



County of Los Alamos

1000 Central Avenue
Los Alamos, NM 87544

Agenda - Final Board of Public Utilities

*Jeff Johnson, Chair; Stephen McLin, Vice-chair; Andrew Fraser,
Paul Frederickson and Kathleen Taylor, Members
Tim Glasco, Ex Officio Member
Harry Burgess, Ex Officio Member
Susan O'Leary, Council Liaison*

Wednesday, June 21, 2017

5:30 PM

1000 Central Avenue
Council Chambers

REGULAR SESSION

Complete Board of Public Utilities agenda packets, past agendas, videos, legislation and minutes can be found online at <http://losalamos.legistar.com/Calenar.aspx>. Learn more about the Board of Public Utilities at <http://www.losalamosnm.us/gov/bcc/utilitiesboard>.

PUBLIC COMMENTS:

Please submit written comments to the Board at bpu@lacnm.us. Oral public comment is accepted during the two periods identified on the agenda and after initial board discussion on a business item, prior to accepting a main motion on an item. Oral comments should be limited to four minutes per person. Requests to make comments exceeding four minutes should be submitted to the Board in writing prior to the meeting. Individuals representing or making a combined statement for a large group may be allowed additional time at the discretion of the Board. Those making comments are encouraged to submit them in writing either during or after the meeting to be included in the minutes as attachments. Otherwise, oral public comments will be summarized in the minutes to give a brief succinct account of the overall substance of the person's comments.

1. CALL TO ORDER

2. PUBLIC COMMENT

This section of the agenda is reserved for comments from the public on Consent Agenda items or items that are not otherwise included in this agenda.

3. APPROVAL OF AGENDA

4. BOARD BUSINESS

4.A. Chair's Report

4.B. Board Member Reports

4.C. Utilities Manager's Report

4.D. County Manager's Report**4.E. Council Liaison's Report****4.F. Environmental Sustainability Board Liaison's Report****4.G. General Board Business**

- 4.G.1** [9449-17](#) Discussion on Board of Public Utilities Input for the Department of Public Utilities Upcoming Strategic Planning Workshop for FY2019 and the Annual Review of the Mission, Vision and Values

Presenters: Tim Glasco, Utilities Manager

PG. 1-3

4.H. Approval of Board Expenses**4.I. Preview of Upcoming Agenda Items**

- 4.I.1** [9596-17](#) Tickler File for the Next 3 Months

Presenters: Board of Public Utilities

PG. 4-7

5. PUBLIC HEARING(S)

- 5.A** [CO0487-17](#) Approval of Incorporated County of Los Alamos Code Ordinance No. 02-276: An Ordinance Amending Chapter 40, Article III, Sections 40-201 and 40-202 of the Code of the Incorporated County of Los Alamos Pertaining to the Sewage Service Rate Schedule and Determination of Charges

Presenters: Bob Westervelt, Deputy Utilities Manager - Finance/Admin

PG. 8-25

- 5.B** [CO0488-17](#) Approval of Incorporated County of Los Alamos Code Ordinance No. 02-275, An Ordinance Amending Chapter 40, Article III, Sections 40-171 and 40-175 of the Code of the Incorporated County of Los Alamos Pertaining to Potable Water Rates and Bulk Delivery Rates

Presenters: Bob Westervelt, Deputy Utilities Manager - Finance/Admin

PG. 26-39

- 5.C [9479-17](#) Public Hearing for Revisions to the Department of Public Utilities Rules and Regulations Fee Schedule: Gas - Excess Flow Valves

Presenters: James Alarid, Deputy Utilities Manager - Engineering

PG. 40-43

6. **CONSENT AGENDA**

The following items are presented for Board approval under a single motion unless any item is withdrawn by a member for further Board consideration in the "Business" section of the agenda.

CONSENT MOTION -

I move that the Board of Public Utilities approve the items on the Consent Agenda as presented and that the motions in the staff reports be included in the minutes for the record.

OR

I move that the Board of Public Utilities approve the items on the Consent Agenda as amended and that the motions contained in the staff reports, be included in the minutes for the record.

- 6.A [9592-17](#) Approval of Board of Public Utilities Meeting Minutes

Presenters: Board of Public Utilities

PG. 44-56

- 6.B [AGR0507-17](#) Approval of Services Agreement No. AGR17-37 with Stantec Consulting Service, Inc. in the amount of \$450,000.00, plus Applicable Gross Receipts Tax, for the Purpose of the Geographic Information System and Asset Management Upgrade Project

Presenters: Jack Richardson, Deputy Utilities Manager - GWS Services

PG. 57-74

- 6.C [9590-17](#) Approval of Task Order No. 1 Under Services Agreement No. AGR17-45 with Alpha Southwest, Inc. in the amount of \$61,045.00, plus Applicable Gross Receipts Tax, for the Purpose of Chlorine Generator Install for Pajarito Booster 2

Presenters: James Alarid, Deputy Utilities Manager - Engineering

PG. 75-76

- 6.D [9471-17](#) Approval of Department of Energy (DOE) - Los Alamos County (LAC)
Resource Pool Budget for Fiscal Years 2018/2019

Presenters: Bob Westervelt, Deputy Utilities Manager -
Finance/Admin

PG. 77-85

- 6.E [9562-17](#) Approval of Modification 20 to the Electric Energy and Power
Coordination Agreement (ECA) Between the Incorporated County of
Los Alamos and the United States Department of Energy (DOE).

Presenters: Bob Westervelt, Deputy Utilities Manager -
Finance/Admin

PG. 86-93

- 6.F [9369-17](#) Approval of Contract No. 17-WC-40-668 with the United States Bureau
of Reclamation for Lease of the 2017 Allocation of San Juan/Chama
Project Water

Presenters: Jack Richardson, Deputy Utilities Manager - GWS
Services

PG. 94-101

7. **BUSINESS**

- 7.A [9094-17](#) Presentation of Integrated Resource Plan

Presenters: Steve Cummins, Deputy Utilities Manager - Power
Supply

PG. 102-118

- 7.B [9559-17](#) Preliminary Discussion on Non-potable Water Rate Ordinance

Presenters: Bob Westervelt, Deputy Utilities Manager -
Finance/Admin

PG. 119-122

8. **STATUS REPORTS**

- 8.A [9595-17](#) Status Reports

Presenters: Board of Public Utilities

PG. 123-136

9. **PUBLIC COMMENT**

*This section of the agenda is reserved for comments from the
public on any items.*

10. ADJOURNMENT

If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or meeting, please contact the County Human Resources Division at 662-8040 at least one week prior to the meeting or as soon as possible. Public documents, including the agenda and minutes can be provided in various accessible formats. Please contact the personnel in the Department of Public Utilities (505) 662-8132 if a summary or other type of accessible format is needed.



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 4.G.1
Index (Council Goals): BCC - N/A
Presenters: Tim Glasco, Utilities Manager
Legislative File: 9449-17

Title

Discussion on Board of Public Utilities Input for the Department of Public Utilities Upcoming Strategic Planning Workshop for FY2019 and the Annual Review of the Mission, Vision and Values

Recommended Action

None - Discussion Item Only

Staff Recommendation

None

Body

Around late August, the Department of Public Utilities Senior Management Team is planning to hold its annual two-day staff workshop for fiscal year 2019 strategic planning. The purpose of the workshop is to assess strengths, weaknesses, opportunities for improvement, threats and challenges (SWOT/C). From this assessment, previously established goals and objectives are reviewed and revised if necessary and short-term action plans for the next fiscal year are drafted. The goals and objectives are then brought to the Board for approval.

As always, Board members are invited to attend part or all of the workshop as observers as they have in the past; however, in accordance with the Open Meetings Act, any discussion of public business among a quorum of the Board must be held as an open public meeting.

INPUT FOR THE STRATEGIC PLANNING WORKSHOP

The DPU SMT welcomes the Board's invaluable input and would like to help facilitate that in whatever way possible. As in past years, the department plans to work with a consultant experienced in the Malcolm Baldrige model for strategic planning. This consultant will assist with workshop preparations and act as facilitator during the meeting. If the Board also wishes to work with the consultant prior to the workshop to gather their input, a special work session could be scheduled with the consultant to do that.

REVIEW OF THE MISSION/VISION/VALUES STATEMENTS

During the 2014 Board self-assessment, the Board decided that it should assume increased ownership and responsibility for the MVV statements. Prior to the workshop, the Board should review the current MVV statements that were approved in 2016 (attached), and make any changes prior to the workshop or give feedback to staff.

Alternatives

The Board could choose not to consider suggestions from the consultant and could choose

to be involved in the strategic planning process in whatever way seems appropriate to them.

Fiscal and Staff Impact

None

Attachments

A - Mission Vision and Values Statements

DEPARTMENT OF PUBLIC UTILITIES

MISSION/VISION/VALUES STATEMENTS

In June 2016, the Board of Public Utilities gave input for the Department's mission, vision and values statements. The DPU Senior Management Team reviewed the statements at their annual strategic planning workshop in August.

These were affirmed by the Board on October 19th, 2016.

MISSION

Provide safe and reliable utility services in an economically and environmentally sustainable fashion.

VISION

Be a high-performing utility matched to our community, contributing to its future with diversified and innovative utility solutions.

VALUES

We value our:

- CUSTOMERS by being service oriented and fiscally responsible;
- EMPLOYEES AND PARTNERSHIPS by being a safe, ethical and professional organization that encourages continuous learning;
- NATURAL RESOURCES through innovative and progressive solutions;
- COMMUNITY by being communicative, organized and transparent.



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 4.I.1
Index (Council Goals): BCC - N/A
Presenters: Board of Public Utilities
Legislative File: 9596-17

Title

Tickler File for the Next 3 Months

Attachments

A - Tickler File for the Next 3 Months



LOS ALAMOS

County of Los Alamos

Los Alamos, NM 87544
www.losalamosnm.us

Tickler

Criteria: Agenda Begin Date: 7/1/2017, Agenda End Date: 9/30/2017, Matter Bodies: Board of Public Utilities

File Number	Title	
Agenda Date: 07/19/2017		
9351-17	Briefing/Report (Dept,BCC) - Action Requested Annual Affirmation of the Board of Public Utilities Policies and Procedures Manual Department Name: DPU Drop Dead Date:	04GGeneral Board Business Length of Presentation: Apx. 5 Min. Sponsors: Jeff Johnson, Chair of the Board of Public Utilities
9352-17	Briefing/Report (Dept, BCC) - No action requested Planning for Upcoming Board of Public Utilities Annual Boards & Commissions Presentation to Council on September 19th, 2017 Department Name: DPU Drop Dead Date:	04GGeneral Board Business Length of Presentation: Apx. 5 Min. Sponsors: Jeff Johnson, Chair of the Board of Public Utilities
9353-17	Briefing/Report (Dept,BCC) - Action Requested Annual Review and Revision of Board of Public Utilities Policies and Procedures Manual Department Name: DPU Drop Dead Date:	04GGeneral Board Business Length of Presentation: UNKNOWN Sponsors: Jeff Johnson, Chair of the Board of Public Utilities
CO0500-17	Code Ordinance Approval of Incorporated County of Los Alamos Code Ordinance No. ____ - ____ Non-potable Water Rates Department Name: DPU Drop Dead Date:	05Public Hearings Length of Presentation: Apx. 30 Min. Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
9564-17	Briefing/Report (Dept,BCC) - Action Requested Approval of San Juan Generating Restructuring Agreements Department Name: DPU Drop Dead Date:	06Consent Length of Presentation: NA Sponsors: Steve Cummins, Deputy Utilities Manager - Power Supply
RE0344-17	Resolution Approval of Incorporated County of Los Alamos Resolution No. 17-XX. A Resolution Removing Uncollectible Utility Accounts from Accounts receivable List of Los Alamos County - Fiscal Year 2012 Department Name: DPU Drop Dead Date:	06Consent Length of Presentation: NA Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin

File Number	Title	
8984-17	Briefing/Report (Dept, BCC) - No action requested	07Business
	Presentation of 2017 Department of Public Utilities Customer Service Survey Results	
	Department Name: DPU	Length of Presentation: Apx. 15 Min.
	Drop Dead Date:	Sponsors: Julie Williams-Hill, Public Relations Manager
9374-17	Briefing/Report (Dept, BCC) - No action requested	07Business
	White Rock Wastewater Plant Path Forward	
	Department Name: DPU	Length of Presentation: Apx. 40 Min.
	Drop Dead Date:	Sponsors: James Alarid, Deputy Utilities Manager - Engineering
Agenda Date: 08/16/2017		
9468-17	Report	04GGeneral Board Business
	Quarterly Conservation Program Update	
	Department Name: DPU	Length of Presentation: Apx. 10 Min.
	Drop Dead Date:	Sponsors: James Alarid, Deputy Utilities Manager - Engineering
9469-17	Briefing/Report (Dept, BCC) - No action requested	04GGeneral Board Business
	Review of Department of Public Utilities Quarterly Report	
	Department Name: DPU	Length of Presentation: Apx. 10 Min.
	Drop Dead Date:	Sponsors: Tim Glasco, Utilities Manager
9444-17	Budget Item	06Consent
	Approval of Budget Carryovers from FY2017 to FY2018	
	Department Name: DPU	Length of Presentation: NA
	Drop Dead Date:	Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
8709-16	Briefing/Report (Dept, BCC) - No action requested	07Business
	FER Implementation - Discussion Regarding Rate Ordinance - Unbundled Rate Structure	
	Department Name: DPU	Length of Presentation: Apx. 30 Min.
	Drop Dead Date:	Sponsors: Steve Cummins, Deputy Utilities Manager - Power Supply
Agenda Date: 09/20/2017		
CO0480-16	Code Ordinance	05Public Hearings
	FER Implementation - Public Hearing for Rate Ordinance - Unbundled Rate Structure	
	Department Name: DPU	Length of Presentation: Apx. 30 Min.
	Drop Dead Date:	Sponsors: Steve Cummins, Deputy Utilities Manager - Power Supply
9604-17	Briefing/Report (Dept,BCC) - Action Requested	07Business
	Approval of Department of Public Utilities Mission, Vision and Values, Goals and Objectives	

File Number	Title
-------------	-------

Department Name: DPU

Length of Presentation: Apx. 15 Min.

Drop Dead Date:

Sponsors: Tim Glasco, Utilities Manager



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 5.A
Index (Council Goals): BCC - N/A
Presenters: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
Legislative File: CO0487-17

Title

Approval of Incorporated County of Los Alamos Code Ordinance No. 02-276: An Ordinance Amending Chapter 40, Article III, Sections 40-201 and 40-202 of the Code of the Incorporated County of Los Alamos Pertaining to the Sewage Service Rate Schedule and Determination of Charges

Recommended Action

I move that the Board of Public Utilities approve Incorporated County of Los Alamos Code Ordinance No. 02-276: An Ordinance Amending Chapter 40, Article III, Sections 40-201 and 40-202 of the Code of the Incorporated County of Los Alamos Pertaining to the Sewage Service Rate Schedule and Determination of Charges, and forward to Council with a recommendation for adoption.

Staff Recommendation

Staff recommends the motion be passed as presented.

Body

The ten-year forecast for the sewer utility presented with the FY2018 budget includes a series of incremental rate increases to generate revenues needed for current operations and to build cash reserves necessary for future infrastructure replacements, most notably the needed replacement for the White Rock waste water treatment facility. We have considered several alternatives as to timing of that plant replacement. Each has different long term cash impacts, and each is presented in this discussion.

Four scenarios are presented. The main differences are when the White Rock plant is designed and constructed, and whether the existing debt on the Los Alamos treatment plant is refinanced. The details of the four scenarios are shown on Attachment A2. While the timing and magnitude of future rate increases varies by scenario, as will be discussed, three of the four scenarios presented show the budgeted 8% increase in FY2018 is necessary. The fourth scenario shows only a 5% increase in 2018, but continuing increases farther into the future. It should be noted that for the commercial rate class the projected rate increases are offset by an equivalent decrease in the surcharge added to consumption based billings, so sewer charges for the commercial rate class in aggregate will remain essentially flat for the first several years of whichever scenario one considers.

Attachments B1 and B2 are graphs showing the rate trajectory over twenty forecast years for the four scenarios for single and multi-family customer classes.

Attachments C1, C2, and C3 show the cash flow projections for scenarios 10, 20, and 30. Scenario 40 was initially considered for completeness, but since it does not provide for replacing the White Rock treatment plant until 2030 and because it involves continuing rate increases for a significantly longer number of years, it is considered too risky to be practical, and we did not continue the detailed financial analysis of that scenario. These charts show several important financial data points, most notably revenues compared to O&M plus capital expenditures, a running total of the estimated cash balance, and a representation of the required cash balance per our financial targets in each year. Note, the ideal is where the actual cash balance equals the required cash balance, and this comparison can readily be discerned on each graph.

Attachments D1, D2, and D3 show the projected monthly bill under each scenario, and includes a comparison to median household income, which remains fairly static or even shows a decreasing trend toward the end of the ten-year period represented.

Finally, Attachment E shows a comparison of Los Alamos' projected residential sewer bill at various consumption quantities with those of nearby communities. Note, the comparison targets communities of similar size or topography. We did not chart Taos ski valley as it is such an outlier that it would have distorted the scale of the rest of the comparison, but the remaining communities in the table are shown graphically and indicate that with the increase we are still comparable to the most similar cities for which we could obtain data.

Alternatives

Several alternative financial scenarios are included in this staff report and will be discussed. As noted above, in all the scenarios discussed a series of rate increases are going to be needed to fund necessary operations and replacement of facilities through sewer rates. An alternative would be to fund replacement of the White Rock Treatment plant with General Fund reserves or other moneys, in which case existing rates would be sufficient to fund ongoing operations.

Fiscal and Staff Impact

The budgeted 8% increase is expected to generate \$318,459 additional revenue annually.

Attachments

- A - Proposed Ordinance and Scenarios Considered
 - 1. Proposed Ordinance
 - 2. Description of four scenarios considered
- B - Rate trajectory for twenty year period
 - 1. Single-family residential
 - 2. Multi-family residential
- C - Cash Flow Projections for twenty year period
 - 1. Scenario "Plan 10"
 - 2. Scenario "Plan 20"
 - 3. Scenario "Plan 30"
- D - Ten year projected monthly sewer bill for residential customers
 - 1. Scenario "Plan 10"
 - 2. Scenario "Plan 20"
 - 3. Scenario "Plan 30"

E - FY2018 Comparison to similar neighboring communities
F - Notice of Public Hearing

INCORPORATED COUNTY OF LOS ALAMOS CODE ORDINANCE NO. 02-276

**AN ORDINANCE AMENDING CHAPTER 40, ARTICLE III,
SECTIONS 40-201 AND 40-202 OF THE CODE OF THE INCORPORATED
COUNTY OF LOS ALAMOS PERTAINING TO THE SEWAGE SERVICE RATE
SCHEDULE AND DETERMINATION OF CHARGES**

BE IT ORDAINED BY THE GOVERNING BODY OF THE INCORPORATED COUNTY OF LOS ALAMOS as follows:

Section 1. Section 40-201 of the Los Alamos County Code of Ordinances is amended to read as follows:

Sec. 40-201. - Sewage service rate schedules.

- (a) Residential rate service schedule 6-A is applicable only for normal domestic sewer service for individual residences, dwelling units, and individual apartments, where each unit is individually metered for water.
- (b) Residential rate service schedule 6-G is applicable only for normal domestic sewer service for multi-family dwelling units, individual apartments, and subdivisions or residential complexes where each unit is not individually metered by the county for water.
- (c) Commercial rate service schedule 6-K is applicable to all nonresidential sewer services.
- (d) Customer charges. Each account shall be billed a customer charge of ~~\$7.00~~\$10.27 per month per account for billings processed through June 30, 2013; ~~\$7.56~~ per month per account for billings processed after June 30, 2013; ~~\$8.16~~ per month per account for billings processed after June 30, 2014; ~~\$8.81~~ per month per account for billings processed after June 30, 2015; and ~~\$9.51~~ per month per account for billings processed after June 30, 2016.
- (e) Fixed charges.
 - (1) To each customer billed under rate service schedule 6-A, ~~\$25.31~~\$37.18 per month per dwelling unit for billings processed through June 30, 2013; ~~\$27.33~~ per month per dwelling unit for billings processed after June 30, 2013; ~~\$29.52~~ per month per dwelling unit for billings processed after June 30, 2014; ~~\$31.88~~ per month per dwelling unit for billings processed after June 30, 2015; and ~~\$34.43~~ per month per dwelling unit for billings processed after June 30, 2016.
 - (2) To each customer billed under rate service schedule 6-G, ~~\$21.09~~\$30.97 per month per dwelling unit for billings processed through June 30, 2013; ~~\$22.77~~ per month per dwelling unit for billings processed after June 30, 2013; ~~\$24.59~~ per month per dwelling unit for billings processed after June 30, 2014; ~~\$26.56~~ per month per dwelling unit for billings processed after June 30, 2015; and ~~\$28.68~~ per month per dwelling unit for billings processed after June 30, 2016.
 - (3) To each customer billed under rate service schedule 6-K:

Water Meter Size	Service Charge Per Month
Under 2 inch	Reserved
2 inch	Reserved

3 inch	Reserved
4 inch	Reserved
6 inch	Reserved

- (f) Variable rate. The variable rate shall be applicable to customers billed under rate service schedule 6-K. The variable rate shall be ~~\$11.91~~\$17.50 per 1,000 gallons ~~for billings processed through June 30, 2013; \$12.86 per 1,000 gallons for billings processed after June 30, 2013; \$13.89 per 1,000 gallons for billings processed after June 30, 2014; \$15.00 per 1,000 gallons for billings processed after June 30, 2015; and \$16.20 per 1,000 gallons for billings processed after June 30, 2016.~~

(Ord. No. 74-77, § 1, 1982; Ord. No. 74-109, § 1, 1984; Ord. No. 85-25, § 1, 1985; Ord. No. 85-53, § 1, 1986; Ord. No. 85-143, § 1, 1991; Ord. No. 85-204, § 1, 1994; Code 1985, § 13.20.010; Ord. No. 85-273, § 1, 1999; Ord. No. 02-016, § 1, 10-8-2002; Ord. No. 02-051, § 1, 2-8-2005; Ord. No. 02-089, § 1, 6-12-2007; Ord. No. 02-105, § 1, 11-17-2009; Ord. No. 02-220, § 1, 8-2-2011; Ord. No. 02-229, § 1, 2-26-2013)

Section 2. Section 40-202 of the Los Alamos County Code of Ordinances is amended to read as follows:

Sec. 40-202. - Determination of charges.

- (a) Residential customers will be billed for sewer service the customer charge pursuant to section 40-201(d) plus the fixed charge applicable pursuant to section 40-201(e) plus, if applicable, charges under section 40-203. For calculation of charges under section 40-203 the volume measurement for residential customers will be 1,000 gallons multiplied by the number of occupants of the residence.
- (b) Commercial customers will be billed for sewer service the customer charge applicable pursuant to section 40-201(d) plus, if applicable, charges under section 40-203, plus an amount equal to the variable rate multiplied by the customer's adjusted monthly average usage of potable water, as metered during the previous winter measuring period or other measuring period as determined appropriate by the department of public utilities based on seasonal or other nontraditional water usage pattern. The minimum variable amount shall be 2,000 gallons.
- (c) Adjustment factor. ~~The department shall compute an adjustment factor each year following the computation of the new winter average. The adjustment factor shall be the fraction required to convert the expected billing volume to the volume expected to be treated. An adjustment factor to convert the expected billing volume to the volume expected to be treated shall be added to all volume based billings. This factor shall be 16%.~~
- (d) The winter measuring period is defined as the three consecutive billing periods beginning with the billing period with a billing date in the month of December. The monthly average usage of potable water metered during the winter measuring period shall apply for a 12-month period beginning on the first day of the billing cycle that falls in the month of April of the year in which the winter measuring period ends.
- (e) In the event the customer's water usage was initiated after the commencement of the previous winter measuring period, the monthly average usage of potable water shall be

deemed to be equal to the average monthly usage of potable water for other comparable customers within the same class in the county.

(Ord. No. 85-25, § 1, 1985; Code 1985, § 13.20.020; Ord. No. 02-016, § 2, 10-8-02; Ord. No. 02-051, § 2, 2-8-2005; Ord. No. 02-089, § 2, 6-12-2007; Ord. No. 02-229, § 2, 2-26-2013)

Section 3. Effective Date. This Code Ordinance shall become effective upon adoption with the amended rates being applied at the next billing following the effective date.

Section 4. Severability. Should any section, paragraph, clause or provision of this ordinance, for any reason, be held to be invalid or unenforceable, the invalidity or unenforceability of such section, paragraph, clause or provision shall not affect any of the remaining provisions of this ordinance.

Section 5. Repealer. All ordinances or resolutions, or parts thereof, inconsistent herewith are hereby repealed only to the extent of such inconsistency. This repealer shall not be construed to revive any ordinance or resolution, or part thereof, heretofore repealed.

ADOPTED this 25th day of July, 2017.

**COUNCIL OF THE INCORPORATED
COUNTY OF LOS ALAMOS**

**David Izraelevitz
Council Chair**

ATTEST: (SEAL)

**Naomi D. Maestas
Los Alamos County Clerk**

Attachment A - Description of Different Plans for the Wastewater System (WWC + WWT)

Plan 10 – Revised Original Plan (2020)

- WR WWTP Replacement Value Engineering & Design in FY2019
- WR WWTP Replacement Construction in FY2020
- Refinance Existing LA WWTP Debt at a Lower Interest Rate with a 2% ReFi Fee
- Combine Refinance and WR WWTP Replacement and 12-Year LA WWTP Upgrade Projects @ 2.38% for 30 Years
- Maintain WWC CIP at the Original Proposed Pace = AWWA National Standard Value
- Financial Policy Recommended Cash Balance Met in FY2028

Plan 20 – Current Plan (2022)

- WR WWTP Replacement Value Engineering & Design in FY2021
- WR WWTP Replacement Construction in FY2022
- No Refinancing of Existing LA WWTP Debt
- Combine WR WWTP Replacement and 12-Year LA WWTP Upgrade Projects @ 2.38% for 20 Years
- Maintain WWC CIP at the Original Proposed Pace = AWWA National Standard Value
- Financial Policy Recommended Cash Balance Met in FY2031

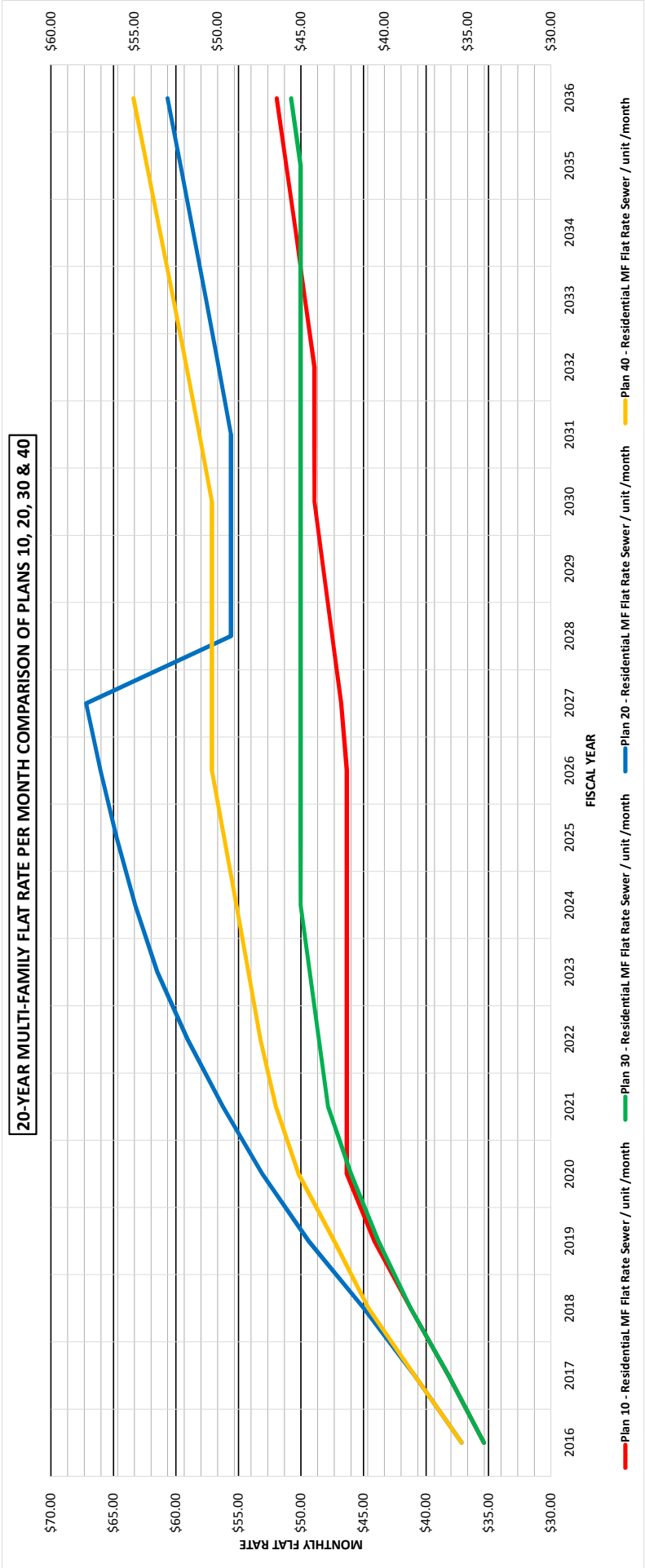
Plan 30 – 5-Year Plan (2025)

- WR WWTP 5-Year (53-Year) Upgrades and Replacement PER, Env. Clear. Design & Construction in FY2025
- No Refinancing of Existing LA WWTP Debt
- Combine WR WWTP Replacement and 18-Year LA WWTP Upgrade Projects in FY2025
- New Loan Proposed at 2.38% for 20 Years
- Maintain WWC CIP at the Original Proposed Pace = AWWA National Standard Value
- Financial Policy Recommended Cash Balance Met in FY2023

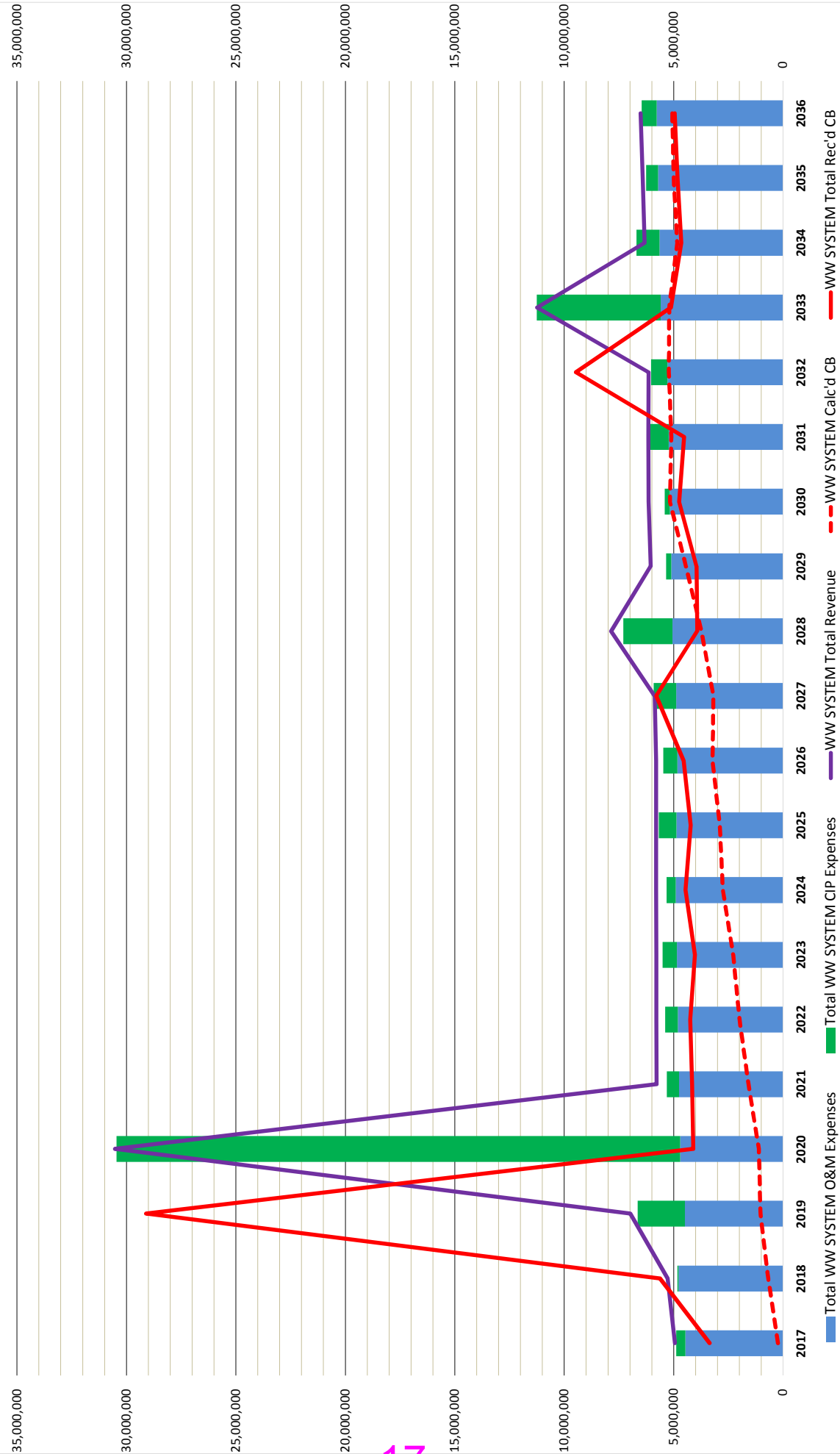
Plan 40 – 10-Year Plan (2030)

- WR WWTP Replacement PER, Env. Clear. & Design in FY2029
- WR WWTP Replacement Construction in FY2030
- No Refinancing of Existing LA WWTP Debt
- 17-Year Upgrade LA WWTP Project Financed from Cash Reserves in FY2024
- New Loan Proposed at 3.0% for 20 Years
- 26-Year Upgrade LA WWTP in FY2033 Financed by Loan @ 3.0% for 20 Years
- Maintain WWC CIP at the Original Proposed Pace = AWWA National Standard Value
- Financial Policy Recommended Cash Balance Met in FY2027-2031 Time Frame





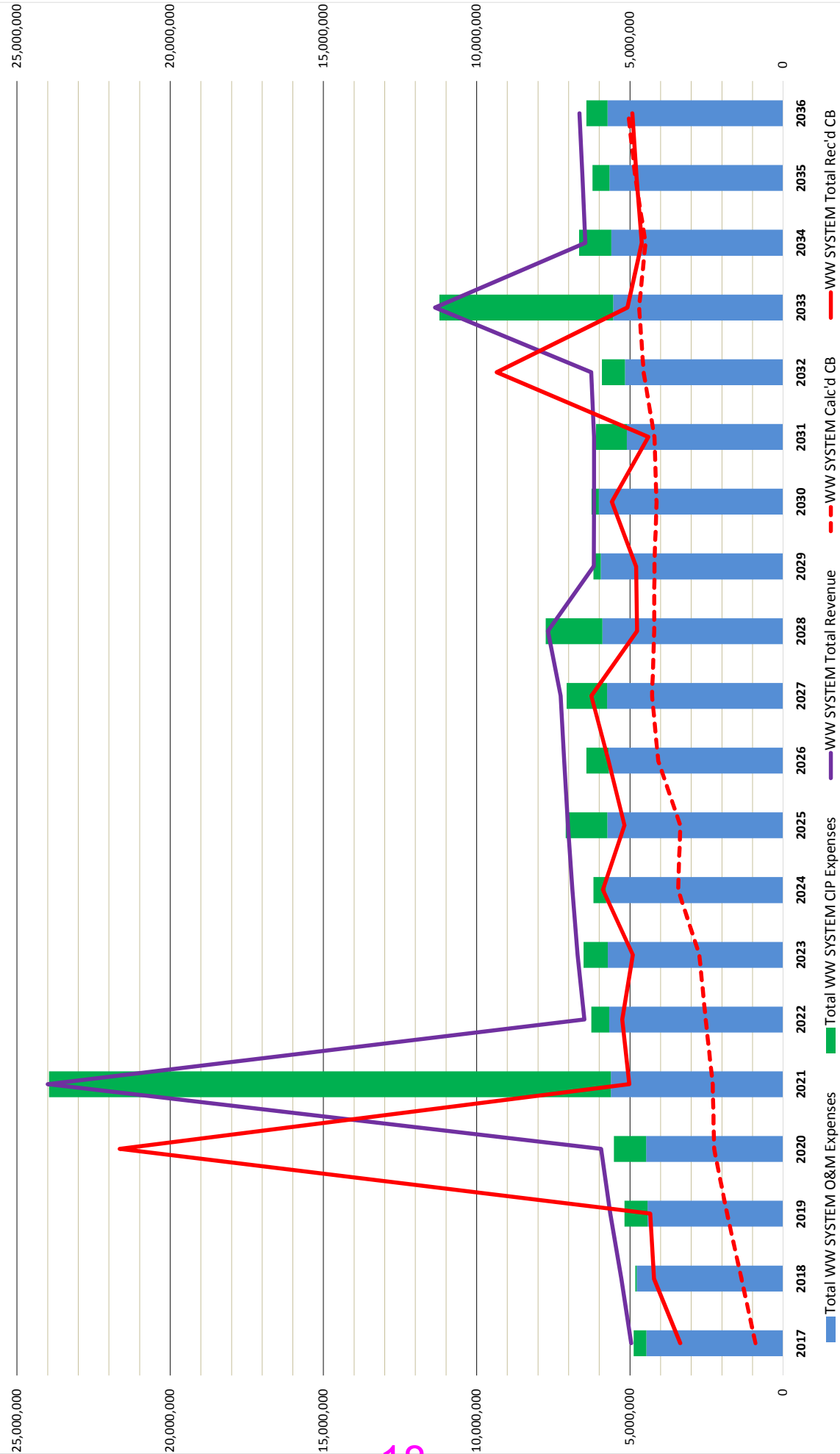
Plan 10 - Revised Original Plan (2020) - WW SYSTEM Total Revenue vs Total Expenses with Cash Balances (Calculated vs Recommended)

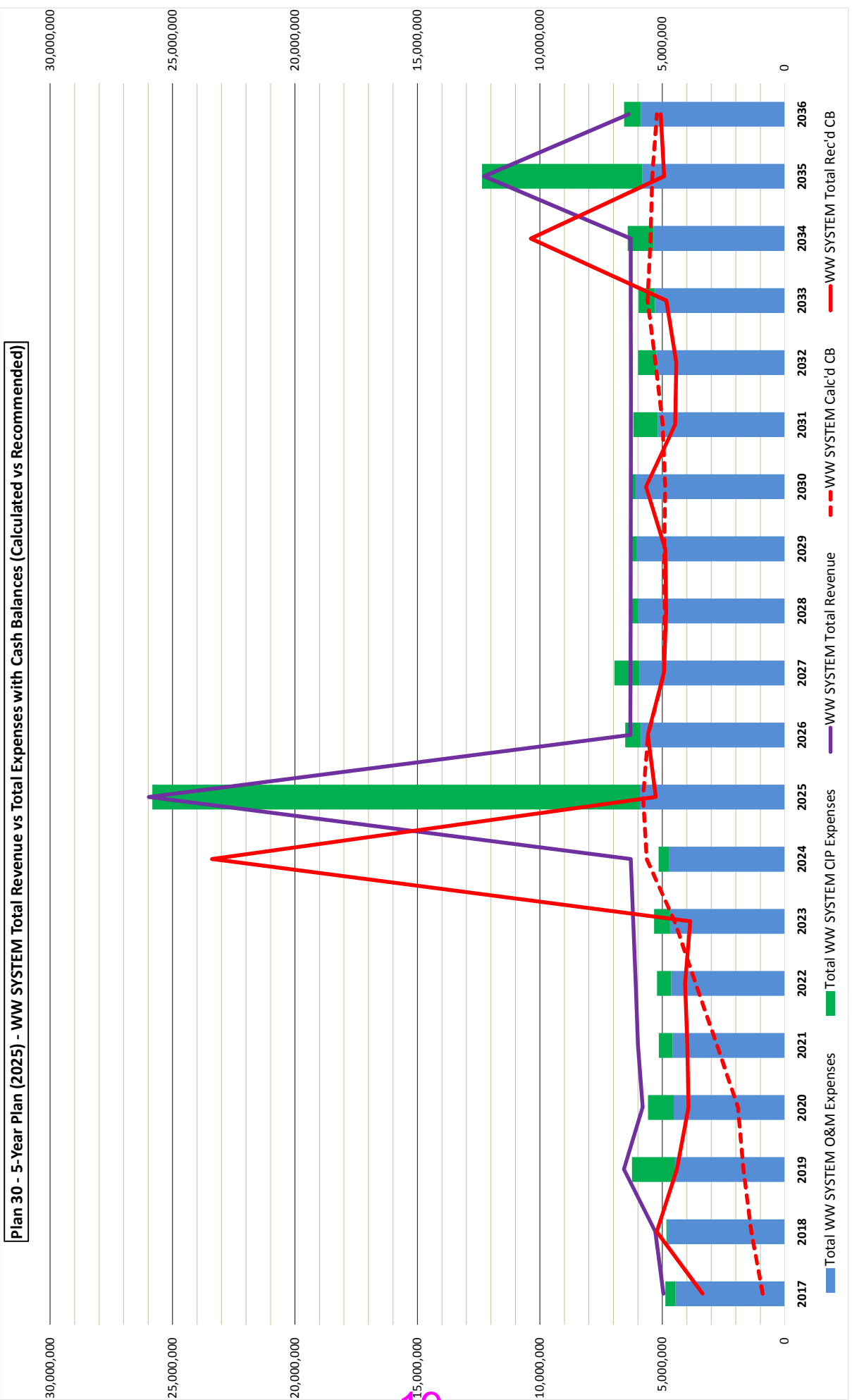


17

ATTACHMENT C1

Plan 20 - Current Budget Plan (2022) - WW SYSTEM Total Revenue vs Total Expenses with Cash Balances (Calculated vs Recommended)





Los Alamos County Department of Public Utilities
Proposed Wastewater Rate Increase
June 2017

Projected Average Sewer Bill for Residential Customers - PLAN 10

	Monthly Sewer	Rate Increase Percentage	Additional Annual Cost Over Previous Year	Los Alamos Median Household Income	Assumed Annual Income Increase	Percentage of Income Needed to Pay Sewer Bill
FY2017	\$43.94			\$105,989		0.50%
FY2018	\$47.46	8.00%	\$42.18	\$108,639	2.5%	0.52%
FY2019	\$50.78	7.00%	\$39.86	\$111,355	2.5%	0.55%
FY2020	\$53.32	5.00%	\$30.47	\$114,139	2.5%	0.56%
FY2021	\$53.32	0.00%	\$0.00	\$116,992	2.5%	0.55%
FY2022	\$53.32	0.00%	\$0.00	\$119,917	2.5%	0.53%
FY2023	\$53.32	0.00%	\$0.00	\$122,915	2.5%	0.52%
FY2024	\$53.32	0.00%	\$0.00	\$125,988	2.5%	0.51%
FY2025	\$53.32	0.00%	\$0.00	\$129,137	2.5%	0.50%
FY2026	\$53.32	0.00%	\$0.00	\$132,366	2.5%	0.48%
FY2027	\$53.85	1.00%	\$6.40	\$135,675	2.5%	0.48%

Los Alamos County Department of Public Utilities
Proposed Wastewater Rate Increase
June 2017

Projected Average Sewer Bill for Residential Customers - PLAN 20

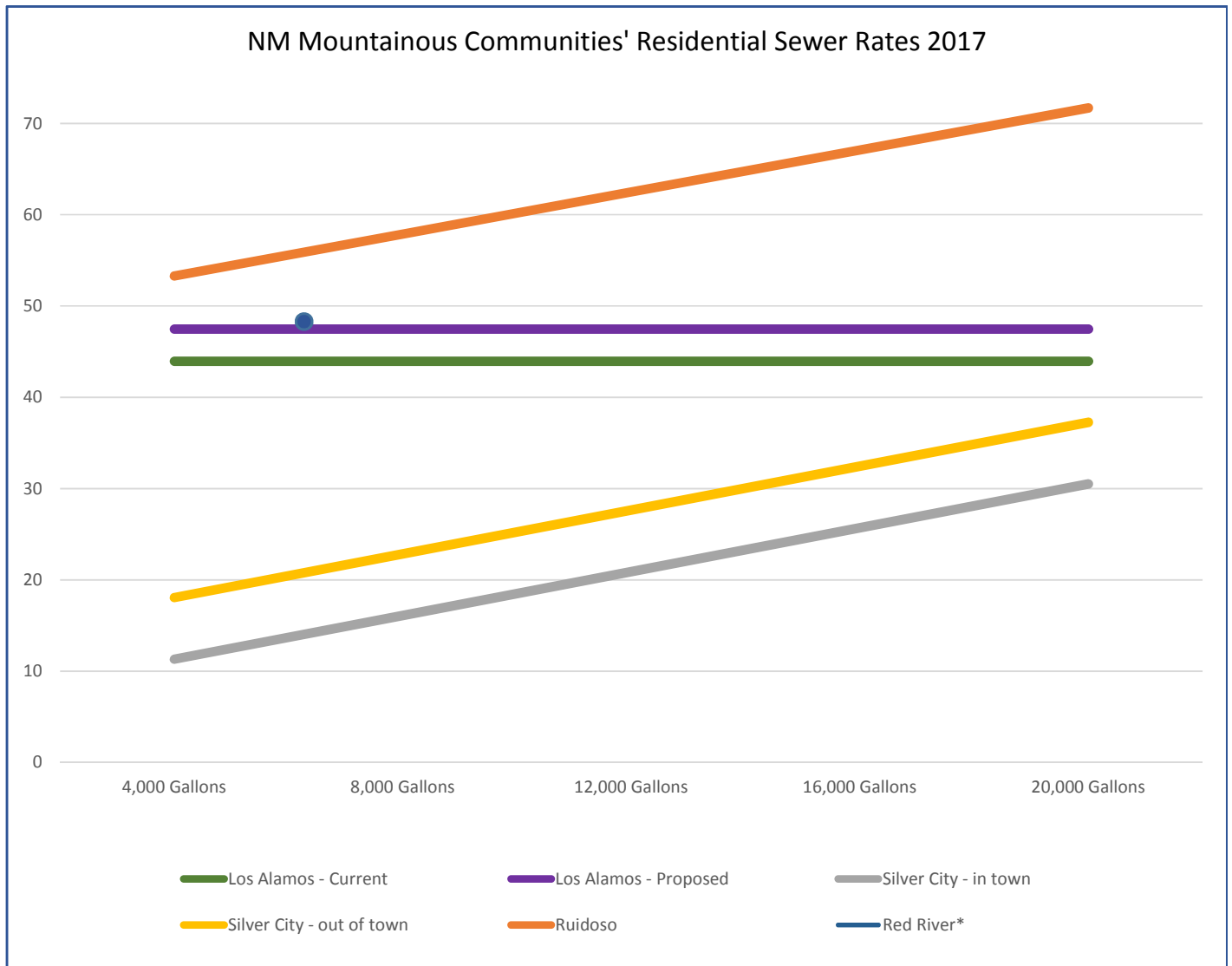
	Monthly Sewer	Rate Increase Percentage	Additional Annual Cost Over Previous Year	Los Alamos Median Household Income	Assumed Annual Income Increase	Percentage of Income Needed to Pay Sewer Bill
FY2017	\$43.94			\$105,989		0.50%
FY2018	\$47.46	8.00%	\$42.18	\$108,639	2.5%	0.52%
FY2019	\$51.25	8.00%	\$45.56	\$111,355	2.5%	0.55%
FY2020	\$54.45	6.25%	\$38.44	\$114,139	2.5%	0.57%
FY2021	\$57.18	5.00%	\$32.67	\$116,992	2.5%	0.59%
FY2022	\$59.61	4.25%	\$29.16	\$119,917	2.5%	0.60%
FY2023	\$61.69	3.50%	\$25.04	\$122,915	2.5%	0.60%
FY2024	\$63.24	2.50%	\$18.51	\$125,988	2.5%	0.60%
FY2025	\$64.50	2.00%	\$15.18	\$129,137	2.5%	0.60%
FY2026	\$65.63	1.75%	\$13.55	\$132,366	2.5%	0.59%
FY2027	\$66.61	1.50%	\$11.81	\$135,675	2.5%	0.59%

Los Alamos County Department of Public Utilities
Proposed Wastewater Rate Increase
June 2017

Projected Average Sewer Bill for Residential Customers - PLAN 30

	Monthly Sewer	Rate Increase Percentage	Additional Annual Cost Over Previous Year	Los Alamos Median Household Income	Assumed Annual Income Increase	Percentage of Income Needed to Pay Sewer Bill
FY2017	\$43.94			\$105,989		0.50%
FY2018	\$47.46	8.00%	\$42.18	\$108,639	2.5%	0.52%
FY2019	\$50.42	6.25%	\$35.59	\$111,355	2.5%	0.54%
FY2020	\$52.94	5.00%	\$30.25	\$114,139	2.5%	0.56%
FY2021	\$55.06	4.00%	\$25.41	\$116,992	2.5%	0.56%
FY2022	\$55.89	1.50%	\$9.91	\$119,917	2.5%	0.56%
FY2023	\$56.72	1.50%	\$10.06	\$122,915	2.5%	0.55%
FY2024	\$57.57	1.50%	\$10.21	\$125,988	2.5%	0.55%
FY2025	\$57.57	0.00%	\$0.00	\$129,137	2.5%	0.54%
FY2026	\$57.57	0.00%	\$0.00	\$132,366	2.5%	0.52%
FY2027	\$57.57	0.00%	\$0.00	\$135,675	2.5%	0.51%

Los Alamos County Department of Public Utilities
Proposed Wastewater Rate Increase
June 2017



RESIDENTIAL SEWER RATES: LOS ALAMOS VS. COMPARABLE COMMUNITIES

Monthly Usage	Los Alamos - Current	Los Alamos - Proposed	Silver City - in town	Silver City - out of town	Ruidoso	Taos Ski Valley	Red River*
4,000 Gallons	43.94	47.46	11.30	18.06	53.29	\$225.04	
6,000 Gallons	43.94	47.46	13.70	20.46	55.59	\$311.04	47.99
8,000 Gallons	43.94	47.46	16.10	22.86	57.89	\$397.04	
12,000 Gallons	43.94	47.46	20.90	27.66	62.49	\$569.04	
14,000 Gallons	43.94	47.46	23.30	30.06	64.79	\$655.04	
16,000 Gallons	43.94	47.46	25.70	32.46	67.09	\$741.04	
20,000 Gallons	43.94	47.46	30.50	37.26	71.69	\$913.04	
30,000 Gallons	43.94	47.46	42.50	49.26	83.19	\$1,343.04	

* Available data for Red River is for Dec. 2014, 6 kgal only.

**NOTICE OF PUBLIC HEARING FOR
INCORPORATED COUNTY OF LOS ALAMOS CODE ORDINANCE NO. 02-276
AN ORDINANCE AMENDING CHAPTER 40, ARTICLE III, SECTIONS 40-201 AND 40-202 OF THE
CODE OF THE INCORPORATED COUNTY OF LOS ALAMOS PERTAINING TO THE SEWAGE
SERVICE RATE SCHEDULE AND DETERMINATION OF CHARGES**

Notice is hereby given that the Board of Public Utilities (BPU), Incorporated County of Los Alamos, State of New Mexico, will hold a public hearing on June 21, 2017 at 5:30 p.m. at the Los Alamos Municipal Building at 1000 Central Avenue in Council Chambers. At this open meeting, the BPU will consider and receive public comment on Los Alamos County Code Ordinance No. 02-276. A full copy of the ordinance is available for inspection during regular business hours at the Department of Public Utilities at 1000 Central Avenue, Suite 130. A full copy can also be viewed online at <https://rebrand.ly/dpuwaterandsewerord>. Interested citizens are encouraged to attend this public hearing.

Jeff Johnson, Board of Public Utilities Chair
Published: June 1, 2017

Section 1. Section 40-201 of the Los Alamos County Code of Ordinances is amended to read as follows:

Sec. 40-201. - Sewage service rate schedules.

- (a) Residential rate service schedule 6-A is applicable only for normal domestic sewer service for individual residences, dwelling units, and individual apartments, where each unit is individually metered for water.
- (b) Residential rate service schedule 6-G is applicable only for normal domestic sewer service for multi-family dwelling units, individual apartments, and subdivisions or residential complexes where each unit is not individually metered by the county for water.
- (c) Commercial rate service schedule 6-K is applicable to all nonresidential sewer services.
- (d) Customer charges. Each account shall be billed a customer charge of ~~\$7.00~~\$10.27 per month per account ~~for billings processed through June 30, 2013; \$7.56 per month per account for billings processed after June 30, 2013; \$8.16 per month per account for billings processed after June 30, 2014; \$8.81 per month per account for billings processed after June 30, 2015; and \$9.51 per month per account for billings processed after June 30, 2016.~~
- (e) Fixed charges.
 - (1) To each customer billed under rate service schedule 6-A, ~~\$25.31~~\$37.18 per month per dwelling unit ~~for billings processed through June 30, 2013; \$27.33 per month per dwelling unit for billings processed after June 30, 2013; \$29.52 per month per dwelling unit for billings processed after June 30, 2014; \$31.88 per month per dwelling unit for billings processed after June 30, 2015; and \$34.43 per month per dwelling unit for billings processed after June 30, 2016.~~
 - (2) To each customer billed under rate service schedule 6-G, ~~\$21.09~~\$30.97 per month per dwelling unit ~~for billings processed through June 30, 2013; \$22.77 per month per dwelling unit for billings processed after June 30, 2013; \$24.59 per month per dwelling unit for billings processed after June 30, 2014; \$26.56 per month per dwelling unit for billings processed after June 30, 2015; and \$28.68 per month per dwelling unit for billings processed after June 30, 2016.~~
 - (3) To each customer billed under rate service schedule 6-K:

Water Meter Size	Service Charge Per Month
Under 2 inch	Reserved
2 inch	Reserved
3 inch	Reserved

4 inch	Reserved
6 inch	Reserved

- (f) Variable rate. The variable rate shall be applicable to customers billed under rate service schedule 6-K. The variable rate shall be ~~\$11.91~~\$17.50 per 1,000 gallons ~~for billings processed through June 30, 2013; \$12.86 per 1,000 gallons for billings processed after June 30, 2013; \$13.89 per 1,000 gallons for billings processed after June 30, 2014; \$15.00 per 1,000 gallons for billings processed after June 30, 2015; and \$16.20 per 1,000 gallons for billings processed after June 30, 2016.~~

Section 2. Section 40-202 of the Los Alamos County Code of Ordinances is amended to read as follows:

Sec. 40-202. - Determination of charges.

- (a) Residential customers will be billed for sewer service the customer charge pursuant to section 40-201(d) plus the fixed charge applicable pursuant to section 40-201(e) plus, if applicable, charges under section 40-203. For calculation of charges under section 40-203 the volume measurement for residential customers will be 1,000 gallons multiplied by the number of occupants of the residence.
- (b) Commercial customers will be billed for sewer service the customer charge applicable pursuant to section 40-201(d) plus, if applicable, charges under section 40-203, plus an amount equal to the variable rate multiplied by the customer's adjusted monthly average usage of potable water, as metered during the previous winter measuring period or other measuring period as determined appropriate by the department of public utilities based on seasonal or other nontraditional water usage pattern. The minimum variable amount shall be 2,000 gallons.
- (c) Adjustment factor. ~~The department shall compute an adjustment factor each year following the computation of the new winter average. The adjustment factor shall be the fraction required to convert the expected billing volume to the volume expected to be treated. An adjustment factor to convert the expected billing volume to the volume expected to be treated shall be added to all volume based billings. This factor shall be 16%.~~
- (d) The winter measuring period is defined as the three consecutive billing periods beginning with the billing period with a billing date in the month of December. The monthly average usage of potable water metered during the winter measuring period shall apply for a 12-month period beginning on the first day of the billing cycle that falls in the month of April of the year in which the winter measuring period ends.
- (e) In the event the customer's water usage was initiated after the commencement of the previous winter measuring period, the monthly average usage of potable water shall be deemed to be equal to the average monthly usage of potable water for other comparable customers within the same class in the county.



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 5.B
Index (Council Goals): BCC - N/A
Presenters: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
Legislative File: CO0488-17

Title

Approval of Incorporated County of Los Alamos Code Ordinance No. 02-275, An Ordinance Amending Chapter 40, Article III, Sections 40-171 and 40-175 of the Code of the Incorporated County of Los Alamos Pertaining to Potable Water Rates and Bulk Delivery Rates

Recommended Action

I move that the Board of Public Utilities approve Incorporated County of Los Alamos Code Ordinance No. 02-275, An Ordinance Amending Chapter 40, Article III, Sections 40-171 and 40-175 of the Code of the Incorporated County of Los Alamos Pertaining to Potable Water Rates and Bulk Delivery Rates and forward to Council with a recommendation for adoption.

Staff Recommendation

Staff recommends the motion be passed as presented.

Body

The ten-year forecast for the water utility presented with the FY2018 budget includes a series of incremental rate increases to generate revenues needed for current operations and to build cash reserves necessary for future infrastructure needs. Over the course of several meetings of the Board of Public Utilities in the fall of 2016 several alternative scenarios were considered. After discussion, "scenario 40" was selected as the most reasonable balance between increased rates and necessary system expenditures, and was the foundation upon which the ten-year budgetary projection was based. An 8% increase in both retail and wholesale sales is proposed. These rate increases were included in the FY2018 budget, and are proposed for implementation effective with our customer's first billing period beginning after August 1st, 2017.

The proposed water rate ordinance is attached as Attachment A.

Water Distribution and Water Production are separate "sub funds" of the Water Utility. Starting when the water system was transferred from the DOE in 1998, wholesale water rates have been designed to provide for future well replacements, so the Water Production sub-fund has always maintained a significant cash balance. As has been discussed previously, over the past several years the DPU overestimated anticipated distribution system sales, resulting in revenues in DW less than budgeted. Capital replacement projects meanwhile were budgeted and executed based on those higher sales projections. The result is that cash reserve balances in the DW sub-fund are now significantly less than needed to

satisfy policy targets and to fund upcoming capital replacement work.

In the last two years, we have adjusted downward the projected sales quantities and curtailed those projects that were not essential. This and future proposed rate actions should restore cash flow to an acceptable level. While it may take some time to reach our target levels in the Water Utility overall, this plan will provide adequate funding for necessary repairs and replacements and continuing operations. Cash reserves will also increase to our target levels within a reasonable time frame, as shown on the charts attached.

Attachments B1, B2, and B3 show the cash flow projections for the scenario endorsed by the BPU. These charts show several important financial data points, most notably revenues compared to O&M plus capital expenditures, a running total of the estimated cash balance, and a representation of the required cash balance per our financial targets in each year. Note, the ideal is where the actual cash balance equals the required cash balance, and this comparison can readily be discerned on each graph. B1 is for WP by itself, B2 is for DW by itself, and B3 is for the water system overall.

Attachment C1 shows a comparison of Los Alamos' projected annual residential water bill with those of nearby communities, using 6,000 gallons as a representative consumption quantity. Attachment C2 shows a comparison of monthly bills with the same communities, but at various consumption quantities. Both show that after the proposed increase Los Alamos remains competitive with its neighboring communities.

Attachment D shows the longer-term rate projections included in the first ten years of "scenario 40", and includes the amount of the projected annual increase per household.

Alternatives

Several alternative financial scenarios were presented and discussed by the Board last fall. Any of those scenarios could be reconsidered as an alternative to the proposal presented here. As noted above, in all the scenarios discussed a series of rate increases are going to be needed to fund necessary operations and replacement of facilities through rates. Other scenarios could be considered with more significant rate increases being implemented to fund more rapid system upgrades. If no action is taken, we would have to continue to curtail maintenance and replacements and system reliability would eventually suffer.

Fiscal and Staff Impact

The budgeted 8% increase is expected to generate \$771,183 additional revenue annually.

Attachments

A - Draft Rate Ordinance

B - Cash Flow Projections for twenty year period

1. Water Production
2. Water Distribution
3. Water Utility Total

C - FY2018 Comparison to similar neighboring communities

1. Annual, using 6,000 gallons average monthly consumption
2. Monthly at various consumption quantities

D - Ten-year rate projections under "Scenario 40" and annual impact on average residential

customer.

E - Water rate history

F - Notice of Public Hearing

INCORPORATED COUNTY OF LOS ALAMOS CODE ORDINANCE NO. 02-275

**AN ORDINANCE AMENDING CHAPTER 40, ARTICLE III, SECTIONS 40-171 AND 40-175
OF THE CODE OF THE INCORPORATED COUNTY OF LOS ALAMOS
PERTAINING TO POTABLE WATER RATES AND BULK DELIVERY RATES**

BE IT ORDAINED BY THE GOVERNING BODY OF THE INCORPORATED COUNTY OF LOS ALAMOS as follows:

Section 1. Section 40-171 of the Code of the Incorporated County of Los Alamos is amended to read as follows:

Sec. 40-171. Potable water rate schedule 8-A.

(a) *Applicability.* Potable water rate schedule 8-A is applicable to all classes of retail customers whether commercial, residential or otherwise. The rate shall consist of a service charge plus a water consumption charge.

(b) *Service charge.*

<i>Water Meter Size</i>	<i>Service Charge Per Meter Per Month</i>
1-1/4 inch and under	\$ 8.72 — 9.42
1-1/2-inch	27.63 — 29.84
2-inch	41.25 — 44.55
2 1/2-inch, 3-inch	81.40 — 87.91
4-inch	138.60 — 149.69
6-inch	292.60 — 316.01
8 inch	483.45 — 522.13

(c) *Water consumption charge.* The water consumption charge shall be charged to each customer billed under rate schedule 8-A according to the following schedule:

Consumption Oct—Apr (Non-Peak Season) Commodity Rate Per 1,000 Gallons				Consumption May—Sept (Peak Season) Commodity Rate Per 1,000 Gallons			
Monthly usage	<9,000 gal	9—15,000 gal	>15,000 gal	Monthly usage	<9,000 gal	9—15,000 gal	>15,000 gal
Residential	4.61 <u>4.98</u>	4.61 <u>4.98</u>	4.61 <u>4.98</u>	Residential	4.61 <u>4.98</u>	4.90 <u>5.29</u>	5.85 <u>6.32</u>
Multi-family	4.61 <u>4.98</u>	4.61 <u>4.98</u>	4.61 <u>4.98</u>	Multi-family	4.61 <u>4.98</u>	4.84 <u>5.23</u>	4.95 <u>5.35</u>
Commercial	4.61 <u>4.98</u>	4.61 <u>4.98</u>	4.61 <u>4.98</u>	Commercial	4.61 <u>4.98</u>	4.61 <u>4.98</u>	4.61 <u>4.98</u>
County/Schools	4.61 <u>4.98</u>	4.61 <u>4.98</u>	4.61 <u>4.98</u>	County/Schools	4.61 <u>4.98</u>	4.61 <u>4.98</u>	4.61 <u>4.98</u>

Section 2. Section 40-175 of the Code of the Incorporated County of Los Alamos is amended to read as follows:

Sec. 40-175. Bulk delivery rate schedule 8-D.

(a) Applicability. Schedule 8-D is applicable to all bulk water sold and delivered to bulk points of delivery. The rate shall consist of a service charge plus a water consumption charge.

(b) The bulk delivery rate for water sold and delivered to bulk points of delivery shall be ~~\$3.17~~\$3.42 per 1,000 gallons.

(c) The customer service charge for water sold and delivered to bulk points of delivery shall be ~~\$596.20~~\$643.90 per month per customer.

Section 3. Effective Date. This Code Ordinance shall become effective upon adoption with the amended rates being applied at the next billing following the effective date.

Section 4. Severability. Should any section, paragraph, clause or provision of this ordinance, for any reason, be held to be invalid or unenforceable, the invalidity or unenforceability of such section, paragraph, clause or provision shall not affect any of the remaining provisions of this ordinance.

Section 5. Repealer. All ordinance or resolutions, or parts thereof, inconsistent herewith are hereby repealed only to the extent of such inconsistency. This repealer shall not be construed to revive any ordinance or resolution, or part thereof, heretofore repealed.

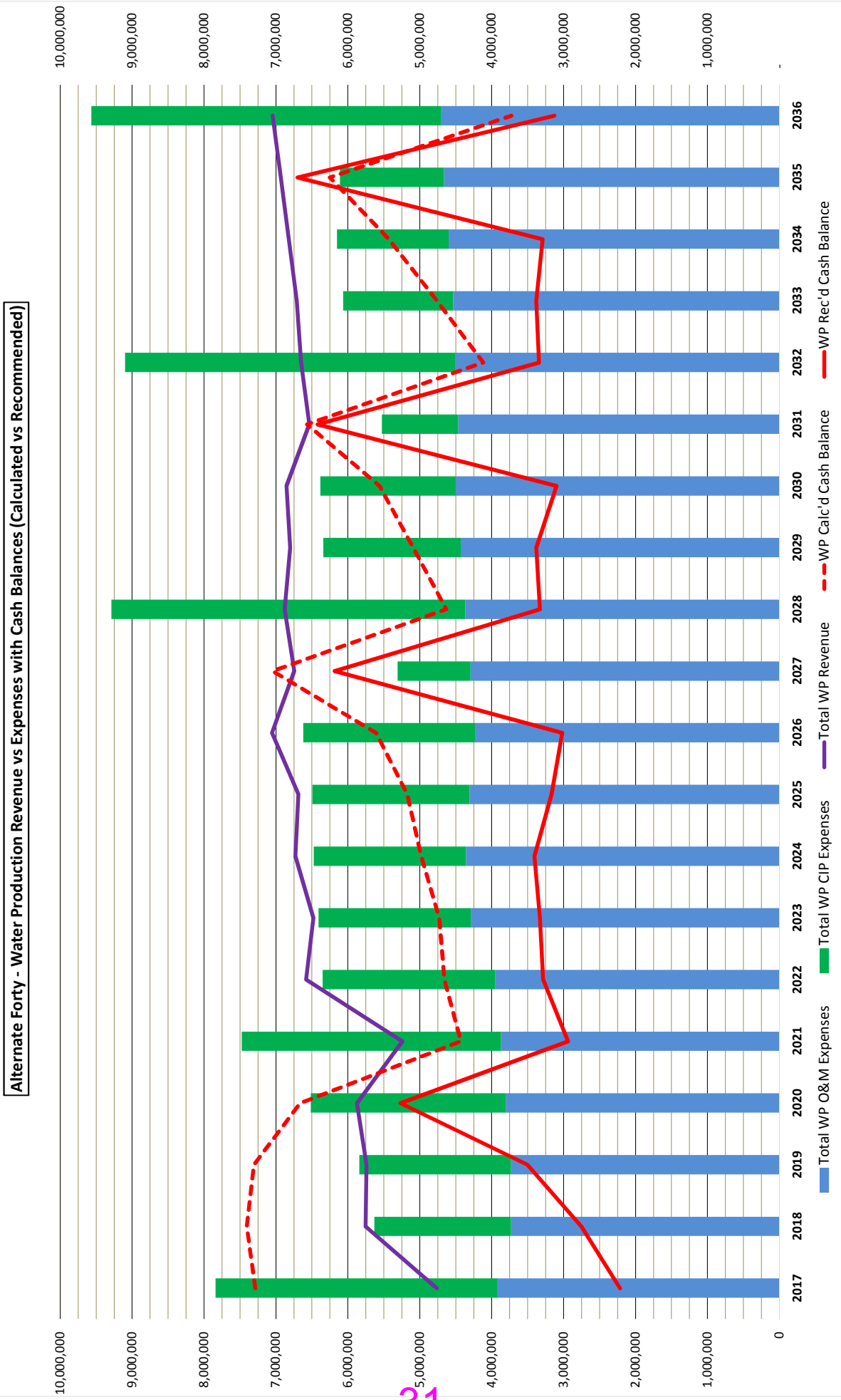
ADOPTED this 25th day of July, 2017.

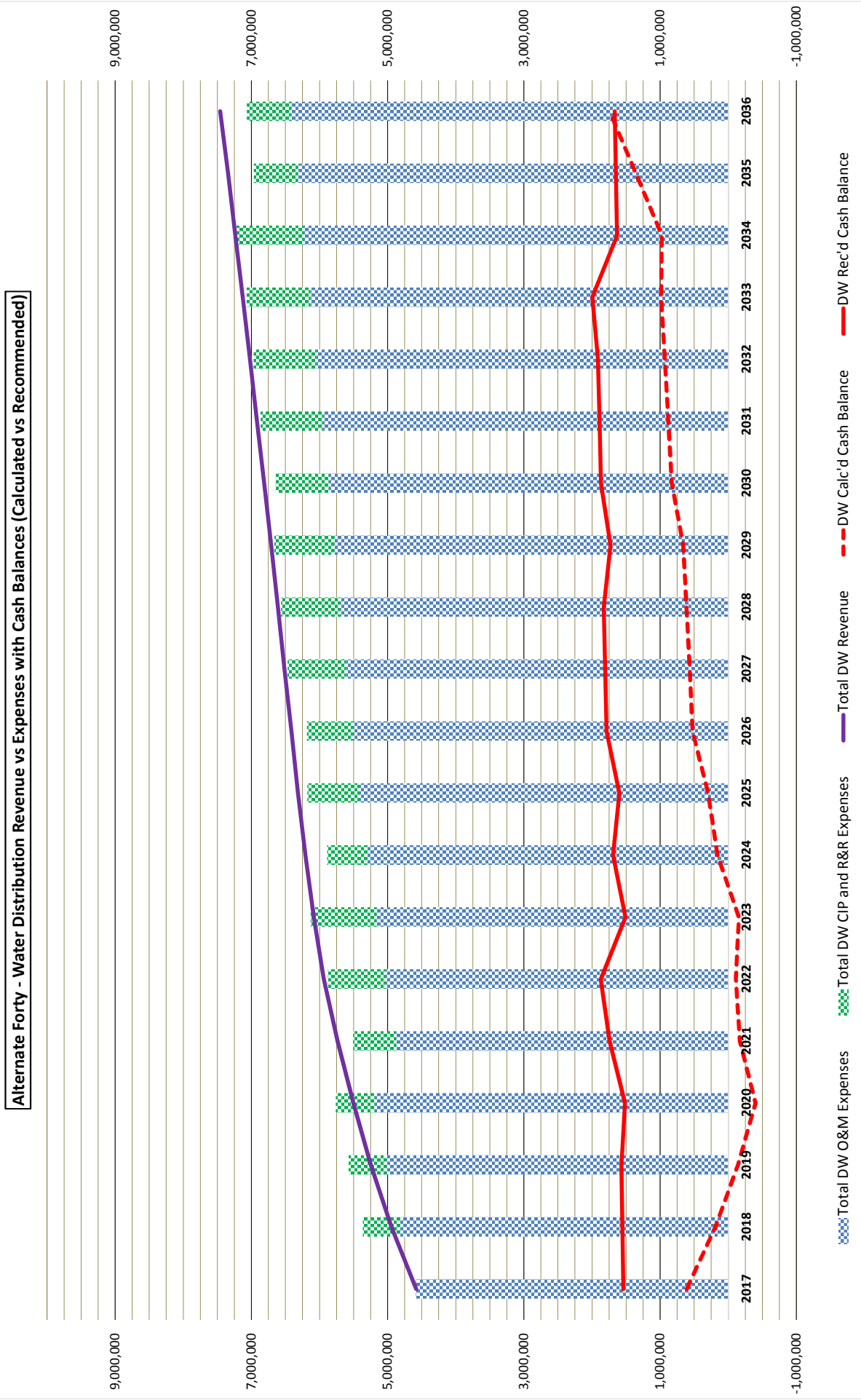
**COUNCIL OF THE INCORPORATED
COUNTY OF LOS ALAMOS**

**David Izraelevitz
Council Chair**

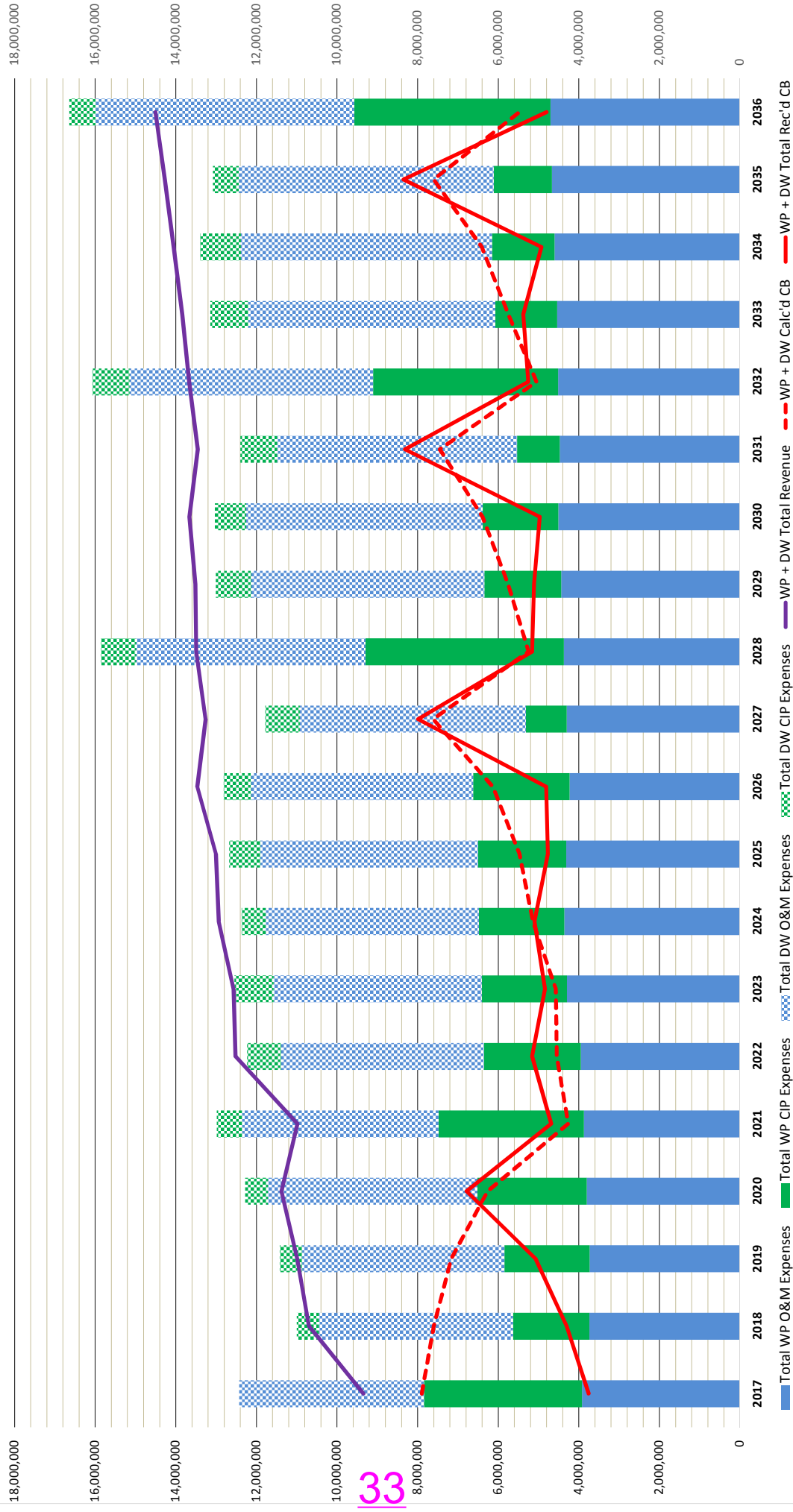
ATTEST: (SEAL)

**Naomi D. Maestas
Los Alamos County Clerk**





Alternate Forty - WP + DW Total Revenue vs Total Expenses with Cash Balances (Calculated vs Recommended)

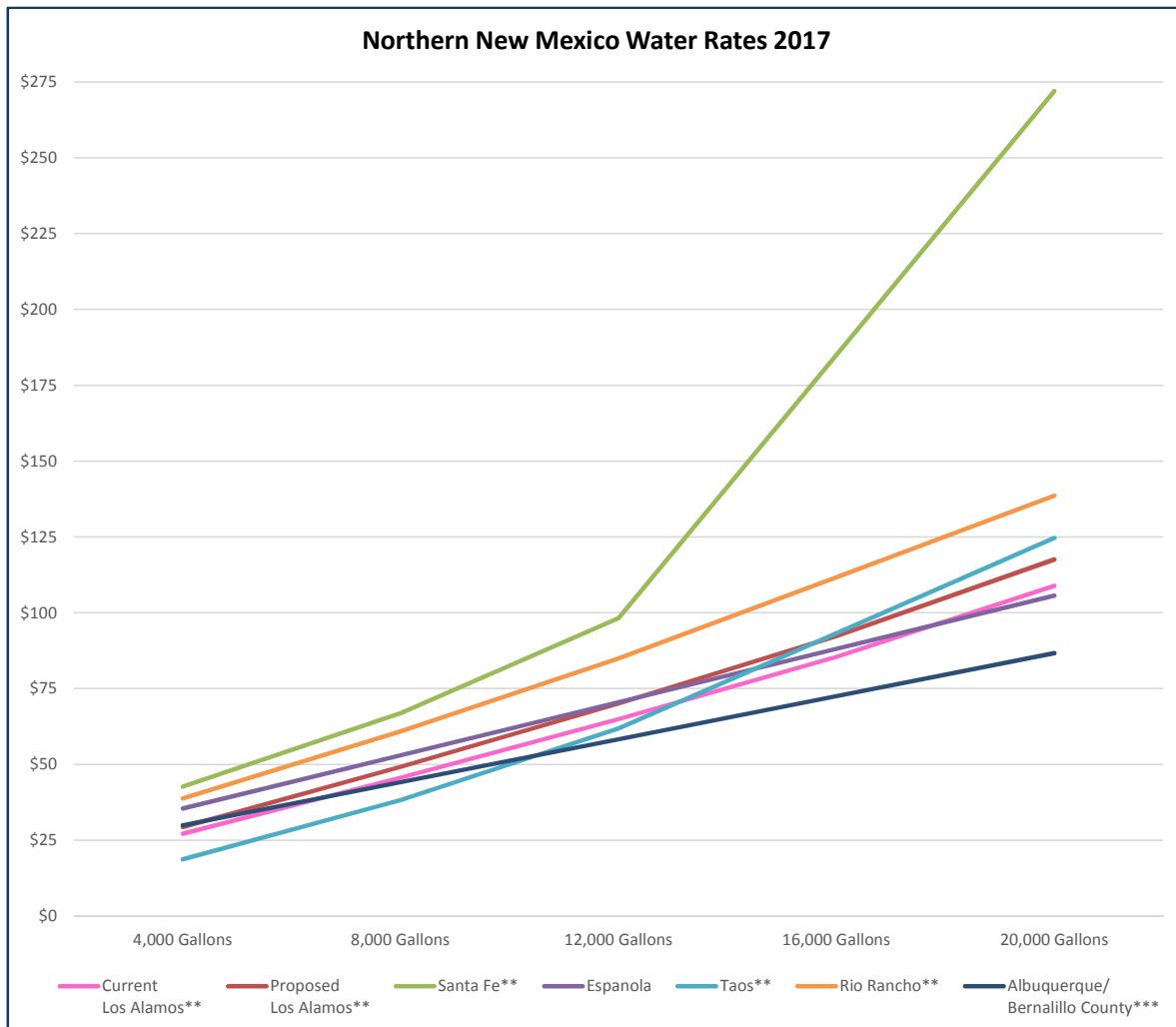


Los Alamos County Department of Public Utilities
Proposed Water Rate Increase
June 2017

**IMPACT ON RATE PAYERS:
Los Alamos and Neighboring Communities**

	Annual Water	median income	%age of income
Current Los Alamos	436.56	105,989	0.41%
Proposed Los Alamos	471.60	108,639	0.43%
Albuquerque/Bernalillo County	444.33	47,413	0.94%
Taos	318.36	32,076	0.99%
Rio Rancho	593.40	59,243	1.00%
Santa Fe	657.36	50,213	1.31%
Espanola	531.12	30,336	1.75%
NEIGHBORS' AVERAGES	508.91	43,856	1.20%

Los Alamos County Department of Public Utilities
Proposed Water Rate Increase
June 2017



SAMPLE RESIDENTIAL BILL - Assuming 5/8" Meter & PEAK Season*

Monthly Usage	Current Los Alamos**	Proposed Los Alamos**	Santa Fe**	Espanola	Taos**	Rio Rancho**	Albuquerque/ Bernalillo County***
4,000 Gallons	27.16	29.34	42.66	35.49	18.69	38.81	29.94
6,000 Gallons	36.38	39.30	54.78	44.26	26.53	49.45	37.03
8,000 Gallons	45.60	49.26	66.90	53.03	38.31	60.97	44.12
12,000 Gallons	64.91	70.11	98.22	70.56	61.87	84.91	58.30
14,000 Gallons	74.71	80.69	141.66	79.33	77.57	98.33	65.39
16,000 Gallons	85.46	92.30	185.10	88.10	93.27	111.75	72.48
20,000 Gallons	108.86	117.58	271.98	105.63	124.67	138.59	86.66
30,000 Gallons	167.36	180.78	489.18	149.47	203.17	205.69	122.11

* For comparison purposes, August was used for all locations

** Tiered or seasonal rates apply for this jurisdiction

*** Rates shown DO NOT include the surcharges for usage in excess of a citizen's water budget calculated by season and winter mean which can be up to 100% of commodity charge. Drought surcharges of up to 400 percent may also apply.

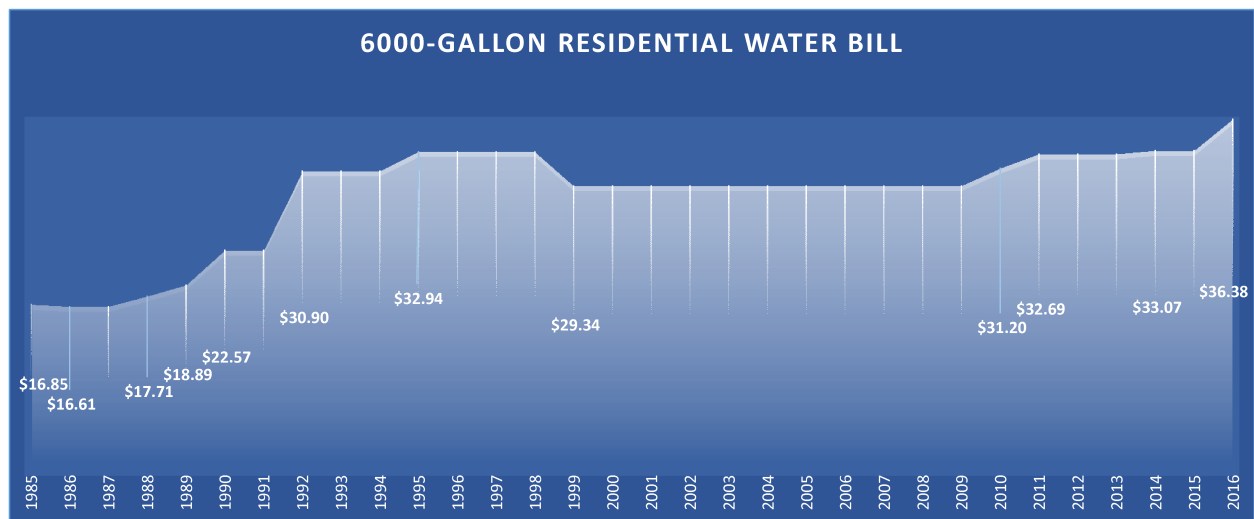
Los Alamos County Department of Public Utilities
Proposed Water Rate Increase
June 2017

Projected Average Water Bill for Residential Customers

	6,000 Gallon per Month Water Bill	Rate Increase Percentage	Additional Annual Cost Over Previous Year	Los Alamos Median Household Income	Assumed Annual Income Increase	Percentage of Income Needed to Pay Water Bill
FY2017	\$36.38			\$105,989		0.41%
FY2018	\$39.30	8.00%	\$35.04	\$108,639	2.5%	0.43%
FY2019	\$41.76	6.25%	\$29.48	\$111,355	2.5%	0.45%
FY2020	\$43.84	5.00%	\$25.05	\$114,139	2.5%	0.46%
FY2021	\$45.71	4.25%	\$22.36	\$116,992	2.5%	0.47%
FY2022	\$47.31	3.50%	\$19.20	\$119,917	2.5%	0.47%
FY2023	\$48.49	2.50%	\$14.19	\$122,915	2.5%	0.47%
FY2024	\$49.46	2.00%	\$11.64	\$125,988	2.5%	0.47%
FY2025	\$50.33	1.75%	\$10.39	\$129,137	2.5%	0.47%
FY2026	\$51.08	1.50%	\$9.06	\$132,366	2.5%	0.46%
FY2027	\$51.85	1.50%	\$9.19	\$135,675	2.5%	0.46%

**DEPARTMENT OF PUBLIC UTILITIES, LOS ALAMOS COUNTY
RESIDENTIAL WATER RATE HISTORY**

Service Charge by Meter Size								Peak Commodity Rates by Tier			Non-Peak Commodity Rate / kgal	Date Adopted
								<9K gallons	9K-15K gallons	>15K gallons		
<1"	1"	1.5"	2"	2.5-3"	4"	6"	8"					
8.72	8.72	27.63	41.25	81.40	138.60	292.60	483.45	4.61	4.90	5.85	4.61	9/27/2016
7.93	7.93	25.12	37.50	74.00	126.00	266.00	439.50	4.19	4.45	5.32	4.19	7/8/2014
7.55	8.80	24.00	35.00	60.00	93.00	180.00	275.00				4.19	7/5/2011
7.50	8.50	20.00	30.00	50.00	75.00	100.00	150.00				3.95	3/23/2010
7.02	7.02	12.55	20.46	27.58	32.32	41.81					3.72	4/20/1999
7.02	7.02	12.55	20.46	27.58	32.32	41.81					4.32	11/6/1995
7.02	7.02	12.55	20.46	27.58	32.32	41.81					3.98	6/15/1992
4.63	4.63	7.67	10.63	11.60	12.79	33.25					2.99	11/5/1990
3.95	3.95	6.54	9.06	9.89	10.90	28.34					2.49	6/26/1989
4.21	4.21	6.96	9.65	10.53	11.61	30.18					2.25	6/20/1988
6.47	6.47	10.70	14.82	16.17	17.83	46.37					1.69	10/6/1986
6.47	6.47	10.70	14.82	16.17	17.83	46.37					1.73	9/23/1985



**NOTICE OF PUBLIC HEARING FOR
INCORPORATED COUNTY OF LOS ALAMOS CODE ORDINANCE NO. 02-275
AN ORDINANCE AMENDING CHAPTER 40, ARTICLE III, SECTIONS 40-171 AND 40-175 OF THE
CODE OF THE INCORPORATED COUNTY OF LOS ALAMOS PERTAINING TO POTABLE WATER
RATES AND BULK DELIVERY RATES**

Notice is hereby given that the Board of Public Utilities (BPU), Incorporated County of Los Alamos, State of New Mexico, will hold a public hearing on June 21, 2017 at 5:30 p.m. at the Los Alamos Municipal Building at 1000 Central Avenue in Council Chambers. At this open meeting, the BPU will consider and receive public comment on Los Alamos County Code Ordinance No. 02-275. A full copy of the ordinance is available for inspection during regular business hours at the Department of Public Utilities at 1000 Central Avenue, Suite 130. A full copy can also be viewed online at <https://rebrand.ly/dpuwaterandsewerord>. Interested citizens are encouraged to attend this public hearing.

Jeff Johnson, Board of Public Utilities Chair
Published: June 1, 2017

Section 1. Section 40-171 of the Code of the Incorporated County of Los Alamos is amended to read as follows:

Sec. 40-171. Potable water rate schedule 8-A.

(a) *Applicability.* Potable water rate schedule 8-A is applicable to all classes of retail customers whether commercial, residential or otherwise. The rate shall consist of a service charge plus a water consumption charge.

(b) *Service charge.*

<i>Water Meter Size</i>	<i>Service Charge Per Meter Per Month</i>
1-1/4 inch and under	\$ 8.72 <u>9.42</u>
1-1/2-inch	27.63 <u>29.84</u>
2-inch	41.25 <u>44.55</u>
2 1/2-inch, 3-inch	81.40 <u>87.91</u>
4-inch	138.60 <u>149.69</u>
6-inch	292.60 <u>316.01</u>
8 inch	483.45 <u>522.13</u>

(c) *Water consumption charge.* The water consumption charge shall be charged to each customer billed under rate schedule 8-A according to the following schedule:

Consumption Oct—Apr (Non-Peak Season) Commodity Rate Per 1,000 Gallons				Consumption May—Sept (Peak Season) Commodity Rate Per 1,000 Gallons			
Monthly usage	<9,000 gal	9—15,000 gal	>15,000 gal	Monthly usage	<9,000 gal	9—15,000 gal	>15,000 gal
Residential	4.614.98	4.614.98	4.614.98	Residential	4.614.98	4.90 <u>5.29</u>	5.85 <u>6.32</u>
Multi-family	4.614.98	4.614.98	4.614.98	Multi-family	4.614.98	4.84 <u>5.23</u>	4.95 <u>5.35</u>
Commercial	4.614.98	4.614.98	4.614.98	Commercial	4.614.98	4.614.98	4.614.98
County/Schools	4.614.98	4.614.98	4.614.98	County/Schools	4.614.98	4.614.98	4.614.98

Section 2. Section 40-175 of the Code of the Incorporated County of Los Alamos is amended to read as follows:

Sec. 40-175. Bulk delivery rate schedule 8-D.

(a) Applicability. Schedule 8-D is applicable to all bulk water sold and delivered to bulk points of delivery. The rate shall consist of a service charge plus a water consumption charge.

(b) The bulk delivery rate for water sold and delivered to bulk points of delivery shall be ~~\$3.17~~\$3.42 per 1,000 gallons.

(c) The customer service charge for water sold and delivered to bulk points of delivery shall be ~~\$596.20~~\$643.90 per month per customer.



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 5.C
Index (Council Goals): BCC - N/A
Presenters: James Alarid, Deputy Utilities Manager - Engineering
Legislative File: 9479-17

Title

Public Hearing for Revisions to the Department of Public Utilities Rules and Regulations Fee Schedule: Gas - Excess Flow Valves

Recommended Action

I move that the Board of Public Utilities approve the revisions to the Department of Public Utilities Rules and Regulations Fee Schedule as presented.

Staff Recommendation

Staff recommends approval of the revised fee schedule.

Body

Recent revisions to 49 CFR 192.383 & 192.385 mandate that all new gas services and gas service replacements be equipped with an excess flow valve (EFV) or a service line valve. An EFV will be installed on a service line with a design load up to 1,000 cubic-feet per hour. A service valve would be used on services with design loads in excess of 1,000 cubic-feet per hour. Both are buried valves inline with the service line placed as close to the connection to the main as practical.

Prior to this regulatory change, installation of an EFV was an option to customers when a new service line or replacement line was installed. Our fee was \$150 to install the new EFV as part of a new installation if chosen by the customer. Now that all new services and replacement services require an EFV or service line valve, we have increased the new 3/4" gas service installation costs by \$150 to capture the cost.

In addition, gas utilities are required to inform all customers that they have the option to request an excess flow valve (EFV). We are adding new fees for the installation of an EFV or service line valve on an existing gas service as follows.

1. Install a new EFV on an existing polyethylene service line
2. Install a new EFV on an existing steel service line
3. Install a new service valve on an existing polyethylene service line
4. Install a new service valve on an existing steel service line

The installation costs vary greatly dependent on the service line material. Work on steel lines require that DPU hire the services of a contractor with an API 11-04 qualified welder. Due to this, work on steel lines is about four times the cost.

Alternatives

If the fee schedule is not approved, the fixed fee for new services will not be accurate and installations on existing service lines will be estimated on a case by case basis.

Fiscal and Staff Impact

There is no fiscal impact, the revised fees will cover the actual cost of the work performed.

Attachments

A - Revised Fee Schedule

**RULES AND REGULATIONS
FEE SCHEDULE (FS)**

Administrative Fees		
Account Initiation and Transfer Fee	\$10	
Reconnection following disconnection for non-payment – normal hours	\$60	Per trip to location, 8:00 AM to 4:00 PM M-F
Reconnection following disconnection for non-payment – after normal hours	\$200	Per trip to location, after hours, weekends and holidays
Door Hanger Fee	\$10	Per occurrence
Deposits		
Residential	\$60 per meter	
Commercial	Variable	Two times the highest anticipated monthly bill
Water hydrant meter	\$1,500	All commodity charges shall be at the filed and approved rate schedule
Service Fees		
Disconnection or reconnection of electric, gas or water – normal hours – No charge for first trip in a 24-hr period, thereafter each trip is \$75	No Charge (first trip) \$75 each additional trip	Per trip to location, 8:00 AM to 4:00 PM M-F
Emergency disconnection or reconnection of electric, gas or water – after normal hours	No Charge	Per trip to location, after hours, weekends and holidays
Non –Emergency_ disconnection or reconnection of electric, gas or water – after normal hours	\$200	Per trip to location, after hours, weekends and holidays
Furnace check fees	\$100	For up to two furnaces
Meter Test Fees (Requested by customer)		
Electric meters, all sizes	\$125	
Water meters 5/8 inch through 1-1/2 inch	\$150	
Water meters greater than 1-1/2 inch (in place test)	\$150	
Construction Fees		
New Service Installations		
100 amp electric residential service installation less than 150 feet	\$850	Prepaid
200 amp electric residential service installation less than 150 feet	\$1008	Prepaid
Residential Net Meter application & inspection (2 trips), incremental cost of Net meter and labor to install Net meter	\$260	Prepaid

SECTION REVISIONS: 01/18/2017, 08/17/2015, 12/17/2014, 11/20/2014, 07/18/2012, 01/24/2007, 05/17/2006

Commercial Net Meter application & inspection (2 trips), incremental cost of Net meter and labor to install Net meter	\$450	Prepaid
All other electric service installations	Estimated cost	Prepaid
¾ inch gas residential service installation less than 150 feet	\$940 \$1090	Prepaid
¾ inch service line up to 150 feet, tap to main, and meter, out of road	\$1065 \$1215	Prepaid
¾ inch service line up to 150 feet, tap to main in paved road, and meter	\$2747 \$2897	Prepaid
Excess Flow Valve Installation	\$150	
Install ¾" – 1" excess flow valve on existing polyethylene service line	\$616	Prepaid
Install ¾" – 1" excess flow valve on existing steel service line	\$2422	Prepaid
Install gas valve on existing polyethylene service line	\$662	Prepaid
Install gas valve on existing steel service line	\$2710	Prepaid
All other gas service installations	Estimated cost	Prepaid
¾ inch water meter	\$416	Prepaid
¾ inch water meter with box, install out of road	\$1700	Prepaid
¾ inch water meter with box, with tap in paved road	\$3508	Prepaid
4 inch sewer tap and saddle with sewer main exposed by customer	\$410	Prepaid
All other work including sewer installations, service relocations and replacement	Estimated cost	Prepaid
North Mesa Connection Charges		
\$250 charge per undeveloped unit where the unit is located in a subdivision where the final plat has been formally accepted by the County, the charge shall be paid for by the individual customer or contractor at the time a water meter is requested	\$250 per unit	
Where the unit is located in a subdivision where the final plat has not been accepted by the County, the charge shall be paid by the subdivision's developer at the time the final plat is filed with the County	\$250 per unit	
Inspection Fees for Subdivisions/Commercial Utility Infrastructure		
Fees for inspection will be based on a percentage of the construction cost estimate for the public Utility infrastructure. Estimate shall be prepared by a Professional Engineer, registered in the state of New Mexico and signed and sealed by the New Mexico Professional Engineer and provided to County Utility Engineering Department for written approval.	5% of construction cost estimate for the public Utility infrastructure	1.If construction scope and or cost increases by 10 percent or more than original approved scope, inspection fee will be revised accordingly 2. Utility Department reserves right to modify fees if needed.



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 6.A
Index (Council Goals): BCC - N/A
Presenters: Board of Public Utilities
Legislative File: 9592-17

Title

Approval of Board of Public Utilities Meeting Minutes

Recommended Action

I move that the Board of Public Utilities approve the meeting minutes of May 17th, 2017 as presented.

Body

REQUESTED REVISIONS TO THE DRAFT MINUTES

Draft minutes are sent to members after each meeting for their review. Members may then send changes to be incorporated prior to final approval of the minutes at the next regular meeting. There were no changes.

Attachments

A - Draft BPU Regular Session Minutes - May 17th, 2017



LOS ALAMOS

County of Los Alamos
Minutes
Board of Public Utilities

1000 Central Avenue
Los Alamos, NM 87544

*Jeff Johnson, Chair; Stephen McLin, Vice-chair; Andrew Fraser, Paul Frederickson and
Kathleen Taylor, Members
Tim Glasco, Ex Officio Member
Harry Burgess, Ex Officio Member
Susan O'Leary, Council Liaison*

Wednesday, May 17, 2017

5:30 PM

1000 Central Avenue
Council Chambers

REGULAR SESSION

1. CALL TO ORDER

The regular meeting of the Incorporated County of Los Alamos Board of Public Utilities was held on Wednesday, May 17th at 5:30 p.m. at 1000 Central Ave., Council Chambers. Board Chair, Jeff Johnson, called the meeting to order at 5:30 p.m.

Present 7 - Board Member Johnson, Board Member McLin, Board Member Fraser, Board Member Frederickson, Board Member Taylor, Board Member Glasco and Board Member Burgess

Mr. Johnson reported to staff that as authorized by §10-15-1 (H)(2) of the New Mexico Open Meetings Act, NMSA 1978, the Board of Public Utilities met in closed session on April 26th, 2017 to discuss information pertaining to limited personnel matters - Utilities Manager performance review and planning. As authorized by §10-15-1 (H)(2) & (5), the Board met again on May 9th, 2017 to discuss information pertaining to limited personnel matters and collective bargaining - Utilities manager performance review and planning and the United Association of Plumbers and Pipefitters Local Union No. 412 negotiations. The Chair reported that the matters discussed in these closed meetings were limited only to those specified in the meeting notices.

2. PUBLIC COMMENT

Mr. Johnson opened the floor for public comment on items on the Consent Agenda and for those not otherwise included on the agenda. There were no comments.

3. APPROVAL OF AGENDA

Mr. McLin moved to approve the agenda as presented. The motion passed by the following vote:

Yes: 5 - Board Member Johnson, Board Member McLin, Board Member Fraser, Board Member Frederickson and Board Member Taylor

4. BOARD BUSINESS

4.A. Chair's Report

Mr. Johnson reported on the following items:

- 1) At last night's Council meeting, Council appointed Ms. Carrie Walker to replace Mr. Fraser when his term expires in July. Next month, Ms. Walker will sit at the dais to participate in discussions as a non-voting member.
- 2) Ms. Taylor expressed desire to go to the Abiquiu plant to see it in operation. Mr. McLin and Mr. Johnson would also like to attend. Mr. Johnson invited Ms. Walker, who was in the audience, to attend as well. Mr. Glasco will ask staff to send out a DoodlePoll to determine availability.
- 3) Mr. Johnson requested volunteers for the joint committee between the Board and Council. He invited Ms. Walker to also feel free to voice her interest in volunteering. Two volunteers from the Board are needed. Mr. McLin and Ms. Taylor volunteered. Mr. Johnson thinks this will be an interesting Board to be on.

4.B. Board Member Reports

Board members had nothing to report.

4.C. Utilities Manager's Report

Mr. Glasco provided a written report, which is included in the minutes as an attachment.

4.D. County Manager's Report

Mr. Burgess reported on the following items:

- 1) Next week he will be traveling to Washington, DC with the County's Federal Legislative Committee. The committee is comprised of three councilors. They typically do an annual lobbying effort this time of year, post budget introduction. It just so happens that the committee will be there the day that they anticipate releasing the budget, so it will be an interesting time. Specific to the Utilities Department, they are on the Federal Legislative agenda. Council approved support for the extension of the nuclear production tax credit. They have some information prepared, which Mr. Glasco has reviewed, that they anticipate delivering to our various elected representatives. They also will meet with a variety of appropriators and other committee members while they are there. They anticipate pressing for the passage of that extension, hopefully in support of the Utah Associated Municipal Power Systems (UAMPS) Carbon Free Power Project (CFPP). They will be in DC the first couple days of the week.

4.E. Council Liaison's Report

Ms. Susan O'Leary reported on the following items:

- 1) Ms. O'Leary thanked the Board for attending the Council meeting last week. She thinks it was a good discussion. She knows the Councilors appreciated their attendance and look forward to working with the Board on this new committee.
- 2) Last night, Council selected Carrie Walker to replace Mr. Fraser. There was a really impressive slate of candidates that applied for this position, and that's a great thing for all of us in our community. She felt Ms. Walker did a great job and knows she is going to do a terrific job on the Board.

4.F. Environmental Sustainability Board Liaison's Report

Ms. Susan Barnes provided a written report, which is included in the minutes as an attachment.

4.G. General Board Business

4.G.1 [9412-17](#) Review of Department of Public Utilities Quarterly Report

Presenters: Tim Glasco

Utilities Manager, Mr. Timothy Glasco, presented this item. The following is the substance of the item being considered.

The Board requested that the quarterly report be presented each quarter, with salient features explained.

The Board discussed this item and requested clarification where necessary.

4.G.2 [9413-17](#) Quarterly Conservation Program Update

Presenters: James Alarid

Deputy Utility Manager of Engineering, Mr. James Alarid, presented this item. The following is the substance of the item being considered.

Upon approval of the Energy and Water Conservation Plan in March 2015, the Board requested that staff provide quarterly updates on the Conservation Program and on progress towards the goals and actions identified in the plan.

The Board discussed this item and requested clarification where necessary.

4.H. Approval of Board Expenses

There were no expenses.

4.I. Preview of Upcoming Agenda Items

4.I.1 [9473-17](#) Tickler File for the Next 3 Months

Presenters: Board of Public Utilities

No additional items were identified for the tickler.

5. PUBLIC HEARING(S)

There were no public hearings scheduled for this meeting.

6. CONSENT AGENDA

Mr. Fraser moved that the Board of Public Utilities approve the items on the Consent Agenda as presented and that the motions contained in the staff reports be included in the minutes for the record. The motion passed by the following vote:

Yes: 5 - Board Member Johnson, Board Member McLin, Board Member Fraser, Board Member Frederickson and Board Member Taylor

6.A [9464-17](#) Approval of Board of Public Utilities Meeting Minutes

Presenters: Board of Public Utilities

I move that the Board of Public Utilities approve the meeting minutes of April 19th, 2017 as presented.

6.B [AGR0506-17](#) Approval of Services Agreement No. AGR17-45 with Alpha Southwest, Inc. in the amount of \$300,000.00, plus Applicable Gross Receipts Tax, for the Purpose of Supply and Installation of On-site Sodium Hypochlorite Generation System Parts Needed for the County's Water Production System

Presenters: James Alarid

I move that the Board of Public Utilities approve, in a form acceptable to the County Attorney, Services Agreement No. AGR17-45 with Alpha Southwest, Inc., in the amount of \$300,000.00 and a contingency in the amount of \$30,000.00, for a total of \$330,000.00, plus applicable gross receipts tax, for the purpose of Supply and Installation of On-site Sodium Hypochlorite Generation System Parts Needed for the County's Water Production System, and forward to Council for Approval.

6.C [9443-17](#) Approval of Sub-Grant Agreement FEMA-4199-DR-NM-26 in the amount of \$120,000 for the Los Alamos Canyon Road Stabilization Project Phase I and Approval of Budget Revision 2017-24.

Presenters: James Alarid

I move that the Board of Public Utilities approve execution of Sub-Grant Agreement FEMA-4199-DR-NM-26 in the amount of \$120,000 for Design and Environmental Assessment for the Los Alamos Canyon Road Stabilization Project and forward to Council for approval. I further move that the Board of Public Utilities approve Budget Revision 2017-24 and forward to Council for approval.

6.D [AGR0505-17](#) Approval of Amendment No. 2 to Services Agreement No. AGR15-4166 with Daniel B. Stephens and Associates, Inc. in the Amount of \$22,420.00 for a Revised Total Agreement Amount of \$102,669.00, plus Applicable Gross Receipts Tax, for the Purpose of the Long-Range Water Supply Plan

Presenters: James Alarid

I move that the Board of Public Utilities approve Amendment No. 2 to Services Agreement No. AGR15-4166 with Daniel B. Stephens and Associates, Inc. in the amount of \$22,420.00, for a revised total agreement amount of \$102,669.00, and a contingency of \$4,000.00, plus applicable gross receipts tax.

7. BUSINESS

7.A 9197-17 Preliminary Discussion on Sewer Rate Ordinance

Presenters: Bob Westervelt

Deputy Utility Manager of Finance and Administration, Mr. Bob Westervelt, presented this item along with Deputy Utility Manager of Gas, Water and Sewer, Mr. Jack Richardson. The following is the substance of the item being considered.

The ten-year forecast for the sewer utility presented with the FY2018 budget included a series of incremental rate increases to generate revenues needed for current operations and to build cash reserves necessary for future infrastructure replacements, most notably the needed replacement of the White Rock waste water treatment facility. Staff considered several alternatives as to timing of that plant replacement. Each has different long term cash impacts, and each was presented in the discussion. The main differences are the timing of the White Rock plant design and construction and whether the existing debt on the Los Alamos treatment plant is refinanced. While the timing and magnitude of future rate increases varies by scenario, three of the four scenarios presented show the budgeted 8% increase in FY2018 is necessary. It should be noted that for the commercial rate class the projected rate increases are offset by an equivalent decrease in the surcharge added to consumption based billings, so sewer charges for the commercial rate class in aggregate will remain essentially flat for the first several years of whichever scenario one considers.

The Board discussed this item and requested clarification where necessary.

The following actions were identified for follow-up:

- 1) Staff will return to the Board in June with an ordinance to revise the sewer rate for FY2018 as described in the staff report.
- 2) Taking into consideration suggestions from individual members, staff will continue to refine the scenarios presented, flesh out new possible scenarios, discuss ideas with the new joint Board and Council committee and return to the Board in June for more discussion.

Mr. Johnson called for a recess at 7:58 p.m. The meeting reconvened at 8:07 p.m.

Mr. Burgess left the meeting at 7:58 p.m.

7.B 9198-17 Preliminary Discussion on Water Rate Ordinance

Presenters: Bob Westervelt

Deputy Utility Manager of Finance & Administration, Mr. Bob Westervelt presented this item. The following is the substance of the item being considered.

The ten-year forecast for the water utility presented with the FY2018 budget included a series of incremental rate increases to generate revenues needed for current operations and to build cash reserves necessary for future infrastructure needs. Over the course of several meetings of the Board of Public Utilities in the fall of 2016, several alternative scenarios were considered. After discussion, "scenario 40" was selected as the most reasonable balance between increased rates and necessary system expenditures, and

was the foundation upon which the ten-year budgetary projection was based. An 8% increase in both retail and wholesale rates is proposed, plus an increase from \$1.15 per 1000 gallons to \$2.50 per 1000 gallons for non-potable water sales. These rate increases were included in the FY2018 budget, and are proposed for implementation effective with the customer's first billing period beginning after July 1st, 2017.

The Board discussed this item and requested clarification where necessary.

1) Staff will return to the Board in June with an ordinance to revise the water rate for FY2018 as described in the staff report.

7.C [9433-17](#)

Annual Condition Assessment of Each Utility Infrastructure

Presenters: Jeff Johnson

Board Chair, Mr. Jeff Johnson, presented this item. The following is the substance of the item being considered.

So the Board of Public Utilities has awareness of utility system deficiencies as they pertain to operational and functional operability of the physical infrastructure, and to understand the risks and opportunities associated with these deficiencies, Mr. Johnson is recommending that the Department of Public Utilities prepare a an annual report detailing the condition assessment of each utility infrastructure. He is also recommending that the schedule be structured so no more than one utility per meeting is discussed.

The Board discussed this item and requested clarification where necessary.

Mr. Fraser moved that the Board of Public Utilities request the Director of the Department of Public Utilities to schedule annual condition assessment and infrastructure reviews of each utility. The review will contain an overview of the system, known deficiencies to include system derogation, poor system performance, undersized infrastructure, poorly designed infrastructure, and any other performance issue related to the operational functionality of each utility. Include plans for managing or repairing noted problems. The schedule, as determined by the DPU shall be integrated into the BPU schedule. The motion passed by the following vote:

Yes: 5 - Board Member Johnson, Board Member McLin, Board Member Fraser, Board Member Frederickson and Board Member Taylor

7.D [9432-17](#)

Recommend Approval of Collective Bargaining Agreement (CBA) with the United Association of Plumbers and Pipefitters (UAPP), Local Union No. 412, Covering the Period of July 1, 2017 Through June 30, 2021.

Presenters: Tim Glasco

Utilities Manager, Mr. Timothy Glasco, presented this item. The following is the substance of the item being considered.

Los Alamos County and the United Association of Plumbers and Pipefitters Local 412 entered into negotiations on April 10, 2017 for the purpose of developing a new CBA as the current agreement is set to expire on June 30, 2017. Negotiations were conducted over a period of 5 meetings and came to a tentative agreement on May 10, 2017, with the end result being an agreement for a four-year CBA, including non-economic and economic

items. The Union ratified this proposed agreement on May 10, 2017.

The Board discussed this item and requested clarification where necessary.

Mr. Fraser moved that the Board of Public Utilities recommend approval of the Collective Bargaining Agreement between the County of Los Alamos and the United Association of Plumbers and Pipefitters (UAPP), Local Union No. 412, for the Period of July 1, 2017 Through June 30, 2021 by the County Council. The motion passed by the following vote:

Yes: 5 - Board Member Johnson, Board Member McLin, Board Member Fraser, Board Member Frederickson and Board Member Taylor

7.E [9060-17](#)

Approval of Western Area Power Administration (WAPA) Rocky Mountain Region (RMR) Western Area Colorado Missouri Balancing Authority (WACM) Services Agreement No. 17-RMR-2821

Presenters: Steve Cummins

Deputy Utility Manager for Power Supply, Mr. Steve Cummins was absent. Senior Management Analyst, Mr. Jordan Garcia, presented this item. The following is the substance of the item being considered.

Los Alamos County (LAC) has a lifetime of the plant participation agreement in Laramie River Station with Lincoln Electric System (LES). Since the inception of the County's involvement in (LRS), Basin Electric Power (BEP), handled all plant operations on behalf of all plant participants. As part of plant operations, energy accounting/generator imbalance functions for the participants in LRS were prorated back to each of the members. BEP has changed its operations and is now requiring the participants to manage their own energy accounting/generator imbalance responsibilities. LAC must use the generator imbalance to manage hourly fluctuations in scheduled energy vs. actual plant output. As LRS resides in one of WAPA's balancing authorities, LAC is required to establish an agreement with WAPA to manage the imbalance. This type of agreement is not unusual for LAC, as this is the current manner of operating with San Juan Generating Station and Public Service Co. of New Mexico as the Balancing Authority.

The Board discussed this item and requested clarification where necessary.

Ms. Taylor moved that the Board of Public Utilities approve Western Area Power Administration (WAPA) Services Agreement NO. 17-RMR-2821, and forward to Council for their consideration with a recommendation for approval. The motion passed by the following vote:

Yes: 5 - Board Member Johnson, Board Member McLin, Board Member Fraser, Board Member Frederickson and Board Member Taylor

7.F [9435-17](#)

Reconfiguration of Customer Care Center

Presenters: Bob Westervelt

Deputy Utility Manager of Finance and Administration, Mr. Bob Westervelt, presented this item. The following is the substance of the item being considered.

The current configuration of the Customer Care Center (CCC) has been, since moving into the Municipal Building, problematic. While it is convenient for those customers that just want to come in and drop off a payment or pick up a permit, it is very difficult for any more complex or sensitive customer interaction. The hallway gets loud and crowded at times, making it difficult to transact business of any nature in a professional manner that is comfortable for customers. There are also significant security and safety concerns. In addition to the CCC being located in the direct "line of fire" in possible hostile intruder situations, every cashiering function for the County is routed through the CCC. Sitting in an unsecured, open hallway right next to the public entrances, which in turn are in close proximity to a major thoroughfare is risky. Mr. Westervelt has worked with the Police Department on the design features to maximize the security, and extensively with the County's on-call architect and staff to maximize the functionality and customer interface features. Finally, there is staff comfort and productivity to be considered. Sitting in a hallway is not conducive to effective workflow. There are constant interruptions, not just from customers, but from everyone who walks by. Every time the exterior doors are opened in the winter, the staff gets a new blast of cold air. There are frequent events in the lobby/hallway, which make it virtually impossible to concentrate on complex projects like billing or collections, to work with a customer on a difficult billing or service issue, or to talk on the phone, which is approximately 40% of the CCC Representative's job.

The Board discussed this item and requested clarification where necessary.

The following actions were identified for follow-up:

- 1) Mr. Westervelt will continue with the architectural design and estimating. Once designs and costs are finalized, he will return to the Board for approval.

8. STATUS REPORTS

8.A [9465-17](#) Status Reports

Presenters: Department of Public Utilities

The following informational status reports were provided to the Board in the agenda packet:

- 1) Electric Reliability Update
- 2) Accounts Receivables Report
- 3) Safety Report

9. PUBLIC COMMENT

Mr. Johnson opened the floor for public comment on any items. There were no comments.

10. ADJOURNMENT

The meeting adjourned at 9:25 p.m.

APPROVAL

Board of Public Utilities Chair Name

Board of Public Utilities Chair Signature

Date Approved by the Board

ATTACHMENT
OFFICER REPORTS
SUBMITTED AT THE MEETING

MANAGER'S REPORT

MAY 17, 2017

1. We received a visit from Mr. Burt Kalisch, CEO of APGA on April 28, 2017. Mr. Kalisch updated us on efforts of the APGA related to the furnace rule, NG vehicles and general industry issues and trends.
2. The Change Order implementing the negotiated agreement on the El Vado contract dispute was signed by JR Merritt on April 28, 2017. Their attorneys have informed us that they will be asking the Court to dismiss their appeal of the County Council's decision. We also appealed the decision, so DPU will also have to petition the Court for dismissal.
3. Discussions were held with NNSA/LANL on completion of Mod 20. We expect to have this Mod to the BPU at the June meeting. Questions related to planning for post-2025 generation are on-going. Expect to have another Mod to deal with interim generation facilities such as the Combined Heat and Power project at LANL and their solar farm they are planning.
4. The Customer Satisfaction Survey is almost complete. All residential customers questioning is finished, and only a few commercial customer responses are left to be obtained. We expect the contractor to present the findings at the June BPU meeting.
5. UAMPS will be meeting with Fluor corporation in Dallas, TX on May 26 to further negotiate a fixed price of the SMR. Recalculation of the LCOE for the SMR is presently at \$67.15/Kwh, which is still on the high side. So far NuScale has had no requests for additional information from the NRC in the five months since the design certification application was submitted. This is unheard of in the nuclear power industry, where typically by this time over a hundred such inquiries would have been issued.
6. The DPU Safety Employee of the Quarter for Q3 of FY17 is David Rodriguez, a Service Worker in GWS. Mr. Rodriguez was nominated by his Supervisor, David Gomez, who noted that Mr. Rodriguez is exemplary in his safe work practices and always enforces on-the-job safety at the project sites where he is in charge.

Environmental Sustainability Board liaison report

Susan Barns, ESB Liaison 5/17/2017

At our March and April meetings, the ESB discussed:

- FY17 Budget deficit and FY18 rate increase
- Food waste collection and composting
- A variable rate structure, to give residents more control over what they pay for trash collection.
- Los Alamos Business Recycler of the Year. Nominations closed May 5, and voting will begin soon. Watch for announcements on social media and local papers. Winners will be announced at Chamber Fest on June 10.
- Bear season! We're already having bear sightings and issues. Sign up through the EcoStation to receive bear resistant trash rollcars.
- Clean Up Los Alamos Day on May 13 was a huge success, with more than 300 residents signed up to participate, and 10.5 tons of solid waste was collected.
- Environmental Services collaborated with PEEC to host a tour of the Friedman Recycling facility in Albuquerque on April 7, which was well attended by LAC residents.
- Angelica Gurule of LAC Environmental Services worked with Chamisa School teachers to hold a "Waste Free Lunch Challenge" for students in April. More than 100 students participated in the week-long challenge. Angelica hopes to expand the program to other schools.

Agenda for 5/18 meeting includes:

- Approval of the proposed Environmental Services rate changes
- Selection of finalists for the 2017 Business Recycler of the Year
- Review of revisions to the FY18 ESB Work Plan



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 6.B
Index (Council Goals): BCC - N/A
Presenters: Jack Richardson, Deputy Utilities Manager - GWS Services
Legislative File: AGR0507-17

Title

Approval of Services Agreement No. AGR17-37 with Stantec Consulting Service, Inc. in the amount of \$450,000.00, plus Applicable Gross Receipts Tax, for the Purpose of the Geographic Information System and Asset Management Upgrade Project

Recommended Action

I move that the Board of Public Utilities approve Services Agreement No. AGR17-37 with Stantec Consulting Service, Inc. in the amount of \$450,000.00, plus applicable gross receipts tax, for the purpose of the Geographic Information System and Asset Management Upgrade, and forward to Council for approval.

Staff Recommendation

Staff recommends that the BPU approve the motion as presented.

Body

DPU has planned this GIS upgrade for a number of years and has completed a significant amount of in house preparation work during the past few years. This preparation work consisted of field investigation and surveying to ensure accurate geo-location of facilities as well as attribute data clean up. Preparation also consisted of developing an enhanced asset management program by determining the type of attribute data desired in order to use the GIS system for a DPU asset management program.

The new PRISM enterprise wide County ERP software, Tyler MUNIS, has a firm launch date of 1 July 2018. DPU GIS data is a major source of information that is proposed to be used by this new software. The schedule set out in the proposed contract has a deadline to finish all Year One tasks by October 2017 in order to allow for adequate time to incorporate the upgraded DPU GIS data into the new PRISM MUNIS software package in time for the scheduled launch.

This proposed contract provides for assistance from the consultant, Stantec Consulting Service, in the configuration of the DPU GIS data sets in order to allow for efficient incorporation into the PRISM MUNIS software system. While Year One of the contract provides for the major effort for this coordination, Year's Two and Three also provide the opportunity for having this consultant refine the DPU GIS data sets, if and as required, to improve the coordination between these programs and improve the efficiency and operation of DPU as more is learned about the new PRISM software.

Alternatives

DPU could try to complete this work in house however, that would mean a delay in the

schedule and the deadline to have this work done when needed for conversion into the new PRISM ERP Tyler MUNIS software would not be met which would cause severe hardship on DPU, IT and OMB personnel during and after the scheduled 1 July 2018 PRISM launch date.

Fiscal and Staff Impact

Funds that were budgeted for computer programming in WP and NP as well as funds available in GA, DW and WC are available for carryover from FY 2017 and also budgeted in FY 2018. The total cost of the three year contract is \$450,000; approximately \$150,000 each year. Project Management will be absorbed within the routine functioning of the DPU with personnel from both GWS and Engineering involved.

Attachments

A - Services Agreement AGR17-37



INCORPORATED COUNTY OF LOS ALAMOS SERVICES AGREEMENT

This **SERVICES AGREEMENT** ("Agreement") is entered into by and between the **Incorporated County of Los Alamos**, an incorporated county of the State of New Mexico ("County"), and **Stantec Consulting Service, Inc.**, a New York corporation ("Consultant"), to be effective for all purposes June 28, 2017.

WHEREAS, the County Purchasing Agent determined in writing that the use of competitive sealed bidding was either not practical or not advantageous to County for procurement of the Services and County issued Request for Qualifications No. 17-37 ("RFQ") on February 19, 2017, requesting proposals for a Geographic Information System and Asset Management Upgrade, as described in the RFQ; and

WHEREAS, Consultant timely responded to the RFQ by submitting a response dated March 16, 2017 ("Consultant's Response"); and

WHEREAS, based on the evaluation factors set out in the RFQ, Consultant was the successful Offeror for the services listed in the RFQ; and

WHEREAS, this Agreement was approved at a Department of Public Utilities Board meeting held on June 21, 2017, and by the County Council public meeting held on June 27, 2017; and

WHEREAS, Consultant will provide the Services, as described below, to County.

NOW, THEREFORE, for and in consideration of the premises and the covenants contained herein, County and Contractor agree as follows:

SECTION A. SERVICES AND DELIVERABLES: Upon County's request, Consultant shall provide the following services on a Task Order basis and as specified below. Task schedules, price, and completion dates have been provided by Consultant for Year 1, as outlined in Exhibits "A" and "B" attached hereto and incorporated herein.

1. Year 1 Services. Consultant shall provide the following services during year 1 of the Agreement:

A. TASK 1: DATA COLLECTION AND EVALUATION. Consultant will meet with County's Department of Public Utilities ("DPU") staff and collect available data as related to utility assets contained within the Geographic Information System ("GIS"). Data will be inventoried and assessed for completeness. Consultant will prepare a technical memo and provide a presentation to DPU on the results of the existing data assessment. Consultant will make formal recommendations as to the validity of existing GIS data. Consultant will present the data to DPU staff in a workshop and help determine further actions. Actions may include at minimum archiving, merging, find record drawings, etc.

B. TASK 2: GEODATABASE DESIGN

1. After evaluating existing data and soliciting DPU staff feedback, Consultant will design a geodatabase that will house all the Feature Class/GIS Layers agreed upon between Consultant and DPU. Examples of the minimum required layers are provided in Exhibit “C”. Consultant will work with DPU staff to illustrate and explain the different aspects of the draft schema and the implications of design options as they relate to data maintenance and reporting functionality.

2. Consultant will provide draft schema diagrams for DPU staff to review. DPU will then provide comments on the draft schema diagrams for review and inclusion, where appropriate, by Consultant. Based on DPU review comments, a final geodatabase design will be presented to DPU by Consultant. The geodatabase design will incorporate, at a minimum, the following criteria/elements:

- a. Geodatabase Schema for DPU GIS
- b. Domains (picklists)
- c. Unique Facility Identifiers (based on GIS Unique ID nomenclature)
- d. Service line connections (main and home)
- e. Appropriate topology and connectivity for flow modelling including, but not limited to:
 - i. Main splits
 - ii. Fitting placement
 - iii. Hydrant connectivity
 - iv. Service connection connectivity
 - v. Direction to digitize
- f. Use of related tables
- g. Federal Geographic Data Committee (“FGDC”) compliant Metadata

3. At a minimum, the following new feature classes will be created and added into the geodatabase design by Consultant as follows:

- a. Water Distribution (DW), Water Production (WP), and Non-Potable (NP) Hydrants
- b. DW, WP, Gas Distribution (GA) and Wastewater Collection (WC) Main Pipe Breaks
- c. DW, WP, GA Delivery/Service Pipe Breaks
- d. DW, WP and GA Leak Survey Locations (Surveys & Leaks Found)
- e. DW, WP and GA Valve Exercise Survey
- f. WC Overflow Events
- g. WC Main Pipe Blockages
- h. WC Collection/Service Pipe Blockages
- i. WC Video Inspection Survey
- j. WC Main Pipe Cleaning/Flushing
- k. WC Homes Below Grade
- l. DW and GA Pressure Zones

4. Exhibit “C” contains a list of all anticipated layers that will be in the new Consultant developed geodatabase.

C. TASK 3: DATA LOADING

1. Consultant will load all DPU provided existing GIS feature classes into the new geodatabase schema. Consultant will populate attributes from external data sources when field matching is possible to enable table joins and attribute calculations. Facility Identifier fields will be calculated based on the GIS codes in conjunction with a numbering scheme determined in Task 2. Global attributes will be populated where appropriate (owner, editor, source, maintained by, GIS Unique IDs for Tyler Munis™ consumption).

2. Consultant will segregate out the records found within the following feature classes and load them into the appropriate feature classes within the new GIS geodatabase:

- a. Non-Potable Water
- b. Sewer lines
- c. Sewer points
- d. Waterlines
- e. Waterpoints
- f. Gas lines
- g. Gas points

D. TASK 4: GEOMETRIC NETWORK. Consultant will make edits to the line work so that flow direction and connectivity are accurately modeled within each network. Based on the geometric network rules established in Task 2, Consultant will build geometric networks for each of the utility networks. Consultant will clean the topology so that there are no Build Errors when constructing the geometric networks. Geometry will be cleaned so traces and other similar network analysis can be performed.

E. TASK 5: REPORTING

1. Consultant will develop a set of GIS Report templates that will extract data from selectable attribute tables and manipulate that data, using formulas or aggregation formatting programming, to provide pre-formatted reports for varying selectable GWS system groups or individual feature classes.
2. Report format should include a summary “roll up” of data for an entire GWS Group (GA, WP, NP, DW, WC, WT), as applicable.
3. Summary report format should include a summary “roll up” of data for an entire individual feature class (Examples: NP Valves, WC Sewer Lift Stations, etc.).
4. Detailed report format shall include, at minimum, all fields included in the selected feature class attribute table.
5. Report output should conform to the developed standard template. Report output should include not only selected data points extracted from the attribute table(s), but also the results of report programming for aggregating data points, manipulating data points and applying selected formulas using either attribute table data points or other data points from sources outside of the GIS data sets. Examples include: Number of “XXXX” for each size; Number of “XXXX” for each material; Age factor; and Average of Year Installed, Operational Condition, and/or General Condition & Risk Assessment.

Consultant will provide DPU staff with a set of standardized symbology for approval and inclusion in the database. Consultant will develop map templates to aid DPU staff in creating high quality map products in a consistent manner. Symbology for various related features or characteristics shall be consistent across all modified and new feature classes (*i.e.*, gate valves in all groups shall have the same type and size symbol; varying color only dependent on the group, etc.).

F. TASK 6: MEETINGS AND WORKSHOPS

1. Consultant will facilitate the following on-site meetings and workshops at County offices:
 - a. Kickoff Meeting
 - b. Data Review Workshop
 - c. Draft Geodatabase Presentation
 - d. Report Functionality Training
 - e. Asset Management Workshop
 - f. Four (4) additional WebEx Meetings as needed and at the written request of the Project Manager

2. Meetings, travel and printing costs are included in the fee schedule as set forth in Exhibit “A” and shall not exceed that amount without prior approval of the County’s Project Manager.

G. TASK 7: PROJECT MANAGEMENT. Consultant will provide weekly updates to County’s Project Manager through the duration of the Project. Consultant will prepare a project plan and schedule and provide to County’s Project Manager for approval within thirty (30) days from the effective date of this Agreement. Once approved, Consultant shall adhere to the agreed upon schedule and notify in advance of any Project delay. Consultant’s Principal in Charge will provide quality reviews and quality assurance checks throughout the project and routinely check in with County to make certain project deliverables are being met.

2. Year 2 Services. Consultant shall provide the following services during year 2 of the Agreement:

A. TASK 1: PROJECT SCHEDULE FOR YEAR 2. Contractor shall provide County’s Project Manager a Year 2 schedule for approval after completing Year 1 activities/tasks.

B. TASK 2: RECORD DRAWINGS CATALOG. At the direction of County’s Project Manager, Consultant will review the collection of DPU’s water, wastewater, and gas record drawings. Consultant will develop a polygon feature class and will populate it with the approximate extents of the record drawing extents that the pages are located in. Consultant will create hyperlinks in this feature class to the respective record drawings. The following attributes will be populated based on information obtained from the record drawings:

- a. Date of drawing
- b. Brief description of content (main replacement, new build, etc.)
- c. Systems (water, wastewater, raw water, non-potable water, gas)
- d. Design firm
- e. General Location (i.e., Barranca Mesa, LA Canyons, White Rock, Northern Area, etc.)

C. TASK 3: DRAWING CONVERSION. At the direction of County’s Project Manager, DPU will select sets of record drawings for inclusion or updates to the GIS. Consultant will geo-reference these drawings when applicable, digitize, and attribute the data. Consultant will work in a versioned environment allowing edits to be made by both DPU and Consultant staff simultaneously.

D. TASK 4: GPS LOCATES. At the direction of County’s Project Manager, Consultant will assist DPU in creating a program for providing updates to the GIS using sub-foot GPS technology. Consultant will provide staff augmentation services to County when necessary to get the entire system spatially accurate.

E. TASK 5: TYLER MUNIS™ COORDINATION. At the direction of County’s Project Manager, Consultant will assist the DPU staff with any modifications to the Geodatabase Design, Geometric Network, and/or Reporting to enable DPU to fully integrate with the Tyler Munis™ software as needed during and immediately after the Tyler Munis™ software launch.

F. TASK 6: MEETINGS AND COORDINATION. Consultant will conduct a kick-off meeting with the DPU staff to set project timelines and to establish the project’s Year 2 schedule. Consultant will conduct up to four (4) additional meetings to accommodate deliverables and/or as needed and a final closeout meeting, for a total of six (6) meetings. Consultant and DPU will identify

project milestones and a detailed task timeline at the kick-off meeting. Consultant will prepare presentation materials, agenda, and meeting documentation. In addition to on-site meetings, Consultant will host electronic remote meetings throughout the project as needed. Consultant will conduct a final project deliverable and closeout meeting. Meetings, travel and printing costs are included in the fee schedule as set forth in Exhibit "A" and shall not exceed this amount without prior approval of County's Project Manager.

3. Year 3 Services. Consultant shall provide the following services during year 3 of the Agreement:

A. TASK 1: PROJECT SCHEDULE FOR YEAR 3. Contractor shall provide to County's Project Manager a Year 3 schedule for approval after completing Year 2 activities/tasks.

B. TASK 2: MOBILE TECHNOLOGY. At the direction of County's Project Manager, Consultant will work with DPU staff to develop a plan to utilize mobile GIS technology. The plan may incorporate mobile work orders, inspections, data collection, and maintenance procedures.

C. TASK 3: MOBILE APPLICATION IMPLEMENTATION. At the direction of County's Project Manager, Consultant will work with DPU staff to configure and implement the applications identified in Task 2.

D. TASK 4: TECHNOLOGY UPGRADES. At the direction of County's Project Manager, Consultant will work with DPU staff to identify enhancements to the enterprise GIS. These enhancements may include integrating with Supervisory Control and Data Acquisition ("SCADA") and other remote data collection platforms. These upgrades will help with DPU internal and regulatory reporting.

E. TASK 5: TYLER MUNIS™ COORDINATION. At the direction of County's Project Manager, Consultant will assist DPU staff with any modifications to the Geodatabase Design, Geometric Network, and/or Reporting to enable DPU to fully integrate with the Tyler Munis™ software, as needed during the second year of the Tyler Munis™ software launch.

F. TASK 6: MEETING AND COORDINATION. Consultant will conduct a kick-off meeting with DPU staff to set project timelines. Consultant will conduct up to four (4) additional meetings to accommodate deliverables and/or as needed and a final closeout meeting for a total of six (6) meetings. Consultant and DPU will identify project milestones and a detailed task timeline at the kick-off meeting. Consultant will prepare presentation materials, agenda, and meeting documentation. In addition to on-site meetings, Consultant will host electronic remote meetings throughout the project as needed. Consultant will conduct a final project deliverable and closeout meeting. Meetings, travel and printing costs are included in the fee schedule as set forth in Exhibit "A" and shall not exceed this amount without prior approval of County's Project Manager.

SECTION B. TERM: The term of this Agreement shall commence June 28, 2017, and shall continue through June 30, 2020, unless sooner terminated, as provided herein. At County's sole option the Agreement may be renewed for up to three (3) consecutive one-year periods, unless sooner terminated, as provided therein.

SECTION C. COMPENSATION:

1. Amount of Compensation. County shall pay compensation for performance of the Services in an amount not to exceed FOUR HUNDRED FIFTY THOUSAND DOLLARS AND ZERO

CENTS (\$450,000.00), which amount does not include applicable New Mexico gross receipts taxes ("NMGRT"). Compensation shall be paid in accordance with the rate schedule(s) set out in Exhibit "A," attached hereto and made a part hereof for all purposes.

- 2. Monthly Invoices.** Contractor shall submit itemized monthly invoices to County's Project Manager showing amount of compensation due, amount of any NMGRT, and total amount payable. Payment of undisputed amounts shall be due and payable thirty (30) days after County's receipt of the invoice.

SECTION D. TAXES: Contractor shall be solely responsible for timely and correctly billing, collecting and remitting all NMGRT levied on the amounts payable under this Agreement.

SECTION E. STATUS OF CONTRACTOR, STAFF, AND PERSONNEL: This Agreement calls for the performance of services by Contractor as an independent contractor. Contractor is not an agent or employee of County and will not be considered an employee of County for any purpose. Contractor, its agents or employees shall make no representation that they are County employees, nor shall they create the appearance of being employees by using a job or position title on a name plate, business cards, or in any other manner, bearing County's name or logo. Neither Contractor nor any employee of Contractor shall be entitled to any benefits or compensation other than the compensation specified herein. Contractor shall have no authority to bind County to any agreement, contract, duty or obligation. Contractor shall make no representations that are intended to, or create the appearance of, binding County to any agreement, contract, duty, or obligation. Contractor shall have full power to continue any outside employment or business, to employ and discharge its employees or associates as it deems appropriate without interference from County; provided, however, that Contractor shall at all times during the term of this Agreement maintain the ability to perform the obligations in a professional, timely and reliable manner.

SECTION F. STANDARD OF PERFORMANCE: Contractor agrees and represents that it has and will maintain the personnel, experience and knowledge necessary to qualify it for the particular duties to be performed under this Agreement. Contractor shall perform the Services described herein in accordance with a standard that exceeds the industry standard of care for performance of the Services.

SECTION G. DELIVERABLES AND USE OF DOCUMENTS: All deliverables required under this Agreement, including material, products, reports, policies, procedures, software improvements, databases, and any other products and processes, whether in written or electronic form, shall remain the exclusive property of and shall inure to the benefit of County as works for hire; Contractor shall not use, sell, disclose, or obtain any other compensation for such works for hire. In addition, Contractor may not, with regard to all work, work product, deliverables or works for hire required by this Agreement, apply for, in its name or otherwise, any copyright, patent or other property right and acknowledges that any such property right created or developed remains the exclusive right of County. Contractor shall not use deliverables in any manner for any other purpose without the express written consent of County.

SECTION H. EMPLOYEES AND SUB-CONTRACTORS: Contractor shall be solely responsible for payment of wages, salary or benefits to any and all employees or contractors retained by Contractor in the performance of the Services. Contractor agrees to indemnify, defend and hold harmless County for any and all claims that may arise from Contractor's relationship to its employees and subcontractors.

SECTION I. INSURANCE: Contractor shall obtain and maintain insurance of the types and in the amounts set out below throughout the term of this Agreement with an insurer acceptable to County. Contractor shall assure that all subcontractors maintain like insurance. Compliance with the terms and conditions of this Section is a condition precedent to County's obligation to pay compensation for the Services and Contractor shall not provide any Services under this Agreement unless and until Contractor has met the requirements of this Section. County requires Certificates of Insurance or other evidence acceptable to County that Contractor has met its obligation to obtain and maintain insurance and to assure that subcontractors maintain like insurance. Should any of the policies described below be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. General Liability Insurance and Automobile Liability Insurance shall name County as an additional insured.

1. **General Liability Insurance:** ONE MILLION DOLLARS (\$1,000,000.00) combined single limit per occurrence; TWO MILLION DOLLARS (\$2,000,000.00) aggregate.
2. **Workers' Compensation:** In an amount as may be required by law. County may immediately terminate this Agreement if Contractor fails to comply with the Worker's Compensation Act and applicable rules when required to do so.
3. **Automobile Liability Insurance for Contractor and its Employees:** ONE MILLION DOLLARS (\$1,000,000.00) combined single limit per occurrence; TWO MILLION DOLLARS (\$2,000,000.00) aggregate on any owned, and/or non-owned motor vehicles used in performing Services under this Agreement.
4. **Professional Liability Insurance:** Insert appropriate language here if applicable. PROFESSIONAL LIABILITY INSURANCE, as may be applicable to the particular profession or service to be provided, with a limit of not less than \$1,000,000 each Claim, with a \$2,000,000 annual aggregate, without any restrictive "negligent act, negligent error, or negligent omission" clause, and with coverage extending for a three (3) year period from completion of this contract, against any and all claims which may arise from the Contractor's negligent performance of work described herein.

SECTION J. RECORDS: Contractor shall maintain, throughout the term of this Agreement and for a period of six (6) years thereafter, records that indicate the date, time, and nature of the services rendered. Contractor shall make available, for inspection by County, all records, books of account, memoranda, and other documents pertaining to County at any reasonable time upon request.

SECTION K. APPLICABLE LAW: Contractor shall abide by all applicable federal, state and local laws, regulations, and policies and shall perform the Services in accordance with all applicable laws, regulations, and policies during the term of this Agreement. In any lawsuit or legal dispute arising from the operation of this Agreement, Contractor agrees that the laws of the State of New Mexico shall govern. Venue shall be in the First Judicial District Court of New Mexico in Los Alamos County, New Mexico.

SECTION L. NON-DISCRIMINATION: During the term of this Agreement, Contractor shall not discriminate against any employee or applicant for an employment position to be used in the performance of the obligations of Contractor under this Agreement, with regard to race, color, religion, sex, age, ethnicity, national origin, sexual orientation or gender identity, disability or veteran status.

SECTION M. INDEMNITY: Contractor shall indemnify, hold harmless and defend County, its Council members, employees, agents and representatives, from and against all liabilities, damages, claims, demands, actions (legal or equitable), and costs and expenses, including

without limitation attorneys' fees, of any kind or nature, arising from Contractor's performance hereunder or breach hereof and the performance of Contractor's employees, agents, representatives and subcontractors.

SECTION N. FORCE MAJEURE: Neither County nor Contractor shall be liable for any delay in the performance of this Agreement, nor for any other breach, nor for any loss or damage arising from uncontrollable forces such as fire, theft, storm, war, or any other force majeure that could not have been reasonably avoided by exercise of due diligence.

SECTION O. NON-ASSIGNMENT: Contractor may not assign this Agreement or any privileges or obligations herein without the prior written consent of County.

SECTION P. LICENSES: Contractor shall maintain all required licenses including, without limitation, all necessary professional and business licenses, throughout the term of this Agreement. Contractor shall require and shall assure that all of Contractor's employees and subcontractors maintain all required licenses including, without limitation, all necessary professional and business licenses.

SECTION Q. PROHIBITED INTERESTS: Contractor agrees that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of its services hereunder. Contractor further agrees that it will not employ any person having such an interest to perform services under this Agreement. No County Council member or other elected official of County, or manager or employee of County shall solicit, demand, accept or agree to accept a gratuity or offer of employment contrary to Section 31-282 of the Los Alamos County Code.

SECTION R. TERMINATION:

1. **Generally.** County may terminate this Agreement with or without cause upon ten (10) days prior written notice to Contractor. Upon such termination, Contractor shall be paid for Services actually completed to the satisfaction of County at the rate set out in Section C. Contractor shall render a final report of the Services performed to the date of termination and shall turn over to County originals of all materials prepared pursuant to this Agreement.
2. **Funding.** This Agreement shall terminate without further action by County on the first day of any County fiscal year for which funds to pay compensation hereunder are not appropriated by County Council. County shall make reasonable efforts to give Contractor at least ninety (90) days advance notice that funds have not been and are not expected to be appropriated for that purpose.

SECTION S. NOTICE: Any notices required under this Agreement shall be made in writing, postage prepaid to the following addresses, and shall be deemed given upon hand delivery, verified delivery by telecopy (followed by copy sent by United States Mail), or three (3) days after deposit in the United States Mail:

County:

Jack Richardson
Incorporated County of Los Alamos
Department of Public Utilities
1000 Central Avenue, Suite 130
Los Alamos, New Mexico 87544

Contractor:

William S. Landin, PE
Stantec Consulting Services Inc.
500 Marquette Avenue, Suite 1200
Albuquerque, New Mexico 87102

SECTION T. INVALIDITY OF PRIOR AGREEMENTS: This Agreement supersedes all prior contracts or agreements, either oral or written, that may exist between the parties with reference to the services described herein and expresses the entire agreement and understanding between the parties with reference to said services. It cannot be modified or changed by any oral promise made by any person, officer, or employee, nor shall any written modification of it be binding on County until approved in writing by both County and Contractor.

SECTION U. CAMPAIGN CONTRIBUTION DISCLOSURE FORM: A Campaign Contribution Disclosure Form was submitted as part of the Contractor's Response and is incorporated herein by reference for all purposes. This Section acknowledges compliance with Chapter 81 of the Laws of 2006 of the State of New Mexico.

IN WITNESS WHEREOF, the parties have executed this Agreement on the date(s) set forth opposite the signatures of their authorized representatives to be effective for all purposes on the date first written above.

ATTEST

INCORPORATED COUNTY OF LOS ALAMOS

NAOMI D. MAESTAS
COUNTY CLERK

BY: _____
TIM GLASCO **DATE**
UTILITIES MANAGER

Approved as to form:

J. ALVIN LEAPHART
COUNTY ATTORNEY

_____, A _____
CORPORATION

BY: _____
NAME: _____ **DATE**
TITLE: _____

Exhibit "A"
Compensation Rate Schedule
AGR17-37

Year 1. Fees and Costs:

	Rate Per Hour	Hours	Cost	
Data Collection and Evaluation				
Project Manager	\$154.00	20	\$ 3,080.00	
GIS Developer	\$144.00	4	\$ 576.00	
Senior GIS Analyst	\$117.00	80	\$ 9,360.00	
GIS Analyst 2	\$110.00	0	\$ 0.00	
GIS Analyst 1	\$105.00	40	\$ 4,200.00	
Asset Management Lead	\$242.00	0	\$ 0.00	
Project Principal	\$242.00	0	\$ 0.00	
Sub-Total			\$17,216.00	
Geodatabase Design				
Project Manager	\$154.00	24	\$ 3,696.00	
GIS Developer	\$144.00	60	\$ 8,640.00	
Senior GIS Analyst	\$117.00	80	\$ 9,360.00	
GIS Analyst 2	\$110.00	0	\$ 0.00	
GIS Analyst 1	\$105.00	0	\$ 0.00	
Asset Management Lead	\$242.00	6	\$ 1,452.00	
Sub-Total			\$23,148.00	
Data Loading				
Project Manager	\$154.00	8	\$ 1,232.00	
GIS Developer	\$144.00	40	\$ 5,760.00	
Senior GIS Analyst	\$117.00	80	\$ 9,360.00	
GIS Analyst 2	\$110.00	0	\$ 0.00	
GIS Analyst 1	\$105.00	0	\$ 0.00	
Asset Management Lead	\$242.00	0	\$ 0.00	
Sub-Total			\$16,352.00	
Data Cleaning				
Project Manager	\$154.00	8	\$ 1,232.00	
GIS Developer	\$144.00	0	\$ 0.00	
Senior GIS Analyst	\$117.00	40	\$ 4,680.00	
GIS Analyst 2	\$110.00	60	\$ 6,600.00	
GIS Analyst 1	\$105.00	80	\$ 8,400.00	

Asset Management Lead	\$242.00		\$ 0.00	
Sub-Total			\$20,912.00	
Application Development				
Project Manager	\$154.00	32	\$ 4,928.00	
GIS Developer	\$144.00	50	\$ 7,200.00	
Senior GIS Analyst	\$117.00	120	\$14,040.00	
GIS Analyst 2	\$110.00	16	\$ 1,760.00	
GIS Analyst 1	\$105.00	0	\$ 0.00	
Asset Management Lead	\$242.00	8	\$ 1,936.00	
Sub-Total			\$29,864.00	
Meetings and Workshops				
Project Manager	\$154.00	60	\$ 9,240.00	
GIS Developer	\$144.00	0	\$ 0.00	
Senior GIS Analyst	\$117.00	60	\$ 7,020.00	
GIS Analyst 2	\$110.00	0	\$ 0.00	
GIS Analyst 1	\$105.00	0	\$ 0.00	
Asset Management Lead	\$242.00	12	\$ 2,904.00	
Project Principal	\$242.00	8	\$ 1,936.00	
Sub-Total			\$21,100.00	
Project Management				
Project Manager	\$154.00	60	\$ 9,240.00	
GIS Developer	\$144.00	0	\$ 0.00	
Senior GIS Analyst	\$117.00	0	\$ 0.00	
GIS Analyst 2	\$110.00	0	\$ 0.00	
GIS Analyst 1	\$105.00	0	\$ 0.00	
Asset Management Lead	\$242.00	0	\$ 0.00	
Project Principal	\$242.00	12	\$ 2,904.00	
Sub-Total			\$12,144.00	
Labor Total				\$140,736.00
Travel & Printing Expenses				\$ 8,500.00
Year 1 Estimated Total Not to Exceed				\$149,236.00

Year 2

Billing Rates per Hour for Year 2 Services:

Project Manager	\$154.00
GIS Developer	\$144.00
Senior GIS Analyst	\$117.00
GIS Analyst 2	\$110.00
GIS Analyst 1	\$105.00
Asset Management Lead	\$242.00
Project Principal	\$242.00
Travel & Printing Expenses	\$8,500.00
Year 2 Total Not to Exceed Costs is \$150,000.00	

Year 3

Billing Rates per Hour for Year 3 Services:

Project Manager	\$154.00
GIS Developer	\$144.00
Senior GIS Analyst	\$117.00
GIS Analyst 2	\$110.00
GIS Analyst 1	\$105.00
Asset Management Lead	\$242.00
Project Principal	\$242.00
Travel & Printing Expenses	\$ 8,500.00
Year 3 Total Not to Exceed Costs is \$150,000.00	

**Total Years 1, 2, and 3 Total Not To Exceed Costs - \$450,000.00 US
(FOUR HUNDRED FIFTY THOUSAND DOLLARS AND NO CENTS)**

Exhibit “B”
Consultant Proposed Schedule
AGR17-37

Note: The Project Schedule may change on the mutual agreement of both parties and is intended to provide a general basis time to complete the Projects various Tasks as provided in the Agreement.

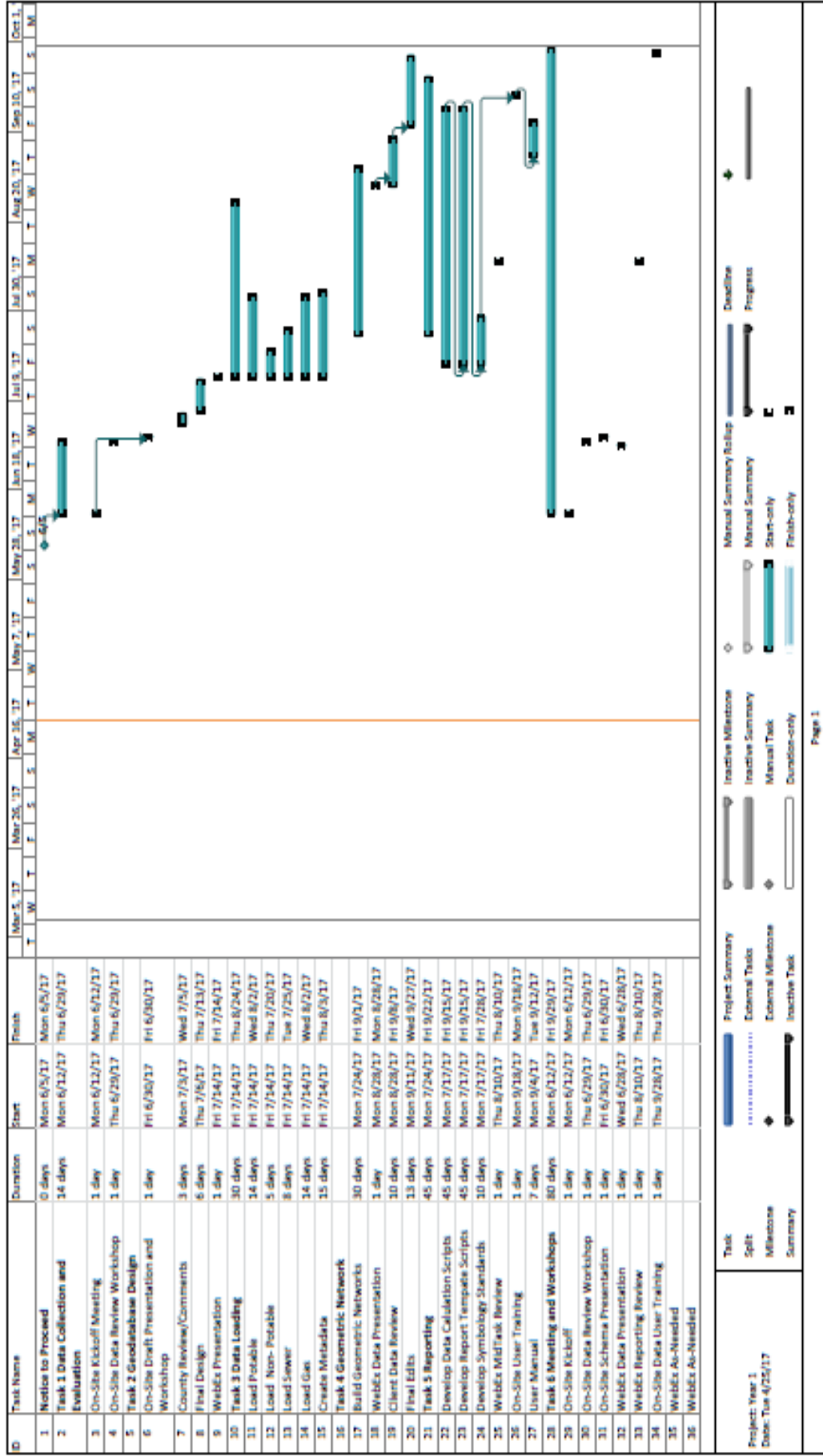


Exhibit “C”
Geographic Information System Layers
AGR17-37

Consultant will include, at a minimum, the following layers:

Water Production System (Group)

WP Main Pipes
WP Main Valves

WP Auto Valves
WP Storage Tanks & Reservoirs
WP Wells
WP Booster Stations
WP PRV Stations
WP Main Points
WP Point of Entry & OSE Meters
WP Meters
WP Fire Hydrants
WP Delivery Pipes
WP Delivery Valves
WP Delivery Points
(Private) WP Service Pipes
(Private) WP Service Valves
(Private) WP Service Points
WP SCADA
WP Main Pipe Breaks
WP Delivery / Service Pipe Breaks
WP Main Pipe Leak Surveys
WP Main Pipe Leak Survey Leaks
WP Valve Exercise Survey

Water Distribution System (Group)

DW Main Pipes
DW Main Valves
DW Storage Tanks & Reservoirs

DW PRV Stations
DW Main Points
DW Meters
DW Fire Hydrants
DW Delivery Pipes
DW Delivery Valves
DW Delivery Points

Gas Distribution System (Group)

GA High Pressure Main Pipes
GA Medium Pressure Main Pipes
GA Gas Co. of NM High Pressure Main Pipes
GA High Pressure Key Valves
GA Medium Pressure Key Valves
GA High Pressure Main Valves
GA Medium Pressure Main Valves
GA PRV Stations
GA High Pressure Main Points
GA Medium Pressure Main Points
GA Cathodic Protection Anodes
GA Master Meters
GA Meters
GA High Pressure Delivery Pipes
GA Medium Pressure Delivery Pipes
GA High Pressure Delivery Valves
GA Medium Pressure Delivery Valves
GA High Pressure Delivery Points
GA Medium Pressure Delivery Points
(Private) GA Service Pipes
(Private) GA Service Valves
(Private) GA Service Points

GA SCADA

GA Gas Pressure Zones
GA Gas Main Pipe Leaks
WP Delivery / Service Pipe Breaks
GA Gas Pipe Leak Surveys
GA Gas Pipe Leak Survey Leaks
GA Valve Exercise Survey

Wastewater Collection System (Group)

WC Gravity Main Pipes
WC Pressure Main Pipes
WC Pressure Main Valves
WC Main Manholes
WC Main Cleanouts

**(Private) DW Service Pipes
(Private) DW Service Valves
(Private) DW Service Points
DW SCADA
DW Pressure Zones
DW Main Pipe Breaks
DW Delivery / Service Pipe Breaks
DW Main Pipe Leak Surveys
DW Main Pipe Leak Survey Leaks
DW Valve Exercise Survey**

**WC Sewer Lift Stations
WC Main Points
WC Collection Pipes
WC Collection Cleanouts
WC Collection Points
(Private) WC Service Pipes
(Private) WC Service Cleanouts
(Private) WC Service Points
(Private) WC Back Water Prevent Valves
WC SCADA
WC Overflow Events
WC Main Pipe Breaks
WC Main Pipe Blockages
WC Collection / Service Pipe Blockages
WC Video Inspections
WC Main Cleaning / Flushing
WC Homes Below Grade**



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 6.C
Index (Council Goals): BCC - N/A
Presenters: James Alarid, Deputy Utilities Manager - Engineering
Legislative File: 9590-17

Title

Approval of Task Order No. 1 Under Services Agreement No. AGR17-45 with Alpha Southwest, Inc. in the amount of \$61,045.00, plus Applicable Gross Receipts Tax, for the Purpose of Chlorine Generator Install for Pajarito Booster 2

Recommended Action

I move that the Board of Public Utilities approve Task Order No. 1 Under Services Agreement No. AGR17-45 with Alpha Southwest, Inc. in the amount of \$61,045.00, and a contingency of \$10,000.00 for a total of \$71,045.00, plus Applicable Gross Receipts Tax, for the Purpose of Chlorine Generator Install for Pajarito Booster 2.

Staff Recommendation

Staff recommends approval of Task Order No.1 as presented.

Body

The existing disinfection system located at Pajarito Booster No. 2 is approaching the end of its service life and is in need of replacement. This disinfection system treats the water from 3 wells in the Pajarito well field. This is the first of three disinfection system replacements planned over the next three fiscal years.

Alternatives

If the task order is not approved staff will continue to pursue a replacement of the existing system.

Fiscal and Staff Impact

Replacement of this disinfection system has been planned and budgeted in the FY 2017 fiscal year.

Attachments

A - AGR17-45 Task Order No. 1

TASK ORDER #01

COUNTY OF LOS ALAMOS UTILITIES DEPARTMENT

PRICE AGREEMENT AGR 17-45

Alpha Southwest INC

June 9, 2017

PROJECT TITLE: Chlorine generator install for Pajarito Booster 2

Description: Provide and install new chlorine generating unit and hypochlorite storage tank at PB2.
Provide onsite training for county personnel.

Estimated Project Term: 30 Days

1. Bid Item 4: Furnish and Install Sodium Hypochlorite Generator..... = \$ 57,200.00
2. Bid Item 6: Furnish and install Sodium Hypochlorite Storage Tank..... = \$3,845.00
3. Bid Item 5: Rectifier, Included w/Generator.....= \$0.0

Estimated Construction Cost: \$ 61,045 (less GRT)

Charge Code Number WP 1513

Acceptance of Conditions and Items of Work

Department of Public Utilities: _____
Timothy Glasco Date

Alpha Southwest INC: _____
Date

Name: _____
Print



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 6.D
Index (Council Goals): BCC - N/A
Presenters: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
Legislative File: 9471-17

Title

Approval of Department of Energy (DOE) - Los Alamos County (LAC) Resource Pool Budget for Fiscal Years 2018/2019

Recommended Action

I move that the Board of Public Utilities approve the 2018-2019 Resource Pool budget as presented and forward to the County Council for its approval.

Staff Recommendation

Staff recommends approval of this 2018-2019 Resource Pool Budget

Body

The Electric Energy and Power Coordination Agreement (ECA) between the County of Los Alamos and the Department of Energy requires that a 24-month budget be approved each year. The budget process begins with both parties preparing a load projection by month for the budget period. From these load projections the Power Supply division prepares a Resource Supply Projection that matches the available resources to the projected loads, and also estimates the variable costs for both our owned resources and for purchased power. Finally, costs for projected generation, purchases, and transmission are allocated based on the terms of the ECA. This is normally accomplished in April or May of the preceding year.

This budget projects total costs per MWh of \$49.29 and \$50.70 for fiscal years 2018 and 2019, respectively. Actual costs for fiscal year 2017 through April were \$48.49 per MWh compared to a budgeted cost of \$49.97 per MWh.

The ten-year historical average cost per MWh for the fiscal years 2007 through 2016 were \$68.24. Beginning in FY2017 we are seeing the benefit of the lower coal price and a lower capital budget at San Juan, and retirement of the debt at LRS, which was passed through to the Pool through LRS direct charges. Note, the last round of environmental upgrades anticipated for San Juan were completed in FY16 with the SNCR project. Similar upgrades at Laramie River are included in the budget presented here.

Costs to the participants vary due to each party's load factors. The projected costs to the County per MWh are \$50.59 and \$51.60 for fiscal years 2018 and 2019, respectively.

This 24 month budget was approved by the Operating Committee on June 1, 2017.

Alternatives

If this budget is not approved by the Board and Council we will have to continue under the last approved budget while we continue to negotiate a budget. Certain costs are billed to the participants as budgeted (fixed charges associated with the various resources) and reconciled in the next budget cycle. Delay in approving a budget will result in adjustments being needed to reconcile actual billings with the budget after the fact when the budget is approved.

Fiscal and Staff Impact

None. DPU's expenditure authority for purchase power costs is incorporated into the budget approved by the Utilities Board and County Council during the normal budget cycle. Approval of this Resource Pool budget is a contractual requirement of the ECA. The Resource Pool budget may differ somewhat from the purchase power expenditure authority requested by DPU during the normal County budget cycle due to timing differences in the budget cycles.

Attachments

- A - Resource Pool 24-month Budget Package
- B - Loads and Resources worksheet fiscal year 2018
- C - Loads and Resources worksheet fiscal year 2019

Department of Energy / Los Alamos County Resource Pool
Including Solar Resource
Fiscal Year 2018
Budget

Los Alamos County Resources

Generation

	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Total	Total MWh	Cost per MWh
San Juan Demand Charge	254,878	254,878	254,878	254,878	254,878	254,878	254,878	254,878	254,878	254,878	254,878	254,878	3,058,542	272,886	\$ 39.46
San Juan Energy Charge	711,363	711,363	688,416	711,363	688,416	711,363	711,363	642,522	711,363	299,314	435,997	688,416	7,710,258		
El Vado Demand Charge	(36,372)	(36,372)	(36,372)	(36,372)	(36,372)	(36,372)	(36,372)	(36,372)	(36,372)	(36,372)	(36,372)	(36,372)	(436,461)		
El Vado Energy Charge	58,369	58,369	58,369	58,369	58,369	58,369	58,369	58,369	58,369	58,369	58,369	58,369	700,427	28,091	\$ 9.40
Abiquiu Demand Charge	82,873	82,873	82,873	82,873	82,873	82,873	82,873	82,873	82,873	82,873	82,873	82,873	994,480		
Abiquiu Energy Charge	81,740	81,740	81,740	81,740	81,740	81,740	81,740	81,740	81,740	81,740	81,740	81,740	980,881	44,614	\$ 44.28
Laramie River Station Demand	154,550	154,550	154,550	154,550	154,550	154,550	154,550	154,550	154,550	154,550	154,550	154,550	1,854,600		
Laramie River Station Energy	79,162	79,162	76,608	79,162	76,608	79,162	79,162	74,054	79,162	76,608	79,162	76,608	1,000,000	83,448	\$ 34.21
Western Demand	5,331	5,331	5,331	7,922	7,922	7,922	7,922	7,922	7,922	5,331	5,331	5,331	79,518		
Western Energy	4,826	4,583	4,569	6,503	6,773	7,882	7,003	6,232	6,503	4,732	4,637	4,596	68,839	5,092	\$ 29.14
CFPP Deman	-	-	-	-	-	-	-	-	-	-	-	-	-		
CFPP Energy	-	-	-	-	-	-	-	-	-	-	-	-	-		

Transmission

Renewable Energy Purchases	9,353	9,353	9,353	9,353	9,353	9,353	9,353	9,353	9,353	9,353	9,353	9,353	112,233	4,205	\$ 26.69
Other Purchased Power	614,798	550,220	571,615	599,003	799,370	846,248	326,703	272,828	103,174	285,820	412,671	470,746	5,853,194	183,820	\$ 37.01
Spinning Reserve Purchase	79,167	79,167	79,167	79,167	79,167	79,167	79,167	79,167	79,167	79,167	79,167	79,167	950,000		
Economy Sales	(2,388)	(7,165)	(4,777)	(7,165)	(9,553)	(9,553)	(4,777)	(7,165)	(2,388)	(7,165)	(4,777)	(7,165)	(74,038)	(3,100)	\$ 23.88

Other Costs

Western (LRS)	35,450	35,450	35,450	35,450	35,450	35,450	35,450	35,450	35,450	35,450	35,450	35,450	425,399		
PNM Wheeling	117,083	117,083	117,083	117,083	117,083	117,083	117,083	117,083	117,083	117,083	117,083	117,083	1,405,000		
LASP allocation to batteries	6,235	6,235	6,235	6,235	6,235	6,235	6,235	6,235	6,235	6,235	6,235	6,235	74,822		
OASIS Trans./ Ancil. Services	-	-	-	-	-	-	-	-	-	-	-	-	-		
NORA	8,006	8,006	8,006	8,006	8,006	8,006	8,006	8,006	8,006	8,006	8,006	8,006	96,071		
Jemez	19,634	19,675	13,686	13,270	1,617	1,455	1,789	1,219	10,513	25,982	36,636	21,745	167,221		
Tri-State	3,770	3,778	2,628	2,548	311	279	344	234	2,019	4,989	7,035	4,175	32,111		

Summary

Norton-STA debt service													-		
Dispatch Center	151,836	151,836	151,836	151,836	151,836	151,836	151,836	151,836	151,836	151,836	151,836	151,836	1,822,030		
Less Kirtland Credit	(64,264)	(65,630)	(56,204)	(43,084)	(40,859)	(41,968)	(45,622)	(45,046)	(45,404)	(42,712)	(43,579)	(45,062)	(579,435)		
Administrative Costs	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469	1,025,633		
Legal Expenses	-	-	-	-	-	-	-	-	-	-	-	-	-		

Demand Charges	857,146	855,830	858,116	873,331	861,666	860,363	857,107	857,003	867,724	886,264	898,098	878,863	10,411,512		
Energy Charges	1,603,724	1,534,126	1,532,395	1,584,829	1,757,577	1,831,065	1,315,417	1,184,434	1,093,776	854,271	1,123,653	1,429,165	16,844,431		
Norton-STA Demand	-	-	-	-	-	-	-	-	-	-	-	-	-		
Customer Charges	-	-	-	-	-	-	-	-	-	-	-	-	-		
Los Alamos Resource Total	2,460,870	2,389,955	2,390,512	2,458,159	2,619,242	2,691,428	2,172,524	2,041,438	1,961,500	1,740,536	2,021,751	2,308,029	27,255,943	619,055	\$44.03

Department of Energy / Los Alamos County Resource Pool
Including Solar Resource
Fiscal Year 2018
Budget

Department of Energy Resources

Generation

501 TA-3 Fuel
503 TA-3 Steam O&M
505 TA-3 Electric Expense
513 TA-3 Maint of Electric Plant
TA-3 Fixed Charges

Combustion Turbine & EDG

Western Demand

Western Energy

Western Peaking Capacity/TX

Transmission

562/571 115KV O&M

Fixed Charges

SVC Transmission Credit

Other Costs

Load Dispatching

Special Projects

Summary

Demand Charges

Energy Charges

Customer Charges

Department of Energy Total

	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Total	Total MWh	Cost per MWh
	17,754	17,754	17,754	17,754	17,754	17,754	17,754	17,754	17,754	17,754	17,754	17,754	213,047	4,800	\$ 44.38
	90,344	90,344	90,344	90,344	102,331	96,338	96,338	96,338	96,338	90,344	90,344	90,344	1,120,092		
	77,917	81,415	69,064	69,064	83,882	71,473	89,508	94,196	86,915	86,892	86,872	89,300	986,499	69,979	\$ 30.10
	19,200	19,200	19,200	19,200	25,290	25,290	25,290	25,290	25,290	25,290	25,290	25,290	279,120		
													2,385,712		
	80,302	80,875	72,020	72,610	86,187	97,404	84,416	85,007	99,175	79,694	103,897	81,465	1,023,051		
	23,096	23,096	23,096	23,096	23,096	23,096	23,096	23,096	23,096	23,096	23,096	23,096	277,155		
	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	312,000		
													1,612,206		
	122,456	122,456	122,456	122,456	122,456	122,456	122,456	122,456	122,456	122,456	122,456	122,456	1,469,472		
	361,398	361,971	353,116	353,707	385,361	390,584	377,596	378,187	392,355	366,881	391,084	368,651	4,480,890		
	95,671	99,169	86,818	86,818	101,636	89,227	107,262	111,949	104,669	104,646	104,626	107,054	1,199,546		
	457,069	461,140	439,935	440,525	486,996	479,811	484,859	490,136	497,024	471,526	495,709	475,705	5,680,436	74,779	75.96

Department of Energy / Los Alamos County Resource Pool
Including Solar Resource
Fiscal Year 2018
Budget

Resource Cost	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Total	Total MWh	Cost per MWh
Demand															\$5.24
Los Alamos	857,146	855,830	858,116	873,331	861,666	860,363	857,107	857,003	867,724	886,264	898,098	878,863	10,411,512		
Department of Energy	361,398	1,217,801	1,211,232	1,227,037	1,247,026	1,250,947	1,234,703	1,235,190	1,260,078	1,253,145	1,289,182	1,247,515	14,892,402		
Total	1,218,545	1,217,801	1,211,232	1,227,037	1,247,026	1,250,947	1,234,703	1,235,190	1,260,078	1,253,145	1,289,182	1,247,515	14,892,402	36,530,971	
Energy															
Los Alamos	1,603,724	1,534,126	1,532,395	1,584,829	1,757,577	1,831,065	1,315,417	1,184,434	1,093,776	854,271	1,123,653	1,429,165	16,844,431		
Department of Energy	95,671	99,169	86,818	86,818	101,636	89,227	107,262	111,949	104,669	104,646	104,626	107,054	1,199,546		
Total	1,699,395	1,633,295	1,619,214	1,671,647	1,859,212	1,920,292	1,422,679	1,296,384	1,198,445	958,917	1,228,278	1,536,219	18,043,978		
Norton-WTA															
Los Alamos	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW Demand															
LAC Actual Demand	17	16	15	13	16	19	18	16	16	14	14	21	21		
DOE Actual Demand	75	74	73	74	74	72	54	51	54	55	69	75	75		
Total Actual Demand	92	91	89	87	90	91	72	67	70	68	83	96	96		
MW Billing Demand															
LAC Billing Demand	17	16	15	13	16	19	18	16	16	14	14	21	21		
DOE Billing Demand	75	74	73	74	74	72	54	51	54	55	69	75	75		
Total Billing Demand	92	91	89	87	90	91	72	67	70	68	83	96	96		
Norton-WTA Demand															
LAC Billing Demand	17	16	15	15	16	19	18	16	16	15	15	21	21		
DOE Billing Demand	75	74	73	74	74	72	65	65	65	65	69	75	75		
Total Billing Demand	92	91	89	89	90	91	83	81	81	80	84	96	96		
Total Resource Cost	2,917,940	2,851,096	2,830,446	2,898,684	3,106,239	3,171,239	2,657,383	2,531,574	2,458,524	2,212,062	2,517,460	2,783,734	32,936,379	668,184	\$ 49.29
Los Alamos Demand %	18.87%	18.16%	17.29%	15.40%	17.72%	21.09%	24.90%	23.41%	22.75%	20.16%	16.90%	21.61%	21.61%		
Los Alamos Energy %	19.18%	16.60%	16.56%	15.86%	16.39%	18.29%	24.42%	23.52%	21.74%	21.98%	16.82%	17.90%	17.90%		
Los Alamos Norton-STA %															
Department of Energy Demand %	81.13%	81.84%	82.71%	84.60%	82.28%	78.91%	75.10%	76.59%	77.25%	79.84%	83.10%	78.39%	78.39%		
Department of Energy Energy %	80.82%	83.40%	83.44%	84.14%	83.61%	81.71%	75.58%	76.48%	78.26%	78.02%	83.18%	82.10%	82.10%		
DOE Norton-STA %															
Los Alamos Power Cost															
Demand	229,930	221,103	209,416	189,023	220,918	263,793	307,385	289,104	286,694	252,581	217,860	269,575			
Energy	325,973	271,191	268,107	265,201	304,719	351,161	347,352	304,856	280,539	210,781	206,581	275,052			
Customer	-	-	-	-	-	-	-	-	-	-	-	-			
Total	555,903	492,294	477,524	454,223	525,637	614,954	654,737	593,960	547,233	463,362	424,442	544,627	6,348,896	125,496	\$ 50.59
Department of Energy Power Cost															
Demand	988,615	996,698	1,001,816	1,038,015	1,026,109	987,154	927,318	946,086	973,384	1,000,564	1,071,321	977,940			
Energy	1,373,422	1,362,104	1,351,107	1,406,446	1,554,494	1,569,131	1,075,327	991,528	937,907	748,135	1,021,697	1,261,167			
Norton-STA	-	-	-	-	-	-	-	-	-	-	-	-			
Customer	-	-	-	-	-	-	-	-	-	-	-	-			
Total	2,362,037	2,358,802	2,352,923	2,444,461	2,580,602	2,556,285	2,002,646	1,937,613	1,911,291	1,748,699	2,093,018	2,239,106	26,587,484	542,688	\$ 48.99
Net Due to Los Alamos	1,904,968	1,897,661	1,912,988	2,003,936	2,093,606	2,076,474	1,517,787	1,447,477	1,414,267	1,277,173	1,597,309	1,763,401	20,907,048		
Distribution Expense	(2,046)	(2,046)	(2,046)	(2,046)	(2,046)	(2,046)	(2,046)	(2,046)	(2,046)	(2,046)	(2,046)	(2,046)	(24,552)		
Debt Service Savings Split															
PV Site Preparation															
Service Charge															
Net Adjusted due Los Alamos	1,902,922	1,895,615	1,910,942	2,001,890	2,091,560	2,074,428	1,515,741	1,445,431	1,412,221	1,275,127	1,595,263	1,761,355	20,882,496		
														DOE TOTAL	\$ 48.95

UPDATED: 04/03/2017

LOADS and RESOURCES, FY2018

Energy, MWh	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	FY2018 Totals	WAPA Summer	Winter	CF %	% of Total Schedule Total
1 San Juan	25,177	25,177	24,365	25,177	24,365	25,177	25,177	22,740	25,177	10,558	15,431	24,365	272,886			84.19	39.33
2 Laramie	7,068	7,068	6,840	7,068	6,840	7,068	7,068	6,612	7,068	6,840	7,068	6,840	83,448			95.26	12.03
3 El Vado	3,162	3,794	2,448	1,897	0	0	0	0	1,897	4,896	6,324	3,672	28,091			40.08	4.05
4 Abiquiu	5,059	4,427	3,060	3,162	0	0	0	0	1,897	5,508	8,854	5,508	37,475			30.56	5.40
5 Abiquiu LFTG	315	333	443	710	703	633	778	530	776	892	751	274	7,139			2.72	1.03
6 TA-3 Steam	0	0	0	0	0	0	0	0	0	0	0	0	0			0.00	-
7 LANL CT, 25 MW	400	400	400	400	400	400	400	400	400	400	400	400	4,800			2.74	0.69
8 WAPA DOE, Firm	4,963	5,039	4,905	5,079	5,631	5,410	6,183	6,404	6,735	6,316	6,518	6,796	69,979	34,537	35,442	31.95	10.09
9 WAPA LAC, Firm	357	339	338	481	501	583	518	461	481	350	343	340	5,092	2,067	3,025	37.05	0.73
10 WAPA Peaking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
11 WAPA WRP and CDP	12,420	11,880	12,672	12,420	12,144	11,340	4,860	3,528	540	3,696	7,560	9,504	102,564			14.78	0.61
12 PV Landfill	357	357	346	357	346	357	357	323	357	346	357	346	4,205			0.61	0.06
13 Future Resource (PPA)	5,400	5,400	5,280	5,400	10,560	13,500	5,400	5,040	2,700	5,280	5,400	5,280	74,640			10.76	1.06
14 Economy Purchases	1,488	0	0	992	2,400	1,736	0	0	0	0	0	0	6,616			0.95	0.07
15 Economy Sales	(100)	(300)	(200)	(300)	(400)	(400)	(200)	(300)	(100)	(300)	(200)	(300)	(3,100)			(0.45)	(0.03)
16 Outage Assistance	0	0	0	0	0	0	0	0	0	0	0	0	0			0.00	0.00
17 Load + Losses	65,977	63,821	60,828	62,770	63,446	65,760	50,536	45,696	47,890	44,747	58,750	63,021	693,241		Total		100.00
18 MWh Avail	66,067	63,915	60,896	62,844	63,490	65,804	50,541	45,738	47,929	44,782	58,806	63,025	693,834				Transmission
19 MWh Scheduled	66,067	63,915	60,896	62,844	63,490	65,804	50,541	45,738	47,929	44,782	58,806	63,025	693,834				Energy cost
20 MWh +Excess/-Deficit	90	93	68	74	44	44	5	42	39	35	56	3	594				
21 Peaking PBs-Pool	0	0	0	0	0	0	0	0	0	0	0	0	0				
22 Peaking PBs-Purch	0	0	0	0	0	0	0	0	0	0	0	0	0				
23 LANSCE	0	0	0	0	0	0	0	0	0	0	0	0	0				
24 LANL-LANSCE	0	0	0	0	0	0	0	0	0	0	0	0	0				
25 LEDA	0	0	0	0	0	0	0	0	0	0	0	0	0				
26 DOE Total	51,394	51,300	48,922	50,903	51,130	51,792	36,817	33,687	36,124	33,649	47,102	49,868	542,688				
27 LAC	12,198	10,214	9,708	9,598	10,023	11,591	11,893	10,357	10,035	9,480	9,524	10,876	125,496				
28 Total Load	63,592	61,514	58,629	60,501	61,153	63,383	48,709	44,044	46,159	43,129	56,626	60,743	668,184				
29 Losses	2,385	2,307	2,199	2,269	2,293	2,377	1,827	1,652	1,731	1,617	2,123	2,278	25,057				
30 DOE %	0.80818	0.83396	0.83442	0.84135	0.83610	0.81713	0.75585	0.76484	0.78260	0.78019	0.83181	0.82096	0.81218				
31 LAC %	0.19182	0.16604	0.16558	0.15865	0.16390	0.18287	0.24415	0.23516	0.21740	0.21981	0.16819	0.17904	0.18782				
32 Purchase, MWh	19,665	17,637	18,298	19,169	25,450	26,933	10,617	8,891	3,597	9,322	13,317	15,130	188,025				
33 % of Total	30	28	30	31	40	41	21	19	8	21	23	24	27				
33a SJ Unit-1 Day Avail														2			
33b SJ Unit-4 Day Avail																	

UPDATED: 04/03/2017

LOADS and RESOURCES, FY2018

Capacity, MW	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Totals
33b LRS Unit-day @100%	62	62	60	62	60	62	62	58	62	60	62	60	0
34 San Juan Unit 1	36	36	36	36	36	36	36	36	36	16	22	36	120
34a San Juan Unit 4	10	10	10	10	10	10	10	10	10	10	10	10	45
35 Laramie	5	6	4	3	0	0	0	0	3	8	10	6	60
36 El Vado	8	7	5	3	0	0	0	0	3	9	14	9	12
37 Abiquiu	0.50	0.53	0.72	1.12	1.15	1.00	1.23	0.93	1.23	1.46	1.19	0.45	0
38 Abiquiu LFTG	0	0	0	0	0	0	0	0	0	0	0	0	0
39 TA-3 Steam	25	25	25	25	25	25	25	25	25	25	25	25	300
40 LANL CT, 20 MW	10	10	8	10	10	12	12	11	10	8	8	9	118
41 WAPA DOE, Firm	1	1	1	1	1	1	1	1	1	1	1	1	12
42 WAPA LAC, Firm	0	0	0	0	0	0	0	0	0	0	0	0	0
43 WAPA Peaking	2	2	2	2	2	2	2	2	2	2	2	2	24
44 PV Landfill	23	22	24	23	23	21	9	7	1	7	14	18	192
45 WAPA WRP and CDP	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Outage Assistance	10	10	10	10	20	25	10	10	5	10	10	10	140
47 Future Resource (PPA)	3	5	5	2	10	7	5	5	5	5	5	5	60
48 Economy Purchases	5	0	0	0	0	0	0	0	0	0	0	0	0
49 Spinning Reserve Purch	0	0	0	0	0	0	0	0	0	0	0	0	0
50 LANSCE, MW	0	0	0	0	0	0	0	0	0	0	0	0	0
51 LANL-LANSCE, MW	0	0	0	0	0	0	0	0	0	0	0	0	0
52 LEDA, MW	0	0	0	0	0	0	0	0	0	0	0	0	0
53 DOE Total, MW	74.8	74.2	73.3	73.9	73.7	71.7	54.3	51.4	53.9	54.5	68.6	75.0	799
54 LAC, MW	17.4	16.5	15.3	13.5	15.9	19.2	18.0	15.7	15.9	13.8	14.0	20.7	196
54a													
55 Total Load, MW	92	91	89	87	90	91	72	67	70	68	83	96	995
56 Required Reserve	8	8	8	8	8	8	6	6	6	6	8	8	88
57 Losses, MW	3	3	3	3	3	3	2	2	2	2	3	3	32
58 Total Required, MW	103	102	100	98	101	102	80	75	78	76	94	107	1,115
59 MW Avail	138	135	131	133	143	145	111	108	102	102	122	131	1,503
60 Excess/-Deficit, MW	35	33	31	35	43	43	12	33	24	26	29	25	369
61 DOE %	0.81131	0.81844	0.82710	0.84595	0.82284	0.78913	0.75105	0.76594	0.77248	0.79844	0.83101	0.78391	0.80337
62 LAC %	0.18869	0.18156	0.17290	0.15405	0.17716	0.21087	0.24895	0.23406	0.22752	0.20156	0.16899	0.21609	0.19663
63 Load	92	91	89	87	90	91	72	67	70	68	83	96	
64 WAPA Trans Use	34	33	33	34	34	34	34	22	19	12	16	23	28
65 Imports	103	100	96	98	108	110	77	74	68	68	87	96	
66 Purchase, MW	43	39	41	42	60	60	26	24	13	24	31	35	438
67 % of Total	42	38	41	43	60	59	32	32	17	31	33	33	39

Max Mw= 96

Energy, MWh	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	FY2019 Totals	WAPA Summer	Winter	CF %	% of Total Schedule
1 San Juan	25,177	25,177	24,365	25,177	24,365	25,177	25,177	22,740	25,177	24,365	25,177	24,365	296,438			91.46	42.83
2 Laramie	7,068	5,472	5,016	7,068	6,840	7,068	7,068	6,384	7,068	3,648	7,068	6,840	76,608			87.45	11.07
3 El Vado	3,162	3,794	2,448	1,897	0	0	0	0	1,897	4,896	6,324	3,672	28,091			40.08	4.06
4 Abiquiu	5,059	4,427	3,060	3,162	0	0	0	0	1,897	5,508	8,854	5,508	37,475			30.56	5.41
5 Abiquiu LFTG	315	333	443	710	703	633	778	530	776	892	751	274	7,139			2.72	1.03
6 TA-3 Steam	0	0	0	0	0	0	0	0	0	0	0	0	0			0.00	-
7 LANL CT, 25 MW	400	400	400	400	400	400	400	400	400	400	400	400	4,800			2.74	0.69
8 WAPA DOE, Firm	4,963	5,039	4,905	5,079	5,631	5,410	6,183	6,404	6,735	6,316	6,518	6,796	69,979	34,537	35,442	31.95	10.11
9 WAPA LAC, Firm	357	339	338	481	501	583	518	461	481	350	343	340	5,092	2,067	3,025	37.05	0.74
10 WAPA Peaking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
11 WAPA WRP and CDP	11,880	11,340	12,144	10,800	12,144	11,340	2,160	1,512	0	0	0	8,976	82,296			11.89	11.89
12 PV Landfill	179	179	173	179	173	179	179	161	179	173	179	173	2,102			0.30	0.30
13 Future Resource (PPA)	7,440	7,440	7,200	7,440	7,200	7,440	7,440	6,720	7,440	7,200	7,440	7,200	87,600			12.66	12.66
14 Economy Purchases	0	0	0	0	4,800	6,944	0	0	0	0	0	240	11,984			1.73	1.73
15 Economy Sales	(400)	(500)	(300)	(300)	(100)	(100)	0	0	(4,000)	(8,900)	(3,100)	(200)	(17,500)			(253)	(253)
16 Outage Assistance	0	0	0	0	0	0	0	0	0	0	0	0	0			0.00	0.00
17 Load + Losses	65,572	63,396	60,427	62,068	62,752	65,069	49,838	45,213	47,363	44,846	59,918	64,569	691,031			Total	100.00
18 MWh Avail	65,600	63,440	60,491	62,093	62,757	65,073	49,902	45,313	48,050	44,848	59,953	64,584	692,105			Transmission	Energy cost
19 MWh Scheduled	65,600	63,440	60,491	62,093	62,757	65,073	49,902	45,313	48,050	44,848	59,953	64,584	692,105				
20 MWh +Excess/Deficit	28	44	64	26	5	4	65	99	688	2	35	14	1,074				
21 Peaking PB>Pool	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0
22 Peaking PB>Purch	0	0	0	0	0	0	0	0	0	0	0	0	0			PB Total=	0
23 LANSCE	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0
24 LANL-LANSCE	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0
25 LEDA	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0
26 DOE Total	50,867	50,774	48,423	50,115	50,345	50,995	36,010	33,103	35,500	33,634	48,118	51,236	539,120				19
27 LAC	12,335	10,331	9,820	9,709	10,138	11,722	12,027	10,476	10,150	9,590	9,634	11,000	126,934				
28 Total Load	63,202	61,105	58,243	59,824	60,484	62,717	48,036	43,579	45,651	43,225	57,753	62,236	666,054				
29 Losses	2,370	2,291	2,184	2,243	2,268	2,352	1,801	1,634	1,712	1,621	2,166	2,334	24,977				
30 DOE %	0.80483	0.83093	0.83139	0.83770	0.83238	0.81310	0.74963	0.75961	0.77765	0.77813	0.83318	0.82326	0.80942				
31 LAC %	0.19517	0.16907	0.16861	0.16230	0.16762	0.18690	0.25037	0.24039	0.22235	0.22187	0.16682	0.17674	0.19058				
32 Purchase, MWh	19,499	18,959	19,517	18,419	24,317	25,903	9,779	8,393	7,619	7,373	7,619	16,589	183,982				
33 % of Total	30	30	32	30	39	40	20	19	16	16	13	26	27			8184	3.23
33a SJ Unit-1 Day Avail																	
33s SJ Unit-4 Day Avail	31	31	30	31	30	31	31	28	31	30	31	30	30				2400.00

UPDATED: 04/03/2017

LOADS and RESOURCES, FY2019

Capacity, MW	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Totals	
33b LRS Unit-day @100%	62	48	44	62	60	62	62	56	62	32	62	60	0	
34 San Juan Unit 1	36	36	36	36	36	36	36	36	36	36	36	36	0	
35 San Juan Unit 4	10	8	7	10	10	10	10	10	10	5	10	10	110	
36 Laramie	5	6	4	3	0	0	0	0	3	8	10	6	45	
36 El Vado	8	7	5	5	0	0	0	0	3	9	14	9	60	
27 Abiquiu	0.50	0.53	0.72	1.12	1.15	1.00	1.23	0.93	1.23	1.46	1.19	0.45	12	
38 Abiquiu LFTG	0	0	0	0	0	0	0	0	0	0	0	0	0	
39 TA-3 Steam	25	25	25	25	25	25	25	25	25	25	25	25	300	CROD
40 LANL CT, 20 MW	10	10	8	10	10	12	12	11	10	8	8	9	118	32,441
41 WAPA DOE, Firm	1	1	1	1	1	1	1	1	1	1	1	1	12	982
42 WAPA LAC, Firm	0	0	0	0	0	0	0	0	0	0	0	0	0	15,000
43 WAPA Peaking	1	1	1	1	1	1	1	1	1	1	1	1	12	
44 PV Landfill	22	21	23	20	23	21	4	3	0	0	0	17	154	
45 WAPA WRP and CDP	0	0	0	0	0	0	0	0	0	0	0	0	0	
46 Outage Assistance	10	10	10	10	10	10	10	10	10	10	10	10	120	
47 Future Resource (PPA)	5	5	5	5	5	5	5	5	5	5	5	5	49	
48 Economy Purchases	5	0	0	0	0	0	0	0	0	0	0	0	60	
49 Spinning Reserve Purch	0	0	0	0	0	0	0	0	0	0	0	0	0	
50 LANSCE, MW	0	0	0	0	0	0	0	0	0	0	0	0	0	
51 LANL-LANSCE, MW	0	0	0	0	0	0	0	0	0	0	0	0	0	
52 LEDA, MW	0	0	0	0	0	0	0	0	0	0	0	0	0	
53 DOE Total, MW	74.0	73.7	72.4	72.8	72.6	70.6	53.2	50.6	53.0	71.5	74.1	77.0	816	
54 LAC, MW	18	17	15	14	16	19	18	16	16	14	14	21	198	
55 Total Load, MW	92	90	88	86	89	90	71	66	69	85	88	98	1,013	Max Mw= 98
56 Required Reserve	8	8	8	8	8	8	6	6	6	8	8	8	90	
57 Losses, MW	3	3	3	3	3	3	2	2	2	3	3	4	34	
58 Total Required, MW	103	101	99	97	100	101	79	74	77	96	99	110	1,137	
59 MW Avail	133	130	126	127	142	150	105	103	105	110	121	130	1,484	
60 Excess/-Deficit, MW	31	29	27	30	43	49	12	28	28	13	22	21	333	
61 DOE %	0.80803	0.81602	0.82403	0.84263	0.81915	0.78489	0.74521	0.76109	0.76780	0.83708	0.84005	0.78657	0.80491	
62 LAC %	0.19197	0.18398	0.17597	0.15737	0.18085	0.21511	0.25479	0.23891	0.23220	0.16292	0.15995	0.21343	0.19509	
64 WAPA Trans Use	92	90	88	86	89	90	71	66	69	85	88	98		
65 Imports	33	32	32	31	34	34	17	15	11	9	9	27		
66 Load	99	96	92	93	108	116	72	70	72	76	87	95		
66 Purchase, MW	38	37	39	36	59	65	20	19	16	16	16	34	395	
67 % of Total	37	36	39	37	59	64	25	26	21	17	16	31	35	



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:	6.E
Index (Council Goals):	BCC - N/A
Presenters:	Bob Westervelt, Deputy Utilities Manager - Finance/Admin
Legislative File:	9562-17

Title

Approval of Modification 20 to the Electric Energy and Power Coordination Agreement (ECA) Between the Incorporated County of Los Alamos and the United States Department of Energy (DOE).

Recommended Action

I move that the Board of Public Utilities approve this Modification 20 to the Electric Coordination Agreement as presented and forward to Council with a recommendation for approval.

Staff Recommendation

Staff recommends approval as presented.

Body

The Power Pool was established through the Electric Coordination Agreement (ECA) between Los Alamos County and The Department of Energy in 1985. (Note: In 2002 the National Nuclear Security Administration was established as a branch of the Department of Energy and took over responsibility for the ECA. The acronyms NNSA, DOE, and LANL may be used interchangeably throughout this discussion). Through the contract, both parties contribute the power from and costs of each of the respective "Pool Approved Resources" into the Pool, and those costs are then allocated back to the parties pro rata according to each party's usage. The contract has been renewed continuously since 1985. Historically the County has contributed approximately 75% of the resources, while the Lab has accounted for approximately 80% of the load.

The attached MOD20 to the Electric Coordination Agreement was approved by the Operating Committee on June 1, 2017. The changes are minor, mainly clarifying responsibilities for Critical Infrastructure Protection (CIP v5) and Western Electricity Coordinating Council (WECC) compliance, removal of the TA-3 Cogeneration Facility, which has been out of service for some time, as an approved resource, and correcting language related to fixed asset charges to reflect actual practice. The agreed status and cost share of the Carbon Free Power Project and the treatment of exploration of future resources are also included, primarily as a bridge to future negotiations for a MOD 21 where these matters will be refined more in the context of a post 2025 ECA. No changes to cost share, asset mix, or contract term are included in this modification.

Alternatives

The Board could elect not to accept the proposed MOD20, in which case the parties would have to continue negotiations to address these matters.

Fiscal and Staff Impact

There is no immediate staff or fiscal impact. The proposed clauses proposed are intended to add clarity as to the matters covered.

Attachments

A - Proposed ECA Mod 20

Electric Energy and Power Coordination Agreement

The purpose of this modification is to: (1) insert ARTICLE XVI- Western Electric Coordinating Council Compliance, (2) insert ARTICLE XVII – Carbon Free Power Project (3) Insert ARTICLE XVIII – Future Resources, (4) revise Attachment A Exhibit A, Schedule 3, Rev. 2, (5) insert new Attachment A Exhibit B, Schedule 4.1 Rev. 0, (6) Remove Attachment A, Exhibit A, Schedule 1.1, TA-3 Generating Plant Units 1, 2, and 3

(1) ARTICLE XVI- Western Electric Coordinating Council Compliance and Peak Reliability Services

The Western Electricity Coordinating Council (WECC) is the Regional Entity for the Western Interconnection responsible for compliance monitoring and enforcement. NNSA is registered as a Transmission Owner (TO) and Transmission Operator (TOP) with WECC. As a registered entity, NNSA is responsible for compliance with all requirements of the WECC standards that are applicable to their function for which they are registered ~~for~~. NNSA is required to self-certify annually for all registered functions and WECC conducts compliance audits of the TO/TOPs per their schedule. As part of the ECA, the County provides and is responsible for the operation and maintenance of the Supervisory Control and Data Acquisition (SCADA) software system and the Backup Control Center that support the NNSA TOP function at LANL. The SCADA system and the Backup Control Center provide critical functions that are needed to meet the WECC TOP requirements related to Critical Infrastructure Protection and cybersecurity requirements. Operating Procedure C15, *NERC CIP Compliance and Electric SCADA System Maintenance* includes details on the WECC requirements applicable to the transmission system.

The parties agree to the following terms to ensure compliance with the applicable WECC standards and/or requirements:

Each party shall comply with the North American Electric Reliability Corporation and Western Electric Coordinating Council (WECC) standards where applicable, for the safe and reliable operation of the electric distribution/transmission system. NNSA will notify the County, when new standards or modifications to standards ~~as are~~ applicable. The NNSA/County Operating Procedures will be updated to identify the requirements and who is the responsible party to implement, as necessary.

NNSA and the County shall be responsible for the maintenance and operation of their respective transmission facilities. Incurrence of significant costs relating to operation or maintenance of Pool transmission facilities will be reviewed and approved pursuant to the NNSA/County Operating Committee procedures for budgeting and planning. (Reference Operating Procedure C5, 1.1, *Transmission System Operation and Maintenance*) Attachment A, Exhibit A, Schedule 3, Rev 3 identifies the NNSA transmission facilities. Attachment A, Schedule 4.1, Rev 0 identifies the County transmission facilities.

As the registered entity with WECC, NNSA shall be the lead party responsible for the annual self-certification and audits including (1) communication with WECC regarding any issues or concerns; (2) submitting the required documentation; and (3) coordinating with the County in a timely manner. The

County shall provide the appropriate documentation to support NNSA within the required timeframes as communicated by NNSA.

~~If a penalty is assessed by WECC for non-compliance, then each party whose action or lack of action is responsible for the penalty shall be solely responsible for the penalty including fines and those fines shall not be included as a pool expense.~~

Peak Reliability (Peak) serves as the Reliability Coordinator, as defined by the North American Electric Reliability Corporation, and as delegated by the Western Electricity Coordinating Council (WECC), for the Western Interconnection. The NNSA signed the Peak Reliability Coordinator Funding Agreement in July 2015. As a registered TOP/TQP, NNSAL must pay for Peak's services in accordance with the Funding Agreement. The monthly payment for the reliability coordination service will be included as a pool expense.

(2) Article XVII -Carbon Free Power Project (CFPP)

The Los Alamos Power Pool Operating Committee approved a not to exceed budget of \$145,540 to be used for Phase 1, the fatal flaw analysis for the Carbon Free Power Project at the preferred site in Idaho to evaluate the potential for this future resource to serve the Los Alamos Power Pool. The fatal flaw analysis will be used to determine the viability of a CFPP project as a future pool asset. The analysis evaluates the region of interest, land use agreement for the preferred site ~~at the~~in Idaho, develop~~ment~~ment of water acquisition strategy, and UAMPS-NuScale cost share agreement.

The parties agree that costs associated with the initial Fatal Flaw Analysis is in accordance with Exhibit C Miscellaneous Costs of Mutual Benefit, cost associated with studies and meetings with the planning for resources and facilities, the parties agree these costs~~s~~ will be allocated 50 percent demand and 50 percent energy.

Further participation in the project as defined in the UAMPS CFPP Power Sales Contract for the Development period will covered by a separate agreement or modification of the ECA.

(3) Article XVIII – Future Resources

The Electrical Coordination Agreement expires on June 30, 2025. There is a mutual interest between both parties to continue a relationship beyond 2025~~, and~~ It is acknowledged that the relationship structure may change from the current ECA.

The parties recognized the need for each party to explore, investigate, or evaluate other power resources or assets that can be pursued as either as a joint or separate projects. This may include but not limited to power production facilities or long term power purchase agreements. The project(s) will be presented to the Operating Committee to vote on how to pursue the project (joint or individual). If either party decides not to participate in the ~~project~~project, then the responsible party will be liable for all costs associated with the project if they decide to continue and not be included as a pool expense. If

the Committee decides on a joint project, then cost will be shared per Exhibit C Miscellaneous Costs and includable as a pool expense.

The parties agree that either of parties are not prohibited from exploring, investigating, or evaluating future resources or assets and will do so at their own expense unless both parties agree there is a mutual benefit and to share the cost. Both parties will keep each other informed of their efforts.

The parties recognizes that Operating Procedure D1, *Planning Studies*, provides for the Operating Committee to commission studies to assess potential resource additions to meet future load and reliability requirements. Exhibit C *Miscellaneous Costs of Mutual Benefit* outlines how the costs associated with these studies will be captured. In accordance with Exhibit C, the parties agree these costs will be allocated 50 percent demand and 50 percent energy

All costs including budget amendments or adjustments are to be submitted to the County Authority and the Contracting Officer for their review and approval.

(4) Revise Attachment A Exhibit A, Schedule 3, Rev. 2 DOE 115 KV TRANSMISSION AND SUBSTATION FACILITIES

Attachment A, Exhibit A, Schedule 3, Rev. 2 is revised to include additional resources associated with the STA and WTA. Modification 17 recognizes the STA-WTA link but Attachment A was not updated. The attachment is revised and incorporated as Attachment A, Exhibit A, Schedule 3, Rev. 3 DOE 115 KV TRANSMISSION AND SUBSTATION FACILITIES

(5) Insert Attachment A Exhibit B, Schedule 4.1 Rev. 0

Attachment A Exhibit B, Schedule 4.1 Rev. 0 is incorporated to recognize the Los Alamos County's transmission/distribution asset as an approved resource.

(6) Remove Attachment A, Exhibit A, Schedule 1.1, TA-3 Generating Plant Units 1, 2, and 3

Attachment A, Exhibit A, Schedule 1.1 TA-3 Generating Plant Units 1, 2, and 3 is removed as an approved resource. The asset is no longer in service.

DOE 115 KV TRANSMISSION AND SUBSTATION FACILITIES

Description

The DOE Los Alamos 115 kV Transmission and Substation Facilities includable as Approved Resources are as follow:

- (a) ETA Switching Station and related facilities
- (b) STA Switching Station and related facilities
- (c) WTA Switching Station and related facilities
- (d) 115 kV Transmission ETA to TA-3, ETA to TA-53, TA-53 to TA-3, STA to WTA, and WTA to TA-3
- (e) 115 kV Transmission ETA to PNM system point of connection
- (f) TA-3 Transformation and related facilities
- (g) Capacitor Banks and related facilities
- (h) Synchronous Optical Network (SONET Ring)
- (i) Primary Control Room and the Personal Access Control System

Monthly Fixed Charge

In order to more accurately reflect the current fixed asset valuation and amortization the~~The~~ parties agree that ~~the a~~ monthly fixed charge associated with the NNSA 115 KV Transmission and Substation Facilities for each budget year will be based upon is based upon amortization of the remaining~~the net book~~ asset value over the remaining estimated asset life as of June 30 of the preceding contract year. Estimated asset lives will be established when assets are placed in service based on standard asset lives adopted for assets of a similar nature, industry or trade standards, or other methodology agreed to by the parties upon project approval. July 1, 1985, and subsequent additions. Any assets expensed directly or fully amortized will be excluded from this fixed charge amount. The monthly charge will be included as part of NNSA's annual budget. Replacements and additions of single items, not to exceed \$20,000, shall be separately charged as an operating expense on an actual cost incurred basis.

Annual Adjustment of Fixed Charges

~~In the event of extraordinary additions or replacements of single items, in excess of \$20,000, the parties may agree to treat specific additions or replacements as capital improvements and negotiate a revision of the fixed charge. An adjusted monthly fixed charge as agreed upon by the parties shall become effective upon (1) written modification to this exhibit or (2) the approval by the Contracting Officer and County Authority of such revised charge within the Resource Accounting Pool's 24-month budget.~~

Operating and Maintenance Expenses

The parties agree that all operating and maintenance expenses associated with the approved 115 kV Transmission and Substation Facilities are includable herein.

DRAFT

County 115 KV TRANSMISSION AND SUBSTATION FACILITIES

Description

The County Los Alamos 115 kV Transmission and Substation Facilities includable as Approved Resources are as follow:

- (a) SCADA System
- (b) Backup Control Room

Monthly Fixed Charge

In order to more accurately reflect the current fixed asset valuation and amortization the parties agree that a monthly fixed charge associated with the County 115 KV Transmission facilities for each budget year will be based upon amortization of the remaining net asset value over the remaining estimated asset life as of June 30 of the preceding contract year. Estimated asset lives will be established when assets are placed in service based on standard asset lives adopted for assets of a similar nature, industry or trade standards, or other methodology agreed to by the parties upon project approval. Any assets expensed directly or fully amortized will be excluded from this fixed charge amount. The monthly charge will be included as part of NNSA's annual budget. Replacements and additions of single items, not to exceed \$20,000, shall be separately charged as an operating expense on an actual cost incurred basis.

Annual Adjustment of Fixed Charges

In the event of extraordinary additions or replacements of single items, in excess of \$20,000, the parties may agree to treat specific additions or replacements as capital improvements and negotiate a revision of the fixed charge. An adjusted monthly fixed charge as agreed upon by the parties shall become effective upon (1) written modification to this exhibit or (2) the approval by the Contracting Officer and County Authority of such revised charge within the Resource Accounting Pool's 24-month budget.

Operating and Maintenance Expenses

The parties agree that all operating and maintenance expenses associated with the approved 115 kV Transmission and Substation Facilities are includable herein.



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 6.F
Index (Council Goals): BCC - N/A
Presenters: Jack Richardson, Deputy Utilities Manager - GWS Services
Legislative File: 9369-17

Title

Approval of Contract No. 17-WC-40-668 with the United States Bureau of Reclamation for Lease of the 2017 Allocation of San Juan/Chama Project Water

Recommended Action

I move that the Board of Public Utilities approve Contract No. 17-WC-40-668 between the Incorporated County of Los Alamos and the United States Bureau of Reclamation for lease of the County's 2017 allocation of San Juan/Chama Project water.

Staff Recommendation

Staff recommends approval of the lease agreement per the motion as presented.

Body

Since taking over the Contract for the San Juan-Chama Project from the Department of Energy in 1998, the County has leased its annual allocation back to the Bureau of Reclamation. The Bureau has used this water to augment the total water supply to the Middle Rio Grande Valley (endangered minnow habitat low flows and/or irrigation needs) at its discretion.

The Department of Public Utilities has developed a cost effective plan to develop facilities and use the County's allotment, but until facilities are put in place to actually divert the water, we cannot claim it for use. We have leased storage space in Abiquiu Reservoir to store slightly less than one year's allocation of water but that space is currently subleased to the City of Santa Fe. Contractually, the water can only be released to a downstream user, so merely letting it go down the river is not a legal option for the County. If the water is not used by December 31st each year we must forgo the delivery but still pay for it. The Bureau has offered \$48.00 per acre-foot for the water which totals \$57,600.00 for the entire 1,200 acre-foot allocation for 2017. Furthermore, to give the Bureau maximum flexibility in the use of the water, there is a waiver included in the contract deferring the release date from 31 December 2017 until 30 September 2018. The per acre-foot payment offered by the Bureau is based on previous years costs for operation and maintenance of the system with previous annual payments varying between \$47.00 and \$50.00 per acre-foot.

Upon approval of the contract, the Bureau will make a non-refundable payment of \$5,760.00 for 10% of the full County allotment of 1,200 acre-feet. The remaining 90% will be paid at the end of the water delivery year and after a full accounting of all deliveries. If at the end of the year the full allotment has not been released then the final payment for this leased water will be reduced to that percentage actually released. The contract allows for this flexibility.

Alternatives

The County's contract with the Bureau of Reclamation gives the Bureau first right of refusal for any third party lease of San Juan-Chama Project water, plus the Bureau must approve any such leases. The County is also not allowed to make a profit from leasing its allotment of San Juan-Chama Project water to a third party. The practical alternatives are that the County must either put our 2016 allocation into storage at Abiquiu lake, which would require a contract renegotiation with the City of Santa Fe and the elimination of the annual storage fee the City of Santa Fe pays to the County for that storage (10-year average = \$2,198.00), or forgo delivery if we elect to not lease to the Bureau. Foregoing delivery but not leasing back to the Bureau would result in the loss of the lease back payments pursuant to this contract while still being contractually required to pay the Bureau for the allotment water released in 2017.

Fiscal and Staff Impact

Unbudgeted income of between \$5,760 guaranteed minimum to \$57,600 contractual maximum.

Attachments

A - Contract No. 17-WC-40-668

SAN JUAN-CHAMA PROJECT
NEW MEXICO

SUBCONTRACT
Between the
UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
and the
INCORPORATED COUNTY OF LOS ALAMOS

TO LEASE THE USE OF
SAN JUAN-CHAMA PROJECT WATER

THIS SUBCONTRACT (Subcontract), made this _____ day of _____, 2017, between the UNITED STATES OF AMERICA, hereafter styled the United States, acting through the Secretary of the Interior (Secretary), Bureau of Reclamation (Reclamation), acting pursuant to the Act of June 17, 1902 (32 Stat. 388) and Acts amendatory thereof or supplementary thereto, particularly the authority granted the Secretary under Section 14 of the Reclamation Project Act of August 4, 1939 (ch. 418, 53 Stat. 1197; 43 U.S.C. § 389), and the Act of June 13, 1962 (76 Stat. 96), , and the Act of December 28, 1973 (87 Stat. 884), particularly Section 1536 (a) (1) (16 U.S.C. §§ 1531-1543), more commonly known as the Endangered Species Act, and the INCORPORATED COUNTY OF LOS ALAMOS, a municipal corporation in the State of New Mexico, herein styled "County."

WITNESSETH THAT:

EXPLANATORY RECITALS

WHEREAS, the Colorado River Storage Project was authorized by the Act of April 11, 1956 (70 Stat. 105), as amended and supplemented by, among other statutes, the Act of June 13, 1962 (76 Stat. 96), which authorized the San Juan-Chama Project as a participating project in the Colorado River Storage Project as set out in 43 U.S.C. §615pp, and the Act of December 29, 1981 (PL. 97-140, 95 Stat. 1717); and

WHEREAS, on January 10, 1977, the Department of Energy entered into Contract No. 7-07-51-X0883 (also known as Department of Energy Contract No. EY-77-A-32-3856) with the United States Department of the Interior, as amended, for water from the San Juan-Chama Project, to be measured at the outlet of Heron Reservoir in the amount of up to 1,200 acre-feet per year; and

WHEREAS, the Department of Energy has assigned that contract to the County and said assignment was approved by Reclamation on August 28, 1998; and

WHEREAS, the County, on September 27, 2006, entered into Repayment Contract No. 05-WC-40-560 with the United States which supersedes Contract No. 7-07-51-X0883 in its entirety; and

WHEREAS, the County has San Juan-Chama Project water available in Heron Reservoir in excess of its current needs which can be made available to Reclamation for beneficial use under terms and conditions further described herein, all consistent with applicable State and Federal law; and

WHEREAS, the Rio Grande silvery minnow (minnow) has as the status of a federally-listed endangered species and can be found in a reach of the Rio Grande between Cochiti Dam and San Marcial, New Mexico, which is prone to critically low flows during the irrigation season lasting from March 1 through October 31 each year; and

WHEREAS, until permanent strategies for managing the existing limited water supply to meet the needs of the Middle Rio Grande water users can be effectuated, minnow recovery efforts need to be made by meeting flow targets contained in the December 2, 2016 Biological Opinion; and

WHEREAS, it is Reclamation's and the County's understanding that the Middle Rio Grande Conservancy District (District) intends to operate its irrigation and drainage system to meet required flow targets with native Rio Grande water; and

WHEREAS, the District's intended operation would likely result in a need for an additional water supply to meet the irrigation needs of its water users; and

WHEREAS, Reclamation desires to augment the District's water supply by leasing up to 1,200 acre-feet of the County's 2017 San Juan-Chama Project water allocation remaining in Heron Reservoir for the purpose of irrigation within the District.

NOW, THEREFORE, it is agreed as follows:

COUNTY DELIVERABLES

1. a) The County agrees to lease to Reclamation the use of up to 1,200 acre-feet of its 2017 San Juan-Chama Project water released from Heron Reservoir.

b) The County concurs with the terms of the Waiver described below in Article 5. c), that this water is to be used to augment the total water supply to the Middle Rio Grande Valley and is expected to be released from Heron Reservoir by September 30, 2018.

c) The County agrees that no liability shall accrue to the United States should it become necessary for Reclamation to terminate the Waiver so that Reclamation can take prudent action to ensure that the Project's ability to store water is not impacted, as provided for under the terms and conditions of the Waiver.

d) The County agrees that Reclamation will call for the release of water from Heron Reservoir as necessary, and that it will cooperate with Reclamation as may be needed to facilitate such releases. The points of measurement for deliveries to the United States pursuant to this Subcontract will be at the outlet works of Heron Reservoir. The parties agree that the water leased pursuant to this agreement is not subject to evaporation losses until it is released from Heron Reservoir.

e) All previous contracts between the County and the United States shall remain in full force and effect during the term of this Subcontract.

RECLAMATION DELIVERABLES

2. a) Reclamation will pay the County \$48.00 per acre-foot up to a maximum of 1,200 acre-feet of water released from Heron Reservoir pursuant to this Subcontract. Reclamation will pay the County only for water it calls for and releases for beneficial use, under terms and conditions pursuant to this Subcontract.

b) As consideration for the water provided under the terms of this Subcontract, Reclamation will pay \$5,760.00, ten percent (10%) in advance of the total payment described under Article 3. a), upon execution of this Subcontract. The advancement of funds is made in good faith to assist the County with any administrative and legal costs it may incur. Should Reclamation not call for the release of any water, under this Subcontract, advanced funds will not be recovered by Reclamation.

c) Within 30 days of the final release of water under the terms of this Subcontract, Reclamation will provide the County an accounting of the amount of leased water released under this Subcontract.

d) Reclamation will not make any further payment for any leased water spilled from Heron Reservoir, or any water that may revert to the firm yield pool, should Reclamation find it necessary to take prudent action to ensure that the Project's ability to store water does not become impacted; as such, the Waiver and this Subcontract granted to the County will be terminated. The County agrees that no liability shall accrue to the United States as a result of such termination and that every effort will be made on Reclamation's behalf to notify the County prior to any action being taken.

e) National Environmental Policy Act (NEPA) compliance for this Contract action is by the 2016-2021 Supplement to the Rio Grande Supplemental Water Programmatic Final Environmental Assessment and Finding of No Significant Impact.

PAYMENT

3. a) Payment under this Subcontract shall not exceed \$57,600.00 for the term of this Subcontract. If Reclamation does not call for the release of any of the 1,200 acre-feet during the term of this Subcontract, the County shall not be entitled to any further payment from Reclamation beyond the \$5,760 non-refundable advance payment described under Article 2. b).

b) Upon execution of the Subcontract and based upon Reclamation's accounting of all the water actually released, the County shall bill Reclamation, no less than annually, for water actually released from Heron Reservoir under the terms of this Subcontract at a cost of \$48.00 per acre-foot less the \$5,760 non-refundable advance payment. The original billing shall be submitted to Reclamation at the following address:

Bureau of Reclamation
Albuquerque Area Office
Attention: ALB-623
555 Broadway NE, Suite 100
Albuquerque NM 87102

c) Upon verification and approval by Reclamation, the billing will be forwarded to Reclamation's finance office in Denver, Colorado, for payment to the County via electronic funds transfer. The County is responsible to register and maintain registration on sam.gov as required to receive electronic payments. Any correspondence should be directed to the following address:

Incorporated County of Los Alamos
Department of Public Utilities
1000 Central Ave., Suite 130
Los Alamos NM 87544

TERM OF SUBCONTRACT

4. This Subcontract shall be effective from the date of execution and expire upon final payment by Reclamation, under terms and conditions described herein, pursuant to this Subcontract.

WAIVER OF CARRYOVER PROVISIONS

5. a) It is agreed by both parties that all water released under this Subcontract will be in accordance with all applicable State and Federal laws.

b) All provisions of Repayment Contract No. 05-WC-40-560, except as provided below, between the County and Reclamation, dated September 27, 2006, shall remain in full force and effect, and the agreements entered herein shall not be interpreted in any manner to amend, modify, or affect that contract, or relieve either the County or Reclamation from any obligations or requirements agreed to therein.

c) Reclamation has determined it would benefit the minnow to waive subarticle 6(c), entitled "Annual Water Carryover Prohibited," of the above Repayment Contract No. 05-WC-40-560 (the "Waiver", does not apply to Waiver Article 8 below). Waiver of this provision allows the County to keep any of its remaining 2017 allocation of SJCP water in Heron Reservoir until September 30, 2018, contingent upon the Project's ability to store such water.

d) Should natural events occur that could potentially impact the Project's ability to store spring runoff, the release of waived water from Heron Reservoir may need to occur prior to September 30, 2018, and would be released in a manner consistent with State and Federal law. As such, Reclamation will make every effort to notify the County in advance prior to the release of any waived water. The County agrees to assume all risk of any lost water under said Waiver if Reclamation is not able to make beneficial use of the leased water under the terms of the forthcoming proposed lease agreement. Any losses incurred will be charged to the County after releases are made from Heron Reservoir.

e) This extension of storage time is applicable to the 2017 water year allocation only and should not be construed in any way to affect any future allotments, nor shall it be considered to be a permanent change to the above Repayment Contract, except as specified herein.

WATER QUALITY

6. The County makes no warranty or representation regarding, and Reclamation assumes all responsibility for, the quality of water released by the County to Reclamation hereunder.

WATER RIGHTS PROTECTION

7. No party hereto shall assert that any activity under this Subcontract shall affect the validity of any existing water rights or rights to water held by any other party.

WAIVER OF THIS SUBCONTRACT

8. Waiver of any breach of this Subcontract by any party hereto shall not constitute a continuing waiver or a waiver of any breach of the same or another provision of this Subcontract.

ASSIGNMENT LIMITED-- SUCCESSORS AND ASSIGNS OBLIGATED

9. The provisions of this Subcontract shall apply to and bind the successors and assigns of the parties hereto, but no assignment or transfer of this Subcontract or any right of interest therein by either party shall be valid until approved in writing by the other party.

CONTINGENT UPON APPROPRIATION OR ALLOTMENT OF FUNDS

10. The expenditure or advance of any money or the performance of any obligation of the United States under this Subcontract shall be contingent upon appropriation or allotment of funds. Absence of appropriation or allotment of funds shall not relieve the County from any obligations under this Subcontract. No liability shall accrue to the United States in case funds are not appropriated or allotted.

OFFICIALS NOT TO BENEFIT

11. No Member or Delegate to Congress, Resident Commissioner, or Federal or State Official, shall be admitted to any share or part of this Subcontract, or to any benefit that may arise therefrom.

IN WITNESS WHEREOF, the parties hereto have hereunto affixed their names, the date and year first above written.

APPROVED:

UNITED STATES OF AMERICA

Office of the Regional Solicitor

Regional Director
Upper Colorado Region
Bureau of Reclamation

ATTEST:

INCORPORATED COUNTY OF LOS ALAMOS

LOS ALAMOS COUNTY CLERK

Naomi D. Maestas

Timothy A. Glasco, P.E.
Utilities Manager

APPROVED AS TO FORM:

Office of the County Attorney
J. Alvin Leaphart IV, County Attorney



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:	7.A
Index (Council Goals):	BCC - N/A
Presenters:	Steve Cummins, Deputy Utilities Manager - Power Supply
Legislative File:	9094-17

Title

Presentation of Integrated Resource Plan

Recommended Action

No recommendations at this time.

Staff Recommendation

Information only

Body

Pace Global will present to the Board of Public Utilities its findings on the development of an Integrated Resource Plan (IRP), including results from the deterministic and stochastic analyses conducted on several electric generation portfolios.

Background: Electric Production presented a preliminary Implementation Plan to the Board of Public Utilities in July of 2016 to provide high level information as to how the DPU proposes to implement the board-adopted recommendations that were identified in the July 7, 2015 Future Electrical Energy Recourses Report (FEERR).

A key component of that DPU plan was to contract with industry professionals who specialize in the development of Integrated Resource Plans (IRP). An IRP is a tool used to arrive at a best optimal mix of generation resources that meets a Utility provider's goals and objectives at the best cost.

Accordingly, DPU awarded a contract to Pace Global to put together an IRP for Los Alamos County. The completed IRP will serve as the governing document to assist in future decision making for existing and new power generation resources to serve the Los Alamos County electrical energy demands.

Pace Global analyzed and prioritized recommendations based on new and existing generation resources, forecasted loads, transmission and grid considerations, and risks associated with the various portfolios. Pace Global also considered DPU's goal to be carbon neutral by 2040 along with several of the FEERR recommendations.

At the January 18, 2017 Utility Board meeting, staff along with Pace Global presented the preliminary generation portfolios. At this meeting the members of the Board requested two additional portfolios to be studied as follows:

-
1. A least cost portfolio and
 2. A portfolio where power is purchased in blocks from the market VS owning generation assets.

WHAT'S NEXT?

A final report is scheduled to be completed in early July. DPU will post it to its website. Additionally, DPU scheduled a public meeting on July 12th at the White Rock Library, 5:30 p.m. to present the IRP findings and a time line of the expected process for implementing. Staff is also scheduled to present the findings to the County Council.

Alternatives

N/A

Fiscal and Staff Impact

Resource planning is a primary duty of Electric Production

Attachments

A - Power Point Presentation on the Findings of the Integrated Resource Plan

Integrated Resource Planning Preliminary Results Discussion

Presented to: Los Alamos County

June 16, 2017

Agenda



- Executive Summary
- IRP Approach
- Stochastic Inputs
- Stochastic Portfolio Assessment
 - Cost
 - Risk
 - Environmental
 - Operational
- Appendix

Executive Summary

Key Recommendations

- The County needs not to be in any rush to commit to new resources until several uncertainties regarding SMRs, solar and storage are resolved.
- San Juan cannot compete in the current market and should be retired early. Laramie River is an economic plant throughout the planning horizon.
- There are benefits to the partnership post 2025 that can create a win-win situation for LANL and LAC. But the current sharing arrangement would need to change to benefit both parties to the contract.
- The most balanced portfolio that meets renewable goals and carbon reduction targets is a portfolio that relies on solar and storage (based on current indicative bids).
- A portfolio with SMRs could be competitive, if risk mitigation measures to protect ratepayers from cost overruns and schedule delays are in place.
- Hence, the optimal approach is to preserve optionality by continuing to pursue SMR risk mitigation measures and preserve the ability to take advantage of declining solar and storage costs.
- Beyond building new renewable/ clean energy capacities to meet the carbon neutral goal and renewable objectives, additional gas-fired generation capacity (CC or RICE) involves upfront capital investment in a soft market, and is not advised unless control of resources is a priority to LAPP.
- However, RICE could be considered for firming or balancing purposes.

Balanced Score Card Summary

Criteria		Cost	Risk	Environmental	Operational	Overall
S1	CC, Solar/ Storage	●	●	●	●	●
S2	CC, Solar/ Storage	●	●	●	●	●
S3	RICE, Solar/ Storage	●	●	●	●	●
S4	CC, RICE, Solar/ Storage	●	●	●	●	●
S5	RICE, Solar/ Storage, SMR	●	●	●	●	●
S6	CC, RICE, Solar/ Storage, SMR	●	●	●	●	●
S7	CC, RICE, Solar/ Storage, SMR	●	●	●	●	●
S8	RICE, Solar PV	●	●	●	●	●
S9	Solar/ Storage	●	●	●	●	●
S10	Solar/ Storage, SMR	●	● ●	●	●	● ●
S11	CC, Solar / Storage (LAC not in compliance)	●	●	●	●	●

Score Rating: ● Favorable ● Neutral ● Unfavorable

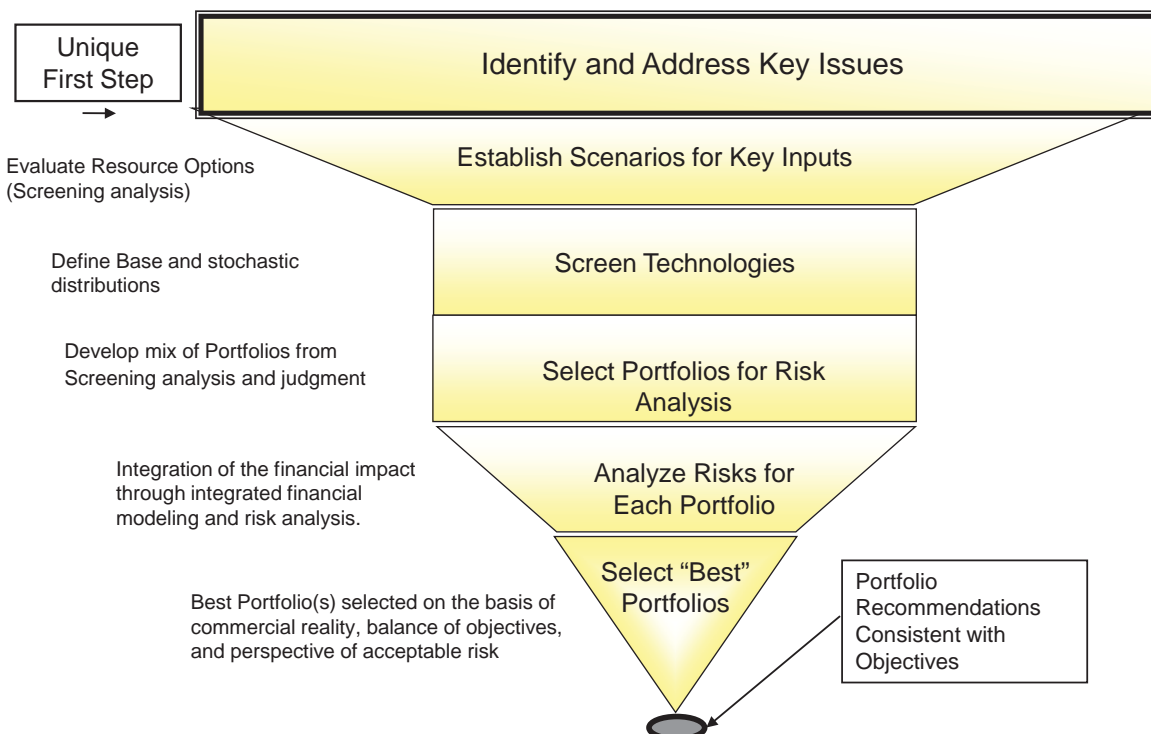
Stochastic Portfolios 8, 9 and 10 Explore Renewable-Focused New Builds with Market Purchases

Portfolio	San Juan 4 Exit Date	LRS Exit	LAPP New Builds	Reserve Margin (2017-2036)
S8: Solar Firmed with RICE Short Capacity	2022	No Exit	Large RICE: • 2017- 18 MW; 2025- 18 MW; 2030- 18 MW Solar PV: • 2017- 25 MW; 2025- 25 MW; 2030- 25 MW	LAPP Summer: 9% LAPP Winter: -5%
S9: Solar with Storage Short Capacity	2022	No Exit	Solar with Storage (onsite): • 2017- 13 MW; 2025- 8 MW • 2030- 6 MW	LAPP Summer: -11% LAPP Winter: -26%
S10: SMR, Solar with Storage Short Capacity	2022	No Exit	Solar with Storage (onsite): • 2017- 13 MW; 2025- 4 MW Nuclear (offsite): • 2026- 16 MW	LAPP Summer: -9% LAPP Winter: -23%

- Staged new build of solar capacities is best to achieve 90 percent carbon neutral by 2036 for LAC and 30 percent on-site renewable generation during 2025-2036 for LANL.
- The firming mechanism could be either battery storage or on-site RICE units. On-site RICE units are more expensive but allow more flexibility during prolonged weather events when solar PV does not generate.
- A phased approach to add smaller and incremental capacity resources on a need basis provides overall lower cost benefits for LAPP as well as maintain flexibility in the face of future uncertainties.
- If SMR costs can be capped and development risks can be mitigated, it could be considered especially in the event that local land becomes unavailable for the amount of solar needed to achieve renewable goals.

RIRP Approach

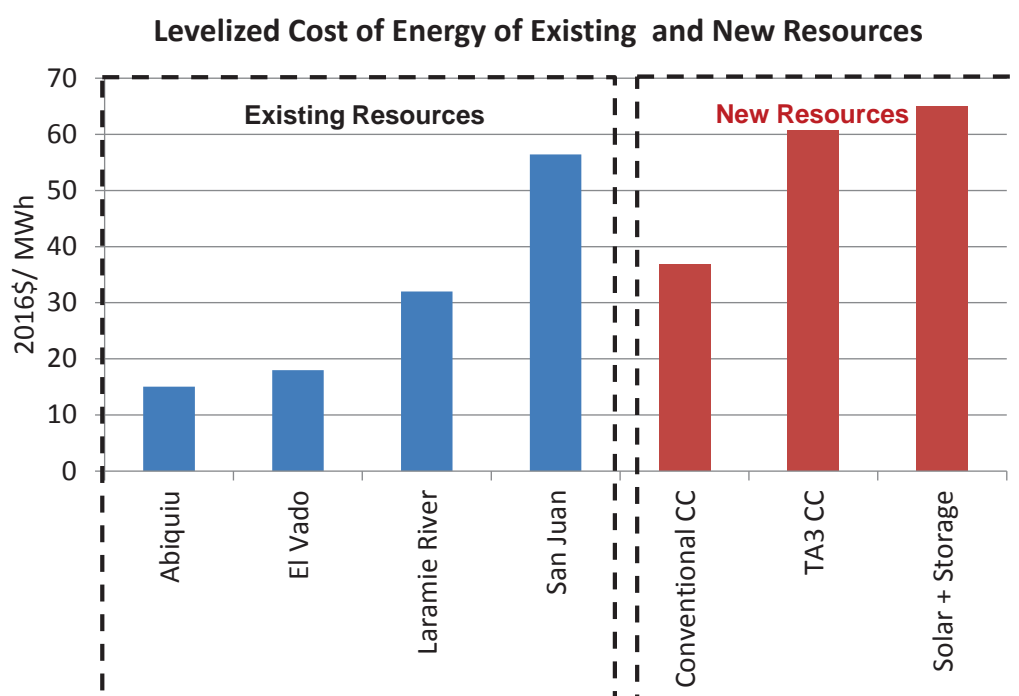
Pace Global's Structured RIRP Approach



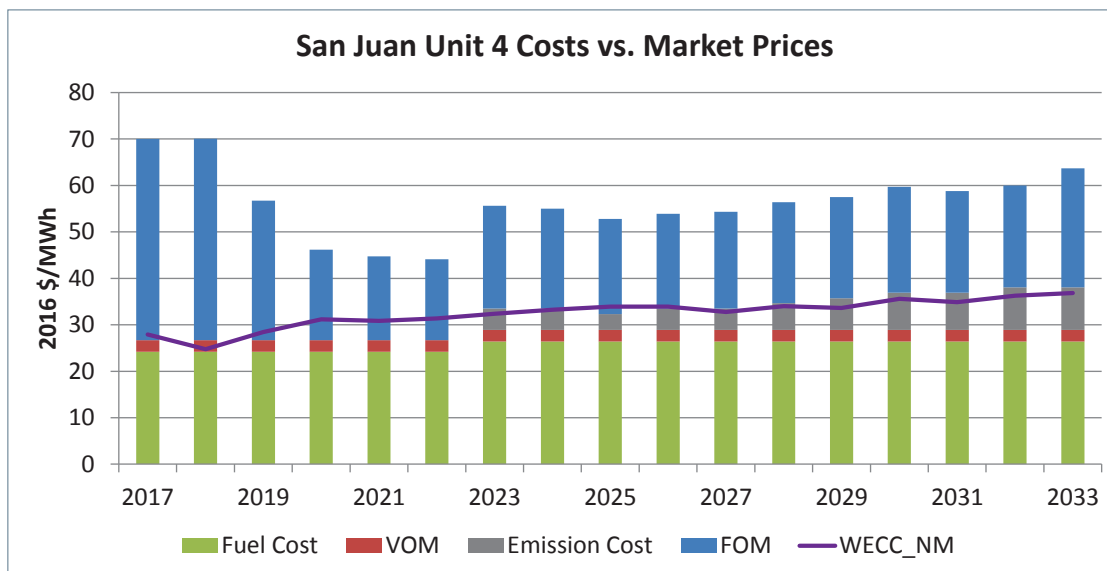
Step 1: Set Planning Objectives and Metrics

Objectives			Metrics
Cost	Cost	Minimize power supply costs	2017-2036 cost NPV
Risk	Cost Stability	Achieve cost stability	2017-2036 95 th percentile cost NPV
Environmental	Environmental Stewardship	Increase renewable generation	2017-2036 renewable generation percentage
Operational	Transmission/ Largest Contingency	Reliance on transmission	Largest generation units depending on transmission
	Development Risks	Minimize project development risks	Project development uncertainties
	Control	Ensure reliability requirements with native capacity	2017-2036 reserve margin
	Weather Dependency	Decrease weather dependency	Availability of other generation resources during prolonged weather events

Issue 1: LCOE of Existing and New Resources shows LRS is in and SJGS 4 is out of the Money

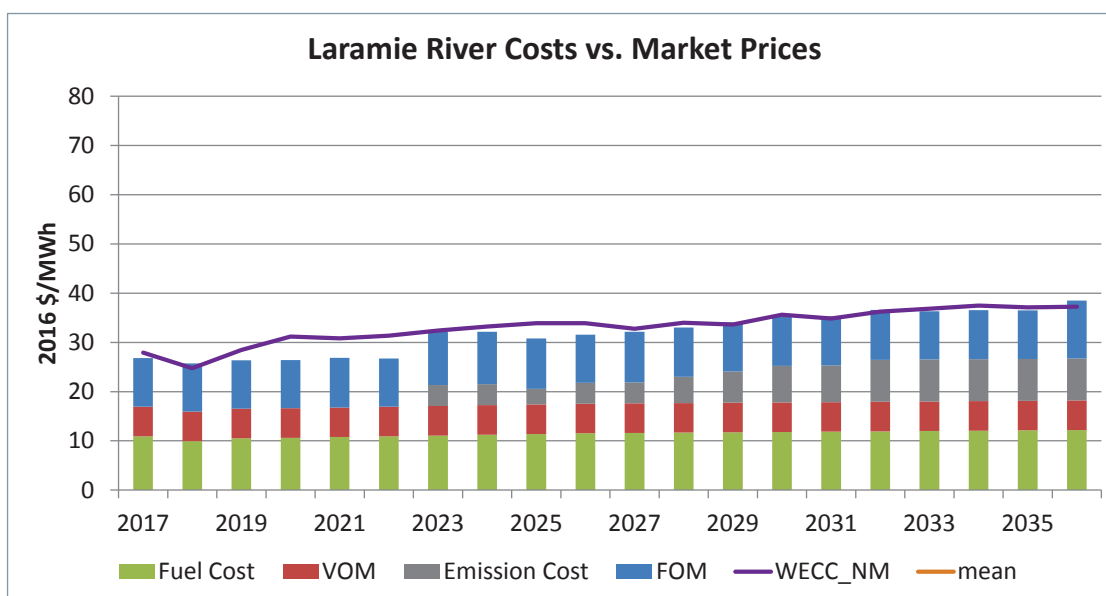


Issue 1a: SJGS 4 Early Exit is Economic Under Average Stochastic Market Prices



Note: San Juan unit 4 runs at minimum level during 2017-2033.

Issue 1b: LRS is Economic to Dispatch Under Average Stochastic Market Prices



Note: Laramie River is expected to run at an average capacity factor of 69% during 2017-2036.

Issue 2: Combined Portfolio is More Economic than Split Portfolios of LAC and LANL (Post 2025)

Portfolio	LAPP New Builds	Average Reserve Margin (2017-2036)	Total NPV Costs (\$2016 Thousand)
D6 Base Portfolio	Large CC: <ul style="list-style-type: none"> 2022- 50 MW 2031- 30 MW Solar with Storage: <ul style="list-style-type: none"> 2017- 13 MW 2025- 8 MW 2030- 6 MW 	LAPP Summer:17% LAPP Winter: 3%	LAC : \$ 63,993 LANL: \$ 346,634 Total : \$ 410,627
D7.1 (Split – LAC)	Large CC: <ul style="list-style-type: none"> 2023- 5 MW Solar with Storage: <ul style="list-style-type: none"> 2017- 3 MW; 2030- 6 MW 	LAC Summer:85% LAC Winter: 9%	LAC: \$ 56,883
D7.2 (Split – LANL)	Large CC: <ul style="list-style-type: none"> 2023- 60 MW 2031- 15 MW Solar with Storage: <ul style="list-style-type: none"> 2017- 10 MW; 2025- 7 MW 	LANL Summer:2% LANL Winter: 3%	LANL: \$ 359,935
D7 (LAC + LANL)			LAC : \$ 56,883 LANL: \$ 359,935 Total : \$ 416,819

- Splitting post 2025 results in lower costs for LAC, but higher costs for LANL. This suggests potentially different allocation of costs among the two parties for a win-win solution.

Issue 4: Spinning Reserve Could be Purchased From Market or Provided through Onsite Generation Resources

- Based on Pace Global's estimates, building medium sized RICE units on site could provide spinning reserve at similar costs to market purchases.

Estimated Costs of Spinning Reserve Purchase		
Spinning Reserve Requirement	MW	7
Average Price	\$/MW	20
Annual Cost of Spinning Reserve	\$	\$1,226,400

Note: Price of spinning reserve for 2016 ranges \$18-22/MW.

Building Medium Sized RICE Unit for Spinning Reserve		
Size	MW	9
Capital Cost	2016\$/kW	1,507
Total Costs	2016\$	13,562,640
FOM	2016\$/kW-year	19
Capital Costs Recovery over 15 Year	2016\$MW-year	\$1,136,096
All-in Costs of Providing Spinning Reserve	2016\$MW-year	\$1,155,573

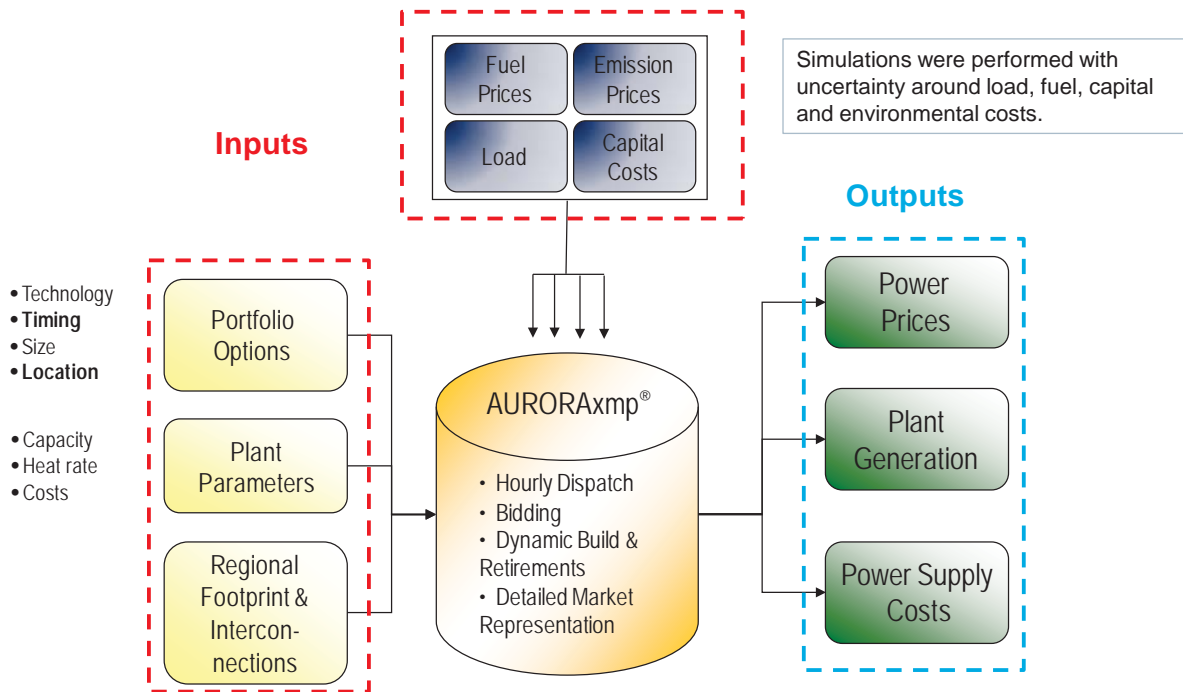
Note: Capital cost recovery is calculated at 3% over 15 years.

Step 4: Construct Candidate Stochastic Portfolios to Assess Remaining Core Issues in Risk Analysis

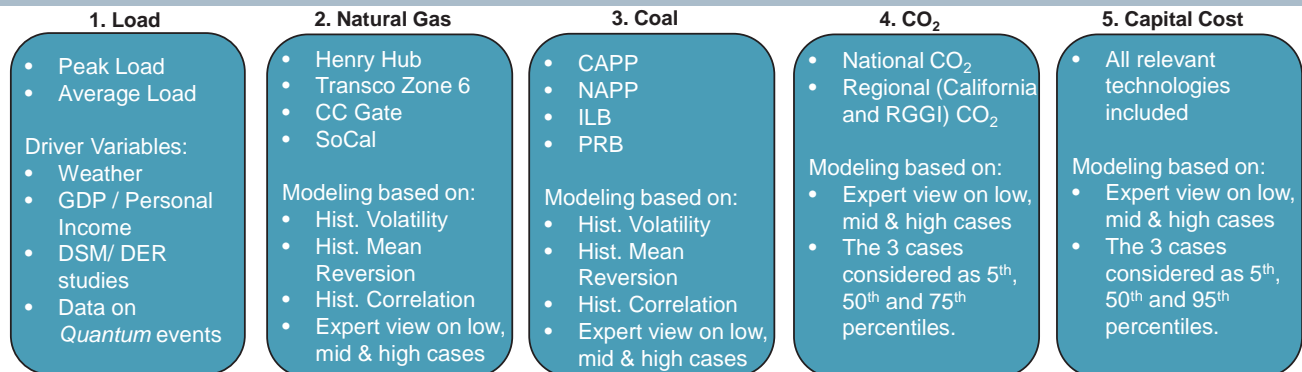
Focus	#	Capacity	New Builds
Least Cost	S1	Long	Large CC (offsite): 2023- 60 MW; 2031- 30 MW Solar with Storage (onsite): 2017- 13 MW; 2025- 8 MW; 2030- 6 MW
	S2	Short	Large CC (offsite): 2023- 50 MW Solar with Storage (onsite): 2017- 13 MW; 2025- 8 MW; 2030- 6 MW
Ownership Control	S3	At Load	Large RICE (onsite): 2023- 18 MW X 3; 2031- 18 MW Solar with Storage (onsite): 2017- 13 MW; 2025- 8 MW; 2030- 6 MW
	S4	At Load	Large CC (offsite) and RICE (onsite): 2023- 50 MW CC; 2031- 18 MW RICE Solar with Storage(onsite): 2017- 13 MW; 2025- 8 MW; 2030- 6 MW
Diversified Portfolios with SMR	S5	At Load	Large RICE (onsite): 2023- 18 MW X 3; 2031- 18 MW; Solar with Storage (onsite): 2017- 13 MW; 2025- 4 MW Nuclear (offsite): 2026- 16 MW
	S6	At Load	Large CC (offsite) and RICE (onsite): 2023- 50 MW CC; 2031- 18 MW RICE Solar with Storage (onsite): 2017- 13 MW; 2025- 4 MW Nuclear (offsite): 2026- 16 MW
	S7	Short	Large CC (offsite) and RICE (onsite): 2023- 20 MW CC; 2031- 18 MW RICE Solar with Storage (onsite): 2017- 13 MW; 2025- 4 MW; Nuclear (offsite): 2026- 16 MW
Renewable-Focused New Builds	S8	Short	Large RICE: 2017- 18 MW; 2025- 18 MW; 2030- 18 MW Solar PV: 2017- 25 MW; 2025- 25 MW; 2030- 25 MW
	S9	Short	Solar with Storage (onsite): 2017- 13 MW; 2025- 8 MW; 2030- 6 MW
	S10	Short	Solar with Storage (onsite): 2017- 13 MW; 2025- 4 MW Nuclear (offsite): 2026- 16 MW
Cost of Compliance	S11	At Load	Large CC (offsite): 2023- 50 MW; 2031- 37 MW Solar with Storage (onsite): 2017- 10 MW; 2025- 5 MW



Step 5: Perform Stochastic Assessment



Stochastic Inputs & Relevant Driver Variables



Customization:

If client-specific load forecast is provided, we make use of it to come up with distributions around it.

To develop load projections for a specific regional footprint, we consider the customer classification, economic activity, etc. as well.

Feedback and Correlation Analysis

A separate process to consider the effects of Coal & CO₂ prices on Natural Gas prices. The effects are based on historical and projected statistical relationships between gas-coal demand switching

Fuel Commodity Distributions:

Three sets of distributions for each of low, mid and high cases

Combine the three sets of distributions into one set using probabilities of 15%, 70% and 15% respectively

To capture high-side and low-side satisfactorily

Distributions:

The distributions developed also take into account the probability of CO₂ program not taking effect.
High and low expert opinions are undertaken to capture high-side and low-side satisfactorily in the final distribution.

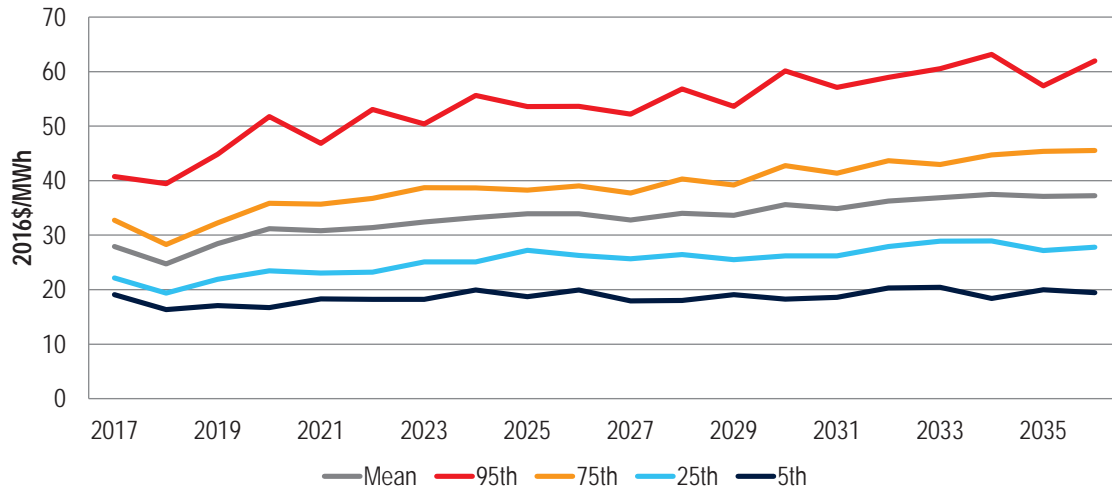
Distributions:

Parametric distribution is modeled as a Geometric Brownian Motion (GBM) model.

Quantum distribution is developed using the high and low cases in the expert opinion.

Pace Global Stochastic Analysis Indicates Power Prices in New Mexico Remain Below \$50/MWh by 2036 (75th Percentile)

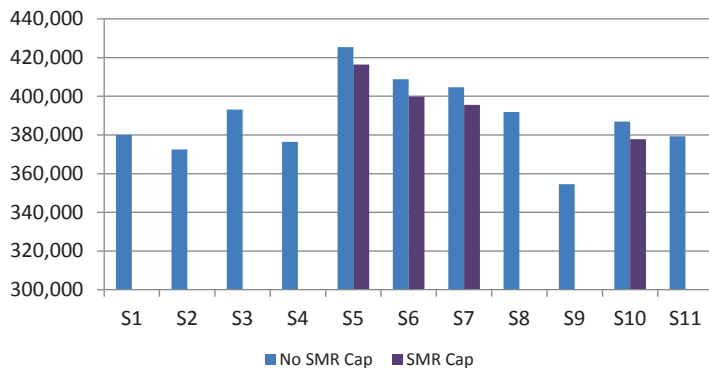
WECC-New Mexico Power Prices - Intrastate Trading



Note: The prices are under the mass-based intrastate stochastic results for the New Mexico power zone. The prices under the mass-based interstate stochastic results are similar but on average ~2% higher than what is shown in this slide.

Cost Metric: 20-year NPV Ranking

LAC IRP Stochastic Portfolio NPV Costs - Intrastate Trading



Stochastic Portfolios	
S1	CC, Solar with Storage
S2	CC, Solar with Storage
S3	RICE, Solar with Storage
S4	CC, RICE, Solar with Storage
S5	RICE, Solar with Storage, SMR
S6	CC, RICE, Solar with Storage, SMR
S7	CC, RICE, Solar with Storage, SMR
S8	RICE, Solar PV
S9	Solar with Storage
S10	Solar with Storage, SMR
S11	CC, Solar with Storage (LAC not in compliance)

Stochastic Portfolios - Intrastate Trading	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
NPV Costs without SMR Cap (thousand \$2016)	380,019	372,502	393,095	376,461	425,443	408,809	404,630	391,861	354,515	386,863	379,358
Percentage Above Lowest Cost Portfolio	7.2%	5.1%	10.9%	6.2%	20.0%	15.3%	14.1%	10.5%	0.0%	9.1%	7.0%
Index Ranking without SMR Cap (0-10 Scale)	3.60	2.54	5.44	3.09	10.00	7.65	7.07	5.27	0.00	4.56	3.50
Assessment without SMR Cap	Yellow	Green	Yellow	Green	Red	Red	Red	Yellow	Green	Yellow	Yellow
NPV Costs with SMR Cap (thousand \$2016)	380,019	372,502	393,095	376,461	416,401	399,767	395,587	391,861	354,515	377,821	379,358
Index Ranking with SMR Cap (0-10 Scale)	4.12	2.91	6.23	3.55	10.00	7.31	6.64	6.03	0.00	3.77	4.01
Assessment with SMR Cap	Yellow	Green	Yellow	Yellow	Red	Red	Yellow	Yellow	Green	Yellow	Yellow

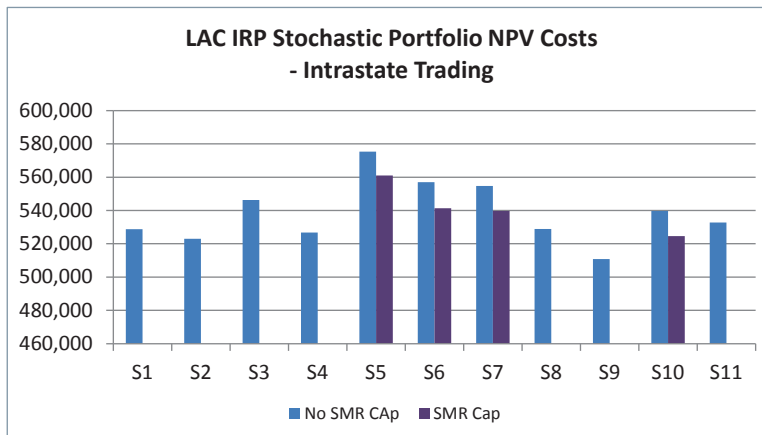
20-year NPV Cost Ranking

● Index < 3.33

● Index 3.34 – 6.67

● Index > 6.67

Risk Metric: 20-year NPV 95th Percentile Ranking



Stochastic Portfolios	
S1	CC, Solar with Storage
S2	CC, Solar with Storage
S3	RICE, Solar with Storage
S4	CC, RICE, Solar with Storage
S5	RICE, Solar with Storage, SMR
S6	CC, RICE, Solar with Storage, SMR
S7	CC, RICE, Solar with Storage, SMR
S8	RICE, Solar PV
S9	Solar with Storage
S10	Solar with Storage, SMR
S11	CC, Solar with Storage (LAC not in compliance)

Stochastic Portfolios - Intrastate Trading	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
95th Percentile without SMR Cap (thousand \$2016)	528,741	523,005	546,323	526,736	575,261	556,977	554,652	528,887	510,798	539,720	532,761
Percentage Above Lowest Cost Portfolio	3.5%	2.4%	7.0%	3.1%	12.6%	9.0%	8.6%	3.5%	0.0%	5.7%	4.3%
Index Ranking without SMR Cap (0-10 Scale)	2.78	1.89	5.51	2.47	10.00	7.16	6.80	2.81	0.00	4.49	3.41
Assessment without SMR Cap	Green	Green	Yellow	Green	Red	Red	Red	Green	Green	Yellow	Yellow
95th Percentile with SMR Cap (thousand \$2016)	528,741	523,005	546,323	526,736	561,020	541,288	539,754	528,887	510,798	524,572	532,761
Index Ranking with SMR Cap (0-10 Scale)	3.57	2.43	7.07	3.17	10.00	6.07	5.77	3.60	0.00	2.74	4.37
Assessment with SMR Cap	Yellow	Green	Red	Green	Red	Yellow	Yellow	Yellow	Green	Green	Yellow

95th Percentile 20-year NPV Cost Ranking

Index < 3.33

Index 3.34 – 6.67

Index > 6.67

LAC Renewable Generation Share Ranking in 2036

Mass-based Interstate & Intrastate Trading

Stochastic Portfolios	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
LAC RPS Level in 2036	94%	94%	94%	94%	95%	95%	95%	91%	94%	95%	30%
Assessment (Green: LAC in compliance; red: LAC out of compliance)	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red

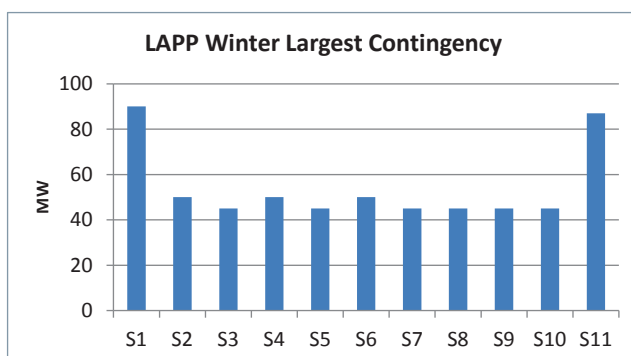
Stochastic Portfolios	
S1	CC, Solar with Storage
S2	CC, Solar with Storage
S3	RICE, Solar with Storage
S4	CC, RICE, Solar with Storage
S5	RICE, Solar with Storage, SMR
S6	CC, RICE, Solar with Storage, SMR
S7	CC, RICE, Solar with Storage, SMR
S8	RICE, Solar PV
S9	Solar with Storage
S10	Solar with Storage, SMR
S11	CC, Solar with Storage (LAC not in compliance)

Renewable Generation Share in 2036 Ranking

In Compliance with Interim Carbon Neutral Goal

Out of Compliance with Interim Carbon Neutral Goal

Transmission/Largest Contingency Risk Ranking



Stochastic Portfolios	
S1	CC, Solar with Storage
S2	CC, Solar with Storage
S3	RICE, Solar with Storage
S4	CC, RICE, Solar with Storage
S5	RICE, Solar with Storage, SMR
S6	CC, RICE, Solar with Storage, SMR
S7	CC, RICE, Solar with Storage, SMR
S8	RICE, Solar PV
S9	Solar with Storage
S10	Solar with Storage, SMR
S11	CC, Solar with Storage (LAC not in compliance)

- The largest contingency captures unit level generation risk and site level transmission risks in worst case scenarios.

Stochastic Portfolios	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
Largest Contingency	90	50	45	50	45	50	45	45	45	45	87
Percentage Above Best Portfolio	100%	11%	0%	11%	0%	11%	0%	0%	0%	0%	93%
Index Ranking (0-10 Scale)	10.00	1.11	0.00	1.11	0.00	1.11	0.00	0.00	0.00	0.00	9.33
Assessment (Green < 3.33; Yellow 3.34-6.67; Red > 6.67)	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red

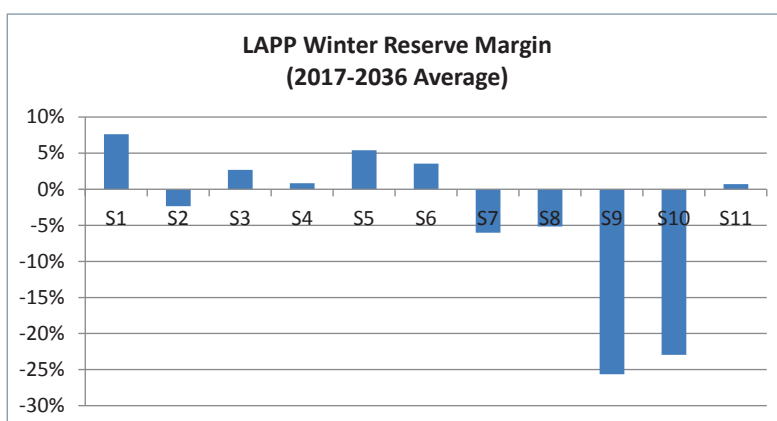
Transmission/ Largest Contingency Ranking

● Index < 3.33

● Index 3.34 – 6.67

● Index > 6.67

Control Risk - Average Reserve Margin Ranking



Stochastic Portfolios	
S1	CC, Solar with Storage
S2	CC, Solar with Storage
S3	RICE, Solar with Storage
S4	CC, RICE, Solar with Storage
S5	RICE, Solar with Storage, SMR
S6	CC, RICE, Solar with Storage, SMR
S7	CC, RICE, Solar with Storage, SMR
S8	RICE, Solar PV
S9	Solar with Storage
S10	Solar with Storage, SMR
S11	CC, Solar with Storage (LAC not in compliance)

Stochastic Portfolios	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
Winter Reserve Margin	8%	-2%	3%	1%	5%	4%	-6%	-5%	-26%	-23%	1%
Index Ranking (0-10 Scale)	0.00	3.00	1.48	2.04	0.66	1.22	4.10	3.84	10.00	9.18	2.07
Assessment (Green < 3.33; Yellow 3.34-6.67; Red > 6.67)	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Red	Red	Green

2017-2036 Average Reserve Margin Ranking

● Index < 3.33

● Index 3.34 – 6.67

● Index > 6.67

Development Risks Assessment

Portfolio	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
New Resources	Solar	Solar	Solar	Solar	Solar	Solar	Solar	Solar	Solar	Solar	Solar
	Storage	Storage	Storage	Storage	Storage	Storage	Storage		Storage	Storage	Storage
	CC	CC		CC		CC	CC				CC
			RICE	RICE	RICE	RICE	RICE	RICE			
Development Risk Assessment					SMR	SMR	SMR			SMR	

- Small Nuclear Reactor project adds development risk to the portfolio because of technology, regulatory, cost, financing and schedule uncertainties.
- Offsite large CC could potentially add development risk, but at a much moderate level in comparison to SMR.
- Portfolios S3, S8 and S9 utilizes new resources with proven technology to be built on site and therefore has the lowest development risk.

Stochastic Portfolios	
S1	CC, Solar with Storage
S2	CC, Solar with Storage
S3	RICE, Solar with Storage
S4	CC, RICE, Solar with Storage
S5	RICE, Solar with Storage, SMR
S6	CC, RICE, Solar with Storage, SMR
S7	CC, RICE, Solar with Storage, SMR
S8	RICE, Solar PV
S9	Solar with Storage
S10	Solar with Storage, SMR
S11	CC, Solar with Storage (LAC not in compliance)
























































Weather Dependent Risks Assessment

Stochastic Portfolios	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
New Resources	Solar	Solar	Solar	Solar	Solar	Solar	Solar	Solar	Solar	Solar	Solar
	Storage	Storage	Storage	Storage	Storage	Storage	Storage		Storage	Storage	Storage
	CC	CC		CC		CC	CC				CC
			RICE	RICE	RICE	RICE	RICE	RICE			
Portfolio Weather Dependent Assessment					SMR	SMR	SMR			SMR	

- Portfolio 9 adds solar with storage as new resources and is exposed to the market when there is continued cloudy or rainy days.
- All other portfolios have either fossil or nuclear generation in addition to solar and are less weather dependent.

















































Stochastic Portfolios	
S1	CC, Solar with Storage
S2	CC, Solar with Storage
S3	RICE, Solar with Storage
S4	CC, RICE, Solar with Storage
S5	RICE, Solar with Storage, SMR
S6	CC, RICE, Solar with Storage, SMR
S7	CC, RICE, Solar with Storage, SMR
S8	RICE, Solar PV
S9	Solar with Storage
S10	Solar with Storage, SMR
S11	CC, Solar with Storage (LAC not in compliance)

Operational Metrics Balanced Score Card Summary

	Criteria	Transmission/Largest Contingency Risk	Control	Development Risk	Weather Risk	Operational Metrics Summary
S1	CC, Solar with Storage					
S2	CC, Solar with Storage					
S3	RICE, Solar with Storage					
S4	CC, RICE, Solar with Storage					
S5	RICE, Solar with Storage, SMR					
S6	CC, RICE, Solar with Storage, SMR					
S7	CC, RICE, Solar with Storage, SMR					
S8	RICE, Solar PV					
S9	Solar with Storage					
S10	Solar with Storage, SMR					
S11	CC, Solar with Storage (LAC not in compliance)					

Score Rating:  Favorable  Neutral  Unfavorable

Balanced Score Card Summary

	Criteria	Cost	Risk	Environmental	Operational	Overall
S1	CC, Solar/ Storage					
S2	CC, Solar/ Storage					
S3	RICE, Solar/ Storage					
S4	CC, RICE, Solar/ Storage					
S5	RICE, Solar/ Storage, SMR					
S6	CC, RICE, Solar/ Storage, SMR					
S7	CC, RICE, Solar/ Storage, SMR					
S8	RICE, Solar PV					
S9	Solar/ Storage					
S10	Solar/ Storage, SMR		 			 
S11	CC, Solar / Storage (LAC not in compliance)					

Score Rating:  Favorable  Neutral  Unfavorable

Strategy	Risk	Mitigation	Pivot Strategy
S9: Solar/ Storage	Land/ Storage cost	Consider SMR or RICE	Portfolios S8 (Add RICE) or S10 (Add SMR)
S10: SMR	Contract/Price caps	Replace SMR with Solar/Storage	Portfolio S9 (Solar with storage)
S8: Rice	High Gas Prices	Replace Gas with Solar/Storage	Portfolio S9 (Solar with storage)
	Need more control of resources	Building CC to fulfill load	Portfolio S2
	Land/Gas Prices	Replace Solar/Gas with SMR	Portfolio S10
	SMR/Gas Prices	Replace SMR/Gas with Solar	Portfolio S9
	SMR mitigation works	Focus on SMR	Portfolio S10



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:	7.B
Index (Council Goals):	BCC - N/A
Presenters:	Bob Westervelt, Deputy Utilities Manager - Finance/Admin
Legislative File:	9559-17

Title

Preliminary Discussion on Non-potable Water Rate Ordinance

Recommended Action

N/A - Discussion item only

Staff Recommendation

N/A - Discussion item only

Body

The FY2018 budget includes an increase in non-potable rates from \$1.15 per 1,000 gallons delivered to \$2.50 per 1,000 gallons delivered. The attached ordinance is required to effect implementation of that budget.

Attachment B is a summary of the non-potable water budget for fiscal year 2018. As has been discussed previously, the non-potable function was previously simply absorbed by the water production sub fund. We now have accounting in place to track non-potable costs separately. As shown, on a purely cost based basis, the rate proposed still does not completely cover the anticipated costs for FY18. Explanation is as follows.

In fiscal year 2015 the Department began an aggressive program to refurbish and upgrade the non-potable system to maximize utilization of this important resource, as every gallon of surface or reuse water we utilize is a gallon we do not need to pump out of the aquifer. This fits with the Department's stated mission to operate in an environmentally sustainable fashion. These upgrades and system improvements continue through FY2018, but by year end we anticipate we will be able to budget continuing operations and maintenance at a level that can be sustained by the rate proposed. Thus, we are not proposing to increase the rate for "full cost recovery" of the FY18 budget, but rather to establish a rate that is anticipated to sustain the function for the next several years without adjustment.

There is also some value to the water production system in terms of reduced pumping at the well-head, reduced treatment and storage costs, and, as stated, reduced consumption from the aquifer. While these benefits are hard to quantify economically, leaving the non-potable as a sub fund and supplemented by water production makes sense.

Alternatives

If not approved, we will continue to bill for non-potable consumption at the current rate. Decisions would have to be made about curtailment of maintenance and operations of the non-potable system and/or continued or increased subsidization of the function by the

potable water production sub-fund.

Fiscal and Staff Impact

The budgeted increase is expected to generate \$116,640 additional revenue annually. There is no staff impact.

Attachments

A - Draft Rate Ordinance

B - Non-Potable system FY2018 Budget Summary

INCORPORATED COUNTY OF LOS ALAMOS CODE ORDINANCE NO. xx-xxx

**AN ORDINANCE AMENDING CHAPTER 40, ARTICLE III, SECTION 40-173 OF THE CODE
OF THE INCORPORATED COUNTY OF LOS ALAMOS
PERTAINING TO NONPOTABLE WATER RATES**

**BE IT ORDAINED BY THE GOVERNING BODY OF THE INCORPORATED COUNTY OF LOS
ALAMOS as follows:**

Section 1. Section 40-173 of the Code of the Incorporated County of Los Alamos is amended
to read as follows:

Sec. 40-173. - Nonpotable water rate charge.

The water consumption rate for nonpotable water, including effluent reuse water, shall be ~~\$1.15~~ \$2.50
per 1,000 gallons.

(Ord. No. 74-86, § 1, 1983; Ord. No. 85-26, § 1, 1985; Code 1985, § 13.16.030; Ord. No. 02-
113, § 1, 1-25-2011)

Attachment B - Non Potable system FY2018 Budget Summary

	Job #	Job Name	Object	Line Name	Actual 2016	Jul-Dec Actual 2017	Adopted Budget 2017	1st Year Budget 2018	Proposed Budget 2018
WP1813 TOTEXP	WP1813	Non-Pot. Trans. Lines Repair	TOTEXP	Total Expenditures/Expenses	17,867	24,136	-	-	-
WP1841 TOTEXP	WP1841	NP LA Reservoir Maint.	TOTEXP	Total Expenditures/Expenses	17,820	2,628	73,934	49,462	73,361
WP2101 TOTEXP	WP2101	WP NP SYS. ADMIN SUPERVISION	TOTEXP	Total Expenditures/Expenses	24,692	16,308	20,949	21,550	22,143
WP2107 TOTEXP	WP2107	WP NP SYS. ADMIN TOOLS & EQUIPMENT	TOTEXP	Total Expenditures/Expenses	5,226	-	3,000	3,000	3,000
WP2109 TOTEXP	WP2109	WP NP SYS. ADMIN GENERAL MAINT.	TOTEXP	Total Expenditures/Expenses	28,389	7,431	12,467	12,731	12,180
WP2111 TOTEXP	WP2111	WP NP SYS. ADMIN TRAINING	TOTEXP	Total Expenditures/Expenses	-	-	3,367	3,433	3,295
WP2112 TOTEXP	WP2112	WP NP SYS. ADMIN UNIFORMS	TOTEXP	Total Expenditures/Expenses	-	-	900	900	900
WP2161 TOTEXP	WP2161	WP NP SYS. ADMIN ENV. COMP/SWDA	TOTEXP	Total Expenditures/Expenses	-	-	8,240	8,319	8,154
WP2171 TOTEXP	WP2171	WP NP SYS. ADMIN SCADA MAINT.	TOTEXP	Total Expenditures/Expenses	-	-	24,734	24,866	24,590
WP2181 TOTEXP	WP2181	WP NP SYS. ADMIN CNTRL RM OPER.	TOTEXP	Total Expenditures/Expenses	102	2,988	3,787	3,893	3,672
WP2185 TOTEXP	WP2185	WP NP SYS. ADMIN METER MAINT.	TOTEXP	Total Expenditures/Expenses	16,141	38,726	254,550	6,649	6,443
WP2191 TOTEXP	WP2191	WP NP ADMIN BLDG. & GROUNDS MAINT.	TOTEXP	Total Expenditures/Expenses	489	3,078	9,100	9,298	8,885
WP2201 TOTEXP	WP2201	WP NP SYS. PUMPING POWER/ELEC	TOTEXP	Total Expenditures/Expenses	9,226	23,244	100,000	100,000	100,000
WP2413 TOTEXP	WP2413	WP EFFLUENT/IRRIGATION BAYO	TOTEXP	Total Expenditures/Expenses	26,813	-	-	-	-
WP2417 TOTEXP	WP2417	WP NON-POTABLE SKI HILL SYSTEM	TOTEXP	Total Expenditures/Expenses	2,573	-	-	-	-
WP3401 TOTEXP	WP3401	WP NP SYS. BSTR. PUMP CNTRLS MAINT.	TOTEXP	Total Expenditures/Expenses	-	-	8,734	8,866	8,590
WP3411 TOTEXP	WP3411	WP NP SYS. BSTR. PUMP MOTOR MAINT.	TOTEXP	Total Expenditures/Expenses	1,761	138	8,550	8,649	8,443
WP3421 TOTEXP	WP3421	WP NP SYS. BSTR. PUMP VALVE MAINT.	TOTEXP	Total Expenditures/Expenses	-	285	6,734	6,866	6,590
WP3431 TOTEXP	WP3431	WP NP SYS. BSTR. PUMP MAINT/REPAIR	TOTEXP	Total Expenditures/Expenses	9,363	1,923	8,787	8,893	8,672
WP3501 TOTEXP	WP3501	WP NP SYS. TREATMENT SYSTEMS MAINT.	TOTEXP	Total Expenditures/Expenses	1,206	13,332	15,967	16,231	15,680
WP3601 TOTEXP	WP3601	WP NP SYS. STORAGE TANKS MAINT.	TOTEXP	Total Expenditures/Expenses	12,052	17,953	5,287	5,393	5,172
WP3713 TOTEXP	WP3713	WP NP SYS. TRAN. LINE LEAK REPAIR	TOTEXP	Total Expenditures/Expenses	2,897	17,264	3,367	3,433	3,295
WP3721 TOTEXP	WP3721	WP NP SYS. TRAN. LINE VALVE MAINT.	TOTEXP	Total Expenditures/Expenses	-	895	1,947	1,974	1,918
WP3801 TOTEXP	WP3801	WP NP SYS. SKI HILL SYSTEM (ALL INCLUSIVE)	TOTEXP	Total Expenditures/Expenses	3,248	3,588	66,602	66,800	66,885
WP4211 TOTEXP	WP4211	WP NP SYS. MAIN LOCATES	TOTEXP	Total Expenditures/Expenses	-	1,930	1,183	1,216	1,148
Non-potable 1000-gallon production					179,863	175,847	642,187	372,422	393,018
Cost per 1000 gallons produced					45,718	16,782	66,584	66,584	86,400
					\$3.93	\$10.48	\$9.64	\$5.59	\$4.55



County of Los Alamos

Staff Report

June 21, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 8.A
Index (Council Goals): BCC - N/A
Presenters: Board of Public Utilities
Legislative File: 9595-17

Title

Status Reports

Body

Each month the Board receives in the agenda packet informational reports on various items. No presentation is given, but the Board may discuss any of the reports provided.

Attachments

- A - Electric Reliability Report
- B - Accounts Receivables Report
- C - Safety Report

STATUS REPORTS

ELECTRIC RELIABILITY

Los Alamos County Utilities



Electric Distribution Reliability

June 14,, 2017

Stephen Marez
Senior Engineer

Twelve Month History	MAY 2017	
Total # Accounts	9045	
Total # Interruptions	42	
Sum Customer Interruption Durations	5397:27:00	hours:min:sec
# Customers Interrupted	4407	
SAIFI(APPA AVG. = 1.0)	.49	int./cust.
SAIDI (APPA AVG. = 1:00)	:35	hours:min
CAIDI	1:13	hours:min/INT
ASAI	99.9997%	% available

- **SAIFI - System Average Interruption Frequency Index**

A measure of interruptions per customer (Per Year)

$$\text{SAIFI} = \frac{(\text{Total number of customer interruptions})}{(\text{Total number of customers served})}$$

- **SAIDI – System Average Interruption Duration Index**

A measure of outage time per customer if all customers were out at the same time (hours per year)

$$\text{SAIDI} = \frac{(\text{Sum of all customer outage durations})}{(\text{Total number of customers served})}$$

- **CAIDI – Customer Average Interruption Duration Index**

A measure of the average outage duration per customer (hours per interruption)

$$\text{CAIDI} = \frac{(\text{Sum of all customer outage durations})}{(\text{Total number of customers interruptions})} = \frac{\text{SAIDI}}{\text{SAIFI}}$$

- **ASAI – Average System Availability Index**

A measure of the average service availability (Per unit)

$$\text{ASAI} = \frac{(\text{Service hours available})}{(\text{Customer demand hours})} = \frac{8760 - \text{SAIDI}}{8760}$$

**Electric Distribution Reliability Study
Twelve Month Outage History**

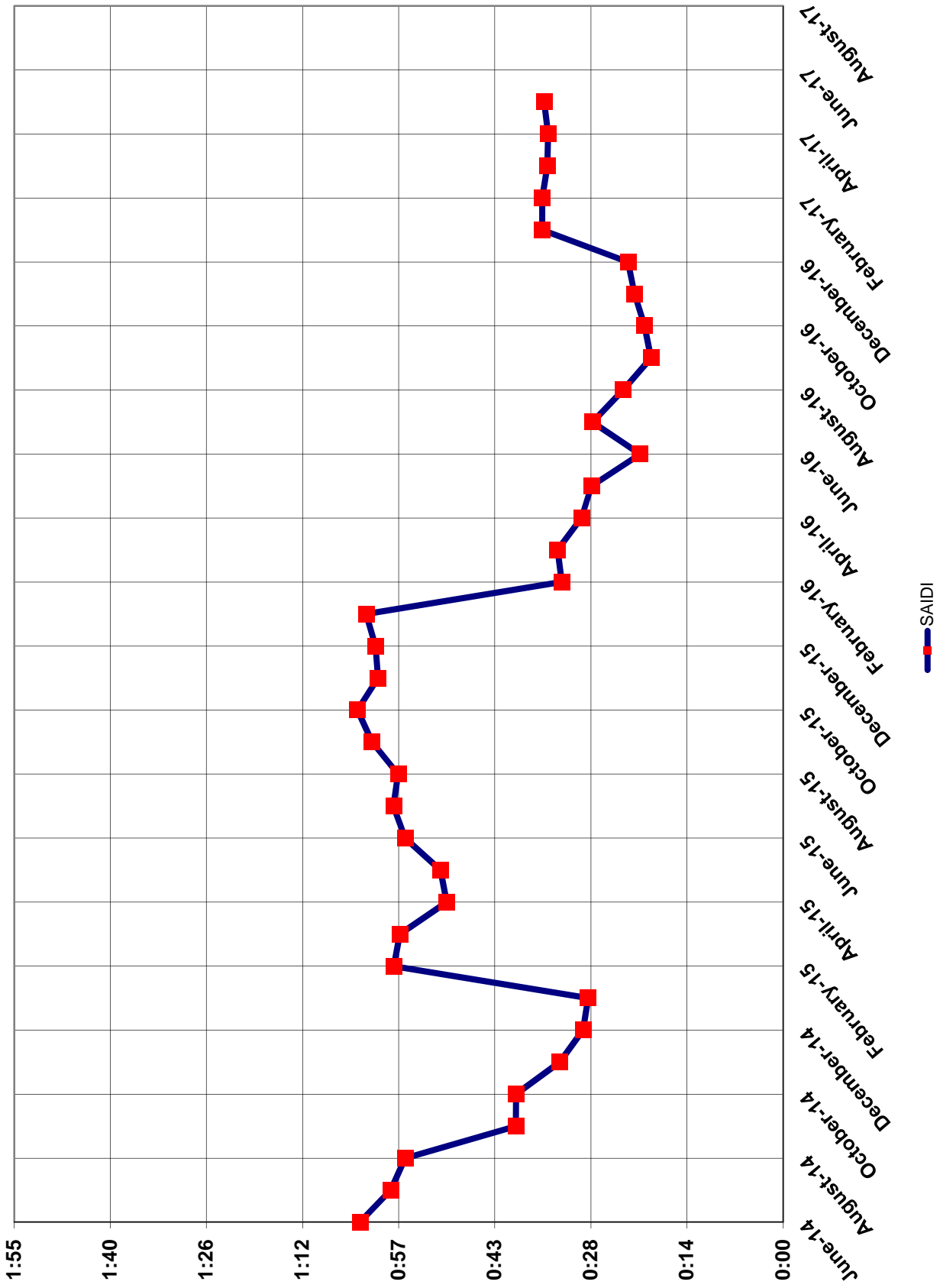
**Prepared by Stephen Marez
Senior Engineer L.A.C.U.**

<u>Date</u>	<u>Call Rcd.</u>	<u>Circuit</u>	<u>Cause</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration</u>	<u>Customers Affected (Meters)</u>	<u>Combined Customer Outage Durations</u>	<u>Total Outage H:M:S</u>	<u>Running SAIDI</u>
6/9/2016	Utilities	13	Planned	9:00	10:00	1:00	27	27:00:00	27:00:00	0:00:11
6/9/2016	Utilities	14	URD Failure	1:45	4:00	2:15	24	54:00:00	81:00:00	0:00:32
6/10/2016	Utilities	WR2	Planned	9:00	11:00	2:00	17	34:00:00	115:00:00	0:00:46
6/23/2016	Utilities	WR2	Weather	19:00	0:00	5:00	4	20:00:00	135:00:00	0:00:54
7/12/2016	Utilities	16	URD Failure	1:44	3:00	1:16	306	387:36:00	522:36:00	0:03:29
7/15/2016	Utilities	13	URD Failure	10:30	13:30	3:00	88	264:00:00	786:36:00	0:05:14
7/15/2016	Dispatch	WR1	URD Failure	21:40	0:00	2:20	21	49:00:00	835:36:00	0:05:34
7/16/2016	Utilities	14	Animal	12:00	13:22	1:22	537	733:54:00	1569:30:00	0:10:27
7/19/2016	Utilities	18	Planned	0:00	5:00	5:00	4	20:00:00	1589:30:00	0:10:35
7/19/2016	Utilities	EA4	HUMAN	16:30	22:30	6:00	3	18:00:00	1607:30:00	0:10:42
7/20/2016	Utilities	13	Unknown	20:00	20:45	0:45	20	15:00:00	1622:30:00	0:10:48
7/27/2016	Utilities	14	URD Failure	8:17	9:30	1:13	120	146:00:00	1768:30:00	0:11:47
7/28/2016	Dispatch	WR1	URD Failure	2:30	5:30	3:00	12	36:00:00	1804:30:00	0:11:58
8/3/2016	Utilities	13	Planned	9:00	10:15	1:15	13	16:15:00	1820:45:00	0:12:05
8/10/2016	Utilities	17	URD Failure	3:10	3:30	0:20	209	69:40:00	1890:25:00	0:12:32
8/10/2016	Utilities	WR1	Planned	9:00	10:20	1:20	8	10:40:00	1901:05:00	0:12:37
8/11/2016	Utilities	WR1	Planned	9:00	11:00	2:00	6	12:00:00	1913:05:00	0:12:41
8/16/2016	Utilities	WR1	URD Failure	12:30	13:00	0:30	80	40:00:00	1953:05:00	0:12:57
9/23/2016	Utilities	18	Planned	9:00	10:25	1:25	3	4:15:00	1957:20:00	0:12:59
10/3/2016	Utilities	WR2	HUMAN	11:00	12:05	1:05	16	17:20:00	1974:40:00	0:13:06
10/22/2016	Utilities	14	HUMAN	10:53	11:52	0:59	539	530:01:00	2504:41:00	0:16:37
10/28/2016	Utilities	WR1	URD Failure	21:20	22:30	1:10	15	17:30:00	2522:11:00	0:16:44
11/2/2016	Utilities	14	URD Failure	17:47	18:40	0:53	129	113:57:00	2636:08:00	0:17:29
11/10/2016	Utilities	17	URD Failure	8:15	12:30	4:15	6	25:30:00	2661:38:00	0:17:39
11/15/2016	Utilities	14	Planned	8:30	9:30	1:00	54	54:00:00	2715:38:00	0:18:01
11/28/2016	Utilities	15	Unknown	6:00	6:45	0:45	25	18:45:00	2734:23:00	0:18:08
11/28/2016	Utilities	15	Unknown	6:00	8:05	2:05	25	52:05:00	2786:28:00	0:18:29
11/28/2016	Utilities	14	URD Failure	10:15	14:15	4:00	6	24:00:00	2810:28:00	0:18:39
12/16/2016	Utilities	13	Tree	9:17	13:00	3:43	13	48:19:00	2858:47:00	0:18:58
12/17/2016	Utilities	13	OH Failure	9:17	10:30	1:17:00	10	170:00:00	3028:47:00	0:20:05
1/1/2017	Utilities	15	Animal	13:00	13:45	0:45	25	18:45:00	3047:32:00	0:20:13
1/16/2017	Utilities	13	Weather	20:15	23:59	3:44	5	18:40:00	3066:12:00	0:20:20
1/29/2017	Utilities	15	Animal	2:20	3:00	0:40	1145	763:20:00	3829:32:00	0:25:24
1/29/2017	Utilities	15	Animal	2:20	3:15	0:55	131	120:05:00	3949:37:00	0:26:12
1/29/2017	Utilities	15	Animal	2:20	3:40	1:20	72	96:00:00	4045:37:00	0:26:50
1/29/2017	Utilities	15	Animal	2:20	4:30	2:10	527	1141:50:00	5187:27:00	0:34:25
3/6/2017	Utilities	WR1	OH Failure	8:00	9:30	1:30	5	7:30:00	5194:57:00	0:34:28
4/27/2017	Utilities	16	URD Failure	9:00	10:00	1:00	70	70:00:00	5264:57:00	0:34:56
4/29/2017	Utilities	16	URD Failure	0:00	5:00	5:00	7	35:00:00	5299:57:00	0:35:09
5/6/2017	Utilities	WR1	Animal	9:35	10:30	0:55	30	27:30:00	5327:27:00	0:35:20
5/15/2017	Utilities	16	URD Failure	12:15	13:15	1:00	40	40:00:00	5367:27:00	0:35:36
5/6/2017	Utilities	WR1	Planned	9:00	12:00	3:00	10	30:00:00	5397:27:00	0:35:48

CIRCUIT SAIDI IS CALCULATED ACCORDING TO THE NUMBER OF CUSTOMERS IN EACH CIRCUIT RESPECTIVELY

<u>Running SAIDI Circuit 13</u>	<u>Running SAIDI Circuit 14</u>	<u>Running SAIDI Circuit 15</u>	<u>Running SAIDI Circuit 16</u>	<u>Running SAIDI Circuit 17</u>	<u>Running SAIDI Circuit 18</u>	<u>SAIDI Circuit EA4 & Royal Crest</u>	<u>Running SAIDI Circuit WR1</u>	<u>Running SAIDI Circuit WR2</u>	<u>Monthly SAIDI</u>	<u>Monthly Customer Minutes out of service</u>	<u>WEATHER SAIDI</u>
0:00:58	0:06:01										
							0:07:10 0:15:35		JULY	0:00:54	135:00:00
			0:12:39								0:00:08
0:10:25							0:01:51				
	1:27:42				0:05:38	0:08:18					
0:10:58											
	1:43:58						0:03:12		AUGUST	0:11:04	1017:54:00
0:11:33				0:20:00			0:03:37 0:04:04 0:05:35				
					0:06:50			2:03:02	SEPTEMBER OCTOBER	0:00:59 0:00:02	148:35:00 4:15:00
	2:42:58						0:00:40		NOVEMBER	0:03:45	564:51:00
	2:55:39			0:27:19							
	3:01:39										
		0:00:36 0:02:16									
	3:04:20								DECEMBER	0:01:55	288:17:00
0:13:18 0:19:28									JANUARY	0:01:27	218:19:00
0:00:41		0:00:36									0:00:07
		0:24:29 0:28:20 0:31:25 1:08:02									
			0:02:17 0:03:25				0:00:17		FEBRUARY MARCH	0:14:19 0:00:03	2158:40:00 7:30:00
							0:01:02		APRIL	0:00:42	105:00:00
			0:01:18				0:02:11		MAY	0:00:39	70:00:00
										SAIDI TOTAL	
Circ 13 1655	Circ 14 539	Circ 15 1875	Circ 16 1842	Circ 17 209	Circ 18 213	Circ EA4 165	Circ WR1 1586	Circ WR2 961	Total 9045	0:35:48	WEATHER 0:00:15

EACH POINT IS A 12 MONTH SAIDI HISTORY
1:00:00 = APPA BENCHMARK SAIDI



STATUS REPORTS

ACCOUNTS RECEIVABLES

Los Alamos County Utilities Department
Active Receivables Over 90 Days Past Due
June 1, 2017

<i>Account</i>	<i>Acct Type</i>	<i>Comments</i>	<i>90 - 119</i>	<i>120 +</i>
2021703	COMM	Door Tag - Turn off scheduled for 6/14	146.23	-
2115448	RES	Payment arrangement	182.70	-
2119448	RES	Paid in full 6/9	331.00	-
2125578	RES	Contacting company - miscommunication of amount due	-	187.30
2053328	COMM	Payment arrangement	2,361.16	2,996.12
			3,021.09	3,183.42
			TOTAL \$	6,204.51

Los Alamos County Utilities Department
Receivables More than 60 Days Inactive
June 1, 2017

<i>YEAR</i>	<i>OUTSTANDING 6/1</i>	<i># OF ACCOUNTS</i>	<i>OUTSTANDING 5/1</i>	<i># OF ACCOUNTS</i>
FY13	16,690.45	72	16,726.55	73
FY14	28,123.70	96	29,107.86	96
FY15	28,320.74	101	28,417.46	103
FY16	21,987.44	132	22,125.95	133
FY17	33,005.46	136	31,714.81	124
TOTAL	\$ 128,127.79	537	\$ 128,092.63	529

STATUS REPORTS

SAFETY

DOI	REPT DT	TYPE	DESC
		PD	Property Damage
		BI	Bodily Injury
		PI	Personal Injury
05/29/17	05/30/17	PD	Sewer backup; clog in main

DOI	REPTD	EE#	DESC	DEPT
05/05/17	05/08/17	8406	Kickback choppersaw; cut L. bicep	GWS

	Hours Worked						Hours Worked					
	ADMIN	EL DIST	EL PROD	GWS	WA PROD	WWTP	ADMIN	EL DIST	EL PROD	GWS	WA PROD	WWTP
MONTH												
Jan - 2017	2612.0	1286.0	1602.0	2857.0	1066.0	987.0						
Feb - 2017	3592.0	1462.0	3135.0	3912.0	1301.0	1055.0						
Mar - 2017	5675.0	1989.0	4450.0	5833.0	1711.0	3525.0						
Apr - 2017	3700.0	1411.0	1879.0	4633.0	1243.0	1047.0						
May - 2017	3446.0	1201.0	2906.0	4010.0	4227.0	1277.0						
June - 2016	4122.0	1462.3	1606.1	3773.0	1422.5	1376.3						
July - 2016	4122.0	1462.3	1606.1	3773.0	1422.5	1376.3						
Aug - 2016	3599.0	1567.0	718.0	3730.0	987.0	1210.0						
Sept - 2016	5389.0	2064.0	2472.0	5772.0	1722.0	1775.0						
Oct - 2016	3724.0	1298.0	1604.0	3749.0	956.0	1348.0						
Nov - 2016	3753.0	1329.0	1443.0	3574.0	1165.0	1248.0						
Dec - 2016	3022.0	1435.0	1502.0	3390.0	1203.0	1081.0						
Total Hrs Worked ->	46756.0	17966.6	24923.2	49006.0	18426.0	17305.6						
Number of Recordable Injury and Illness Cases	0	0	0	3	0	0						
OSHA Recordable Injury & Illness Incidence Rate	0.00	0.00	0.00	12.24	0.00	0.00						
Number of OSHA Days Away Days Restricted (DART) cases	0	0	0	1	0	0						
OSHA Days Away Days Restricted (DART) Rate	0.00	0.00	0.00	4.08	0.00	0.00						