoc	Roseville	Total
2015	786	1,635	-	1,718	4,139
2016	600	1,246	-	1,309	3,155
2017	162	336	-	353	850
2018	155	323	-	339	818
2019	527	1,095	-	1,151	2,773
2020	456	946	-	996	2,401
2021	158	329	-	346	833
2022	364	758	-	796	1,918
2023	716	1,488	-	1,563	3,767
2024	1,061	2,206	-	2,318	5,584

GHG Estimated Obligations (<25,000 mT/plant -> no obligation) 0.478

FY	Alameda	Lodi	Lompoc	Roseville	Total
2015	376	781	-	820	1,977
2016	286	595	-	625	1,507
2017	77	160	-	169	406
2018	74	154	-	162	391
2019	252	523	-	550	1,324
2020	218	453	-	476	1,147
2021	76	157	-	165	398
2022	174	362	-	380	916
2023	342	711	-	747	1,799
2024	507	1,054	-	1,107	2,667

GHG Allowances - Allocated or Purchased

FY	Alameda	Lodi	Lompoc	Roseville	Total
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	-	-	-	-
2023	-	-	-	-	-
2024	-	-	-	-	-

Net Short/(Long) GHG Allowances by Member

FY	Alameda	Lodi	Lompoc	Roseville	Total
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	-	-	-	-
2023	-	-	-	-	-
2024	-	-	-	-	-

	CY	CCA	FY (est.)	CCA
2014	\$ 11.67		2015	\$ 12.25
2015	\$ 12.82		2016	\$ 13.88
2016	\$ 14.95		2017	\$ 16.27
2017	\$ 17.59		2018	\$ 20.89
2018	\$ 24.20		2019	\$ 30.43
2019	\$ 36.67		2020	\$ 38.33
2020	\$ 40.00		2021	\$ 41.25
2021	\$ 42.50		2022	\$ 42.50
2022	\$ 42.50		2023	\$ 43.75
2023	\$ 45.00		2024	\$ 45.00
2024	\$ 45.00			

LEC GAS OFFTAKE & COSTS - TOTAL PLANT OFFTAKE

FY	7	8	9	10	11	12	1	2	3	4	5	6	Total
2015	666,404	1,139,450	889,500	1,098,843	923,799	881,074	884,643	603,574	311,113	389,676	185,821	297,772	8,271,670
2016	721,481	1,014,506	844,208	884,246	822,824	860,065	643,681	385,600	243,887	465,581	260,598	345,852	7,492,529
2017	532,769	976,913	654,011	784,976	634,248	807,958	657,552	301,290	217,693	164,907	193,697	236,662	6,162,676
2018	543,635	988,140	747,493	795,518	508,284	695,898	469,348	298,866	93,804	25,064	116,393	170,132	5,452,574
2019	456,662	705,292	584,312	615,575	385,778	485,761	491,171	339,815	122,087	72,925	112,273	167,810	4,539,440
2020	535,793	737,560	508,544	538,807	334,025	439,297	435,337	339,302	-	18,084	73,321	171,895	4,131,965
2021	475,066	735,169	644,174	628,624	382,560	520,129	400,662	291,673	20,345	-	90,208	176,541	4,365,152
2022	550,054	749,239	726,267	580,659	361,888	464,272	403,142	283,557	20,345	-	103,726	199,288	4,442,417
2023	558,028	763,398	752,438	527,370	315,400	470,630	385,632	298,192	-	-	134,592	206,480	4,412,161
2024	582,818	813,527	752,486	463,030	290,571	474,179	398,161	275,471	-	-	127,909	213,660	4,391,813
TOTAL	5,622,711	8,623,193	7,103,432	6,917,648	4,959,358	6,099,265	5,169,329	3,417,341	1,029,254	1,136,237	1,398,537	2,186,091	53,662,396

COST

FY	7	8	9	10	11	12	1	2	3	4	5	6	Total
2015	\$ 3,284,002	\$ 5,608,327	\$ 4,400,498	\$ 5,406,628	\$ 4,607,344	\$ 4,492,161	\$ 4,508,496	\$ 3,067,041	\$ 1,565,598	\$ 1,883,879	\$ 897,832	\$ 1,445,322	\$ 41,167,130
2016	3,534,921	4,946,671	4,148,845	4,318,477	4,065,526	4,379,645	3,329,117	1,977,039	1,236,179	2,223,750	1,249,963	1,664,437	37,074,570
2017	2,597,171	4,725,926	3,192,312	3,815,864	3,162,494	4,172,808	3,448,797	1,564,286	1,115,526	803,413	944,704	1,159,592	30,702,894
2018	2,702,263	4,873,645	3,718,635	3,951,848	2,580,046	3,687,749	2,506,537	1,587,231	491,351	124,751	578,779	850,288	27,653,123
2019	2,316,398	3,548,327	2,976,202	3,116,657	2,003,890	2,631,959	2,689,951	1,850,617	657,213	374,493	578,137	870,345	23,614,191
2020	2,809,835	3,852,096	2,783,770	2,930,160	1,855,837	2,558,466	2,568,191	1,989,916	-	100,484	409,011	964,934	22,822,699
2021	2,700,870	4,170,036	3,667,128	3,538,166	2,181,934	3,010,740	2,445,321	1,766,923	121,696	-	518,235	1,019,630	25,140,681
2022	3,218,949	4,379,148	4,259,747	3,374,401	2,130,490	2,782,262	2,541,561	1,773,346	125,598	-	613,447	1,184,216	26,383,166
2023	3,370,201	4,590,028	4,546,373	3,159,286	1,918,879	2,920,479	2,515,358	1,925,414	-	-	817,591	1,262,261	27,025,871
2024	3,625,645	5,037,459	4,680,518	2,861,608	1,827,244	3,053,515	2,669,949	1,836,241	-	-	798,508	1,345,056	27,735,744
TOTAL	\$ 30,160,255	\$ 45,731,665	\$ 38,374,029	\$ 36,473,097	\$ 26,333,685	\$ 33,689,785	\$ 29,223,280	\$ 19,338,054	\$ 5,313,161	\$ 5,510,770	\$ 7,406,207	\$ 11,766,081	\$ 289,320,070

NET EXPOSURE - FUEL COST - in \$1000s

FY	BIGGS	GRIDLEY	HEALDS	LODI	LOMPOC	PLUMAS	UKIAH	BART	SVP	AZUSA	CDWR	MID	PWRPA	TOTAL
2015	\$ 110,287	\$ 808,646	\$ 676,294	\$ 3,910,877	\$ 838,039	\$ 323,450	\$ 735,121	\$ 2,717,031	\$ 10,600,536	\$ 1,146,793	\$ 13,790,988	\$ 4,410,770	\$ 1,098,298	\$ 41,167,130
2016	99,323	728,256	609,061	3,522,084	754,727	291,295	662,041	2,446,922	9,546,702	1,032,786	12,419,981	3,972,281	989,112	37,074,570
2017	82,253	603,097	504,387	2,916,775	625,019	241,233	548,262	2,026,391	7,905,995	855,291	10,285,470	3,289,600	819,123	30,702,894
2018	74,083	543,190	454,286	2,627,047	562,935	217,271	493,802	1,825,106	7,120,679	770,333	9,263,796	2,962,839	737,758	27,653,123
2019	63,262	463,854	387,934	2,243,348	480,714	185,537	421,679	1,558,537	6,080,654	657,821	7,910,754	2,530,095	630,003	23,614,191
2020	61,142	448,306	374,931	2,168,156	464,602	179,318	407,545	1,506,298	5,876,845	635,772	7,645,604	2,445,292	608,887	22,822,699
2021	67,352	493,838	413,011	2,388,365	511,789	197,530	448,937	1,659,285	6,473,725	700,344	8,422,128	2,693,648	670,728	25,140,681
2022	70,681	518,245	433,423	2,506,401	537,082	207,293	471,124	1,741,289	6,793,665	734,956	8,838,361	2,826,772	703,876	26,383,166
2023	72,402	530,869	443,981	2,567,458	550,166	212,342	482,601	1,783,707	6,959,162	752,860	9,053,667	2,895,633	721,023	27,025,871
2024	74,304	544,813	455,643	2,634,896	564,617	217,920	495,277	1,830,559	7,141,954	772,635	9,291,474	2,971,691	739,962	27,735,744
TOTAL	\$ 775,088	\$ 5,683,114	\$ 4,752,950	\$ 27,485,407	\$ 5,889,689	\$ 2,273,188	\$ 5,166,388	\$ 19,095,125	\$ 74,499,918	\$ 8,059,589	\$ 96,922,223	\$ 30,998,620	\$ 7,718,770	\$ 289,320,070

LEC - TOTAL FUEL OFFTAKE - in 1000 MMBtus

FY	BIGGS	GRIDLEY	HEALDS	LODI	LOMPOC	PLUMAS	UKIAH	BART	SVP	AZUSA	CDWR	MID	PWRPA	TOTAL
2015	22.160	162.480	135.887	785.809	168.386	64.991	147.707	545.930	2,129.955	230.424	2,771.009	886.252	220.680	8,271.670
2016	20.072	147.176	123.087	711.790	152.525	58.869	133.794	494.507	1,929.326	208.719	2,509.997	802.772	199.893	7,492.529
2017	16.510	121.053	101.240	585.454	125.454	48.420	110.047	406.737	1,586.889	171.674	2,064.496	660.288	164.414	6,162.676
2018	14.607	107.105	89.575	517.995	110.998	42.841	97.367	359.870	1,404.038	151.892	1,826.612	584.205	145.469	5,452.574
2019	12.161	89.168	74.574	431.247	92.409	35.666	81.061	299.603	1,168.906	126.455	1,520.713	486.369	121.108	4,539.440
2020	11.070	81.164	67.880	392.537	84.114	32.465	73.784	272.710	1,063.981	115.104	1,384.208	442.711	110.237	4,131.965
2021	11.694	85.745	71.711	414.689	88.861	34.297	77.949	288.100	1,124.027	121.600	1,462.326	467.695	116.458	4,365.152
2022	11.901	87.262	72.980	422.030	90.434	34.904	79.328	293.200	1,143.922	123.752	1,488.210	475.974	118.519	4,442.417
2023	11.820	86.668	72.483	419.155	89.818	34.666	78.788	291.203	1,136.131	122.910	1,478.074	472.732	117.712	4,412.161
2024	11.766	86.268	72.149	417.222	89.404	34.506	78.425	289.860	1,130.892	122.343	1,471.257	470.552	117.169	4,391.813
TOTAL	143.762	1,054,090	881,566	5,097,928	1,092,405	421,625	958,249	3,541,718	13,818,067	1,494,873	17,976,903	5,749,550	1,431,659	53,662,396



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Lodi Energy Center Project Participant Committee Operational Report

Agenda Item No.: 4

Date: 4/02/2014
To: Lodi Energy Center Project Participant Committee

Safety

- OSHA Recordable: 0 Accidents

Notice of Violations

- Permits: 0 Violations
- NERC/WECC: 0 Violations

Outage Summaries:

- None

Planned Outage Summaries:

- 2014, April – Combustion Turbine Borescope
- 2014, April – Steam Turbine Minor Inspection
- 2015, April – Combustion Inspection

Generating Unit Statistics:**Report****Date:**

Start Date 3/1/2014

End Date 4/1/2014

1. Monthly Production 120,464 MWH

2. Productivity Factor

a. Service Hours 482 Hours

b. Service Factor 64.80 %

c. Capacity Factor @ 280MW Pmax 57.90 %

d. Capacity Factor @ 302MW Pmax 53.68 %

3. Equivalent Operating Availability (EOA) 100.00 %

4. Forced Outage Rate (FOR)

a. Combustion Turbine Generator 0.00 %

b. Steam Turbine Generator 0.00 %

5. Heat Rate Deviation (HRD)

a. Fuel Cost (Not Current Market Price) 4.00 \$/mmBTU

MW Range		Average HR	PMOA HR	Deviation	Production	Cost
		BTU/kW-Hr	BTU/kW-Hr	%	MWH	\$
Seg. 1	296 - 302	6,850	6850	0.00%	0	\$0
Seg. 2	284 - 296	6,943	6870	1.06%	56,667	\$16,555
Seg. 3	275 - 284	6,955	6971	-0.24%	12,437	-\$818
Seg. 4	250 - 275	6,985	7081	-1.36%	21,847	-\$8,408
Seg. 5	225 - 250	7,056	7130	-1.04%	9,766	-\$2,895
Seg. 6	200 - 225	7,160	7315	-2.12%	6,476	-\$4,008
Seg. 7	175 - 225	7,335	7711	-4.88%	4,644	-\$6,988
Seg. 8	165 - 175	7,672	7856	0.00%	5,804	-\$4,272
					117,641	-\$10,833

6. AGC Control Deviation

MW Range		High Dev	Low Dev	Absolute Dev	Cost
		MWH	MWH	MWH	\$
Seg. 1	296 - 302	0	0	0	\$0
Seg. 2	284 - 296	176	-37	213	\$5,914
Seg. 3	275 - 284	44	-23	67	\$1,858
Seg. 4	250 - 275	91	-27	118	\$3,309
Seg. 5	225 - 250	46	-19	66	\$1,851
Seg. 6	200 - 225	34	-16	49	\$1,411
Seg. 7	175 - 225	22	-11	33	\$965
Seg. 8	165 - 175	29	-4	32	\$988
		441	-137	578	\$16,296

7. Starting Reliability

Start Type	Hot Starts	Warm Starts	Cold Starts
Number of Starts	21	2	0
Start Time Benchmark (Minutes)	85	160	235
Start Time Actual (Average Minute)	63.7	150.0	235.0
Start Time Deviation (%)	-25.1%	-6.3%	0.0%
Start Fuel Benchmark PMOA (mmBTU)	1,967	5,200	5,430
Start Fuel Actual (Average mmBTU)	1,154	3,074	5,430
Fuel Deviation	-41.3%	-40.9%	0.0%
Costs of Fuel Deviations (\$)	-\$3,253	-\$8,506	\$0

Definitions:

1. Monthly Production = Plant Net MWH's
2. Capacity Factor
 - a. Service Hours = In Production or in Service State
 - b. Service Factor = $SH / PH \times 100\%$
 - c. Capacity Factor = $Production / 302MW \times PH$
 - d. Capacity Factor = $Production / 280MW \times PH$
3. Monthly Equivalent Operating Availability = $(AH - EPDH - EFDH - EUDH) / PH \times 100\%$
4. Forced Outage Rate = $(FOH / (FOH + SH)) \times 100\%$
5. Heat Rate Deviation (HRD)
 - a. Fuel Cost = Cost of Fuel in \$/mmBTU
 - b. Average Heat Rate = The Average Heat Rate for the given Range
 - c. Heat Rate Deviation = $(Heat\ Rate\ Average - Heat\ Rate\ Expected) / Heat\ Rate\ Expected \times 100\%$
 - d. Production = The Sum of Production for the given Range
 - e. Costs of Heat Rate Deviations = $(Average\ Heat\ Rate - Expected\ Heat\ Rate) \times Production \times Cost\ of\ Fuel$
6. AGC Deviation-
 - a. MWH's = AGC Set Point Generation - LEC Actual Generation
 - b. Cost of Deviations = Fuel Cost x Heat Rate x Generation
7. Starting Reliability
 - a. Number of Starts = Start Count for Hot, Warm, and Cold
 - b. Start Time = Average Time from 0 Fuel Flow to Pmin
 - c. Start Fuel = Average Fuel Consumption to Pmin
 - d. Cost of Fuel Deviation = $(Actual\ Fuel\ Consumed - Expected\ Fuel) \times Cost\ of\ Fuel$

Lodi Energy Center
Monthly Budget Analysis

Means Actual or Estimated values

Means Forecasted values

	July	August	September	October	November	December	January	February (Actual)	February (Estimate)	February (Diff)	February Estimate vs Actual (Diff %)	Jan-Feb Actual vs Actual (Diff %)	March	April	May	June	Year End Projection	FY2014 Budget	Percent Used	Comments
VOM	4,510,911	3,441,771	3,527,417	3,559,665	3,829,061	5,841,427	5,859,348	9,204,955	4,594,201	4,610,754	100%	36%	4,629,938	2,234,881	3,773,424	4,127,189	54,539,987	48,880,350	111.6%	Higher Run Time, Energy and Fuel
Capacity Factor	59%	45%	46%	47%	52%	67%	66%	83%	65%	18%	28%	21%	46%	16%	12%	34%	48%	64%		
Fuel Consumed (mmBTU, estimated)	879,771	674,758	658,848	688,301	742,102	968,742	956,882	1,095,418	842,138	253,280	30%	13%	736,737	364,531	717,551	690,691	9,174,332	9,349,196	98.1%	
Avg Fuel Cost (\$/mmBTU)	4.26	4.21	4.43	4.44	4.32	5.22	5.32	7.59	4.67	2.92	62%	30%	5.54	5.59	5.54	5.54	5.17	4.38		
Power Produced (MWhr, estimated)	122,486	94,610	92,090	98,738	105,077	138,065	136,604	156,088	122,049	34,039	28%	12%	106,773	52,831	103,993	100,100	1,307,455	1,354,956	96.5%	
Avg Power Price (\$/MWhr)	46.91	42.48	46.99	41.03	42.09	54.14	48.14	65.20	40.51	24.69	61%	26%	52.00	49.70	47.70	47.70	48.67	53.60		
Operations	43,003	96,234	127,333	26,495	108,825	124,300	95,063	126,143	108,395	17,748	16%	25%	108,395	108,395	108,395	108,395	1,180,975	1,300,738	90.8%	
Fuel (estimated)	3,752,183	2,838,640	2,921,836	3,055,256	3,208,112	5,061,023	5,085,936	8,309,024	3,932,785	4,376,239	111%	39%	4,081,522	1,951,738	3,513,129	3,688,288	47,466,688	41,400,588	114.7%	Combined, Fuel Price, CAISO Market, Increased R
AB32 GHG Offset (estimated)	665,425	470,249	440,345	439,427	466,509	601,037	622,287	706,677	508,955	197,722	39%	12%	395,955	130,682	107,833	286,439	5,332,865	5,650,224	94.4%	
CA ISO Charges (estimated)	50,300	36,648	37,902	38,488	45,615	55,066	56,062	63,111	44,067	19,045	43%	11%	44,067	44,067	44,067	44,067	559,459	528,800	105.8%	
Routine O&M (Fixed)	825,352	705,626	781,796	836,116	1,541,610	1,660,100	1,459,604	703,908	787,524	-83,616	-11%	-107%	1,417,376	804,876	1,004,313	1,417,376	13,158,051	12,360,283	106.5%	
Maintenance	122,856	103,896	138,361	205,464	804,406	282,058	856,754	124,522	108,563	15,959	15%	-588%	721,063	108,563	308,000	721,063	4,497,006	3,752,752	119.8%	
Administration	176,051	14,591	100,092	101,797	96,024	100,085	99,312	109,722	101,221	8,501	8%	9%	101,221	101,221	101,221	101,221	1,202,560	1,214,657	99.0%	
Mandatory Costs	54,223	33,816	75,781	40,651	44,151	27,705	32,310	52,601	38,000	14,601	38%	39%	38,000	38,000	38,000	38,000	513,238	456,000	112.6%	
Inventory Stock	0	0	0	0	0	14,393	40,196	0	69,000	-69,000	-100%	#DIV/0!	86,352	86,352	86,352	86,352	399,997	400,000	100.0%	
Labor	362,071	347,160	363,503	379,492	492,969	347,638	322,319	313,003	352,258	-39,255	-11%	-3%	352,258	352,258	352,258	352,258	4,337,188	4,227,098	102.6%	
Insurance	110,151	206,163	104,059	108,712	104,060	888,221	108,713	104,060	118,481	-14,421	-12%	-4%	118,481	118,481	118,481	118,481	2,208,063	2,309,776	95.6%	
Power Management & Settlements										0										
Other Costs										0										
Projects	33,104	33,104	33,105	33,104	82,515	48,100	34,184	34,711	92,938	-58,227	-63%	2%	33,104	593,104	96,104	33,104	1,087,344	1,115,250	97.5%	
Maintenance Reserve	33,104	33,104	33,105	33,104	33,104	33,104	33,104	33,104	33,104	0	0%	0%	33,104	33,104	33,104	33,104	397,250	397,250	100.0%	
Operations & Maintenance Projects	0	0	0	0	49,411	14,996	1,080	1,607	14,000	-12,393	-89%	33%	0	60,000	38,000		165,094	168,000	98.3%	
Capital Projects	0	0	0	0	0	0	0	0	45,833	-45,833	-100%	#DIV/0!	0	500,000	25,000	0	525,000	550,000	95.5%	
A&G	93,845	93,845	143,178	116,185	146,921	144,534	111,394	197,482	188,459	9,023	5%	44%	188,459	188,459	188,459	188,459	1,801,220	2,261,509	79.6%	
Administrative & General (Allocated)	76,204	76,204	110,033	93,660	119,853	120,763	88,473	176,496	145,900	30,596	21%	50%	145,900	145,900	145,900	145,900	1,445,285	1,750,798	82.6%	
Generation Services Shared	17,641	17,641	33,145	22,525	27,068	23,771	22,921	20,986	42,559	-21,573	-51%	-9%	42,559	42,559	42,559	42,559	355,935	510,711	69.7%	
Total O&M Cost	5,463,212	4,274,346	4,485,496	4,545,070	5,600,107	7,694,161	7,464,530	10,141,056	5,663,121	4,477,935	79%	26%	6,268,877	3,821,320	5,062,300	5,766,128	70,586,603	64,617,392	109.2%	
Debt Service	2,211,514	2,211,516	2,211,511	2,211,516	1,652,233	2,211,513	2,211,514	2,211,514	2,163,002	48,512	2%	0%	2,163,002	2,163,002	2,163,002	2,163,002	25,784,841	25,956,029	99.3%	
Revenues	5,746,023	4,019,075	4,330,249	4,051,388	4,422,375	7,475,000	7,354,210	10,177,669	4,878,665	5,299,005	109%	28%	5,520,187	2,688,216	4,632,883	4,954,955	65,372,230	55,613,202	117.5%	
ISO Energy Sales (estimated)	5,746,023	4,019,075	4,327,698	4,051,388	4,422,375	7,475,000	6,575,721	10,177,669	4,878,665	5,299,005	109%	35%	5,520,187	2,688,216	4,632,883	4,954,955	64,591,190	55,539,944		
Other Income	0	0	2,551	0	0	0	778,489	0	0	0	0%	0%	0	0	0	0	781,040	73,258		
Net	(\$1,928,703)	(\$2,466,787)	(\$2,366,758)	(\$2,705,199)	(\$2,829,966)	(\$2,430,674)	(\$2,321,834)	(\$2,174,900)	(\$2,947,459)	\$772,558	-26%	-7%	(\$2,911,692)	(\$3,296,107)	(\$2,592,419)	(\$2,974,175)	(\$30,999,214)	(\$34,960,219)		



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LEC Treasurer's Report

AGENDA ITEM NO.: _____

Date: April 8, 2014
To: LEC Project Participant Committee
Subject: Treasurer's Report for the Month Ended March 31, 2014

In compliance with NCPA policy and State of California Government Code Sections 53601 and 53646(b), the following monthly report is submitted for your information and acceptance.

Cash - At month end cash totaled \$0.

The cash balance held at U.S. Bank includes outstanding checks that have not yet cleared.

Investments - The carrying value of the LEC's investment portfolio totaled \$35,882,943 at month end. The current market value of the portfolio totaled \$35,873,530.

The overall portfolio had a combined weighted average interest rate of 0.279% with a bond equivalent yield (yield to maturity) of 0.234%. Investments with a maturity greater than one year totaled \$11,368,000. During the month \$2 million was invested.

Funds not required to meet annual cash flow are reinvested and separately reported as they occur.

Interest Rates - During the month, rates on 90 day T-Bills basis points stayed the same (at 0.05%) and rates on one year T-Bills increased 1 basis points (from 0.12% to 0.13%).

To the best of my knowledge and belief, all securities held by LEC as of April 14, 2014, are in compliance with the Agency's investment policy. There are adequate cash flow and investment maturities to meet next month's cash requirements.

Environmental Analysis

The Treasurer's report will not result in a direct or reasonably foreseeable indirect change in the physical environment and is therefore not a "project" for purposes of Section 21065 of the California Environmental Quality Act. No environmental review is necessary.

Respectfully submitted,

DONNA STEVENER
Assistant General Manager/CFO
Administrative Services/Finance

Prepared by:

KEVIN W. WALLACE
Treasurer-Controller

Attachments

LODI ENERGY CENTER

TREASURER'S REPORT

MARCH 31, 2014

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INVESTMENT MATURITIES ANALYSIS	5
DETAIL REPORT OF INVESTMENTS	APPENDIX

Northern California Power Agency/Lodi Energy Center
Treasurer's Report
Cash & Investment Balance
March 31, 2014

	CASH	INVESTMENTS	TOTAL	PERCENT	INVESTMENTS at MARKET
MANDATORY FUNDS					
Construction Revolving	\$ -	\$ 243,215	\$ 243,215	0.678%	\$ 243,215
Debt Service Account	-	13,202,083	13,202,083	36.792%	13,202,671
Debt Service Reserve	-	11,736,027	11,736,027	32.706%	11,725,903
O & M Reserve	-	10,636,424	10,636,424	29.642%	10,636,546
	-	35,817,748	35,817,748	99.818%	35,808,335
ADDITIONAL PROJECT FUNDS					
GHG Cash Account	-	65,195	65,195	0.182%	65,195
	\$ -	\$ 35,882,943	\$ 35,882,943	100.000%	\$ 35,873,530

NOTE A -Investment amounts shown at book carrying value.

Northern California Power Agency/Lodi Energy Center
Treasurer's Report
Cash Activity Summary
March 31, 2014

	RECEIPTS			EXPENDITURES			CASH INCREASE / (DECREASE)
	OPS/CONSTR	INTEREST	INVESTMENTS	OPS/CONSTR	INVESTMENTS	INTER-COMPANY/ FUND TRANSFERS	
		(NOTE B)	(NOTE A)		(NOTE B)		
MANDATORY FUNDS							
Construction Revolving	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service Account	-	0	1,624	-	(2,213,141)	2,211,517	-
Debt Service Reserve	-	78	-	-	(78)	-	-
O & M Reserve	-	11,175	-	-	(11,175)	-	-
	-	11,253	1,624	-	(2,224,394)	2,211,517	-
ADDITIONAL PROJECT FUNDS							
GHG Cash Account	-	-	-	-	-	-	-
TOTAL	\$ -	\$ 11,253	\$ 1,624	\$ -	\$ (2,224,394)	\$ 2,211,517	\$ -

NOTE A -Investment amounts shown at book carrying value.

NOTE B -Net of accrued interest purchased on investments.

Northern California Power Agency/Lodi Energy Center
Treasurer's Report
Investment Activity Summary
March 31, 2014

	PURCHASED	SOLD OR MATURED	(NON-CASH) DISC/(PREM) AMORT	(NON-CASH) GAIN/(LOSS) ON SALE	INVESTMENTS	
					TRANSFERS	INCREASE / (DECREASE)
MANDATORY FUNDS						
Construction Revolving		\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service Account	2,213,141	(1,624)	584	-	-	2,212,101
Debt Service Reserve	78			-		78
O & M Reserve	11,175	-	(919)	-		10,256
	<u>2,224,394</u>	<u>(1,624)</u>	<u>(335)</u>	<u>-</u>	<u>-</u>	<u>2,222,435</u>
ADDITIONAL PROJECT FUNDS						
GHG Cash Account	-		-	-		-
TOTAL	<u>\$ 2,224,394</u>	<u>\$ (1,624)</u>	<u>\$ (335)</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 2,222,435</u>

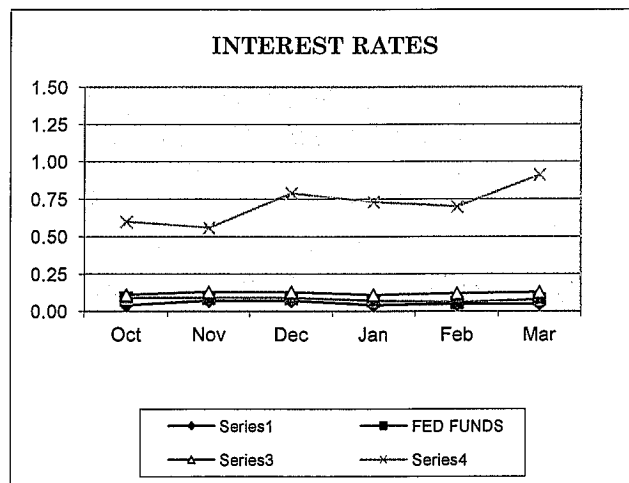
Less Non- Cash Activity	
Disc/(Prem) Amortization & Gain/(Loss) on Sale	335
Net Change in Investment --Before Non-Cash Activity	<u>\$ 2,222,770</u>

NOTE A -Investment amounts shown at book carrying value.

**NORTHERN CALIFORNIA POWER AGENCY
LODI ENERGY CENTER
INTEREST RATE/YIELD ANALYSIS
MARCH 31, 2014**

	WEIGHTED AVERAGE INTEREST RATE	BOND EQUIVALENT YIELD
OVERALL COMBINED	<u>0.279%</u>	<u>0.234%</u>
<u>Construction Revolving Acct</u>	0.254%	0.254%
<u>Funds:</u>		
Debt Service Account	0.056%	0.056%
Debt Service Reserve	0.399%	0.399%
O & M Reserve	0.424%	0.271%
GHG Cash Account	0.254%	0.254%

KEY INTEREST RATES		
	CURRENT	PRIOR YEAR
Fed Fds (Ovrnight)	0.08%	0.15%
T-Bills (90da.)	0.05%	0.08%
Agency Disc (90da.)	0.03%	0.16%
T-Bills (1yr.)	0.13%	0.14%
Agency Disc (1yr.)	0.12%	0.13%
T-Notes (3yr.)	0.91%	0.37%



Lodi Energy Center
Total Portfolio
Investment Maturities Analysis
March 31, 2014

Type	0-7 Days	8-90 Days	91-180 Days	181-270 Days	271-360 Days	1-5 Years	5-10 Years	Total	Percent
US Government Agencies		\$16,205	\$2,980	\$632	\$0	\$11,368	\$0	\$31,185	86.91%
US Bank Trust Money Market	3,369							3,369	9.39%
Investment Trusts (LAIF)	1,328							1,328	3.70%
U.S.Treasury Market Acct. *	0							0	0.00%
U.S.Treasury Bill								0	0.00%
Certificates of Deposit	0							0	0.00%
Total Dollars	\$4,698	\$16,205	\$2,980	\$632	\$0	\$11,368	\$0	\$35,883	100.00%
Total Percents	13.09%	45.16%	8.30%	1.76%	0.00%	31.68%	0.00%	100.00%	

Investment are shown at Face Value, in thousands.

* The cash balance held at US Bank includes outstanding checks that have not yet cleared. This cash balance is invested nightly in a fully collateralized (U.S. Government Securities) repurchase agreement.

** Cash held by Union Bank of California is invested nightly in fully collateralized U.S. Treasury Securities.

NORTHERN CALIFORNIA POWER AGENCY

Detail Report Of Investments

APPENDIX

Note:

**This appendix has been prepared to comply with
Government Code section 53646.**



Northern California Power Agency
Treasurer's Report
03/31/2014

Page 1

LEC Construction Revolving

Issuer	Trustee / Custodian	Stated Value	Interest Rate	Purchase Date	Purchased Price	Maturity Date	Days to Maturity	Bond* Equiv Yield	Market Value	CUSIP	Investment #	Carrying Value
Local Agency Investm		243,215	0.254		243,215		1	0.254	243,215	SYS70040	70040	243,215
Fund Total and Average		\$ 243,215	0.254		\$ 243,215		1	0.254	\$ 243,215			\$ 243,215
GRAND TOTALS:		\$ 243,215	0.254		\$ 243,215		1	0.254	\$ 243,215			\$ 243,215

*Bond Equivalent Yield to Maturity is shown based on a 365 day year to provide a basis for comparison between all types. Investments with less than 6 months to maturity use an approximate method, all others use an exact method.

Current Market Value is based on prices from Trustee/ Custodian Statements or bid prices from the Wall Street Journal as of 03/31/2014



Northern California Power Agency
Treasurer's Report
03/31/2014

LEC Issue#1 2010A DS Fund

Issuer	Trustee / Custodian	Stated Value	Interest Rate	Purchase Date	Purchased Price	Maturity Date	Days to Maturity	Bond* Equiv Yield	Market Value	CUSIP	Investment #	Carrying Value
US Bank Trust	USB	136	0.100		136		1	0.100	136	SYS79003	79003	136
Federal Home Loan Ba	USB	693,000	0.029	02/25/2014	692,950	05/23/2014	52	0.030	692,972	313385XD3	26103	692,970
Federal Home Loan Mt	USB	1,387,000	0.090	10/25/2013	1,386,248	05/30/2014	59	0.091	1,386,931	313397XL0	26057	1,386,795
Federal Home Loan Ba	USB	952,000	0.085	12/03/2013	951,593	06/02/2014	62	0.086	951,952	313385XP6	26071	951,861
Federal Home Loan Ba	USB	693,000	0.059	01/06/2014	692,830	06/02/2014	62	0.060	692,965	313385XP6	26076	692,928
Federal Home Loan Ba	USB	693,000	0.040	01/27/2014	692,903	06/02/2014	62	0.040	692,965	313385XP6	26090	692,952
Federal Home Loan Ba	USB	694,000	0.030	03/27/2014	693,961	06/02/2014	62	0.030	693,965	313385XP6	26116	693,964
Fund Total and Average		\$ 5,112,136	0.062		\$ 5,110,621		60	0.063	\$ 5,111,886			\$ 5,111,606

LEC Issue #1 2010B DS Fund

US Bank Trust	USB	814	0.100		814		1	0.100	814	SYS79004	79004	814
Federal Home Loan Ba	USB	732,000	0.029	02/25/2014	731,947	05/23/2014	52	0.030	731,971	313385XD3	26104	731,968
Federal Home Loan Ba	USB	766,000	0.060	01/06/2014	765,812	06/02/2014	62	0.060	765,962	313385XP6	26077	765,921
Federal Home Loan Ba	USB	733,000	0.040	01/27/2014	732,897	06/02/2014	62	0.040	732,963	313385XP6	26091	732,950
Federal Home Loan Ba	USB	732,000	0.030	03/27/2014	731,959	06/02/2014	62	0.030	731,963	313385XP6	26117	731,962
Fund Total and Average		\$ 2,963,814	0.040		\$ 2,963,429		60	0.041	\$ 2,963,673			\$ 2,963,615

LEC Issue #2 2010A DS Fund

US Bank Trust	USB	176	0.100		176		1	0.100	176	SYS79011	79011	176
Federal Home Loan Ba	USB	434,000	0.029	02/25/2014	433,969	05/23/2014	52	0.030	433,983	313385XD3	26105	433,981
Federal Home Loan Mt	USB	870,000	0.089	10/25/2013	869,528	05/30/2014	59	0.091	869,957	313397XL0	26058	869,872
Federal Home Loan Ba	USB	1,095,000	0.085	12/03/2013	1,094,532	06/02/2014	62	0.086	1,094,945	313385XP6	26072	1,094,840
Federal Home Loan Ba	USB	435,000	0.059	01/06/2014	434,893	06/02/2014	62	0.060	434,978	313385XP6	26078	434,955
Federal Home Loan Ba	USB	434,000	0.040	01/27/2014	433,939	06/02/2014	62	0.040	433,978	313385XP6	26092	433,970
Federal Home Loan Ba	USB	435,000	0.030	03/27/2014	434,976	06/02/2014	62	0.030	434,978	313385XP6	26118	434,978
Fund Total and Average		\$ 3,703,176	0.065		\$ 3,702,013		60	0.066	\$ 3,702,995			\$ 3,702,772

LEC Issue #2 2010B DS Fund

US Bank Trust	USB	185	0.100		185		1	0.100	185	SYS79012	79012	185
Federal Home Loan Ba	USB	352,000	0.029	02/25/2014	351,974	05/23/2014	52	0.030	351,986	313385XD3	26106	351,985
Federal Home Loan Ba	USB	368,000	0.060	01/06/2014	367,910	06/02/2014	62	0.060	367,982	313385XP6	26079	367,962
Federal Home Loan Ba	USB	352,000	0.040	01/27/2014	351,951	06/02/2014	62	0.040	351,982	313385XP6	26093	351,976
Federal Home Loan Ba	USB	352,000	0.029	03/27/2014	351,980	06/02/2014	62	0.030	351,982	313385XP6	26119	351,982



Northern California Power Agency

Treasurer's Report

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LEC Issue #2 2010B DS Fund

Issuer	Trustee / Custodian	Stated Value	Interest Rate	Purchase Date	Purchased Price	Maturity Date	Days to Maturity	Bond* Equiv Yield	Market Value	CUSIP	Investment #	Carrying Value
Fund Total and Average		\$ 1,424,185	0.040		\$ 1,424,000		60	0.041	\$ 1,424,117			\$ 1,424,090
GRAND TOTALS:		\$ 13,203,311	0.056		\$ 13,200,063		60	0.056	\$ 13,202,671.			\$ 13,202,083

*Bond Equivalent Yield to Maturity is shown based on a 365 day year to provide a basis for comparison between all types. Investments with less than 6 months to maturity use an approximate method, all others use an exact method.

Current Market Value is based on prices from Trustee/ Custodian Statements or bid prices from the Wall Street Journal as of 03/31/2014



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LEC Issue #1 2010 DSR Fund

Issuer	Trustee / Custodian	Stated Value	Interest Rate	Purchase Date	Purchased Price	Maturity Date	Days to Maturity	Bond* Equiv Yield	Market Value	CUSIP	Investment #	Carrying Value
US Bank Trust	USB	21,525	0.100		21,525		1	0.100	21,525	SYS79005	79005	21,525
Federal National Mtg	USB	8,368,000	0.520	05/30/2013	8,368,000	05/27/2016	787	0.520	8,357,875	3135G0XU2	26020	8,368,000
Fund Total and Average		\$ 8,389,525	0.519		\$ 8,389,525		785	0.519	\$ 8,379,400			\$ 8,389,525

LEC Iss#1 2010B BABS Subs Resv

US Bank Trust	USB	2,260,350	0.100		2,260,350		1	0.100	2,260,350	SYS79006	79006	2,260,350
Fund Total and Average		\$ 2,260,350	0.100		\$ 2,260,350		1	0.100	\$ 2,260,350			\$ 2,260,350

LEC Issue #1 2010 COI Acct

US Bank Trust	USB	2	0.100		2		1	0.100	2	SYS79008	79008	2
Fund Total and Average		\$ 2	0.100		\$ 2		1	0.100	\$ 2			\$ 2

LEC Issue #2 2010B DSR BABS

US Bank Trust	USB	1,086,151	0.100		1,086,151		1	0.100	1,086,151	SYS79013	79013	1,086,151
Fund Total and Average		\$ 1,086,151	0.100		\$ 1,086,151		1	0.100	\$ 1,086,151			\$ 1,086,151
GRAND TOTALS:		\$ 11,736,028	0.399		\$ 11,736,028		561	0.399	\$ 11,725,903			\$ 11,736,028

*Bond Equivalent Yield to Maturity is shown based on a 365 day year to provide a basis for comparison between all types. Investments with less than 6 months to maturity use an approximate method, all others use an exact method.

Current Market Value is based on prices from Trustee/ Custodian Statements or bid prices from the Wall Street Journal as of 03/31/2014

Investment # 26020 - FNMA Structured Note .52% Next Call 5/27/14, then 11/27/14



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LEC O & M Reserve

Issuer	Trustee / Custodian	Stated Value	Interest Rate	Purchase Date	Purchased Price	Maturity Date	Days to Maturity	Bond* Equiv Yield	Market Value	CUSIP	Investment #	Carrying Value
Local Agency Investm		1,019,878	0.254		1,019,878		1	0.254	1,019,878	SYS70047	70047	1,019,878
Union Bank of Califo	UBOC	0	0.002	07/18/2013	0		1	0.002	0	SYS70041	70041	0
Federal National Mtg	UBOC	3,003,000	0.140	07/18/2013	2,999,006	06/25/2014	85	0.142	3,002,790	313589YN7	26028	3,002,007
Federal Home Loan Mt	UBOC	2,980,000	0.750	02/19/2014	2,991,264	09/22/2014	174	0.110	2,985,543	3134G2WG3	26099	2,989,043
Federal Home Loan Mt	UBOC	632,000	0.140	10/31/2013	631,127	10/21/2014	203	0.142	631,785	313397L41	26066	631,501
Federal Home Loan Mt	UBOC	3,000,000	0.500	10/25/2013	2,992,800	06/06/2016	797	0.592	2,996,550	3134G46A1	26052	2,993,994
Fund Total and Average		\$ 10,634,878	0.424		\$ 10,634,075		309	0.271	\$ 10,636,546			\$ 10,636,423
GRAND TOTALS:		\$ 10,634,878	0.424		\$ 10,634,075		309	0.271	\$ 10,636,546			\$ 10,636,423

*Bond Equivalent Yield to Maturity is shown based on a 365 day year to provide a basis for comparison between all types. Investments with less than 6 months to maturity use an approximate method, all others use an exact method.

Current Market Value is based on prices from Trustee/ Custodian Statements or bid prices from the Wall Street Journal as of 03/31/2014

Investment # 26052 - FHLMC Structured Note .50%; Quarterly Call, Next Call 6/6/14,



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LEC GHG Auction Acct

Issuer	Trustee / Custodian	Stated Value	Interest Rate	Purchase Date	Purchased Price	Maturity Date	Days to Maturity	Bond* Equiv Yield	Market Value	CUSIP	Investment #	Carrying Value
Local Agency Investm		65,195	0.254		65,195		1	0.254	65,195	SYS70046	70046	65,195
Fund Total and Average		\$ 65,195	0.254		\$ 65,195		1	0.254	\$ 65,195			\$ 65,195
GRAND TOTALS:		\$ 65,195	0.254		\$ 65,195		1	0.254	\$ 65,195			\$ 65,195

*Bond Equivalent Yield to Maturity is shown based on a 365 day year to provide a basis for comparison between all types. Investments with less than 6 months to maturity use an approximate method, all others use an exact method.

Current Market Value is based on prices from Trustee/ Custodian Statements or bid prices from the Wall Street Journal as of 03/31/2014



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LEC Financial Reports

AGENDA ITEM NO.: _____

Date: April 8, 2014

Subject: March 31, 2014 Financial Reports (Unaudited)

**NORTHERN CALIFORNIA POWER AGENCY
LODI ENERGY CENTER
STATEMENT OF NET POSITION
UNAUDITED**

ASSETS	March 31	
	2014	2013 (Note A)
CURRENT ASSETS		
Cash and cash equivalents	\$ 70,750	\$ 28,717
Interest receivable	5,918	678
Supplies inventory	1,056,961	230,459
Prepaid insurance	777,268	526,355
Due from (to) Agency, net	6,871,629	6,821,960
TOTAL CURRENT ASSETS	8,782,526	7,608,169
RESTRICTED ASSETS		
Cash and cash equivalents	9,056,223	9,143,289
Investments	26,761,526	31,245,549
Interest receivable	17,416	35,065
TOTAL RESTRICTED ASSETS	35,835,165	40,423,903
ELECTRIC PLANT		
Electric plant in service	423,354,890	428,100,556
Less: accumulated depreciation	(18,268,170)	
TOTAL ELECTRIC PLANT	405,086,720	428,100,556
OTHER ASSETS		
Regulatory assets	10,058,783	
Unamortized debt issuance expenses	3,507,203	3,601,601
TOTAL OTHER ASSETS	13,565,986	3,601,601
TOTAL ASSETS	\$ 463,270,397	\$ 479,734,229

Note A:

Commercial operation began November 27, 2012. Prior to commercial operation, all costs of construction, test start-up and financing were capitalized.

**NORTHERN CALIFORNIA POWER AGENCY
LODI ENERGY CENTER
STATEMENT OF NET POSITION
UNAUDITED**

	March 31	
	2014	2013 (Note A)
LIABILITIES & NET POSITION		
CURRENT LIABILITIES		
Accounts and retentions payable	\$ 290,131	\$ 6,893,941
Operating reserves	11,296,271	
Current portion of long-term debt	8,640,000	8,315,000
Accrued interest payable	5,941,986	8,279,635
TOTAL CURRENT LIABILITIES	26,168,388	23,488,576
NON-CURRENT LIABILITIES		
Other deposits	70,654	1,893,554
Regulatory liability	45,256,401	52,425,046
Long-term debt, net	382,116,184	391,890,262
TOTAL NON-CURRENT LIABILITIES	427,443,239	446,208,862
TOTAL LIABILITIES	453,611,627	469,697,438
NET POSITION		
Invested in capital assets, net of related debt	1,150,489	(20,235,165)
Restricted	11,312,157	30,964,871
Unrestricted	(2,803,876)	(692,915)
TOTAL NET POSITION	9,658,770	10,036,791
TOTAL LIABILITIES AND NET POSITION	\$ 463,270,397	\$ 479,734,229

Note A:

Commercial operation began November 27, 2012. Prior to commercial operation, all costs of construction, test start-up and financing were capitalized.

**NORTHERN CALIFORNIA POWER AGENCY
LODI ENERGY CENTER
STATEMENT OF REVENUES, EXPENSES
& CHANGES IN NET POSITION
UNAUDITED**

	Nine Months Ended March 31	
	2014	2013 (Note A)
SALES FOR RESALE		
Participants	\$ 27,890,605	\$ 26,044,800
Other	40,146,131	12,077,280
TOTAL SALES FOR RESALE	68,036,736	38,122,080
OPERATING EXPENSES		
Intercompany (sales) purchases	307,234	196,147
Transmission	605,466	136,643
Operations	34,860,143	13,547,589
Depreciation	9,732,296	
Administrative and general	4,017,650	993,902
Maintenance expenses	6,005,356	2,552,131
TOTAL OPERATING EXPENSES	55,528,145	17,426,412
NET OPERATING REVENUES	12,508,591	20,695,668
OTHER REVENUES (EXPENSES)		
Interest expense	(12,020,765)	(13,939,597)
Interest income	72,758	125,888
Capitalized Interest	-	6,257,259
Amortizations	(57,194)	
Other	1,590,911	194,905
TOTAL OTHER REVENUES (EXPENSES)	(10,414,290)	(7,361,545)
FUTURE RECOVERABLE/(REFUNDABLE) AMOUNTS	3,271,069	(3,297,332)
REFUNDS TO PARTICIPANTS	(1,185,594)	
INCREASE IN NET POSITION	4,179,776	10,036,791
NET POSITION		
Beginning of year	5,478,994	
End of period	\$ 9,658,770	\$ 10,036,791
	-	-

Note A:

Commercial operation began November 27, 2012. Prior to commercial operation, all costs of construction, test start-up and financing were capitalized.

**Lodi Energy Center
FY 2014 Operating Costs
As of March 31, 2014**

	Annual Budget	Actual	Remaining	YTD % Remaining	Notes
Routine O&M Costs					
Operations	\$ 1,300,738	\$ 840,382	\$ 460,356	35%	B
Maintenance	3,752,752	2,736,117	1,016,635	27%	
Administration	1,214,657	909,080	305,577	25%	
Mandatory Costs	456,000	388,582	67,418	15%	
Inventory Stock	400,000	66,181	333,819	83%	
Routine O&M Costs without Labor	7,124,147	4,940,342	2,183,805	31%	
Labor	4,227,098	3,247,796	979,302	23%	
Total Routine O&M Cost	11,351,245	8,188,138	3,163,107	28%	
Other Costs					
Fuel	41,400,588	37,885,430	3,515,158	8%	E C D
AB32 GHG Offset	5,650,224	-	5,650,224	100%	
CA ISO Charges	528,800	1,213,124	(684,324)	-129%	
Debt Service	25,956,029	19,344,346	6,611,683	25%	
Other Costs	2,309,776	1,742,603	567,173	25%	
Administrative & General (Allocated)	1,750,798	964,366	786,432	45%	
Generation Services Shared	510,711	208,697	302,014	59%	
Maintenance Reserve	397,250	297,938	99,312	25%	
Total O&M Cost	89,855,421	69,844,642	20,010,779	22%	
Projects					
Operations & Maintenance	168,000	67,094	100,906	60%	
Capital	550,000	-	550,000	100%	
Total Capital Budget	718,000	67,094	650,906	91%	
Annual Cost	90,573,421	69,911,736	20,661,685	23%	
Less: Third Party Revenue					
Interest Income	73,258	31,075	42,183	58%	A F
ISO Energy Sales	53,249,904	53,189,360	60,544	0%	
Ancillary Services Sales	2,290,040	1,184,659	1,105,381	48%	
Transfer Gas Credit	-	999,210	(999,210)	N/A	
ERCS Sale	-	788,059	(788,059)	N/A	
	55,613,202	56,192,363	(579,161)	-1%	
Net Annual Cost to Participants	\$ 34,960,219	\$ 13,719,373	\$ 21,240,846	61%	

Net Cumulative Generation (MWh)	1,354,957	1,064,269
Total O&M Cost Per MWh	\$ 66.32	\$ 65.63
Net Annual Cost Per MWh	\$ 25.80	\$ 12.89

Footnotes:

A - Represents credits to participants who delivered gas to the project. These credits were not budgeted for FY 2014.

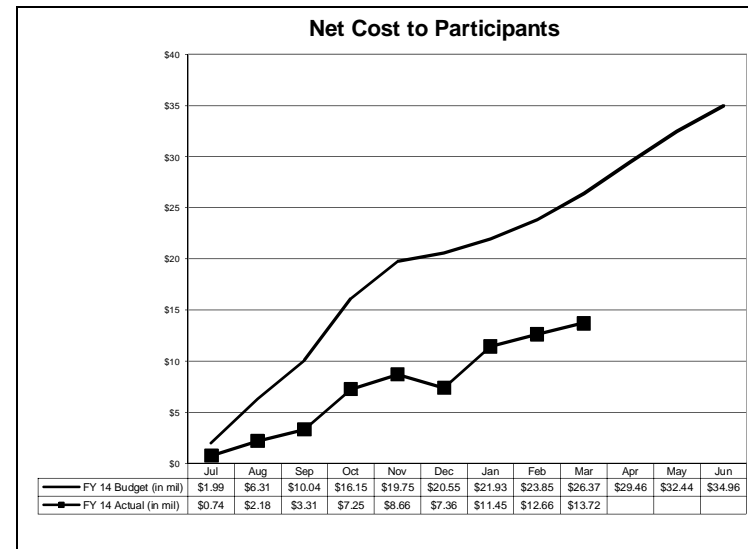
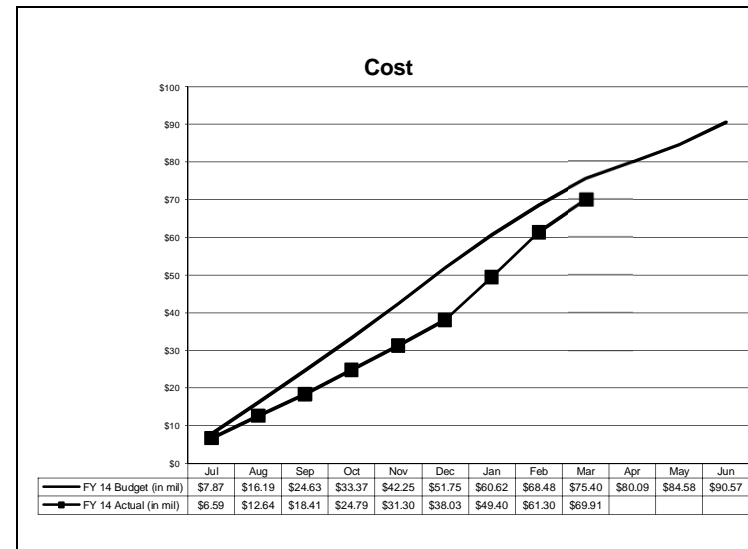
B - Payments for hazardous waste fee and air resources board fee. Costs are expected to normalize during the year.

C - The project did not purchase any GHG Allowances as participants have delivered sufficient allowances through January 31, 2014.

D - CA ISO Charges are greater than anticipated primarily due to unplanned Regulation Energy and Resource Adequacy Standard Capacity charges.

E - Fuel costs are higher than anticipated due to increasing natural gas prices per mMBTU during the year.

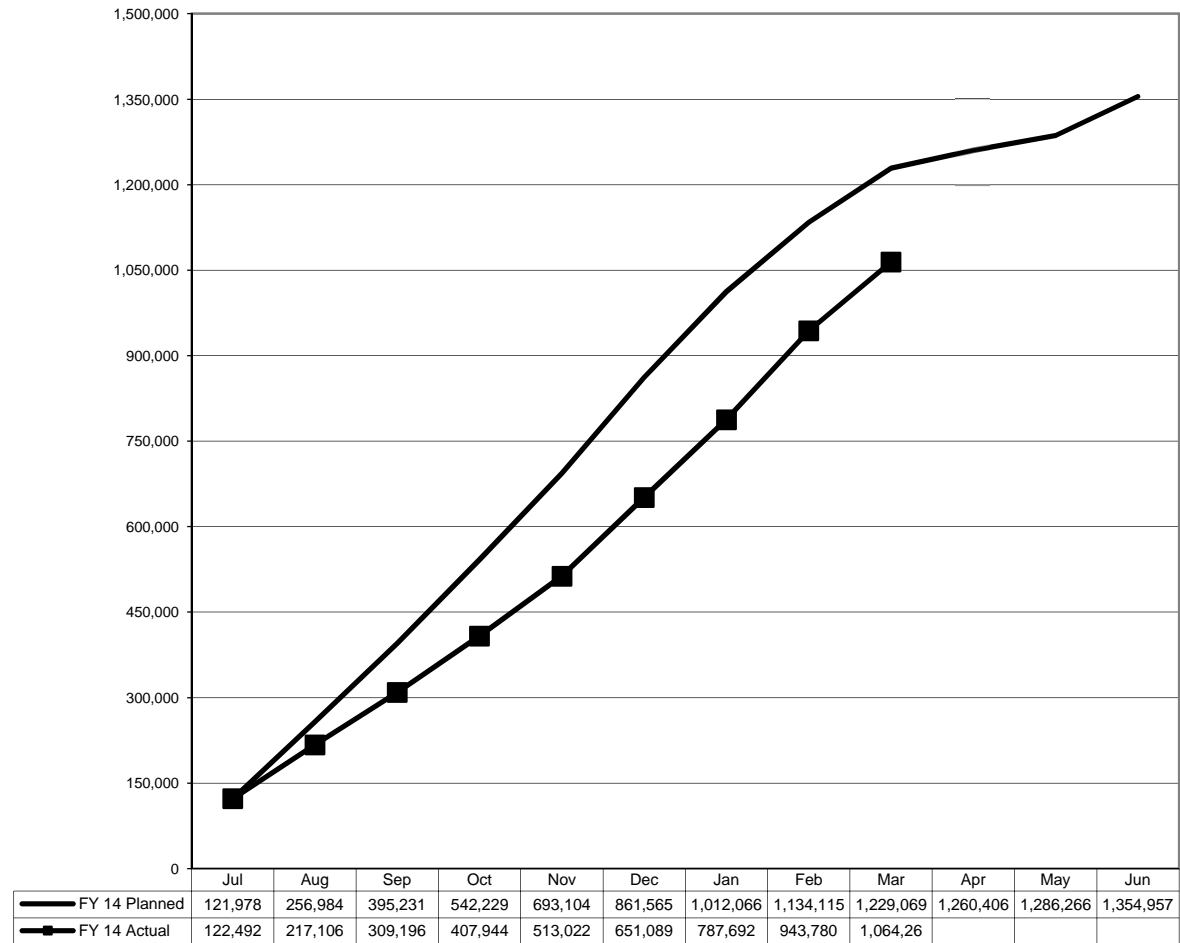
F - Proceeds from the Sale of ERCS



Annual Budget LEC Generation Analysis Planned vs. Actual FY 2014

In MWh

Lodi Energy Center



2013 NCPA All Resources Bill LEC GHG Compliance Instrument Detail Report for the Lodi Energy Center																
	Actual													Compliance Year 2013		
IDENTIFIER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	Total	Charge Code	Source
Energy (MWh)	0	82,787	101,925	128,167	134,284	32,545	80,153	122,492	94,615	92,091	98,739	105,078	138,068	1,210,944		Forecast/Meter
Gas Schedule (MMBtu)	0	593,484	723,038	894,657	952,529	229,724	579,650	870,331	673,965	650,250	692,396	738,008	965,292	8,563,324		Forecast/Meter
Emissions Factor (MT/MMBtu)	0	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053		MARS
Monthly MT Emissions (MT)	0	31,455	38,321	47,417	50,484	12,175	30,721	46,128	35,720	34,463	36,697	39,114	51,160	453,856		derived
Cumulative MT Obligation (MT)	0	31,455	69,776	117,193	167,677	179,852	210,573	256,701	292,421	326,884	363,581	402,696	453,856	453,856		derived
Compliance Instrument Participant Transfers (to LEC)																
Auction Allowances	92,695	5,350	0	13,644	105,000	50,632	30,628	1,600	102,200	12,594	0	0	46,290	460,633		CITSS
Secondary Market Allowances	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Reserve Sale Allowances	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Offsets	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Total Compliance Instrument Participant Transfers (MT)	92,695	5,350	0	13,644	105,000	50,632	30,628	1,600	102,200	12,594	0	0	46,290	460,633		
NCPA Compliance Instrument Purchases (for LEC)																
Auction Purchases	47,000	0	0	0	0	0	0	0	0	0	0	0	0	47,000		CITSS
Secondary Market Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Reserve Sale Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Offset Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Total NCPA Compliance Instrument Purchases (MT)	47,000	0	0	0	0	0	0	0	0	0	0	0	0	47,000		
Compliance Instruments Surrendered to CARB (MT)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Total Monthly Activity (MT)	139,695	5,350	0	13,644	105,000	50,632	30,628	1,600	102,200	12,594	0	0	46,290	507,633		derived
Cumulative MT Account Balance [MTA] (MT)	139,695	145,045	145,045	158,689	263,689	314,321	344,949	346,549	448,749	461,343	461,343	461,343	507,633	507,633		derived
MTA Shortfall (MT)	(139,695)	(113,590)	(75,269)	(41,496)	(96,012)	(134,469)	(134,376)	(89,848)	(156,328)	(134,459)	(97,762)	(58,647)	(53,777)	(53,777)	MTA SHORTFALL	derived

2013 NCPA Air Resources Bill LEC GHG Compliance Instrument Detail Report for the Lodi Energy Center				2014 NCPA Air Resources Bill LEC GHG Compliance Instrument Detail Report for the Lodi Energy Center												
	Actual					Estimated							Compliance Year 2014	Cumulative Totals		
IDENTIFIER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	Total	Total	Charge Code	Source
Energy (MWh)	136,604	156,089	106,773	52,830	103,992	100,100	122,492	94,615	92,091	98,739	73,883	76,346	1,214,554	2,425,498		Forecast/Meter
Gas Schedule (MMBtu)	951,700	1,092,730	747,410	369,812	727,946	700,697	857,444	662,305	644,637	691,173	517,181	534,420	8,497,455	17,060,779		Forecast/Meter
Emissions Factor (MT/MMBtu)	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053				MARS
Monthly MT Emissions (MT)	50,440	57,915	39,613	19,600	38,581	37,137	45,445	35,102	34,166	36,632	27,411	28,324	450,365	904,221		derived
Cumulative MT Obligation (MT)	504,296	562,211	601,824	621,424	660,005	697,142	742,586	777,689	811,854	848,486	875,897	904,221		904,221		derived
Compliance Instrument Participant Transfers (to LEC)																
Auction Allowances	102,347	50,000	48,066	0	0	0	0	0	0	0	0	0	200,413	661,046		CITSS
Secondary Market Allowances	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Reserve Sale Allowances	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Offsets	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Total Compliance Instrument Participant Transfers (MT)	102,347	50,000	48,066	0	0	0	0	0	0	0	0	0	200,413	661,046		
NCPA Compliance Instrument Purchases (for LEC)																
Auction Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	47,000		CITSS
Secondary Market Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Reserve Sale Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Offset Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Total NCPA Compliance Instrument Purchases (MT)	0	0	0	0	0	0	0	0	0	0	0	0	0	47,000		
Compliance Instruments Surrendered to CARB (MT)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		CITSS
Total Monthly Activity (MT)	102,347	50,000	48,066	0	0	0	0	0	0	0	0	0	200,413	708,046		derived
Cumulative MT Account Balance [MTA] (MT)	609,980	659,980	708,046	708,046	708,046	708,046	708,046	708,046	708,046	708,046	708,046	708,046		708,046		derived
MTA Shortfall (MT)	(105,684)	(97,769)	(106,222)	(86,622)	(48,041)	(10,904)	34,540	69,643	103,808	140,440	167,851	196,175		196,175	MTA SHORTFALL	derived

NCPA All Resources Bill LEC GHG Obligation Detail Report (Cumulative) April 2014																
IDENTIFIER	AZUSA	BART	BIG	CDWR	GRI	HEA	LOD	LOM	MID	PLU	PWRPA	SNCL	UKI	TOTAL	Charge Code	Source
Allocation Percentages																
Generation Entitlement Share %	2.7857%	6.6000%	0.2679%	33.5000%	1.9643%	1.6428%	9.5000%	2.0357%	10.7143%	0.7857%	2.6679%	25.7500%	1.7857%	100%		MARS
Obligation Accounts																
Current MT Compliance Obligation (MTO) Balance (MT)	17,311	41,014	1,665	208,177	12,207	10,209	59,035	12,650	66,581	4,883	16,579	160,017	11,097	621,424		derived
Current MT Compliance Instrument Account (MTA) Balance (MT)	19,000	62,200	2,159	250,000	15,747	11,666	64,578	24,200	70,000	5,300	18,097	190,000	12,600	745,547		derived
MTA Shortfall (MT)	(1,689)	(21,186)	(494)	(41,823)	(3,540)	(1,457)	(5,543)	(11,550)	(3,419)	(417)	(1,518)	(29,983)	(1,503)	(124,124)	MTA SHORTFALL	Derived
Monthly GHG Price \$/MT	11.74	11.74	11.74	11.74	11.74	11.74	11.74	11.74	11.74	11.74	11.74	11.74	11.74	11.74	MTA SHORTFALL	ICE Index
GHG Minimum Cash Compliance Obligation (\$)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MTA SHORTFALL	Derived
Current Month CCA Balance (\$)*	60,991	0	143	0	1,103	0	0	0	0	0	0	0	6,422	68,659	CCA BALANCE	Accounting
Net GHG Obligation (\$)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NET GHG OBLIG	Derived

* The Current Month CCA Balance (\$) consists of the current cash balance plus any outstanding balance of Net GHG Obligation (\$) billed but not yet received.



Lodi Energy Center Project Participant Committee

Staff Report

AGENDA ITEM NO.: 10

Date: April 14, 2014
To: Lodi Energy Center Project Participant Committee
Subject: AMEC Environment & Infrastructure, Inc. Agreement – All NCPA Facilities

Proposal

Approve a Multi-Task Consulting Services Agreement with AMEC Environment & Infrastructure, Inc. (AMEC) not-to-exceed seven-hundred fifty-thousand dollars (\$750,000) over a five-year period for various engineering services (e.g., civil, environmental, geotechnical, and structural engineering) at all NCPA

Background

Various engineering consulting services are needed at the Generation Services facilities in order to comply with regulatory requirements and to generally maintain the safety, integrity, and operability of the facilities. NCPA-Hydro recently selected (preliminarily) AMEC for its upcoming FERC Part 12D Safety Inspections and Reporting for McKays Point Diversion Dam and New Spicer Meadow Dam.

NCPA has agreements in place with other contractors that provide some similar services including Mead & Hunt, GEI Consultants, Carlton Engineering, and others. NCPA also routinely includes other consultants, with whom we do not have a pre-existing agreement, on RFP solicitations. NCPA will issue purchase orders based on cost and availability of the service(s) needed at the time.

Fiscal Impact

Total cost of the agreement is not-to-exceed seven-hundred fifty-thousand dollars (\$750,000) over the five-year term to be used out of NCPA approved budgets as services are rendered. Purchase orders referencing the terms and conditions of the Agreement will be issued following NCPA procurement policies and procedures.

Environmental Analysis

This activity would not result in a direct or reasonably foreseeable indirect change in the physical environment and is therefore not a “project” for purposes of Section 21065 the California Environmental Quality Act. No environmental review is necessary.

Recommendation

Staff recommends that the PPC pass a motion approving the Multi-Task Consulting Services Agreement with AMEC Environment and Infrastructure, Inc., with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed seven-hundred fifty-thousand dollars (\$750,000) over five years.

Submitted by:

KEN SPEER, Assistant General Manager Generation Services

Attachment: Multi-Task General Services Agreement with Servo Con Associates, Inc.



**MULTI-TASK
CONSULTING SERVICES AGREEMENT BETWEEN
THE NORTHERN CALIFORNIA POWER AGENCY AND
AMEC ENVIRONMENT & INFRASTRUCTURE, INC.**

This agreement for consulting services ("Agreement") is made by and between the Northern California Power Agency, a joint powers agency with its main office located at 651 Commerce Drive, Roseville, CA 95678-6420 ("Agency") and AMEC Environment & Infrastructure, Inc. (Consultant), a corporation with its office located at 2101 Webster Street, 12th Floor, Oakland, CA 94612-3066 ("Consultant") (together sometimes referred to as the "Parties") as of _____, 2014 ("Effective Date") in Roseville, California.

Section 1. SERVICES. Subject to the terms and conditions set forth in this Agreement, Consultant is willing to provide to Agency the range of services described in the Scope of Work attached hereto as Exhibit A and incorporated herein ("Services").

- 1.1 **Term of Agreement.** The term of this Agreement shall begin on the Effective Date and shall end when Consultant completes the Services, or no later than five (5) years from the date this Agreement was signed by Agency, whichever is shorter.
- 1.2 **Standard of Performance.** Consultant shall perform the Services in the manner and according to the standards observed by a competent practitioner of the profession in which Consultant is engaged and for which Consultant is providing the Services. Consultant represents that it is licensed, qualified and experienced to provide the Services set forth herein.
- 1.3 **Assignment of Personnel.** Consultant shall assign only competent personnel to perform the Services. In the event that Agency, in its sole discretion, at any time during the term of this Agreement, requests the reassignment of any such personnel, Consultant shall, immediately upon receiving written notice from Agency of such request, reassign such personnel.
- 1.4 **Request for Services.** At such time that Agency determines to use Consultant's Services under this Agreement, Agency shall issue a Purchase Order. The Purchase Order shall identify the specific services to be performed ("Requested Services"), may include a not-to-exceed monetary cap on Requested Services and expenditures authorized by that Purchase Order, and a time by which the Requested Services shall be completed.

Section 2. COMPENSATION. Agency hereby agrees to pay Consultant an amount **NOT TO EXCEED** seven-hundred fifty-thousand dollars (\$750,000) for the Services, which shall include all fees, costs, expenses and other reimbursables, as set forth in Consultant's fee schedule, attached hereto and incorporated herein as Exhibit B. This dollar amount is not a guarantee that Agency will pay that full amount to the Consultant, but is merely a limit of potential Agency expenditures under this Agreement.

2.1 **Invoices.** Consultant shall submit invoices, not more often than once a month during the term of this Agreement, based on the cost for services performed and reimbursable costs incurred prior to the invoice date. Invoices shall contain the following information:

- The beginning and ending dates of the billing period;
- Services performed;
- The Purchase Order number authorizing the Requested Services;
- At Agency's option, the total number of hours of work performed under the Agreement by Consultant and each employee, agent, and subcontractor of Consultant performing services hereunder.
- At Agency's option, for each work item in each task, a copy of the applicable time entries showing the name of the person doing the work, the hours spent by each person, a brief description of the work, and each reimbursable expense, with supporting documentation;

Invoices shall be sent to:

Northern California Power Agency
651 Commerce Drive
Roseville, California 95678
Attn: Accounts Payable

2.2 **Monthly Payment.** Agency shall make monthly payments, based on invoices received, for services satisfactorily performed, and for authorized reimbursable costs incurred. Agency shall have thirty (30) days from the receipt of an invoice that complies with all of the requirements above to pay Consultant.

2.3 **Payment of Taxes.** Consultant is solely responsible for the payment of all federal, state and local taxes, including employment taxes, incurred under this Agreement.

2.4 **Authorization to Perform Services.** The Consultant is not authorized to perform any services or incur any costs whatsoever under the terms of this Agreement until receipt of a Purchase Order from the Contract Administrator.

2.5 **Timing for Submittal of Final Invoice.** Consultant shall have ninety (90) days after completion of the Requested Services to submit its final invoice for the Requested Services. In the event Consultant fails to submit an invoice to Agency for any amounts due within the ninety (90) day period, Consultant is deemed to have waived its right to collect its final payment for the Requested Services from Agency.

Section 3. FACILITIES AND EQUIPMENT. Except as set forth herein, Consultant shall, at its sole cost and expense, provide all facilities and equipment that may be necessary to perform the Services.

Section 4. INSURANCE REQUIREMENTS. Before beginning any work under this Agreement, Consultant, at its own cost and expense, shall procure the types and amounts of insurance listed below and shall maintain the types and amounts of insurance listed below for the period covered by this Agreement.

4.1 Workers' Compensation. If Consultant employs any person, Consultant shall maintain Statutory Workers' Compensation Insurance and Employer's Liability Insurance for any and all persons employed directly or indirectly by Consultant with limits of not less than one million dollars (\$1,000,000.00) per accident.

4.2 Commercial General and Automobile Liability Insurance.

4.2.1 Commercial General Insurance. Consultant shall maintain commercial general liability insurance for the term of this Agreement, including products liability, covering any loss or liability, including the cost of defense of any action, for bodily injury, death, personal injury and broad form property damage which may arise out of the operations of Consultant. The policy shall provide a minimum limit of \$1,000,000 per occurrence/\$2,000,000 aggregate. Commercial general coverage shall be at least as broad as ISO Commercial General Liability form CG 0001 (current edition) on "an occurrence" basis covering comprehensive General Liability, with a self-insured retention or deductible of no more than \$100,000. No endorsement shall be attached limiting the coverage.

4.2.2 Automobile Liability. Consultant shall maintain automobile liability insurance form CA 0001 (current edition) for the term of this Agreement covering any loss or liability, including the cost of defense of any action, arising from the operation, maintenance or use of any vehicle (symbol 1), whether or not owned by the Consultant, on or off Agency premises. The policy shall provide a minimum limit of \$1,000,000 per each accident, with a self-insured retention or deductible of no more than \$100,000. This insurance shall provide contractual liability covering all motor vehicles and mobile equipment to the extent coverage may be excluded from general liability insurance.

4.2.3 General Liability/Umbrella Insurance. The coverage amounts set forth above may be met by a combination of underlying and umbrella policies as long as in combination the limits equal or exceed those stated.

4.3 Professional Liability Insurance. Consultant shall maintain professional liability insurance appropriate to Consultant's profession performing work in connection with this Agreement in an amount not less than one million dollars (\$1,000,000.00) and two million dollars (\$2,000,000) aggregate covering the Consultant's errors and omissions. Any deductible or self-insured retention shall not exceed two hundred fifty thousand dollars (\$250,000) per claim.

4.4 All Policies Requirements.

- 4.4.1 **Verification of coverage.** Prior to beginning any work under this Agreement, Contractor shall provide Agency with (1) a Certificate of Insurance that demonstrates compliance with all applicable insurance provisions contained herein and (2) policy endorsements to the policies referenced in Section 4.2, adding the Agency as an additional insured and declaring such insurance primary in regard to work performed pursuant to this Agreement.
- 4.4.2 **Notice of Reduction in or Cancellation of Coverage.** Consultant shall provide at least thirty (30) days prior written notice to Agency of any reduction in scope or amount, cancellation, or modification adverse to Agency of the policies referenced in Section 4.
- 4.4.3 **Higher Limits.** If Consultant maintains higher limits than the minimums specified herein, the Agency shall be entitled to coverage for the higher limits maintained by the Consultant.
- 4.5 **Waiver of Subrogation.** Consultant agrees to waive subrogation which any insurer of Consultant may acquire from Consultant by virtue of the payment of any loss. Consultant agrees to obtain any endorsement that may be necessary to effect this waiver of subrogation. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of Agency for all work performed by Consultant, its employees, agents and subcontractors.
- 4.6 **Consultant's Obligation.** Consultant shall be solely responsible for ensuring that all equipment, vehicles and other items utilized in the performance of Services are operated, provided or otherwise utilized in a manner that ensures they are and remain covered by the policies referenced in Section 4 during this Agreement. Consultant shall also ensure that all workers involved in the provision of Services are properly classified as employees, agents or independent contractors and are and remain covered by any and all workers' compensation insurance required by applicable law during this Agreement.

Section 5. INDEMNIFICATION AND CONSULTANT'S RESPONSIBILITIES.

- 5.1 **Effect of Insurance.** Agency's acceptance of insurance certificates and endorsements required under this Agreement does not relieve Consultant from liability under this indemnification and hold harmless clause. This indemnification and hold harmless clause shall apply to any damages or claims for damages whether or not such insurance policies shall have been determined to apply. By execution of this Agreement, Consultant acknowledges and agrees to the provisions of this Section and that it is a material element of consideration.
- 5.2 **Scope.** Consultant shall indemnify, defend with counsel reasonably acceptable to the Agency, and hold harmless the Agency and its officials, commissioners, officers,

employees, and volunteers from and against any and all claims that arise out of, pertain to or relate to the negligence, recklessness or willful misconduct of the Consultant in its performance of Services under this Agreement. Consultant shall bear all losses, costs, damages, expense and liability of every kind, nature and description that arise out of, pertain to, or relate to such claims, whether directly or indirectly ("Liabilities"). Such obligations to defend, hold harmless and indemnify the Agency shall not apply to the extent that such Liabilities are caused by the sole negligence, active negligence, or willful misconduct of the Agency.

Section 6. STATUS OF CONSULTANT.

- 6.1 **Independent Contractor.** Consultant is an independent contractor and not an employee of Agency. Agency shall have the right to control Consultant only insofar as the results of Consultant's Services and assignment of personnel pursuant to Section 1; otherwise, Agency shall not have the right to control the means by which Consultant accomplishes Services rendered pursuant to this Agreement. Notwithstanding any other Agency, state, or federal policy, rule, regulation, law, or ordinance to the contrary, Consultant and any of its employees, agents, and subcontractors providing services under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any and all claims to, any compensation, benefit, or any incident of employment by Agency, including but not limited to eligibility to enroll in the California Public Employees Retirement System (PERS) as an employee of Agency and entitlement to any contribution to be paid by Agency for employer contributions and/or employee contributions for PERS benefits.

Consultant shall indemnify, defend, and hold harmless Agency for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of Agency. Consultant and Agency acknowledge and agree that compensation paid by Agency to Consultant under this Agreement is based upon Consultant's estimated costs of providing the Services, including salaries and benefits of employees, agents and subcontractors of Consultant.

- 6.2 **Consultant Not Agent.** Except as Agency may specify in writing, Consultant shall have no authority, express or implied, to act on behalf of Agency in any capacity whatsoever as an agent. Consultant shall have no authority, express or implied, pursuant to this Agreement to bind Agency to any obligation whatsoever.
- 6.3 **Assignment and Subcontracting.** This Agreement contemplates personal performance by Consultant and is based upon a determination of Consultant's unique professional competence, experience, and specialized professional knowledge. A substantial inducement to Agency for entering into this Agreement was and is the personal reputation and competence of Consultant. Consultant may not assign this Agreement or any interest therein without the prior written approval of the Agency. Consultant shall not subcontract

any portion of the performance contemplated and provided for herein, other than to the subcontractors identified in Exhibit A, without prior written approval of the Agency. Where written approval is granted by the Agency, Consultant shall supervise all work subcontracted by Consultant in performing the services and shall be responsible for all work performed by a subcontractor as if Consultant itself had performed such work. The subcontracting of any work to subcontractors shall not relieve Consultant from any of its obligations under this Agreement with respect to the services and Consultant is obligated to ensure that any and all subcontractors performing any services shall be fully insured in all respects and to the same extent as set forth under Section 4, to Agency's satisfaction.

- 6.4 **Certification as to California Energy Commission.** If requested by the Agency, Consultant shall, at the same time it executes this Agreement, execute Exhibit C.

Section 7. LEGAL REQUIREMENTS.

- 7.1 **Governing Law.** The laws of the State of California shall govern this Agreement.
- 7.2 **Compliance with Applicable Laws.** Consultant and its subcontractors and agents, if any, shall comply with all laws applicable to the performance of the work hereunder.
- 7.3 **Licenses and Permits.** Consultant represents and warrants to Agency that Consultant and its employees, agents, and subcontractors (if any) have and will maintain at their sole expense during the term of this Agreement all licenses, permits, qualifications, and approvals of whatever nature that are legally required to practice their respective professions.
- 7.4 **Work Requiring Payment of Prevailing Wages.** If applicable, in accordance with California Labor Code Section 1771, not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which these services are to be performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed as provided in the California Labor Code shall be paid to all workers engaged in performing the services under this Agreement.

Section 8. TERMINATION AND MODIFICATION.

- 8.1 **Termination.** Agency may cancel this Agreement at any time and without cause upon ten (10) days prior written notice to Consultant.

In the event of termination, Consultant shall be entitled to compensation for Services satisfactorily completed as of the effective date of termination; Agency, however, may condition payment of such compensation upon Consultant delivering to Agency any or all records or documents, as referenced in Section 9.1 hereof.

- 8.2 **Amendments.** The Parties may amend this Agreement only by a writing signed by all the Parties.
- 8.3 **Survival.** All obligations arising prior to the termination of this Agreement and all provisions of this Agreement allocating liability between Agency and Consultant shall survive the termination of this Agreement.
- 8.4 **Options upon Breach by Consultant.** If Consultant materially breaches any of the terms of this Agreement, including but not limited to those set forth in Section 4, Agency's remedies shall include, but not be limited to, the following:
- 8.4.1 Immediately terminate the Agreement;
 - 8.4.2 Retain the plans, specifications, drawings, reports, design documents, and any other work product prepared by Consultant pursuant to this Agreement;
 - 8.4.3 Retain a different consultant to complete the Services not finished by Consultant; and/or
 - 8.4.4 Charge Consultant the difference between the costs to complete the Services that is unfinished at the time of breach and the amount that Agency would have paid Consultant pursuant hereto if Consultant had completed the Services.

Section 9. KEEPING AND STATUS OF RECORDS.

- 9.1 **Records Created as Part of Consultant's Performance.** All reports, data, maps, models, charts, studies, surveys, photographs, memoranda, plans, studies, specifications, records, files, or any other documents or materials, in electronic or any other form, that Consultant prepares or obtains pursuant to this Agreement and that relate to the matters covered hereunder shall be the property of the Agency. Consultant hereby agrees to deliver those documents to the Agency upon termination of the Agreement. Agency and Consultant agree that, unless approved by Agency in writing, Consultant shall not release to any non-parties to this Agreement any data, plans, specifications, reports and other documents.
- 9.2 **Consultant's Books and Records.** Consultant shall maintain any and all records or other documents evidencing or relating to charges for Services or expenditures and disbursements charged to the Agency under this Agreement for a minimum of three (3) years, or for any longer period required by law, from the date of final payment to the Consultant to this Agreement.
- 9.3 **Inspection and Audit of Records.** Any records or documents that this Agreement requires Consultant to maintain shall be made available for inspection, audit, and/or copying at any time during regular business hours, upon oral or written request of the

Agency. Under California Government Code Section 8546.7, if the amount of public funds expended under this Agreement exceeds ten thousand dollars (\$10,000.00), the Agreement shall be subject to the examination and audit of the State Auditor, at the request of Agency or as part of any audit of the Agency, for a period of three (3) years after final payment under the Agreement.

9.4 Confidential Information and Disclosure.

9.4.1 Confidential Information. The term "Confidential Information", as used herein, shall mean any and all confidential, proprietary, or trade secret information, whether written, recorded, electronic, oral or otherwise, where the Confidential Information is made available in a tangible medium of expression and marked in a prominent location as confidential, proprietary and/or trade secret information. Confidential Information shall not include information that: (a) was already known to the Receiving Party or is otherwise a matter of public knowledge, (b) was disclosed to Receiving Party by a third party without violating any confidentiality agreement, (c) was independently developed by Receiving Party without reverse engineering, as evidenced by written records thereof, or (d) was not marked as confidential Information in accordance with this section.

9.4.2 Non-Disclosure of Confidential Information. During the term of this Agreement, either party may disclose ("The Disclosing Party") confidential Information to the other party ("the Receiving Party"). The Receiving Party: (a) shall hold the Disclosing Party's Confidential Information in confidence; and (b) shall take all reasonable steps to prevent any unauthorized possession, use, copying, transfer or disclosure of such Confidential Information.

9.4.3 Permitted Disclosure. Notwithstanding the foregoing, the following disclosures of Confidential Information are allowed. Receiving Party shall endeavor to provide prior written notice to Disclosing Party of any permitted disclosure made pursuant to Section 9.4.3.2 or 9.4.3.3. Disclosing Party may seek a protective order, including without limitation, a temporary restraining order to prevent or contest such permitted disclosure; provided, however, that Disclosing Party shall seek such remedies at its sole expense. Neither party shall have any liability for such permitted disclosures:

9.4.3.1 Disclosure to employees, agents, consultants, contractors, subcontractors or other representatives of Receiving Party that have a need to know in connection with this Agreement.

9.4.3.2 Disclosure in response to a valid order of a court, government or regulatory agency or as may otherwise be required by law; and

9.4.3.3 Disclosure by Agency in response to a request pursuant to the California Public Records Act.

9.4.4 **Handling of Confidential Information.** Conclusion of Agreement. Receiving Party shall return to Disclosing Party or destroy Confidential Information (including all copies thereof) upon termination of this Agreement, if requested by Disclosing Party in writing. Notwithstanding the foregoing, the Receiving Party may retain copies of such Confidential Information, subject to the confidentiality provisions of this Agreement: (a) for archival purposes in its computer system; (b) in its legal department files; and (c) in files of Receiving Party's representatives where such copies are necessary to comply with applicable law. Party shall not disclose the Disclosing Party's Information to any person other than those of the Receiving Party's employees, agents, consultants, contractors and subcontractors who have a need to know in connection with this Agreement.

Section 10 MISCELLANEOUS PROVISIONS.

- 10.1 **Attorneys' Fees.** If a party to this Agreement brings any action, including an action for declaratory relief, to enforce or interpret the provision of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees in addition to any other relief to which that party may be entitled. The court may set such fees in the same action or in a separate action brought for that purpose.
- 10.2 **Venue.** In the event that either party brings any action against the other under this Agreement, the Parties agree that trial of such action shall be vested exclusively in the state courts of California in the County of Placer or in the United States District Court for the Eastern District of California.
- 10.3 **Severability.** If a court of competent jurisdiction finds or rules that any provision of this Agreement is invalid, void, or unenforceable, the provisions of this Agreement not so adjudged shall remain in full force and effect. The invalidity in whole or in part of any provision of this Agreement shall not void or affect the validity of any other provision of this Agreement.
- 10.4 **No Implied Waiver of Breach.** The waiver of any breach of a specific provision of this Agreement does not constitute a waiver of any other breach of that term or any other term of this Agreement.
- 10.5 **Successors and Assigns.** The provisions of this Agreement shall inure to the benefit of and shall apply to and bind the successors and assigns of the Parties.
- 10.6 **Conflict of Interest.** Consultant may serve other clients, but none whose activities within the corporate limits of Agency or whose business, regardless of location, would place

Consultant in a "conflict of interest," as that term is defined in the Political Reform Act, codified at California Government Code Section 81000 *et seq.*

Consultant shall not employ any Agency official in the work performed pursuant to this Agreement. No officer or employee of Agency shall have any financial interest in this Agreement that would violate California Government Code Sections 1090 *et seq.*

- 10.7 **Contract Administrator.** This Agreement shall be administered by Ken Speer, Assistant General Manager, or his/her designee, who shall act as the Agency's representative. All correspondence shall be directed to or through the representative

- 10.8 **Notices.** Any written notice to Consultant shall be sent to:

AMEC Environment & Infrastructure, Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612-3066

Any written notice to Agency shall be sent to:

James H. Pope
General Manager
Northern California Power Agency
651 Commerce Drive
Roseville, CA 95678

With a copy to:

Michael F. Dean
General Counsel
Northern California Power Agency
Meyers Nave
555 Capitol Mall, Suite 1200
Sacramento, CA 95814

- 10.9 **Professional Seal.** Where applicable in the determination of the Agency, the first page of a technical report, first page of design specifications, and each page of construction drawings shall be stamped/sealed and signed by the licensed professional responsible for the report/design preparation.

- 10.10 **Integration; Incorporation.** This Agreement, including all the exhibits attached hereto, represents the entire and integrated agreement between Agency and Consultant and supersedes all prior negotiations, representations, or agreements, either written or oral. All exhibits attached hereto are incorporated by reference herein.

- 10.11 **Alternative Dispute Resolution.** If any dispute arises between the Parties that cannot be settled after engaging in good faith negotiations, Agency and Consultant agree to resolve the dispute in accordance with the following:
- 10.11.1 Each party shall designate a senior management or executive level representative to negotiate any dispute;
 - 10.11.2 The representatives shall attempt, through good faith negotiations, to resolve the dispute by any means within their authority.
 - 10.11.3 If the issue remains unresolved after fifteen (15) days of good faith negotiations, the Parties shall attempt to resolve the disagreement by negotiation between legal counsel. If the above process fails, the Parties shall resolve any remaining disputes through mediation to expedite the resolution of the dispute.
 - 10.11.4 The mediation process shall provide for the selection within fifteen (15) days by both Parties of a disinterested third person as mediator, shall be commenced within thirty (30) days and shall be concluded within fifteen (15) days from the commencement of the mediation.
 - 10.11.5 The Parties shall equally bear the costs of any third party in any alternative dispute resolution process.
 - 10.11.6 The alternative dispute resolution process is a material condition to this Agreement and must be exhausted as an administrative prior to either Party initiating legal action. This alternative dispute resolution process is not intended to nor shall be construed to change the time periods for filing a claim or action specified by Government Code §§ 900 *et seq.*
- 10.12 **Controlling Provisions.** In the case of any conflict between the terms of this Agreement and the Exhibits hereto, and Consultant's Proposal (if any), the Agreement shall control. In the case of any conflict between the Exhibits hereto and the Consultant's Proposal, the Exhibits shall control.
- 10.13 **Counterparts.** This Agreement may be executed in multiple counterparts, each of which shall be an original and all of which together shall constitute one agreement.
- 10.14 **Construction of Agreement.** Each party hereto has had an equivalent opportunity to participate in the drafting of the Agreement and/or to consult with legal counsel. Therefore, the usual construction of an agreement against the drafting party shall not apply hereto.
- 10.15 **No Third Party Beneficiaries.** This Agreement is made solely for the benefit of the parties hereto, with no intent to benefit any non-signatory third parties.

The Parties have executed this Agreement as of the date signed by the Agency.

NORTHERN CALIFORNIA POWER AGENCY

AMEC ENVIRONMENT & INFRASTRUCTURE,
INC.

Date_____

Date_____

JAMES H. POPE, General Manager

FAIZ I. MAKDISI, Principal Engineer,
Authorized Signatory

Attest:

Assistant Secretary of the Commission

Approved as to Form:

Assistant General Counsel

EXHIBIT A

SCOPE OF SERVICES

Consultant may provide services as requested by Agency at any one of its facilities. In accordance with the agreement, the specific scope of services and associated fee will be defined by individual Purchase Orders. The Consultant's scope of services may include:

- Dam Safety Engineering in accordance with 18CFR12D;
- Civil, environmental, geotechnical, and structural engineering;
- Consulting related to geology, hydrology, or hydraulics;
- Mapping/surveying/GIS;
- Development of construction drawings, plans, specifications, technical documents, reports, and presentations;
- Engineering inspection and construction observation and testing; and
- Other miscellaneous engineering tasks.

EXHIBIT B

COMPENSATION SCHEDULE AND HOURLY FEES

Compensation for all tasks, including hourly fees and expenses, shall not exceed \$750,000. The hourly rates and or compensation break down and an estimated amount of expenses is as follows:

AMEC ENVIRONMENT & INFRASTRUCTURE, INC.
BAY AREA SCHEDULE OF CHARGES
AS OF APRIL 1, 2013

The hourly rates set forth below are valid from April 1, 2013 and are subject to a 3% annual escalation in 2014 and 5% annual escalations in 2015 and thereafter. NCPA (referred to as CLIENT in this Schedule of Charges) agrees to reimburse AMEC at one and one half times or two times the associated rate/hour for non-exempt staff when AMEC is required by statute to pay the associated overtime premium.

LABOR:

CLIENT agrees to reimburse AMEC for all hours worked by professionals at the following categories and associated hourly labor rates. Charges for expert services will be at the hourly rates shown. However, for depositions and court appearances, CLIENT agrees to reimburse AMEC for all hours worked by professionals at the following classifications, but at two times the associated hourly labor rates. There will be a 4-hour minimum per-day charge for depositions and an 8-hour minimum per-day charge for court appearances.

LABOR CATEGORY	HOURLY RATE
Principal	\$250-350
Senior Associate	\$200-250
Associate	\$195
Senior 2	\$185
Senior 1	\$165
Technical Professional 3	\$145
Technical Professional 2	\$125
Technical Professional 1	\$115
Senior Technician	\$ 95
Technician	\$ 90
Technical Editor	\$ 95
Project Administrator	\$ 75
Support Staff	\$ 70

Time spent in travel in the interest of the client will be charged at hourly rates, except that no more than 8 hours of travel time will be charged in any day.

MISCELLANEOUS EXPENSES:

CLIENT agrees to reimburse AMEC for miscellaneous expenses incurred, such as consumable supplies, telephone & facsimile charges, photo processing and small tools, etc., not otherwise invoiced as other direct expenses, at the rate of 4% of labor charges.

ESCALATION:

CLIENT agrees that hourly labor rates are subject to a 3% annual escalation beginning January 1, 2014 and 5% annual escalations thereafter beginning January 1, 2015.

OTHER DIRECT EXPENSES:

CLIENT agrees to reimburse AMEC for all other direct expenses incurred at cost plus 15%. Common outside items include: consultants, drilling services, laboratory testing, equipment and vehicle rental, printing and photographic work, postage and shipping, conference calls, travel and transportation.

UNIT PRICING:

Any unit pricing work, such as in-house equipment rental, laboratory analysis, etc. will be quoted separately upon request.

AMEC is an Equal Opportunity/Affirmative Action Employer, and as such adhere to all applicable federal, state, and local laws and regulations in this regard.

NOTE: As a public agency, NCPA shall not reimburse Consultant for travel, food and related costs in excess of those permitted by the Internal Revenue Service.

EXHIBIT C

CERTIFICATION

Affidavit of Compliance for Consultants

I,

(Name of person signing affidavit)(Title)

do hereby certify that background investigations to ascertain the accuracy of the identity and employment history of all employees of AMEC Environment & Infrastructure, Inc. for contract work at _____ have been conducted as required by the California Energy Commission Decision for the above-named project.

(Signature of officer or agent)

Dated this _____ day of _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.



Lodi Energy Center Project Participant Committee

Staff Report

AGENDA ITEM NO.: 11

Date:

To: Lodi Energy Center Project Participant Committee

Subject: American Power Systems, LLC Agreement for battery testing/maintenance services – All NCPA Sites

Proposal

Approve a Multi-Task General Services Agreement with American Power Systems, LLC for an amount not-to-exceed \$260,000 over five years to be used for battery testing/maintenance services as needed at all NCPA Facilities.

Background

Various battery testing/maintenance services are required at the NCPA locations from time to time for operations and maintenance. American Power Systems, LLC is a provider of these services. NCPA does not have any other agreements in place with vendors providing similar services at this time. NCPA routinely includes other consultants, with whom we do not have a pre-existing agreement, on RFP solicitations. NCPA will issue purchase orders based on cost and availability of the service(s) needed at the time.

Fiscal Impact

Total cost of the agreement is not-to-exceed \$260,000 over five years to be used out of NCPA approved budgets as services are rendered. Purchase orders referencing the terms and conditions of the Agreement will be issued following NCPA procurement policies and procedures.

Environmental Analysis

This activity would not result in a direct or reasonably foreseeable indirect change in the physical environment and is therefore not a “project” for purposes of Section 21065 the California Environmental Quality Act. No environmental review is necessary.

Recommendation

Staff recommends that the PPC pass a motion approving the Multi-Task General Services Agreement with American Power Systems, LLC, with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$260,000 over five years.

Submitted by:

KEN SPEER

Assistant General Manager Generation Services

Attachments: (1)

- Multi-Task General Services Agreement with American Power Systems, LLC.



**MULTI-TASK
GENERAL SERVICES AGREEMENT BETWEEN
THE NORTHERN CALIFORNIA POWER AGENCY AND
AMERICAN POWER SYSTEMS, LLC**

This agreement for general services ("Agreement") is made by and between the Northern California Power Agency, a joint powers agency with its main office located at 651 Commerce Drive, Roseville, CA 95678-6420 ("Agency") and American Power Systems, LLC, a Washington limited liability company with its office located at 26507 79th Avenue S, Kent, WA 98032 ("Contractor") (together sometimes referred to as the "Parties") as of _____, 2014 ("Effective Date") in Roseville, California.

Section 1. SCOPE OF WORK. Subject to the terms and conditions set forth in this Agreement, Contractor is willing to provide to Agency the range of services and/or goods described in the Scope of Work attached hereto as Exhibit A and incorporated herein ("Work").

- 1.1 **Term of Agreement.** The term of this Agreement shall begin on the Effective Date and shall end when Contractor completes the Work, or no later than five (5) years from the date this Agreement was signed by Agency, whichever is shorter.
- 1.2 **Standard of Performance.** Contractor shall perform the Work in the manner and according to the standards observed by a competent practitioner of the profession in which Contractor is engaged and for which Contractor is providing the Work. Contractor represents that it is licensed, qualified and experienced to provide the Work set forth herein.
- 1.3 **Assignment of Personnel.** Contractor shall assign only competent personnel to perform the Work. In the event that Agency, in its sole discretion, at any time during the term of this Agreement, requests the reassignment of any such personnel, Contractor shall, immediately upon receiving written notice from Agency of such request, reassign such personnel.
- 1.4 **Request for Work to be Performed.** At such time that Agency determines to have Contractor perform Work under this Agreement, Agency shall issue a Purchase Order. The Purchase Order shall identify the specific Work to be performed ("Requested Work"), may include a not-to-exceed cap or monetary cap on Requested Work and all related expenditures authorized by that Purchase Order, and shall include a time by which the Requested Work shall be completed. Contractor has the discretion to accept or reject any Purchase Order issued by Agency. Contractor is presumed to have accepted the Purchase Order and agree to perform the Work thereunder unless, within seven (7) days of the date of the Purchase Order, Contractor provides written notice to the Agency of Contractor's rejecting such Purchase Order.

Section 2. COMPENSATION. Agency hereby agrees to pay Contractor an amount **NOT TO EXCEED** two hundred sixty thousand dollars (\$260,000.00) for the Work, which shall include all fees, costs, expenses and other reimbursables, as set forth in Contractor's fee schedule, attached hereto and

incorporated herein as Exhibit B. This dollar amount is not a guarantee that Agency will pay that full amount to the Contractor, but is merely a limit of potential Agency expenditures under this Agreement.

2.1 Invoices. Contractor shall submit invoices, not more often than once a month during the term of this Agreement, based on the cost for services performed and reimbursable costs incurred prior to the invoice date. Invoices shall contain the following information:

- The beginning and ending dates of the billing period;
- Work performed;
- The Purchase Order number authorizing the Requested Work;
- At Agency's option, for each work item in each task, a copy of the applicable time entries or time sheets shall be submitted showing the name of the person doing the work, the hours spent by each person, a brief description of the work, and each reimbursable expense, with supporting documentation;
- At Agency's option, the total number of hours of work performed under the Agreement by Contractor and each employee, agent, and subcontractor of Contractor performing work hereunder.

Invoices shall be sent to:

Northern California Power Agency
651 Commerce Drive
Roseville, California 95678
Attn: Accounts Payable

2.2 Monthly Payment. Agency shall make monthly payments, based on invoices received, for Work satisfactorily performed, and for authorized reimbursable costs incurred. Agency shall have thirty (30) days from the receipt of an invoice that complies with all of the requirements above to pay Contractor.

2.3 Payment of Taxes. Contractor is solely responsible for the payment of all federal, state and local taxes, including employment taxes, incurred under this Agreement; however, the Agency is responsible for all sales taxes incurred by Contractor under this Agreement. Contractor shall remit the sales taxes to the appropriate taxing authority and, pursuant to Section 2.1 of this Agreement, shall invoice the amount of sales taxes remitted to the Agency as reimbursable costs.

2.4 Authorization to Perform Work. The Contractor is not authorized to perform any Work or incur any costs whatsoever under the terms of this Agreement until receipt of a Purchase Order from the Contract Administrator.

2.5 Timing for Submittal of Final Invoice. Contractor shall have ninety (90) days after completion of the Requested Work to submit its final invoice for the Requested Work. In the event Contractor fails to submit an invoice to Agency for any amounts due within the

ninety (90) day period, Contractor is deemed to have waived its right to collect its final payment for the Requested Work from Agency.

Section 3. FACILITIES AND EQUIPMENT. Except as set forth herein, Contractor shall, at its sole cost and expense, provide all facilities and equipment that may be necessary to perform the Work.

Section 4. INSURANCE REQUIREMENTS. Before beginning any Work under this Agreement, Contractor, at its own cost and expense, shall procure the types and amounts of insurance listed below and shall maintain the types and amounts of insurance listed below for the period covered by this Agreement.

4.1 Workers' Compensation. If Contractor employs any person, Contractor shall maintain Statutory Workers' Compensation Insurance and Employer's Liability Insurance for any and all persons employed directly or indirectly by Contractor with limits of not less than one million dollars (\$1,000,000.00) per accident.

4.2 Commercial General and Automobile Liability Insurance.

4.2.1 Commercial General Insurance. Contractor shall maintain commercial general liability insurance for the term of this Agreement, including products liability, covering any loss or liability, including the cost of defense of any action, for bodily injury, death, personal injury and broad form property damage which may arise out of the operations of Contractor. The policy shall provide a minimum limit of \$1,000,000 per occurrence/\$2,000,000 aggregate. Commercial general coverage shall be at least as broad as ISO Commercial General Liability form CG 0001 (current edition) on "an occurrence" basis covering comprehensive General Liability, with a self-insured retention or deductible of no more than \$100,000. No endorsement shall be attached limiting the coverage.

4.2.2 Automobile Liability. Contractor shall maintain automobile liability insurance form CA 0001 (current edition) for the term of this Agreement covering any loss or liability, including the cost of defense of any action, arising from the operation, maintenance or use of any vehicle (symbol 1), whether or not owned by the Contractor, on or off Agency premises. The policy shall provide a minimum limit of \$1,000,000 per each accident, with a self-insured retention or deductible of no more than \$100,000. This insurance shall provide contractual liability covering all motor vehicles and mobile equipment to the extent coverage may be excluded from general liability insurance.

4.2.3 General Liability/Umbrella Insurance. The coverage amounts set forth above may be met by a combination of underlying and umbrella policies as long as in combination the limits equal or exceed those stated.

4.3 Professional Liability Insurance. Contractor shall maintain professional liability insurance appropriate to Contractor's profession performing work in connection with this

Agreement in an amount not less than one million dollars (\$1,000,000.00) and two million dollars (\$2,000,000) aggregate covering the Contractor's errors and omissions. Any deductible or self-insured retention shall not exceed two hundred fifty thousand dollars (\$250,000.00) per claim.

4.4 All Policies Requirements.

4.4.1 Verification of coverage. Prior to beginning any work under this Agreement, Contractor shall provide Agency with (1) a Certificate of Insurance that demonstrates compliance with all applicable insurance provisions contained herein and (2) policy endorsements to the policies referenced in Section 4.2, adding the Agency as an additional insured and declaring such insurance primary in regard to work performed pursuant to this Agreement.

4.4.2 Notice of Reduction in or Cancellation of Coverage. Contractor shall provide at least thirty (30) days prior written notice to Agency of any reduction in scope or amount, cancellation, or modification adverse to Agency of the policies referenced in Section 4.

4.4.3 Higher Limits. If Contractor maintains higher limits than the minimums specified herein, the Agency shall be entitled to coverage for the higher limits maintained by the Contractor.

4.5 Waiver of Subrogation. Contractor agrees to waive subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss. Contractor agrees to obtain any endorsement that may be necessary to effect this waiver of subrogation. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of Agency for all work performed by Contractor, its employees, agents and subcontractors.

4.6 Contractor's Obligation. Contractor shall be solely responsible for ensuring that all equipment, vehicles and other items utilized in the performance of Work are operated, provided or otherwise utilized in a manner that ensures they are and remain covered by the policies referenced in Section 4 during this Agreement. Contractor shall also ensure that all workers involved in the provision of Work are properly classified as employees, agents or independent contractors and are and remain covered by any and all workers' compensation insurance required by applicable law during this Agreement.

Section 5. INDEMNIFICATION AND CONTRACTOR'S RESPONSIBILITIES.

5.1 Effect of Insurance. Agency's acceptance of insurance certificates and endorsements required under this Agreement does not relieve Contractor from liability under this indemnification and hold harmless clause. This indemnification and hold harmless clause shall apply to any damages or claims for damages whether or not such insurance policies

shall have been determined to apply. By execution of this Agreement, Contractor acknowledges and agrees to the provisions of this section and that it is a material element of consideration.

- 5.2 Scope.** Contractor shall indemnify, defend with counsel reasonably acceptable to the Agency, and hold harmless the Agency and its officials, commissioners, officers, employees, and volunteers from and against any and all claims that arise out of, pertain to or relate to the negligence, recklessness or willful misconduct of the Contractor in its performance of Work under this Agreement. Contractor shall bear all losses, costs, damages, expense and liability of every kind, nature and description that arise out of, pertain to, or relate to such claims, whether directly or indirectly ("Liabilities"). Such obligations to defend, hold harmless and indemnify the Agency shall not apply to the extent that such Liabilities are caused by the sole negligence, active negligence, or willful misconduct of the Agency.

Section 6. STATUS OF CONTRACTOR.

- 6.1 Independent Contractor.** Contractor is an independent contractor and not an employee of Agency. Agency shall have the right to control Contractor only insofar as the results of Contractor's Work and assignment of personnel pursuant to Section 1; otherwise, Agency shall not have the right to control the means by which Contractor accomplishes Work rendered pursuant to this Agreement. Notwithstanding any other Agency, state, or federal policy, rule, regulation, law, or ordinance to the contrary, Contractor and any of its employees, agents, and subcontractors providing services under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any and all claims to, any compensation, benefit, or any incident of employment by Agency, including but not limited to eligibility to enroll in the California Public Employees Retirement System (PERS) as an employee of Agency and entitlement to any contribution to be paid by Agency for employer contributions and/or employee contributions for PERS benefits.

Contractor shall indemnify, defend, and hold harmless Agency for the payment of any employee and/or employer contributions for PERS benefits on behalf of Contractor or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of Agency. Contractor and Agency acknowledge and agree that compensation paid by Agency to Contractor under this Agreement is based upon Contractor's estimated costs of providing the Work, including salaries and benefits of employees, agents and subcontractors of Contractor.

- 6.2 Contractor Not Agent.** Except as Agency may specify in writing, Contractor shall have no authority, express or implied, to act on behalf of Agency in any capacity whatsoever as an agent. Contractor shall have no authority, express or implied, pursuant to this Agreement to bind Agency to any obligation whatsoever.

- 6.3 **Assignment and Subcontracting.** This Agreement contemplates personal performance by Contractor and is based upon a determination of Contractor's unique professional competence, experience, and specialized professional knowledge. A substantial inducement to Agency for entering into this Agreement was and is the personal reputation and competence of Contractor. Contractor may not assign this Agreement or any interest therein without the prior written approval of the Agency. Contractor shall not subcontract any portion of the performance contemplated and provided for herein, other than to the subcontractors identified in Exhibit A, without prior written approval of the Agency. Where written approval is granted by the Agency, Contractor shall supervise all work subcontracted by Contractor in performing the Work and shall be responsible for all work performed by a subcontractor as if Contractor itself had performed such Work. The subcontracting of any work to subcontractors shall not relieve Contractor from any of its obligations under this Agreement with respect to the Work and Contractor is obligated to ensure that any and all subcontractors performing any Work shall be fully insured in all respects and to the same extent as set forth under Section 4, to Agency's satisfaction.
- 6.4 **Certification as to California Energy Commission.** If requested by the Agency, Contractor shall, at the same time it executes this Agreement, execute Exhibit C.

Section 7. LEGAL REQUIREMENTS.

- 7.1 **Governing Law.** The laws of the State of California shall govern this Agreement.
- 7.2 **Compliance with Applicable Laws.** Contractor and its subcontractors and agents, if any, shall comply with all laws applicable to the performance of the work hereunder.
- 7.3 **Licenses and Permits.** Contractor represents and warrants to Agency that Contractor and its employees, agents, and subcontractors (if any) have and will maintain at their sole expense during the term of this Agreement all licenses, permits, qualifications, and approvals of whatever nature that are legally required to practice their respective professions.
- 7.4 **Work Requiring Payment of Prevailing Wages.** If applicable, in accordance with California Labor Code Section 1771, not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which these services are to be performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed as provided in the California Labor Code shall be paid to all workers engaged in performing the services under this Agreement.

Section 8. TERMINATION AND MODIFICATION.

- 8.1 **Termination.** Agency may cancel this Agreement at any time and without cause upon ten (10) days prior written notice to Contractor.

In the event of termination, Contractor shall be entitled to compensation for Work satisfactorily completed as of the effective date of termination; Agency, however, may condition payment of such compensation upon Contractor delivering to Agency any or all records or documents (as referenced in Section 9.1 hereof).

8.2 Amendments. The Parties may amend this Agreement only by a writing signed by all the Parties.

8.3 Survival. All obligations arising prior to the termination of this Agreement and all provisions of this Agreement allocating liability between Agency and Contractor shall survive the termination of this Agreement.

8.4 Options upon Breach by Contractor. If Contractor materially breaches any of the terms of this Agreement, including but not limited to those set forth in Section 4, Agency's remedies shall include, but not be limited to, the following:

8.4.1 Immediately terminate the Agreement;

8.4.2 Retain the plans, specifications, drawings, reports, design documents, and any other work product prepared by Contractor pursuant to this Agreement;

8.4.3 Retain a different Contractor to complete the Work not finished by Contractor; and/or

8.4.4 Charge Contractor the difference between the costs to complete the Work that is unfinished at the time of breach and the amount that Agency would have paid Contractor pursuant hereto if Contractor had completed the Work.

Section 9. KEEPING AND STATUS OF RECORDS.

9.1 Records Created as Part of Contractor's Performance. All reports, data, maps, models, charts, studies, surveys, photographs, memoranda, plans, specifications, records, files, or any other documents or materials, in electronic or any other form, that Contractor prepares or obtains pursuant to this Agreement and that relate to the matters covered hereunder shall be the property of the Agency. Contractor hereby agrees to deliver those documents to the Agency upon termination of the Agreement. Agency and Contractor agree that, unless approved by Agency in writing, Contractor shall not release to any non-parties to this Agreement any data, plans, specifications, reports and other documents, except as permitted under Section 9.4.3.

9.2 Contractor's Books and Records. Contractor shall maintain any and all records or other documents evidencing or relating to charges for Work or expenditures and disbursements charged to the Agency under this Agreement for a minimum of three (3) years, or for any longer period required by law, from the date of final payment to the Contractor to this Agreement.

9.3 Inspection and Audit of Records. Any records or documents that this Agreement requires Contractor to maintain shall be made available for inspection, audit, and/or copying at any time during regular business hours, upon oral or written request of the Agency. Under California Government Code Section 8546.7, if the amount of public funds expended under this Agreement exceeds ten thousand dollars (\$10,000.00), the Agreement shall be subject to the examination and audit of the State Auditor, at the request of Agency or as part of any audit of the Agency, for a period of three (3) years after final payment under the Agreement.

9.4 Confidential Information and Disclosure.

9.4.1 Confidential Information. The term "Confidential Information", as used herein, shall mean any and all confidential, proprietary, or trade secret information, whether written, recorded, electronic, oral or otherwise, where the Confidential Information is made available in a tangible medium of expression and marked in a prominent location as confidential, proprietary and/or trade secret information. Confidential Information shall not include information that: (a) was already known to the Receiving Party or is otherwise a matter of public knowledge, (b) was disclosed to Receiving Party by a third party without violating any confidentiality agreement, (c) was independently developed by Receiving Party without reverse engineering, as evidenced by written records thereof, or (d) was not marked as confidential Information in accordance with this section.

9.4.2 Non-Disclosure of Confidential Information. During the term of this Agreement, either party may disclose ("The Disclosing Party") confidential Information to the other party ("the Receiving Party"). The Receiving Party: (a) shall hold the Disclosing Party's Confidential Information in confidence; and (b) shall take all reasonable steps to prevent any unauthorized possession, use, copying, transfer or disclosure of such Confidential Information.

9.4.3 Permitted Disclosure. Notwithstanding the foregoing, the following disclosures of Confidential Information are allowed. Receiving Party shall endeavor to provide prior written notice to Disclosing Party of any permitted disclosure made pursuant to Section 9.4.3.2 or 9.4.3.3. Disclosing Party may seek a protective order, including without limitation, a temporary restraining order to prevent or contest such permitted disclosure; provided, however, that Disclosing Party shall seek such remedies at its sole expense. Neither party shall have any liability for such permitted disclosures:

9.4.3.1 Disclosure to employees, agents, contractors, subcontractors or other representatives of Receiving Party that have a need to know in connection with this Agreement.

9.4.3.2 Disclosure in response to a valid order of a court, government or regulatory agency or as may otherwise be required by law; and

9.4.3.3 Disclosure by Agency in response to a request pursuant to the California Public Records Act.

9.4.4 **Handling of Confidential Information.** Conclusion of Agreement. Receiving Party shall return to Disclosing Party or destroy Confidential Information (including all copies thereof) upon termination of this Agreement, if requested by Disclosing Party in writing. Notwithstanding the foregoing, the Receiving Party may retain copies of such Confidential Information, subject to the confidentiality provisions of this Agreement: (a) for archival purposes in its computer system; (b) in its legal department files; and (c) in files of Receiving Party's representatives where such copies are necessary to comply with applicable law. Party shall not disclose the Disclosing Party's Information to any person other than those of the Receiving Party's employees, agents, contractors and subcontractors who have a need to know in connection with this Agreement.

Section 10. PROJECT SITE.

10.1 **Operations at the Project Site.** Each Project site may include the power plant areas, all buildings, offices, and other locations where Work is to be performed, including any access roads. Contractor shall perform the Work in such a manner as to cause a minimum of interference with Agency's operations and the operations of other contractors at the Project site and to protect all persons and property thereon from damage or injury. Upon completion of the Work at a Project site, Contractor shall leave such Project site clean and free of all tools, equipment, waste materials and rubbish, stemming from or relating to Contractor's Work.

10.2 **Contractor's Equipment, Tools, Supplies and Materials.** Contractor shall be solely responsible for the transportation, loading and unloading, and storage of any equipment, tools, supplies or materials required for performing the Work, whether owned, leased or rented. Agency will not be responsible for any such equipment, supplies or materials which may be lost, stolen or damaged or for any additional rental charges for such. Equipment, tools, supplies and materials left or stored at a Project site, with or without permission, is at Contractor's sole risk. Agency may assume that anything left on the Project site an unreasonable length of time after the Work is completed has been abandoned. Any transportation furnished by Agency shall be solely as an accommodation and Agency shall have no liability therefor. Contractor shall assume the risk and is solely responsible for its owned, non-owned and hired automobiles, trucks or other motorized vehicles as well as any equipment, tools, supplies, materials or other property which is utilized by Contractor on the Project site. All materials and supplies used by Contractor in the Work shall be new and in good condition.

- 10.3 **Use of Agency Equipment.** Contractor shall assume the risk and is solely responsible for its use of any Agency owned equipment and property provided by Agency for the performance of Work.

Section 11. WARRANTY.

- 11.1 **Nature of Work.** In addition to any and all warranties provided or implied by law or public policy, Contractor warrants that all Work shall be free from defects in design and workmanship, and that Contractor shall perform all Work in accordance with applicable federal, state, and local laws, rules and regulations including engineering, construction and other codes and standards and prudent electrical utility standards, and in accordance with the terms of this Agreement.
- 11.2 **Deficiencies in Work.** In addition to all other rights and remedies which Agency may have, Agency shall have the right to require, and Contractor shall be obligated at its own expense to perform, all further Work which may be required to correct any deficiencies which result from Contractor's failure to perform any Work in accordance with the standards required by this Agreement. If during the term of this Agreement or the one (1) year period following completion of the Work, any equipment, supplies or other materials or Work used or provided by Contractor under this Agreement fails due to defects in material and/or workmanship or other breach of this Agreement, Contractor shall, upon any reasonable written notice from Agency, replace or repair the same to Agency's satisfaction.
- 11.3 **Assignment of Warranties.** Contractor hereby assigns to Agency all additional warranties, extended warranties, or benefits like warranties, such as insurance, provided by or reasonably obtainable from suppliers of equipment and material used in the Work.

Section 12. HEALTH AND SAFETY PROGRAMS. The Contractor shall establish, maintain, and enforce safe work practices, and implement an accident/incident prevention program intended to ensure safe and healthful operations under their direction. The program shall include all requisite components of such a program under Federal, State and local regulations and shall comply with all Agency site programs.

- 12.1 Contractor is responsible for acquiring job hazard assessments as necessary to safely perform the Work and provide a copy to Agency upon request.
- 12.2 Contractor is responsible for providing all employee health and safety training and personal protective equipment in accordance with potential hazards that may be encountered in performance of the Work and provide copies of the certified training records upon request by Agency. Contractor shall be responsible for proper maintenance and/or disposal of their personal protective equipment and material handling equipment.
- 12.3 Contractor is responsible for ensuring that its lower-tier subcontractors are aware of and will comply with the requirements set forth herein.

- 12.4** Agency, or its representatives, may periodically monitor the safety performance of the Contractor performing the Work. Contractors and its subcontractors shall be required to comply with the safety and health obligations as established in the Agreement. Non-compliance with safety, health, or fire requirements may result in cessation of work activities, until items in non-compliance are corrected. It is also expressly acknowledged, understood and agreed that no payment shall be due from Agency to Contractor under this Agreement at any time when, or for any Work performed when, Contractor is not in full compliance with this Section 12.
- 12.5** Contractor shall immediately report any injuries to the Agency site safety representative. Additionally, the Contractor shall investigate and submit to the Agency site safety representative copies of all written accident reports, and coordinate with Agency if further investigation is requested.
- 12.6** Contractor shall take all reasonable steps and precautions to protect the health of its employees and other site personnel with regard to the Work. Contractor shall conduct occupational health monitoring and/or sampling to determine levels of exposure of its employees to hazardous or toxic substances or environmental conditions. Copies of any sampling results will be forwarded to the Agency site safety representative upon request.
- 12.7** Contractor shall develop a plan to properly handle and dispose of any hazardous wastes, if any, Contractor generates in performing the Work.
- 12.8** Contractor shall advise its employees and subcontractors that any employee, who jeopardizes his/her safety and health, or the safety and health of others, may be subject to actions including removal from Work.
- 12.9** Contractor shall, at the sole option of the Agency, develop and provide to the Agency a Hazardous Material Spill Response Plan that includes provisions for spill containment and clean-up, emergency contact information including regulatory agencies and spill sampling and analysis procedures. Hazardous Materials to include diesel fuel used for trucks owned or leased by the Contractor.

Section 13 MISCELLANEOUS PROVISIONS.

- 13.1 Attorneys' Fees.** If a party to this Agreement brings any action, including an action for declaratory relief, to enforce or interpret the provision of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees in addition to any other relief to which that party may be entitled. The court may set such fees in the same action or in a separate action brought for that purpose.
- 13.2 Venue.** In the event that either party brings any action against the other under this Agreement, the Parties agree that trial of such action shall be vested exclusively in the

state courts of California in the County of Placer or in the United States District Court for the Eastern District of California.

- 13.3 **Severability.** If a court of competent jurisdiction finds or rules that any provision of this Agreement is invalid, void, or unenforceable, the provisions of this Agreement not so adjudged shall remain in full force and effect. The invalidity in whole or in part of any provision of this Agreement shall not void or affect the validity of any other provision of this Agreement.
- 13.4 **No Implied Waiver of Breach.** The waiver of any breach of a specific provision of this Agreement does not constitute a waiver of any other breach of that term or any other term of this Agreement.
- 13.5 **Successors and Assigns.** The provisions of this Agreement shall inure to the benefit of and shall apply to and bind the successors and assigns of the Parties.
- 13.6 **Conflict of Interest.** Contractor may serve other clients, but none whose activities within the corporate limits of Agency or whose business, regardless of location, would place Contractor in a "conflict of interest," as that term is defined in the Political Reform Act, codified at California Government Code Section 81000 *et seq.*

Contractor shall not employ any Agency official in the work performed pursuant to this Agreement. No officer or employee of Agency shall have any financial interest in this Agreement that would violate California Government Code Sections 1090 *et seq.*

- 13.7 **Contract Administrator.** This Agreement shall be administered by Ken Speer, Assistant General Manager, or his/her designee, who shall act as the Agency's representative. All correspondence shall be directed to or through the representative.
- 13.8 **Notices.** Any written notice to Contractor shall be sent to:

American Power Systems, LLC
Jason Gardner
Director of Quality, Safety, Engineering & Training
26507 79th Ave South Kent, WA 98032
Any written notice to Agency shall be sent to:

James H. Pope
General Manager
Northern California Power Agency
651 Commerce Drive
Roseville, CA 95678

With a copy to:

Michael F. Dean
General Counsel
Northern California Power Agency
Meyers Nave
555 Capitol Mall, Suite 1200
Sacramento, CA 95814

- 13.9 Professional Seal.** Where applicable in the determination of the Agency, the first page of a technical report, first page of design specifications, and each page of construction drawings shall be stamped/sealed and signed by the licensed professional responsible for the report/design preparation.
- 13.10 Integration; Incorporation.** This Agreement, including all the exhibits attached hereto, represents the entire and integrated agreement between Agency and Contractor and supersedes all prior negotiations, representations, or agreements, either written or oral. All exhibits attached hereto are incorporated by reference herein.
- 13.11 Alternative Dispute Resolution.** If any dispute arises between the Parties that cannot be settled after engaging in good faith negotiations, Agency and Contractor agree to resolve the dispute in accordance with the following:
- 13.11.1** Each party shall designate a senior management or executive level representative to negotiate any dispute;
 - 13.11.2** The representatives shall attempt, through good faith negotiations, to resolve the dispute by any means within their authority.
 - 13.11.3** If the issue remains unresolved after fifteen (15) days of good faith negotiations, the Parties shall attempt to resolve the disagreement by negotiation between legal counsel. If the above process fails, the Parties shall resolve any remaining disputes through mediation to expedite the resolution of the dispute.
 - 13.11.4** The mediation process shall provide for the selection within fifteen (15) days by both Parties of a disinterested third person as mediator, shall be commenced within thirty (30) days and shall be concluded within fifteen (15) days from the commencement of the mediation.
 - 13.11.5** The Parties shall equally bear the costs of any third party in any alternative dispute resolution process.
 - 13.11.6** The alternative dispute resolution process is a material condition to this Agreement and must be exhausted as an administrative prior to either

Party initiating legal action. This alternative dispute resolution process is not intended to nor shall be construed to change the time periods for filing a claim or action specified by Government Code §§ 900 *et seq.*

- 13.12 Controlling Provisions.** In the case of any conflict between the terms of this Agreement and the Exhibits hereto, and Contractor's Proposal (if any), the Agreement shall control. In the case of any conflict between the Exhibits hereto and the Contractor's Proposal, the Exhibits shall control.
- 13.13 Counterparts.** This Agreement may be executed in multiple counterparts, each of which shall be an original and all of which together shall constitute one agreement.
- 13.14 Construction of Agreement.** Each party hereto has had an equivalent opportunity to participate in the drafting of the Agreement and/or to consult with legal counsel. Therefore, the usual construction of an agreement against the drafting party shall not apply hereto.
- 13.15 No Third Party Beneficiaries.** This Agreement is made solely for the benefit of the parties hereto, with no intent to benefit any non-signator third parties.

The Parties have executed this Agreement as of the date signed by the Agency.

NORTHERN CALIFORNIA POWER AGENCY

AMERICAN POWER SYSTEMS, LLC

Date _____

Date _____

JAMES H. POPE, General Manager

Gary Hughes, Managing Member

Attest:

Assistant Secretary of the Commission
Approved as to Form:

Ruthann G. Ziegler, Assistant General Counsel

EXHIBIT A

SCOPE OF WORK

American Power Systems, LLC ("Contractor") shall provide battery services as requested by the Northern California Power Agency ("Agency").

Services to include, but not be limited to the following:

- Battery Testing – IEEE Capacity, Internal Resistance Capacity
- Battery maintenance – Preventive, Basic, Extended, Customized
- Battery installation
- Battery Monitoring – Central Office, Cell Sites, UPS, Remote, VRLA, Flooded
- Temporary Battery Systems – Hot Cuts, Rentals, Emergencies
- Engineering – designs, layouts, material, logistics
- Project Management – installation and multi-site scheduling
- Installation and Removal – Telecom, UPS, System Upgrades, Central Office, Cell Site, Sub-Station, Remote Sites, Power Plants, Distribution, Batteries, Grounding, Cabling, Iron Work, Buss Work
- Site Audits – Power, Grounding, Infrastructure
- Spill Containment – Telecom, UPS, Utility, VRLA, Flooded
- Logistical Support – Labor, Material Procurement, Site Delivery, Warehousing
- Certified Battery Disposal – Removal and Recycling / Disposal of Lead Acid Batteries
- Training – System Design, Batteries, Power, Applications, Sizing, Safety, Maintenance

EXHIBIT B

COMPENSATION SCHEDULE AND HOURLY FEES

Compensation for all work, including hourly fees and expenses, shall not exceed amount as set forth in Section 2 of this Agreement. The hourly rates and or compensation break down and an estimated amount of expenses is as follows:

Labor Rate, Normal Business Hours = \$95 per hour

Labor Rate, Outside of Normal Business Hours = \$125 per hour

Overnight Travel Expenses, per technician, per night = \$125 per hour

NOTE: As a public agency, NCPA shall not reimburse Contractor for travel, food and related costs in excess of those permitted by the Internal Revenue Service.

EXHIBIT C

CERTIFICATION

Affidavit of Compliance for Contractors

I,

(Name of person signing affidavit)(Title)

do hereby certify that background investigations to ascertain the accuracy of the identity and employment history of all employees of

(Company name)

for contract work at

(Project name and location)

have been conducted as required by the California Energy Commission Decision for the above-named project.

(Signature of officer or agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.

2251868.4



Lodi Energy Center Project Participant Committee

Staff Report

AGENDA ITEM NO.: 12

Date: April 14, 2014
To: Lodi Energy Center Project Participant Committee
Subject: Servo Con Associates, Inc. Agreement for actuator maintenance Services – All NCPA Facilities

Proposal

Approve a five year Multi-Task General Services Agreement with Servo Con Associates, Inc. for an amount not to exceed Three Hundred Fifty Thousand Dollars (\$350,000) to be used for actuator maintenance services at all NCPA facilities as needed.

Background

Various actuator maintenance services (including electrohydraulic control valves, cylinders, pumps, control pacs, etc.) are required at the NCPA locations from time to time for operations and maintenance of the plants. Servo Con Associates, Inc. is a provider of these services. NCPA has recently used this vendor; NCPA would like to have a long term enabling agreement available to use for future service needs. NCPA does not have any other agreements in place with vendors providing similar services at this time. NCPA routinely includes other consultants, with whom we do not have a pre-existing agreement, on RFP solicitations. NCPA will issue purchase orders based on cost and availability of the service(s) needed at the time.

Fiscal Impact

Total cost of the agreement is not-to-exceed \$350,000 over five years to be used out of NCPA approved budgets as services are rendered. Purchase orders referencing the terms and conditions of the Agreement will be issued following NCPA procurement policies and procedures.

Environmental Analysis

This activity would not result in a direct or reasonably foreseeable indirect change in the physical environment and is therefore not a “project” for purposes of Section 21065 the California Environmental Quality Act. No environmental review is necessary.

Recommendation

Staff recommends that the PPC pass a motion approving the Multi-Task General Services Agreement with Servo Con Associates, Inc., with any non-substantial changes recommended and approved by the NCPA General Counsel, which shall not exceed \$350,000 over five years.

Submitted by:

KEN SPEER
Assistant General Manager Generation Services

Attachments: (1)

- Multi-Task General Services Agreement with Servo Con Associates, Inc.



**MULTI-TASK
GENERAL SERVICES AGREEMENT BETWEEN
THE NORTHERN CALIFORNIA POWER AGENCY AND
SERVO CON ASSOCIATES, INC.**

This agreement for general services ("Agreement") is made by and between the Northern California Power Agency, a joint powers agency with its main office located at 651 Commerce Drive, Roseville, CA 95678-6420 ("Agency") and Servo Con Associates, Inc., a corporation with its office located at 167 Expo Road, Fishersville, VA 22939 ("Contractor") (together sometimes referred to as the "Parties") as of _____, 2014 ("Effective Date") in Roseville, California.

Section 1. SCOPE OF WORK. Subject to the terms and conditions set forth in this Agreement, Contractor is willing to provide to Agency the range of services and/or goods described in the Scope of Work attached hereto as Exhibit A and incorporated herein ("Work").

- 1.1 **Term of Agreement.** The term of this Agreement shall begin on the Effective Date and shall end when Contractor completes the Work, or no later than five (5) years from the date this Agreement was signed by Agency, whichever is shorter.
- 1.2 **Standard of Performance.** Contractor shall perform the Work in the manner and according to the standards observed by a competent practitioner of the profession in which Contractor is engaged and for which Contractor is providing the Work. Contractor represents that it is licensed, qualified and experienced to provide the Work set forth herein.
- 1.3 **Assignment of Personnel.** Contractor shall assign only competent personnel to perform the Work. In the event that Agency, in its sole discretion, at any time during the term of this Agreement, requests the reassignment of any such personnel, Contractor shall, immediately upon receiving written notice from Agency of such request, reassign such personnel.
- 1.4 **Request for Work to be Performed.** At such time that Agency determines to have Contractor perform Work under this Agreement, Agency shall issue a Purchase Order. The Purchase Order shall identify the specific Work to be performed ("Requested Work"), may include a not-to-exceed cap on monetary cap on Requested Work and all related expenditures authorized by that Purchase Order, and shall include a time by which the Requested Work shall be completed.

Section 2. COMPENSATION. Agency hereby agrees to pay Contractor an amount **NOT TO EXCEED THREE HUNDRED FIFTY THOUSAND dollars (\$350,000.00)** for the Work, which shall include all fees, costs, expenses and other reimbursables, as set forth in Contractor's fee schedule, attached hereto and incorporated herein as Exhibit B. This dollar amount is not a guarantee that Agency will pay that full amount to the Contractor, but is merely a limit of potential Agency expenditures under this Agreement.

2.1 **Invoices.** Contractor shall submit invoices, not more often than once a month during the term of this Agreement, based on the cost for services performed and reimbursable costs incurred prior to the invoice date. Invoices shall contain the following information:

- The beginning and ending dates of the billing period;
- Work performed;
- The Purchase Order number authorizing the Requested Work;
- At Agency's option, for each work item in each task, a copy of the applicable time entries or time sheets shall be submitted showing the name of the person doing the work, the hours spent by each person, a brief description of the work, and each reimbursable expense, with supporting documentation;
- At Agency's option, the total number of hours of work performed under the Agreement by Contractor and each employee, agent, and subcontractor of Contractor performing work hereunder.

Invoices shall be sent to:

Northern California Power Agency
651 Commerce Drive
Roseville, California 95678
Attn: Accounts Payable

2.2 **Monthly Payment.** Agency shall make monthly payments, based on invoices received, for Work satisfactorily performed, and for authorized reimbursable costs incurred. Agency shall have thirty (30) days from the receipt of an invoice that complies with all of the requirements above to pay Contractor.

2.3 **Payment of Taxes.** Contractor is solely responsible for the payment of all federal, state and local taxes, including employment taxes, incurred under this Agreement.

2.4 **Authorization to Perform Work.** The Contractor is not authorized to perform any Work or incur any costs whatsoever under the terms of this Agreement until receipt of a Purchase Order from the Contract Administrator.

2.5 **Timing for Submittal of Final Invoice.** Contractor shall have ninety (90) days after completion of the Requested Work to submit its final invoice for the Requested Work. In the event Contractor fails to submit an invoice to Agency for any amounts due within the ninety (90) day period, Contractor is deemed to have waived its right to collect its final payment for the Requested Work from Agency.

Section 3. FACILITIES AND EQUIPMENT. Except as set forth herein, Contractor shall, at its sole cost and expense, provide all facilities and equipment that may be necessary to perform the Work.

Section 4. INSURANCE REQUIREMENTS. Before beginning any Work under this Agreement, Contractor, at its own cost and expense, shall procure the types and amounts of insurance listed below and shall maintain the types and amounts of insurance listed below for the period covered by this Agreement.

4.1 Workers' Compensation. If Contractor employs any person, Contractor shall maintain Statutory Workers' Compensation Insurance and Employer's Liability Insurance for any and all persons employed directly or indirectly by Contractor with limits of not less than one million dollars (\$1,000,000.00) per accident.

4.2 Commercial General and Automobile Liability Insurance.

4.2.1 Commercial General Insurance. Contractor shall maintain commercial general liability insurance for the term of this Agreement, including products liability, covering any loss or liability, including the cost of defense of any action, for bodily injury, death, personal injury and broad form property damage which may arise out of the operations of Contractor. The policy shall provide a minimum limit of \$1,000,000 per occurrence/\$2,000,000 aggregate. Commercial general coverage shall be at least as broad as ISO Commercial General Liability form CG 0001 (current edition) on "an occurrence" basis covering comprehensive General Liability, with a self-insured retention or deductible of no more than \$100,000. No endorsement shall be attached limiting the coverage.

4.2.2 Automobile Liability. Contractor shall maintain automobile liability insurance form CA 0001 (current edition) for the term of this Agreement covering any loss or liability, including the cost of defense of any action, arising from the operation, maintenance or use of any vehicle (symbol 1), whether or not owned by the Contractor, on or off Agency premises. The policy shall provide a minimum limit of \$1,000,000 per each accident, with a self-insured retention or deductible of no more than \$100,000. This insurance shall provide contractual liability covering all motor vehicles and mobile equipment to the extent coverage may be excluded from general liability insurance.

4.2.3 General Liability/Umbrella Insurance. The coverage amounts set forth above may be met by a combination of underlying and umbrella policies as long as in combination the limits equal or exceed those stated.

4.3 Professional Liability Insurance. Intentionally left blank.

4.4 All Policies Requirements.

4.4.1 Verification of coverage. Prior to beginning any work under this Agreement, Contractor shall provide Agency with (1) a Certificate of Insurance that demonstrates compliance with all applicable insurance provisions contained herein and (2) policy endorsements to the policies referenced in Section 4.2, adding the

Agency as an additional insured and declaring such insurance primary in regard to work performed pursuant to this Agreement.

4.4.2 **Notice of Reduction in or Cancellation of Coverage.** Contractor shall provide at least thirty (30) days prior written notice to Agency of any reduction in scope or amount, cancellation, or modification adverse to Agency of the policies referenced in Section 4.

4.4.3 **Higher Limits.** If Contractor maintains higher limits than the minimums specified herein, the Agency shall be entitled to coverage for the higher limits maintained by the Contractor.

4.5 **Waiver of Subrogation.** Contractor agrees to waive subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss. Contractor agrees to obtain any endorsement that may be necessary to effect this waiver of subrogation. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of Agency for all work performed by Contractor, its employees, agents and subcontractors.

4.6 **Contractor's Obligation.** Contractor shall be solely responsible for ensuring that all equipment, vehicles and other items utilized in the performance of Work are operated, provided or otherwise utilized in a manner that ensures they are and remain covered by the policies referenced in Section 4 during this Agreement. Contractor shall also ensure that all workers involved in the provision of Work are properly classified as employees, agents or independent contractors and are and remain covered by any and all workers' compensation insurance required by applicable law during this Agreement.

Section 5. INDEMNIFICATION AND CONTRACTOR'S RESPONSIBILITIES.

5.1 **Effect of Insurance.** Agency's acceptance of insurance certificates and endorsements required under this Agreement does not relieve Contractor from liability under this indemnification and hold harmless clause. This indemnification and hold harmless clause shall apply to any damages or claims for damages whether or not such insurance policies shall have been determined to apply. By execution of this Agreement, Contractor acknowledges and agrees to the provisions of this section and that it is a material element of consideration.

5.2 **Scope.** Contractor shall indemnify, defend with counsel reasonably acceptable to the Agency, and hold harmless the Agency, and its officials, commissioners, officers, employees, agents and volunteers from and against all losses, liabilities, claims, demands, suits, actions, damages, expenses, penalties, fines, costs (including without limitation costs and fees of litigation), judgments and causes of action of every nature arising out of or in connection with any acts or omissions by Contractor, its officers, officials, agents, and employees, except as caused by the sole or gross negligence of Agency.

Notwithstanding, should this Agreement be construed as a construction agreement under Civil Code section 2783, then the exception referenced above shall also be for the active negligence of Agency.

Section 6. STATUS OF CONTRACTOR.

- 6.1 Independent Contractor.** Contractor is an independent contractor and not an employee of Agency. Agency shall have the right to control Contractor only insofar as the results of Contractor's Work and assignment of personnel pursuant to Section 1; otherwise, Agency shall not have the right to control the means by which Contractor accomplishes Work rendered pursuant to this Agreement. Notwithstanding any other Agency, state, or federal policy, rule, regulation, law, or ordinance to the contrary, Contractor and any of its employees, agents, and subcontractors providing services under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any and all claims to, any compensation, benefit, or any incident of employment by Agency, including but not limited to eligibility to enroll in the California Public Employees Retirement System (PERS) as an employee of Agency and entitlement to any contribution to be paid by Agency for employer contributions and/or employee contributions for PERS benefits.

Contractor shall indemnify, defend, and hold harmless Agency for the payment of any employee and/or employer contributions for PERS benefits on behalf of Contractor or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of Agency. Contractor and Agency acknowledge and agree that compensation paid by Agency to Contractor under this Agreement is based upon Contractor's estimated costs of providing the Work, including salaries and benefits of employees, agents and subcontractors of Contractor.

- 6.2 Contractor Not Agent.** Except as Agency may specify in writing, Contractor shall have no authority, express or implied, to act on behalf of Agency in any capacity whatsoever as an agent. Contractor shall have no authority, express or implied, pursuant to this Agreement to bind Agency to any obligation whatsoever.
- 6.3 Assignment and Subcontracting.** This Agreement contemplates personal performance by Contractor and is based upon a determination of Contractor's unique professional competence, experience, and specialized professional knowledge. A substantial inducement to Agency for entering into this Agreement was and is the personal reputation and competence of Contractor. Contractor may not assign this Agreement or any interest therein without the prior written approval of the Agency. Contractor shall not subcontract any portion of the performance contemplated and provided for herein, other than to the subcontractors identified in Exhibit A, without prior written approval of the Agency. Where written approval is granted by the Agency, Contractor shall supervise all work subcontracted by Contractor in performing the Work and shall be responsible for all work performed by a subcontractor as if Contractor itself had performed such Work. The

subcontracting of any work to subcontractors shall not relieve Contractor from any of its obligations under this Agreement with respect to the Work and Contractor is obligated to ensure that any and all subcontractors performing any Work shall be fully insured in all respects and to the same extent as set forth under Section 4, to Agency's satisfaction.

- 6.4 **Certification as to California Energy Commission.** If requested by the Agency, Contractor shall, at the same time it executes this Agreement, execute Exhibit C.

Section 7. LEGAL REQUIREMENTS.

- 7.1 **Governing Law.** The laws of the State of California shall govern this Agreement.
- 7.2 **Compliance with Applicable Laws.** Contractor and its subcontractors and agents, if any, shall comply with all laws applicable to the performance of the work hereunder.
- 7.3 **Licenses and Permits.** Contractor represents and warrants to Agency that Contractor and its employees, agents, and subcontractors (if any) have and will maintain at their sole expense during the term of this Agreement all licenses, permits, qualifications, and approvals of whatever nature that are legally required to practice their respective professions.
- 7.4 **Work Requiring Payment of Prevailing Wages.** If applicable, in accordance with California Labor Code Section 1771, not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which these services are to be performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed as provided in the California Labor Code shall be paid to all workers engaged in performing the services under this Agreement.

Section 8. TERMINATION AND MODIFICATION.

- 8.1 **Termination.** Agency may cancel this Agreement at any time and without cause upon ten (10) days prior written notice to Contractor.

In the event of termination, Contractor shall be entitled to compensation for Work satisfactorily completed as of the effective date of termination; Agency, however, may condition payment of such compensation upon Contractor delivering to Agency any or all records or documents (as referenced in Section 9.1 hereof).

- 8.2 **Amendments.** The Parties may amend this Agreement only by a writing signed by all the Parties.
- 8.3 **Survival.** All obligations arising prior to the termination of this Agreement and all provisions of this Agreement allocating liability between Agency and Contractor shall survive the termination of this Agreement.

8.4 **Options upon Breach by Contractor.** If Contractor materially breaches any of the terms of this Agreement, including but not limited to those set forth in Section 4, Agency's remedies shall include, but not be limited to, the following:

8.4.1 Immediately terminate the Agreement;

8.4.2 Retain the plans, specifications, drawings, reports, design documents, and any other work product prepared by Contractor pursuant to this Agreement;

8.4.3 Retain a different Contractor to complete the Work not finished by Contractor; and/or

8.4.4 Charge Contractor the difference between the costs to complete the Work that is unfinished at the time of breach and the amount that Agency would have paid Contractor pursuant hereto if Contractor had completed the Work.

Section 9. KEEPING AND STATUS OF RECORDS.

9.1 **Records Created as Part of Contractor's Performance.** All reports, data, maps, models, charts, studies, surveys, photographs, memoranda, plans, studies, specifications, records, files, or any other documents or materials, in electronic or any other form, that Contractor prepares or obtains pursuant to this Agreement and that relate to the matters covered hereunder shall be the property of the Agency. Contractor hereby agrees to deliver those documents to the Agency upon termination of the Agreement. Agency and Contractor agree that, unless approved by Agency in writing, Contractor shall not release to any non-parties to this Agreement any data, plans, specifications, reports and other documents.

9.2 **Contractor's Books and Records.** Contractor shall maintain any and all records or other documents evidencing or relating to charges for Work or expenditures and disbursements charged to the Agency under this Agreement for a minimum of three (3) years, or for any longer period required by law, from the date of final payment to the Contractor to this Agreement.

9.3 **Inspection and Audit of Records.** Any records or documents that this Agreement requires Contractor to maintain shall be made available for inspection, audit, and/or copying at any time during regular business hours, upon oral or written request of the Agency. Under California Government Code Section 8546.7, if the amount of public funds expended under this Agreement exceeds ten thousand dollars (\$10,000.00), the Agreement shall be subject to the examination and audit of the State Auditor, at the request of Agency or as part of any audit of the Agency, for a period of three (3) years after final payment under the Agreement.

9.4 Confidential Information and Disclosure.

- 9.4.1 **Confidential Information.** The term "Confidential Information", as used herein, shall mean any and all confidential, proprietary, or trade secret information, whether written, recorded, electronic, oral or otherwise, where the Confidential Information is made available in a tangible medium of expression and marked in a prominent location as confidential, proprietary and/or trade secret information. Confidential Information shall not include information that: (a) was already known to the Receiving Party or is otherwise a matter of public knowledge, (b) was disclosed to Receiving Party by a third party without violating any confidentiality agreement, (c) was independently developed by Receiving Party without reverse engineering, as evidenced by written records thereof, or (d) was not marked as confidential Information in accordance with this section.
- 9.4.2 **Non-Disclosure of Confidential Information.** During the term of this Agreement, either party may disclose ("The Disclosing Party") confidential Information to the other party ("the Receiving Party"). The Receiving Party: (a) shall hold the Disclosing Party's Confidential Information in confidence; and (b) shall take all reasonable steps to prevent any unauthorized possession, use, copying, transfer or disclosure of such Confidential Information.
- 9.4.3 **Permitted Disclosure.** Notwithstanding the foregoing, the following disclosures of Confidential Information are allowed. Receiving Party shall endeavor to provide prior written notice to Disclosing Party of any permitted disclosure made pursuant to Section 9.4.3.2 or 9.4.3.3. Disclosing Party may seek a protective order, including without limitation, a temporary restraining order to prevent or contest such permitted disclosure; provided, however, that Disclosing Party shall seek such remedies at its sole expense. Neither party shall have any liability for such permitted disclosures:
- 9.4.3.1 Disclosure to employees, agents, Contractors, contractors, subcontractors or other representatives of Receiving Party that have a need to know in connection with this Agreement.
- 9.4.3.2 Disclosure in response to a valid order of a court, government or regulatory agency or as may otherwise be required by law; and
- 9.4.3.3 Disclosure by Agency in response to a request pursuant to the California Public Records Act.
- 9.4.4 **Handling of Confidential Information.** Conclusion of Agreement. Receiving Party shall return to Disclosing Party or destroy Confidential Information (including all copies thereof) upon termination of this Agreement, if requested by Disclosing Party in writing. Notwithstanding the foregoing, the Receiving Party may retain

copies of such Confidential Information, subject to the confidentiality provisions of this Agreement: (a) for archival purposes in its computer system; (b) in its legal department files; and (c) in files of Receiving Party's representatives where such copies are necessary to comply with applicable law. Party shall not disclose the Disclosing Party's Information to any person other than those of the Receiving Party's employees, agents, Contractors, contractors and subcontractors who have a need to know in connection with this Agreement.

Section 10. PROJECT SITE.

- 10.1 **Operations at the Project Site.** Each Project site may include the power plant areas, all buildings, offices, and other locations where Work is to be performed, including any access roads. Contractor shall perform the Work in such a manner as to cause a minimum of interference with Agency's operations and the operations of other contractors at the Project site and to protect all persons and property thereon from damage or injury. Upon completion of the Work at a Project site, Contractor shall leave such Project site clean and free of all tools, equipment, waste materials and rubbish, stemming from or relating to Contractor's Work.
- 10.2 **Contractor's Equipment, Tools, Supplies and Materials.** Contractor shall be solely responsible for the transportation, loading and unloading, and storage of any equipment, tools, supplies or materials required for performing the Work, whether owned, leased or rented. Agency will not be responsible for any such equipment, supplies or materials which may be lost, stolen or damaged or for any additional rental charges for such. Equipment, tools, supplies and materials left or stored at a Project site, with or without permission, is at Contractor's sole risk. Agency may assume that anything left on the Project site an unreasonable length of time after the Work is completed has been abandoned. Any transportation furnished by Agency shall be solely as an accommodation and Agency shall have no liability therefor. Contractor shall assume the risk and is solely responsible for its owned, non-owned and hired automobiles, trucks or other motorized vehicles as well as any equipment, tools, supplies, materials or other property which is utilized by Contractor on the Project site. All materials and supplies used by Contractor in the Work shall be new and in good condition.
- 10.3 **Use of Agency Equipment.** Contractor shall assume the risk and is solely responsible for its use of any Agency owned equipment and property provided by Agency for the performance of Work.

Section 11. WARRANTY.

- 11.1 **Nature of Work.** In addition to any and all warranties provided or implied by law or public policy, Contractor warrants that all Work shall be free from defects in design and workmanship, and that Contractor shall perform all Work in accordance with applicable federal, state, and local laws, rules and regulations including engineering, construction and

other codes and standards and prudent electrical utility standards, and in accordance with the terms of this Agreement.

11.2 **Deficiencies in Work.** In addition to all other rights and remedies which Agency may have, Agency shall have the right to require, and Contractor shall be obligated at its own expense to perform, all further Work which may be required to correct any deficiencies which result from Contractor's failure to perform any Work in accordance with the standards required by this Agreement. If during the term of this Agreement or the one (1) year period following completion of the Work, any equipment, supplies or other materials or Work used or provided by Contractor under this Agreement fails due to defects in material and/or workmanship or other breach of this Agreement, Contractor shall, upon any reasonable written notice from Agency, replace or repair the same to Agency's satisfaction.

11.3 **Assignment of Warranties.** Contractor hereby assigns to Agency all additional warranties, extended warranties, or benefits like warranties, such as insurance, provided by or reasonably obtainable from suppliers of equipment and material used in the Work.

Section 12. HEALTH AND SAFETY PROGRAMS. The Contractor shall establish, maintain, and enforce safe work practices, and implement an accident/incident prevention program intended to ensure safe and healthful operations under their direction. The program shall include all requisite components of such a program under Federal, State and local regulations and shall comply with all Agency site programs.

12.1 Contractor is responsible for acquiring job hazard assessments as necessary to safely perform the Work and provide a copy to Agency upon request.

12.2 Contractor is responsible for providing all employee health and safety training and personal protective equipment in accordance with potential hazards that may be encountered in performance of the Work and provide copies of the certified training records upon request by Agency. Contractor shall be responsible for proper maintenance and/or disposal of their personal protective equipment and material handling equipment.

12.3 Contractor is responsible for ensuring that its lower-tier subcontractors are aware of and will comply with the requirements set forth herein.

12.4 Agency, or its representatives, may periodically monitor the safety performance of the Contractor performing the Work. Contractors and its subcontractors shall be required to comply with the safety and health obligations as established in the Agreement. Non-compliance with safety, health, or fire requirements may result in cessation of work activities, until items in non-compliance are corrected. It is also expressly acknowledged, understood and agreed that no payment shall be due from Agency to Contractor under this Agreement at any time when, or for any Work performed when, Contractor is not in full compliance with this Section 12.

- 12.5 Contractor shall immediately report any injuries to the Agency site safety representative. Additionally, the Contractor shall investigate and submit to the Agency site safety representative copies of all written accident reports, and coordinate with Agency if further investigation is requested.
- 12.6 Contractor shall take all reasonable steps and precautions to protect the health of its employees and other site personnel with regard to the Work. Contractor shall conduct occupational health monitoring and/or sampling to determine levels of exposure of its employees to hazardous or toxic substances or environmental conditions. Copies of any sampling results will be forwarded to the Agency site safety representative upon request.
- 12.7 Contractor shall develop a plan to properly handle and dispose of any hazardous wastes, if any, Contractor generates in performing the Work.
- 12.8 Contractor shall advise its employees and subcontractors that any employee, who jeopardizes his/her safety and health, or the safety and health of others, may be subject to actions including removal from Work.
- 12.9 Contractor shall, at the sole option of the Agency, develop and provide to the Agency a Hazardous Material Spill Response Plan that includes provisions for spill containment and clean-up, emergency contact information including regulatory agencies and spill sampling and analysis procedures. Hazardous Materials to include diesel fuel used for trucks owned or leased by the Contractor.

Section 13 MISCELLANEOUS PROVISIONS.

- 13.1 **Attorneys' Fees.** If a party to this Agreement brings any action, including an action for declaratory relief, to enforce or interpret the provision of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees in addition to any other relief to which that party may be entitled. The court may set such fees in the same action or in a separate action brought for that purpose.
- 13.2 **Venue.** In the event that either party brings any action against the other under this Agreement, the Parties agree that trial of such action shall be vested exclusively in the state courts of California in the County of Placer or in the United States District Court for the Eastern District of California.
- 13.3 **Severability.** If a court of competent jurisdiction finds or rules that any provision of this Agreement is invalid, void, or unenforceable, the provisions of this Agreement not so adjudged shall remain in full force and effect. The invalidity in whole or in part of any provision of this Agreement shall not void or affect the validity of any other provision of this Agreement.

13.4 **No Implied Waiver of Breach.** The waiver of any breach of a specific provision of this Agreement does not constitute a waiver of any other breach of that term or any other term of this Agreement.

13.5 **Successors and Assigns.** The provisions of this Agreement shall inure to the benefit of and shall apply to and bind the successors and assigns of the Parties.

13.6 **Conflict of Interest.** Contractor may serve other clients, but none whose activities within the corporate limits of Agency or whose business, regardless of location, would place Contractor in a "conflict of interest," as that term is defined in the Political Reform Act, codified at California Government Code Section 81000 *et seq.*

Contractor shall not employ any Agency official in the work performed pursuant to this Agreement. No officer or employee of Agency shall have any financial interest in this Agreement that would violate California Government Code Sections 1090 *et seq.*

13.7 **Contract Administrator.** This Agreement shall be administered by Ken Speer, Assistant General Manager, or his/her designee, who shall act as the Agency's representative. All correspondence shall be directed to or through the representative.

13.8 **Notices.** Any written notice to Contractor shall be sent to:

Servo Con Associates, Inc.
Attn: Anders Steele
167 Expo Road
Fishersville, VA 22939

Any written notice to Agency shall be sent to:

James H. Pope
General Manager
Northern California Power Agency
651 Commerce Drive
Roseville, CA 95678

With a copy to:

Michael F. Dean
General Counsel
Northern California Power Agency
Meyers Nave
555 Capitol Mall, Suite 1200
Sacramento, CA 95814

- 13.9 **Professional Seal.** Where applicable in the determination of the Agency, the first page of a technical report, first page of design specifications, and each page of construction drawings shall be stamped/sealed and signed by the licensed professional responsible for the report/design preparation.
- 13.10 **Integration; Incorporation.** This Agreement, including all the exhibits attached hereto, represents the entire and integrated agreement between Agency and Contractor and supersedes all prior negotiations, representations, or agreements, either written or oral. All exhibits attached hereto are incorporated by reference herein.
- 13.11 **Alternative Dispute Resolution.** If any dispute arises between the Parties that cannot be settled after engaging in good faith negotiations, Agency and Contractor agree to resolve the dispute in accordance with the following:
- 13.11.1 Each party shall designate a senior management or executive level representative to negotiate any dispute;
- 13.11.2 The representatives shall attempt, through good faith negotiations, to resolve the dispute by any means within their authority.
- 13.11.3 If the issue remains unresolved after fifteen (15) days of good faith negotiations, the Parties shall attempt to resolve the disagreement by negotiation between legal counsel. If the above process fails, the Parties shall resolve any remaining disputes through mediation to expedite the resolution of the dispute.
- 13.11.4 The mediation process shall provide for the selection within fifteen (15) days by both Parties of a disinterested third person as mediator, shall be commenced within thirty (30) days and shall be concluded within fifteen (15) days from the commencement of the mediation.
- 13.11.5 The Parties shall equally bear the costs of any third party in any alternative dispute resolution process.
- 13.11.6 The alternative dispute resolution process is a material condition to this Agreement and must be exhausted as an administrative prior to either Party initiating legal action. This alternative dispute resolution process is not intended to nor shall be construed to change the time periods for filing a claim or action specified by Government Code §§ 900 *et seq.*
- 13.12 **Controlling Provisions.** In the case of any conflict between the terms of this Agreement and the Exhibits hereto, and Contractor's Proposal (if any), the Agreement shall control. In the case of any conflict between the Exhibits hereto and the Contractor's Proposal, the Exhibits shall control.

13.13 **Counterparts.** This Agreement may be executed in multiple counterparts, each of which shall be an original and all of which together shall constitute one agreement.

13.14 **Construction of Agreement.** Each party hereto has had an equivalent opportunity to participate in the drafting of the Agreement and/or to consult with legal counsel. Therefore, the usual construction of an agreement against the drafting party shall not apply hereto.

13.15 **No Third Party Beneficiaries.** This Agreement is made solely for the benefit of the parties hereto, with no intent to benefit any non-signator third parties.

The Parties have executed this Agreement as of the date signed by the Agency.

NORTHERN CALIFORNIA POWER AGENCY

SERVO CON ASSOCIATES, INC.

Date_____

Date_____

JAMES H. POPE, General Manager

RICHARD COFFMAN, CEO

Attest:

Assistant Secretary of the Commission
Approved as to Form:

Assistant General Counsel

EXHIBIT A

SCOPE OF WORK

Servo Con Associates, Inc. ("Contractor") shall provide maintenance services as requested by the Northern California Power Agency ("Agency") at any one of its facilities.

Services to include, but not be limited to the following:

- Electrohydraulic Control Maintenance (Valves, Cylinders, Pumps, Control Pacs, etc.)
- New Sales & Design of hydraulic valves, cylinders, pumps, etc.

EXHIBIT B

COMPENSATION SCHEDULE AND HOURLY FEES

Compensation for all work, including hourly fees and expenses, shall not exceed amount as set forth in Section 2 of this Agreement. The hourly rates and or compensation break down and an estimated amount of expenses is as follows:

Current Rate Sheet To Be Provided and Inserted Here

NOTE: As a public agency, NCPA shall not reimburse Contractor for travel, food and related costs in excess of those permitted by the Internal Revenue Service.

EXHIBIT C

CERTIFICATION

Affidavit of Compliance for Contractors

I,

(Name of person signing affidavit)(Title)

do hereby certify that background investigations to ascertain the accuracy of the identity and employment history of all employees of

(Company name)

for contract work at

(Project name and location)

have been conducted as required by the California Energy Commission Decision for the above-named project.

(Signature of officer or agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.



Lodi Energy Center Project Participant Committee

Staff Report

AGENDA ITEM NO.: 13

Date: April 14, 2014
To: Lodi Energy Center Project Participant Committee
Subject: Approval of Updated Lodi Energy Center (LEC) Project Management and Operations Agreement Schedule 6.00

Proposal

Approval of revised Project Management and Operations Agreement ("PMOA") Schedule 6.00 to reflect changes made for the California Department of Water Resources.

Background

NCPA and the LEC Project Participants executed the LEC PMOA, which became effective on August 1, 2010. The PMOA contains multiple Schedules, which provide procedures and protocols, and guidelines regarding Project operations. Pursuant to the PMOA, Schedules may be revised, deleted or added from time to time based on then existing operating or market conditions, and subject to the approval of the Project Participant Committee (PPC), and with regard to certain Schedules, approval additionally by the NCPA Commission when such Schedules "...could be reasonably viewed as having an impact on other NCPA projects." (PMOA, Article 10).

Staff is recommending changes to PMOA Schedule 6.00, "Contact List" which provides the contact information for each of the Project Participants. Schedule 6.00 does not require approval by the NCPA Commission.

Fiscal Impact

No significant costs will be incurred to implement the change to the PMOA Schedule 6.00 and funds are available in the Project Budget to support the work associated with this update.

Environmental Analysis

This activity would not result in a direct or reasonably foreseeable indirect change in the physical environment and is therefore not a "project" for purposes of Section 21065 the California Environmental Quality Act. No environmental review is necessary.

Recommendation

NCPA staff recommends that the PPC approve the revised PMOA Schedule 6.00, dated 4-14-2014 for reference.

Prepared by:

KEN SPEER
Assistant General Manager Generation Services

Attachments: (1): PMOA Schedule 6.00 Contact List dated 4-14-2014

Agreement Schedule 6.00

Contact List

Northern California Power Agency

Northern California Power Agency
Attn: Michael DeBortoli, Lodi Energy Center Manager
651 Commerce Drive
Roseville, California, 95678
Telephone: (209) 210-5000
Facsimile: (209) 333-5215
Email: michael.debortoli@ncpa.com

With copies to:

Northern California Power Agency
Attn: Ken Speer, Assistant General Manager – Generation Services
651 Commerce Drive
Roseville, California, 95678
Telephone: (916) 781-4201
Facsimile: (916) 783-7693
Email: ken.speer@ncpa.com

Northern California Power Agency
Attn: David Dockham, Assistant General Manager – Power Management
651 Commerce Drive
Roseville, California, 95678
Telephone: (916) 781-4256
Facsimile: (916) 783-4252
Email: dave.dockham@ncpa.com

City of Azusa

City of Azusa
Azusa Light & Water Department
Attn: George Morrow, Electric Utility Director
729 N. Azusa Avenue
P.O. Box 9500
Azusa, California 91702-9500
Telephone: (626) 812-5219
Facsimile: (626) 334-3163
Email: gmorrow@ci.azusa.ca.us

Bay Area Rapid Transit District

Bay Area Rapid Transit District
Attn: Frank Schultz, Power Resources Manager
300 Lakeside Drive, 16th Floor
Oakland, California 94612-3534
Telephone: (510) 464-6435 or (510) 915-2509
Facsimile: (510) 464-6118
Email: fschult@bart.gov

Modesto Irrigation District

Modesto Irrigation District
Attn: James McFall
Resource Planning and Development Manager
P.O. Box 4060
1231 Eleventh Street
Modesto, California 95352
Telephone: (209) 526-1521
Facsimile: (209) 526-7575
Email: jamesm@mid.org

California Department of Water Resources:

Department of Water Resources
Attention: William Forsythe, Chief, Power Contracts Branch
3310 El Camino Avenue, LL90
Sacramento, California 95821
Telephone: (916) 574-0310
Facsimile: (916) 574-0660
Email: william.forsythe@water.ca.gov

Plumas-Sierra Rural Electric Cooperative

Plumas-Sierra REC
Attn: Bob Marshall, General Manager
73233 Highway 70
Portola, California 96122-7064
Telephone: (530)832-4261
Facsimile: (530)832-6070
Email: marshall@psln.com

City of Biggs

City of Biggs
Attn: Mark Sorensen, City Administrator
465 "C" Street
P.O. Box 307
Biggs, California 95917-0307
Telephone: (530) 868-5493
Facsimile: (530) 868-5239
Email: biggs1@biggs-ca.gov

City of Gridley

City of Gridley
Attn: Owen Stiles
685 Kentucky Street
Gridley, California 95948-2117
Telephone: (530) 846-5695
Facsimile: (530) 846-3229
Email: ostiles@gridley.ca.us

City of Healdsburg

City of Healdsburg
Attn: Terry Crowley, Electric Utility Director
401 Grove Street
Healdsburg, California 95448
Telephone: (707) 431-3340
Facsimile: (707) 431-2710
Email: tcrowley@ci.healdsburg.ca.us

City of Lodi

City of Lodi
Attn: Elizabeth Kirkley, Utility Director
221 W. Pine Street
Lodi, California 95240
Telephone: (209) 333-6828 or (209) 200-1107
Facsimile: (209) 333-6839
Email: ekirkley@lodielelectric.com

City of Lompoc

City of Lompoc
Attn: Marty Hostler, Assistant Utility Director
100 Civic Center Plaza
P.O. Box 8001
Lompoc, California 93438-8001
Telephone: (805) 736-1261 (switchboard) or (805) 736-1261
Facsimile: (805) 875-8399
Email: m_hostler@ci.lompoc.ca.us

Silicon Valley Power

Silicon Valley Power
Attn: John Roukema, Electric Utility Director
1500 Warburton Avenue
Santa Clara, California 95050
Telephone: (408) 261-5490
Facsimile: (408) 249-0217
Email: jroukema@siliconvalleypower.com

City of Ukiah

City of Ukiah
Attn: Mel Grandi, Utility Director
300 Seminary Avenue
Ukiah, California 95482
Telephone: (707) 463-6295 or (209) 747-0546
Facsimile: (707) 463-6740
Email: mgrandi@cityofukiah.com

Power and Water Resources Pooling Authority

Power and Water Resources Pooling Authority
Attn: W. Kent Palmerton, General Manager
2106 Homewood Way, Suite 100
Carmichael, California 95608
Telephone: (916) 483-5368 or (916) 813-3323
Facsimile: (916) 485-3537
Email: kent@wkpalmerton.com