



# 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*

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Wednesday, April 19, 2017

5:30 PM

1000 Central Avenue  
Council Chambers

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### 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](mailto: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 [8987-17](#)** Briefing from County Manager on the County Strategic Objectives

**Presenters:** Harry Burgess, County Manager

*PG. 1 - 7*

**4.H. Approval of Board Expenses****4.I. Preview of Upcoming Agenda Items****4.I.1 [9349-17](#)** Tickler File for the Next 3 Months

**Presenters:** Board of Public Utilities

*PG. 8 - 11*

**5. PUBLIC HEARING(S)**

*There are no public hearings scheduled for this meeting.*

**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 [9338-17](#)** Approval of Board of Public Utilities Meeting Minutes

**Presenters:** Board of Public Utilities

*PG. 12 - 23*

- 6.B [AGR0497-17](#) Approval of Agreement No. AGR17-30 with Wilson and Company, Inc. in the amount of \$2,583,694.00 for the Purpose of Otowi No. 2 Water Supply Well Design, Drilling and Development.

**Presenters:** James Alarid, Deputy Utilities Manager - Engineering

PG. 24 - 43

7. **BUSINESS**

- 7.A [9267-17](#) Presentation of Electric Production Budgeting Process

**Presenters:** Steve Cummins, Deputy Utilities Manager - Power Supply

PG. 44 - 56

- 7.B [9287-17](#) Options for the Long-Range Water Supply Plan

**Presenters:** James Alarid, Deputy Utilities Manager - Engineering

PG. 57 - 58

- 7.C [9184-17](#) Options for the White Rock Wastewater Treatment Plant

**Presenters:** Tim Glasco, Utilities Manager

PG. 59 - 62

8. **STATUS REPORTS**

- 8.A [9339-17](#) Status Reports

**Presenters:** Board of Public Utilities

PG. 63 - 74

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

April 19, 2017

Los Alamos, NM 87544  
www.losalamosnm.us

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**Agenda No.:** 4.G.1  
**Index (Council Goals):** BCC - N/A  
**Presenters:** Harry Burgess, County Manager  
**Legislative File:** 8987-17

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### **Title**

Briefing from County Manager on the County Strategic Objectives

### **Recommended Action**

None

### **Staff Recommendation**

None

### **Body**

During the 2015 Board of Public Utilities Self-evaluation, the Board suggested that the County Manager present the County's goals and objectives to the Board and discuss overlap with the Department of Public Utilities. In December 2015, this was added to the Board's Policies and Procedures manual under the County Manager's responsibilities.

### **Alternatives**

None

### **Fiscal and Staff Impact**

None

### **Attachments**

A - 2017 Los Alamos County Strategic Leadership Plan



# LOS ALAMOS

## **Los Alamos County Strategic Leadership Plan 2017 Update**

What will the Los Alamos community look like in 20 years? Will our unique combination of science and setting continue? Will we have preserved our small town atmosphere and natural surroundings? Will there be plenty of affordable neighborhoods and an excellent educational system?

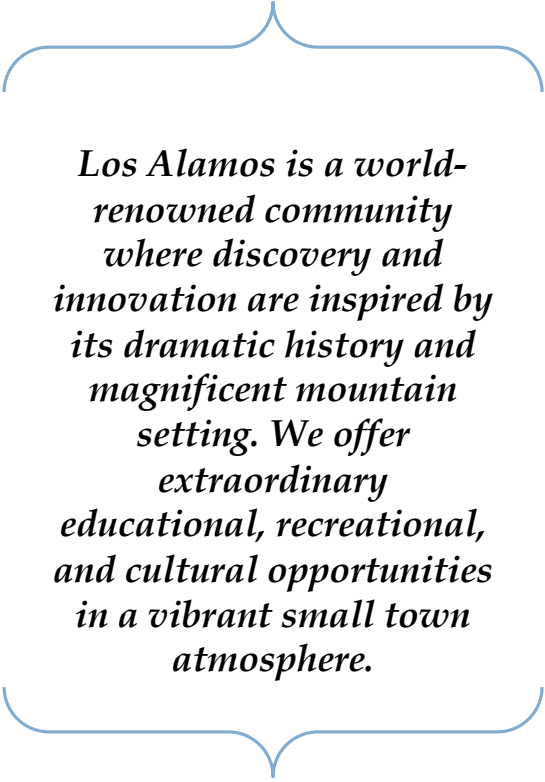
To accomplish these priorities and more, Los Alamos will need a strong leadership vision that serves as a basis for policy formulation and goal-setting. A flexible road-map is required, which will provide direction not only to the County enterprise but the community as well. The strategic focus areas or issues that will shape the County's future must be addressed with dynamic leadership commitment.

For these reasons the Los Alamos County Council developed a 20-year Strategic Leadership Plan to help guide the community into the future. The Plan includes a shared vision for what the community can become. In support of the vision, strategic focus areas were identified along with actionable goals to help measure success.

The Los Alamos community has volunteered countless hours of service to assisting the Council with its visioning and goal setting. The Strategic Leadership Plan incorporates the past work of community volunteers where at all possible. The plan builds upon the foundational work developed by the Los Alamos community and adopted by the County Council.

*A Vision for the future...*

## Imagine Los Alamos County in 20 years...



*Los Alamos is a world-renowned community where discovery and innovation are inspired by its dramatic history and magnificent mountain setting. We offer extraordinary educational, recreational, and cultural opportunities in a vibrant small town atmosphere.*

# Strategic Focus Areas

## Economic Vitality

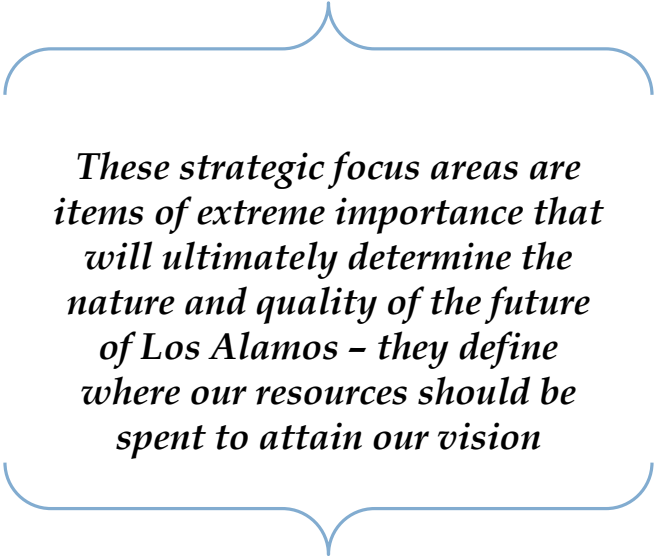
- Economic Vitality
- Financial sustainability

## Quality of Life

- Education
- Quality cultural and recreational amenities
- Environmental stewardship
- Mobility
- Housing

## Quality Governance

- Operational excellence
- Communication
- Intergovernmental Relations



*These strategic focus areas are items of extreme importance that will ultimately determine the nature and quality of the future of Los Alamos – they define where our resources should be spent to attain our vision*

# How do we get there from here?

**In the next five years the County will address these twenty-six major goals (focus areas with corresponding goals):**

## **Economic Vitality**

### Economic Vitality

#### **Priority Area – Economic Vitality**

- Build the local tourism economy.
- Revitalize and eliminate blight in Los Alamos and White Rock.
- Promote a strong and diverse economic base by encouraging new business growth.
- Collaborate with Los Alamos National Laboratory as the area's #1 employer.

### Financial Sustainability

- Encourage the retention of existing businesses and assist in their opportunities for growth.
- Support spinoff business opportunities from LANL.
- Significantly improve the quantity and quality of retail business.

## Quality of Life

### **Priority Areas – Housing**

- Promote the creation of a variety of housing options for all segments of the Los Alamos Community, including infill opportunities as appropriate.
- Support development of affordable workforce housing

### Education

- Support Los Alamos Public Schools' goal of ranking among the top public schools in the nation.
- Partner with Los Alamos Public Schools and the University of New Mexico – Los Alamos; and support, as appropriate, the delivery of their educational services to community standards.

### Quality Cultural and Recreational Amenities

- Implement a comprehensive range of recreational and cultural amenities that enhance the Los Alamos community.

### Environmental Stewardship

- Enhance environmental quality and sustainability balancing costs and benefits including County services and utilities.

### Mobility

- Maintain and improve transportation and mobility.

## Quality Governance

### Priority Areas - Operational Excellence

- Implement the Comprehensive Plan with an emphasis on neighborhoods and zoning.
- Simplify permit requirements and improve the overall development and building code processes to become easier to work with for all participants.

### Operational Excellence

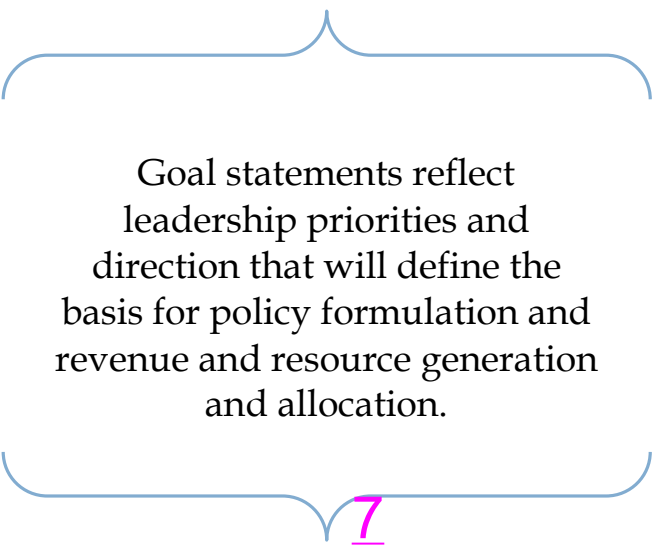
- Maintain quality essential services and supporting infrastructure.
- Invest in staff development to create a high performing organization.
- Manage commercial growth well following an updated, concise, and consistent comprehensive plan.
- Establish and implement a mechanism for effective Utility policy setting and review.

### Communication

- Improve transparency in policy setting and implementation.
- Create a communication process that provides measureable improvement in citizen trust in government.

### Intergovernmental Relations

- Strengthen coordination and cooperation between County government, LANL, and regional and national partners.
- Actively pursue land transfer opportunities.



Goal statements reflect leadership priorities and direction that will define the basis for policy formulation and revenue and resource generation and allocation.



# County of Los Alamos

## Staff Report

April 19, 2017

Los Alamos, NM 87544  
www.losalamosnm.us

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**Agenda No.:** 4.I.1  
**Index (Council Goals):** BCC - N/A  
**Presenters:** Board of Public Utilities  
**Legislative File:** 9349-17

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### **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: 5/1/2017, Agenda End Date: 7/31/2017, Matter Bodies: Board of Public Utiliti**

File Number	Title
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**Agenda Date: 05/17/2017**

<b>9200-17</b>	<b>Budget Item</b> Approval of Year-end Budget Adjustments <b>Department Name:</b> DPU <b>Drop Dead Date:</b>	<b>06Consent</b>  <b>Length of Presentation:</b> NA <b>Sponsors:</b> Bob Westervelt, Deputy Utilities Manager - Finance/Admin
<b>8703-16</b>	<b>Briefing/Report (Dept,BCC) - Action Requested</b> FER Implementation (TENTATIVE) - Approval of Power Sales Agreement for the Carbon Free Power Project (CFPP) & Phase II Budget <b>Department Name:</b> DPU <b>Drop Dead Date:</b>	<b>07Business</b>  <b>Length of Presentation:</b> Apx. 30 Min. <b>Sponsors:</b> Steve Cummins, Deputy Utilities Manager - Power Supply
<b>9060-17</b>	<b>Briefing/Report (Dept,BCC) - Action Requested</b> Approval of Western Area Power Administration (WAPA) Rocky Mountain Region (RMR) Services Agreement <b>Department Name:</b> DPU <b>Drop Dead Date:</b>	<b>07Business</b>  <b>Length of Presentation:</b> Apx. 20 Min. <b>Sponsors:</b> Steve Cummins, Deputy Utilities Manager - Power Supply
<b>9197-17</b>	<b>Briefing/Report (Dept, BCC) - No action requested</b> Preliminary Discussion on Sewer Rate Ordinance <b>Department Name:</b> DPU <b>Drop Dead Date:</b>	<b>07Business</b>  <b>Length of Presentation:</b> Apx. 30 Min. <b>Sponsors:</b> Bob Westervelt, Deputy Utilities Manager - Finance/Admin
<b>9198-17</b>	<b>Briefing/Report (Dept, BCC) - No action requested</b> Preliminary Discussion on Water Rate Ordinance <b>Department Name:</b> DPU <b>Drop Dead Date:</b>	<b>07Business</b>  <b>Length of Presentation:</b> Apx. 30 Min. <b>Sponsors:</b> Bob Westervelt, Deputy Utilities Manager - Finance/Admin

**Agenda Date: 06/21/2017**

<b>CO0487-17</b>	<b>Code Ordinance</b> Approval of Incorporated County of Los Alamos Code Ordinance No. ____ - ____ Sewer Rates <b>Department Name:</b> DPU	<b>05Public Hearings</b>  <b>Length of Presentation:</b> Apx. 30 Min.
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File Number	Title	
	Drop Dead Date:	Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
CO0488-17	Code Ordinance	05Public Hearings
	Approval of Incorporated County of Los Alamos Code Ordinance No. ____ - ____ Water Rates	
	Department Name: DPU	Length of Presentation: Apx. 30 Min.
	Drop Dead Date:	Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
9094-17	Briefing/Report (Dept, BCC) - No action requested	07Business
	FER Implementation - Presentation and Discussion of the Draft Integrated Resource Plan	
	Department Name: DPU	Length of Presentation: Apx. 30 Min.
	Drop Dead Date:	Sponsors: Steve Cummins, Deputy Utilities Manager - Power Supply
8708-16	Briefing/Report (Dept, BCC) - No action requested	07Business
	FER Implementation (TENTATIVE) - Discussion on SJGS Indicative Pricing for Post 2022 Fuel Supply Contract	
	Department Name: DPU	Length of Presentation: Apx. 30 Min.
	Drop Dead Date:	Sponsors: Steve Cummins, Deputy Utilities Manager - Power Supply
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
Agenda Date: 07/19/2017		
9350-17	Election	04GGeneral Board Business
	Election of Board of Public Utilities Vice-chair for the Remainder of 2017	
	Department Name: DPU	Length of Presentation: Apx. 5 Min.
	Drop Dead Date:	Sponsors: Board of Public Utilities
9351-17	Briefing/Report (Dept,BCC) - Action Requested	04GGeneral Board Business
	Annual Affirmation of the Board of Public Utilities Policies and Procedures Manual	
	Department Name: DPU	Length of Presentation: Apx. 5 Min.
	Drop Dead Date:	Sponsors: Jeff Johnson, Chair of the Board of Public Utilities
9352-17	Briefing/Report (Dept, BCC) - No action requested	04GGeneral Board Business
	Planning for Upcoming Board of Public Utilities Annual Boards & Commissions Presentation to Council on September 19th, 2017	
	Department Name: DPU	Length of Presentation: Apx. 5 Min.
	Drop Dead Date:	Sponsors: Jeff Johnson, Chair of the Board of Public Utilities

File Number	Title	
9353-17	<b>Briefing/Report (Dept,BCC) - Action Requested</b> Annual Review and Revision of Board of Public Utilities Policies and Procedures Manual <b>Department Name:</b> DPU <b>Drop Dead Date:</b>	<b>04GGeneral Board Business</b>  <b>Length of Presentation:</b> UNKNOWN <b>Sponsors:</b> Jeff Johnson, Chair of the Board of Public Utilities
9201-17	<b>Briefing/Report (Dept,BCC) - Action Requested</b> FER Implementation (TENTATIVE) - Approval of the Integrated Resource Plan <b>Department Name:</b> DPU <b>Drop Dead Date:</b>	<b>07Business</b>  <b>Length of Presentation:</b> Apx. 60 Min. <b>Sponsors:</b> Steve Cummins, Deputy Utilities Manager - Electric Production



# County of Los Alamos

## Staff Report

April 19, 2017

Los Alamos, NM 87544  
www.losalamosnm.us

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**Agenda No.:** 6.A  
**Index (Council Goals):**  
**Presenters:** Board of Public Utilities  
**Legislative File:** 9338-17

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### **Title**

Approval of Board of Public Utilities Meeting Minutes

### **Recommended Action**

**I move that the Board of Public Utilities approve the meeting minutes of March 7th, 2017 and March 15th, 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. No changes were requested.

### **Attachments**

- A - Draft BPU Special Session Minutes - March 7th, 2017
- B - Draft BPU Regular Session Minutes - March 15th, 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*

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Tuesday, March 7, 2017

11:30 AM

1000 Central Avenue  
Council Chambers

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**SPECIAL SESSION**

**1. CALL TO ORDER**

A special meeting of the Incorporated County of Los Alamos Board of Public Utilities was held on Tuesday, March 7th 2017 at 11:30 a.m. at 1000 Central Ave., Council Chambers. Board Chair, Jeff Johnson, was not present. In his absence, Board Vice-chair, Mr. Steve McLin, called the meeting to order at 11:35 a.m.

**Present** 4 - **Board Member McLin, Board Member Fraser, Board Member Frederickson and Board Member Taylor**

**Absent** 1 - **Board Member Johnson**

**2. PUBLIC COMMENT**

Mr. McLin opened the floor for public comment on items not otherwise included on the agenda. There were no comments.

**3. APPROVAL OF AGENDA**

\*\*\*\*\*

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

\*\*\*\*\*

**Yes:** 4 - **Board Member McLin, Board Member Fraser, Board Member Frederickson and Board Member Taylor**

**Absent:** 1 - **Board Member Johnson**

**4. BUSINESS**

**4.A 9158-17**

Approval of Service Agreement AGR17-938 with Voith Hydro, Inc. for Field Services and Approval of Purchase of Mechanical Components from Voith Hydro, Inc, both for the Repair of the El Vado Hydroelectric Plant Shaft Seal

**Presenters:** James Alarid

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

In May 2016, during the final commissioning of the refurbished El Vado turbine and generator, the turbine shaft seal experienced excessive leakage. Commissioning was terminated as the leakage overwhelmed the unit's head cover pumps leading to the unit's shutdown due to head cover flooding. Since that time, the contractor and the County have been in dispute as to which party is responsible for the repair of the shaft seal. The contractual dispute resolution process was initiated, and all parties have been in settlement discussions since January 2017. Council direction during County appeal hearings was to have the parties attempt to resolve the dispute, considering their determination that the contract is a performance contract, and complete the contract. The solution proposed by the contractor would have been an inferior application from the manufacturer's design. The County chose to consult with the manufacturer of the turbine, Voith Hydro, Inc., on a solution to repair the leaking seal. Voith Hydro, Inc. reaffirmed that the manufacturer's original seal design should not be changed. At the request of the County, Voith has evaluated the seal and provided a recommendation to complete the seal replacement. The service agreement with Voith Hydro, Inc. will allow the County to hire Voith Hydro, Inc. to provide the field supervision only during the seal repair, complete the seal repair in its entirety and have an agreement in place should the County require additional services from Voith Hydro Inc.

The Board discussed this item and requested clarification where necessary.

\*\*\*\*\*

**Ms. Taylor moved that the Board of Public Utilities approve Service Agreement AGR17-938 with Voith Hydro, Inc. for Field Services in the amount of \$120,000.00, plus applicable gross receipts tax, in a form acceptable to the County Attorney. She further moved that the Board of Public Utilities authorize the Utility Manager to approve Proposal MB2-437 from Voith Hydro, Inc. for purchase of Mechanical Components for Repair of the El Vado Hydroelectric Plant Shaft Seal in the amount of \$52,117.00, plus applicable gross receipts tax. The motion passed by the following vote:**

\*\*\*\*\*

**Yes: 4 - Board Member McLin, Board Member Fraser, Board Member Frederickson and Board Member Taylor**

**Absent: 1 - Board Member Johnson**

## **5. PUBLIC COMMENT**

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

## **6. CLOSED SESSION**

### **6.A 9157-17**

CLOSED SESSION - Pursuant to §10-15-1 (H)(8) of the New Mexico Open Meetings Act, NMSA 1978, the Board of Public Utilities will meet in closed session for the discussion of the purchase, acquisition or disposal of real property or water rights - Water Rights Discussion

**Presenters:** Board of Public Utilities

\*\*\*\*\*  
Mr. Fraser moved that the Board of Public Utilities convene in closed session as authorized by §10-15-1 (H)(8) of the New Mexico Open Meetings Act, NMSA 1978, to discuss water rights. The motion passed by the following vote:  
\*\*\*\*\*

Yes: 4 - Board Member McLin, Board Member Fraser, Board Member Frederickson and Board Member Taylor  
  
Absent: 1 - Board Member Johnson  
  
The Board convened in closed session at 12:03 p.m. The Board reconvened in open session at 1:10 p.m. Mr. McLin reported that the matters discussed were limited to those specified in the motion for closure.

7. ADJOURNMENT

The meeting adjourned at 1:12 p.m.  
  
\*\*\*\*\*  
APPROVAL

\_\_\_\_\_  
Board of Public Utilities Chair Name  
  
\_\_\_\_\_  
Board of Public Utilities Chair Signature  
  
\_\_\_\_\_  
Date Approved by the Board



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*

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Wednesday, March 15, 2017

5:30 PM

1000 Central Avenue  
Council Chambers

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**REGULAR SESSION**

**1. CALL TO ORDER**

The regular meeting of the Incorporated County of Los Alamos Board of Public Utilities was held on Wednesday, March 15th, 2017 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 5 - Board Member Johnson, Board Member McLin, Board Member Fraser, Board Member Frederickson and Board Member Taylor**

Ms. Taylor joined the meeting at 5:35 p.m.

**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**

The agenda was not formally approved through a motion, but no changes were requested. The consent agenda was approved during this item. See item 6. for the motion.

**4. BOARD BUSINESS**

**4.A. Chair's Report**

Mr. Johnson reported on the following items:

1) Mr. Johnson reminded Mr. Fraser that he was scheduled to attend the Boards and Commissions luncheon the following day.

**4.B. Board Member Reports**

There were no reports.

**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 had nothing to report.

**4.E. Council Liaison's Report**

Ms. O'Leary reported on the following items:

1) Council budget hearings are coming up at the end of April.

2) At the Council meeting the previous evening, they received a good presentation from the Community Development Director and his new Chief Building Inspector. They talked about all the work they are doing to improve the permitting process at the County. Council had set a strategic goal for this year to improve the permitting process to make it easier for people to do business with the County. One of the things mentioned was that there are now weekly meetings with a number of departments at the County to review permits. The Utilities Department is obviously a very important member of those discussions. She wanted to let the Board know how important it is and how good it is that the Utilities Department is participating in these discussions on a weekly basis.

**4.F. Environmental Sustainability Board Liaison's Report**

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

**4.G. General Board Business**

There was no general Board business.

**4.H. Approval of Board Expenses**

There were no expenses.

**4.I. Preview of Upcoming Agenda Items**

**4.I.1 [9202-17](#) 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**

The Consent Agenda was approved during item 3. Approval of the Agenda.

\*\*\*\*\*

**Mr. McLin moved 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. The motion passed by the following vote:**

\*\*\*\*\*

**Yes: 4 - Board Member Johnson, Board Member McLin, Board Member Fraser and Board Member Frederickson**

**Absent: 1 - Board Member Taylor**

6.A     [9192-17](#)     Approval of Board of Public Utilities Meeting Minutes

**Presenters:**     Department of Public Utilities

I move that the Board of Public Utilities approve the meeting minutes of February 15th, 2017 as presented.

6.B     [9089-17](#)     Approval of Department of Energy (DOE) - Los Alamos County (LAC) Resource Pool Budget Revision for Fiscal Year 2017

**Presenters:**     Bob Westervelt

I move that the Board of Public Utilities approve the 2017 Resource Pool budget revision as presented and forward to the County Council for its approval.

6.C     [9128-17](#)     Approval of the Transfer of Profit from Electric and Gas Funds to the General Fund for Operations During Fiscal Year 2016

**Presenters:**     Bob Westervelt

I move that the Board of Public Utilities approve the transfer of revenues from the electric and gas funds to the general fund for electric and gas operations during fiscal year 2016 in accordance with Incorporated County of Los Alamos Resolution 97-07 and forward to the County Council for their approval.

6.D     [9152-17](#)     Approval of Task Order No. 9 Under Services Agreement No. AGR15-4217 with GM Emulsion in the amount of \$91,339.00, plus Applicable Gross Receipts Tax, for Site Preparation for the Los Alamos Switchgear Substation Installation

**Presenters:**     Department of Public Utilities

I move that the Board of Public Utilities approve Task Order No. 9 Under Services Agreement No. AGR15-4217 with GM Emulsion in the amount of \$91,339.00 and a contingency in the amount of \$28,661.00 for a total of \$120,000.00, plus applicable gross receipts tax, for the purpose of Site Preparation for the Los Alamos Switchgear Substation.

**7.     BUSINESS**

7.A     [8986-17](#)     Approval of Department of Public Utilities Budget for Fiscal Year 2018

**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.

Staff presented the proposed budget for FY2018. The budget as presented is less than one-half of one percent higher than the fiscal year 2017 budget and a reduction of 4.1% from the preliminary FY2018 budget presented last year.

The Board discussed this item and requested clarification where necessary.

\*\*\*\*\*

**Mr. Fraser moved that the Board of Public Utilities approve the Department of Public Utilities Fiscal Year 2018 budget as presented and forward to Council for adoption. 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.B**      [9136-17](#)

**Approval of the Long-Range Water Supply Plan**

**Presenters:**      James Alarid

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

DPU contracted with Daniel B. Stephens & Associates, Inc. (DBS&A) to revise the Long-range Water Supply Plan. Using the original format and data from the Council-adopted 2006 Long-range Water Supply Plan as a starting point, DBS&A updated the Plan to: reflect current population and water demand projections; evaluate potential climate change impacts; and assess various water supply options, including the timing for development of the County's San Juan-Chama water rights. The revised Long-range Water Supply Plan was presented to the Board of Public Utilities at a public meeting on November 15, 2016 and to the County Council on November 29, 2016. A revised draft was presented again to the Board on February 15, 2017. The final step, as required by the Office of the State Engineer, is to get County Council approval for adoption of the final revised Plan on March 21, 2017. Input from the Board, Councilors and members of the public were considered and the plan was presented to the Board for approval.

The Board discussed this item and requested clarification where necessary.

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**Mr. Fraser moved that the Board of Public Utilities approve the revised Long-Range Water Supply Plan and forward to the County Council for their consideration. 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**      [9137-17](#)

**Board of Public Utilities Discussion Concerning Councilor Request for Gas Rate Sunset**

**Presenters:**      Jeff Johnson

*(NOTE: Item 7.D was numbered incorrectly. There was no item 7.C.)*

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

At the September 27th, 2016 Council meeting a pass-through gas rate was adopted by unanimous vote. The rate superseded a previous pass-through rate with a sunset clause. The new rate did not have a sunset provision. The new rate was under the sunset deadline (due to expire on 10/1/16), and several councilors felt the deadline of the ordinance request did not leave Council adequate time to discuss the merits of the pass-through rate. These councilors have requested the BPU submit a sunset associated with the pass-through so that Council has an additional opportunity to discuss

the pass-through rate.

The Board discussed this item and requested clarification where necessary. Councilor O'Leary was asked to discuss the concerns that prompted this discussion. Councilor O'Leary clarified that she was speaking as an individual Councilor and not speaking for the Council.

After discussion, the Board did not take any action on this matter.

**8. STATUS REPORTS**

**8.A 9193-17 Status Reports**

**Presenters:** Board 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 7:43 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**

**MARCH 15, 2017**

1. The DPU celebrated its first annual March Madness employee appreciation luncheon today at PCS. This is one of four quarterly events hosted each year by DPU for our employees.
2. Advertisements for filling the upcoming Board of Public Utilities vacancy will be in the Sunday papers (3/19). We will cease accepting applications on 4/10.
3. We received a formal request to open negotiations on a new labor contract with the Plumber and Pipefitters Union, Local 412. The first negotiation session is scheduled for the first week in April. The contract expires at the end of June. This union represents the water production, wastewater treatment, and GWS field workers.
4. The judge in the JR Merritt appeal will be asked to extend the stay beyond its current expiration date of 3/17. We feel that we have agreement with JRM on a path forward, and are awaiting final language modifications before signing the change order to put the settlement into effect.
5. The work at Abiquiu hydroelectric plant is scheduled to be completed by March 17. Pressurization is scheduled for March 23, and if successful, we should begin generating at that time.
6. A table-top level emergency response exercise on the Los Alamos Canyon dam was held on Friday, March 10. This exercise was sponsored by the County Emergency Management office, and included representatives of all County departments. A full functional exercise on the dam is scheduled for August of this year.
7. We received the feedback report from the employee focus group at the end of February. The Manager met with members of the employee group on March 6 to discuss their findings. A meeting was held with Senior staff on March 14 to discuss the various recommendations. It is intended that the Manager will meet with each division in the coming weeks and discuss recommended changes and initiatives in response to the focus group's recommendations.

## **Environmental Sustainability Board liason report**

*Susan Barns, ESB Liason 3/15/2017*

At our February meeting, the ESB:

- Finalized and approved our FY18 Work Plan.
- Reviewed the LAC Environmental Services Budget Performance for FY2017, and discussed budget shortfalls and FY2018 predicted costs.
- Reviewed the outcome of the Brush and Bulk Item Recommendation Presentation to the County Council.
- Reviewed the 2016 NMED Solid Waste Annual Report on Eco Station and our closed landfill operations, prepared by Environmental Services staff.
- Heard a presentation by Charles Bowman about a GEM\*STAR Demonstration Subcritical Reactor for Los Alamos County. The GEM\*STAR facility, located at LANCE, would burn waste plutonium and generate biodiesel fuel from wood refuse.
- Hosted a presentation on the “Fancy Fiddle” Auction of up-cycled violins decorated by local artists, to benefit LAPS. We discussed other possibilities for future involvement of local artists in upcycling projects to benefit LAPS.

Agenda for 3/16 meeting includes:

- Discussion of Environmental Services Rate Increase and Rate Changes
- Presentation on food waste collection and composting
- LAPS Subcommittee Update
- Discussion of container options for Famine to Feast support
- Planning for 2017 Earth Day Festival participation



# County of Los Alamos

## Staff Report

April 19, 2017

Los Alamos, NM 87544  
www.losalamosnm.us

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**Agenda No.:** 6.B  
**Index (Council Goals):** BCC - N/A  
**Presenters:** James Alarid, Deputy Utilities Manager - Engineering  
**Legislative File:** AGR0497-17

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### Title

Approval of Agreement No. AGR17-30 with Wilson and Company, Inc. in the amount of \$2,583,694.00 for the Purpose of Otowi No. 2 Water Supply Well Design, Drilling and Development.

### Recommended Action

**I move that the Board of Public Utilities approve, in a form acceptable to the County Attorney, Services Agreement No. AGR17-30 with Wilson and Company, Inc. in the amount of \$2,583,694.00, and a contingency in the amount of \$416,306.00, for a total of \$3,000,000.00, plus applicable gross receipts tax, for the purpose of Otowi No. 2 Water Supply Well Design, Drilling and Development, and forward to Council for approval.**

### Staff Recommendation

Staff recommends approval of the motion as presented.

### Body

This project includes the design, drilling and development of a new water supply well for the County. Some of the existing wells have approached the end of their useful life and must be replaced. Otowi 2 is expected to reach between 2,000' and 2,300' into the Pajarito Formation and produce between 1,000 GPM and 1,200 GPM of good quality drinking water. Once the drilling and development are complete, DPU will advertise for offers for the pump and controls equipment, as well as the conveyance facilities necessary to bring the new water into the system. All work should be complete by spring 2018.

### Alternatives

The Board may choose not to approve the agreement as recommended.

### Fiscal and Staff Impact

The selection was based on several criteria, including price. DPU received three proposals ranging from \$2.8 to \$4.3 million dollars. Wilson and Company, Inc. met the criteria and also offered the lowest price. The contract amount is within budgetary limits. The contract amount includes engineering services during the drilling and development of the well. Technical issues surrounding water supply well development are complex and are beyond the capacity of staff to provide optimum service. For this reason, staff believes it is within the best interest of the County to award the contract as recommended.

### Attachments

A - AGR17-30





**INCORPORATED COUNTY OF LOS ALAMOS  
AGREEMENT  
FOR ENGINEERING SERVICES AND WELL  
DRILLING AND DEVELOPMENT**

This **AGREEMENT** (this "Agreement," or "Contract") is entered into by and between the **Incorporated County of Los Alamos**, an incorporated county of the State of New Mexico ("County"), and Wilson and Company, Inc., a Kansas corporation ("Contractor"), to be effective on May 3, 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 Proposals No. RFP 17-30 (the "RFP") on December 14, 2016, requesting proposals for Otowi 2 Water Supply Well Design, Drilling and Development in connection with the new Otowi 2 potable water supply well; and

**WHEREAS**, Contractor timely responded to the RFP by submitting a response dated February 23, 2017 ("Contractor's Response"; and

**WHEREAS**, based on the evaluation factors set out in the RFP, Contractor was the successful Offeror for the services listed in the RFP; and

**WHEREAS**, County desires to have Contractor provide services for the design, drilling and development of the new Otowi 2 Water Supply Well, in accordance with the Design approach and Construction Approach sections of the Contractor's Response, with a minimum sustainable yield of 1,000 gallons per minute, and drilled to a depth between 2,300 and 2,500 feet, hereinafter referred to as the "Project"). The wellhead site is located at the designated site, west of NMHWY 4, in Los Alamos Canyon, Santa Fe County (hereinafter referred to as the "Property"); and

**WHEREAS**, the Board of Public Utilities approved this Agreement at a public meeting held on April 19, 2017; and

**WHEREAS**, the County Council approved this Agreement at a public meeting held on May 2, 2017;

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

## SECTION A. SCOPE OF SERVICES

### SECTION A.1. GENERAL

- a) Throughout this SECTION. A. SCOPE OF SERVICES, the terms “services,” “work,” and “project,” are used interchangeably.
- b) This is a performance-based Agreement. Contractor is responsible for verifying the work of its subcontractors. Contractor’s progress schedule, including benchmarks, milestones and deliverables, are attached as **Exhibit “C,” “Project Schedule.”**
- c) Any review of the Contractor’s Services by County does not relieve the Contractor of its obligations under this Agreement.
- d) Services include detailed design, drilling, development and pump testing of the new Otowi 2 Water Supply Well, (“O2W”) located in Los Alamos Canyon on a U.S. Department of Energy (DOE) owned site off State Road NM4, approximately 0.5 miles from its intersection with State Road NM502. Contractor shall utilize its professional team, including its subcontractors, to develop the necessary drawings and technical specifications for approval by pertinent regulatory agencies, accomplish drilling execution by a properly licensed drilling execution operator (from well’s pilot hole to reaming, casing, full development, flow and quality testing), coordinate with relevant regulatory agencies, and accomplish verification of well drilling and development in compliance with all specifications, for the new O2W to be equipped and ready to operate as part of County’s water supply system.
- e) As Contractor deems applicable, construction segments of this Agreement shall follow the standards described in Department of Public Utilities (DPU) Construction Standards, which can be found at:  
<ftp://files.losalamosnm.us/utl/DPU%20Construction%20Standards/>.
- f) County and Contractor agree that performance delays due to unknown geological conditions not reasonably anticipated by either party shall not be the responsibility of the Contractor.
- g) Various forms for use during the performance and administration of this Agreement are attached as **Exhibit “E,” “Forms,”** and include:
  - 1) Notification of Award
  - 2) Acceptance of Notice of Award
  - 3) Performance Bid
  - 4) Payment (Labor and Materials Bond)
  - 5) Notice to Proceed
  - 6) Acceptance of Notice to Proceed
  - 7) Change Order
  - 8) Payment Application
  - 9) Affidavit of Payment and Release of Liens

## **SECTION A.2. ENGINEERING**

**Task 1. Site Survey:** Contractor shall ensure verification of the O2W property boundaries within fourteen (14) days of County's Authorization to Proceed ("CAP"), and submit such to County's Project Manager ("PM").

**TASK 2. Topographic Base Mapping:** Contractor shall perform topographic base mapping to one-foot contours of the O2W site, as necessary for fine site grading, drawn in CADD (Civil 3-D) format. Contractor shall submit completed topographic map to PM in electronic format within thirty (30) days of CAP.

**Task 3. Coordinate Underground Utility Locates:** Contractor shall coordinate underground utility locates at the O2W site. This Task, 1C., shall be completed within ten (10) days from date of CAP, and Contractor shall submit copy of written coordination to PM.

**Task 4. Civil Construction Drawings:** Contractor shall prepare and seal all drawings deemed necessary by Contractor to address all elements of a finalized site development that will envelop the new wellhead, including security fencing. At minimum, the drawings shall include the following:

- a) General Sheets
- b) Site Civil Design
- c) Well Section and Details
- d) Typical Civil Details

Contractor shall submit copy in electronic form to PM within sixty (60) days of CAP.

**Task 5: Construction Specifications:** Contractor shall provide supplemental technical specifications necessary to administer well drilling and site development operations. These specifications will, at minimum, include the following:

- a) Summary of Work, Contract Considerations, Technical Specifications, Coordination and Meetings, Quality Control, Regulatory Requirements, Construction Facilities and Temporary Controls, Construction Mobilization/Demobilization, Clean-up, and Project Closeout.
- b) Rough Grading, Well Drilling.
- c) Concrete Forms and Accessories, Concrete Reinforcement, Cast-in place Concrete.
- d) Security Fencing.

Contractor shall submit electronic copies of these documents to PM within sixty (60) days of CAP.

**Task 4. Regulatory Agency Submittal:** Prior to starting construction of the O2W well, Contractor shall prepare and submit relevant documentation to the New Mexico Environment Department – Drinking Water Quality Bureau (NMED-DWQB). The submittal packages shall include, at minimum, the following:

- a) Complete Application
- b) Sealed Engineering Drawings and Technical Specifications
- c) Design Summary Report
- d) Hydrogeologic Assessment
- e) Contaminant Inventory
- f) Requirements for Primary and Secondary Contaminant Water Quality Testing

- g) Coordination with NMED-DWQB
- h) Review Comment Reply

Contractor shall submit written proof of submittals to PM within sixty (60) days of CAP.

**Task 5. New Mexico Office of the State Engineer (NMOSE) Well Permit:** Contractor shall prepare and submit relevant documentation, including a complete Plan of Operations as may be required by NMOSE. Additionally, Contractor shall address any review comments from NMOSE and assist County on matters related to NMOSE well permit. Contractor shall submit electronic copies of relevant documentation to PM within sixty (60) days of CAP.

**Task 6. Discharge Permits:** In the performance of this task, Contractor shall perform all necessary work in connection with the requirements for discharging waters resulting from well testing and development. Contractor shall file a Notice of Intent ("NOI") and/or file an application for a temporary National Pollutant Discharge Elimination System ("NPDES") permit with United States Environmental Protection Agency ("USEPA"). Contractor shall closely coordinate with Department of Energy ("DOE"), as well as the City and County of Santa Fe, in connection with any discharge into Los Alamos Canyon. Contractor shall submit electronic copies of relevant documentation to PM within sixty (60) days of CAP.

**Task 7. Construction Administration/Management:** Contractor shall provide services to include the following items:

- a) Facilitation of Construction Progress Meetings
- b) Site Visits and Construction Progress Review
- c) Verification of Quantities and Preparation of Pay Applications
- d) Review Needs/Requests for Design Changes
- e) Substantial/Final Completion Inspection of Drilling and Development Operations, Punch-listing and Recommendation for County Acceptance
- f) Shop Drawing Review and Assembly
- g) Project Closeout, Final Payment Request Preparation and Submittal to County

**Task 8: Project Records Assembly and Management:** Contractor shall provide project records assembly and management services to include the following:

- a) Preparation of written and photo documentation of all site activities, methods used by driller, quantities and volumes of material used throughout the execution of the well drilling and development.
- b) Documentation of nature and quality of water produced during well development.
- c) Contractor shall submit all records to PM in electronic form prior to close out of the Project.

**Task 9. Final Log Report:** Contractor shall provide full and accurate documentation, for the record, of final well conditions (as-built), geophysical and lithologic logs, sieve analysis, development procedures, test pumping data, calculated aquifer hydraulic properties, data interpretation, recommendations for maximum pumping rate and corresponding pumping water level. Contractor shall first present the report to County in draft form, County will review, and following acceptance by County, final form shall be submitted by Contractor within thirty (30) days of completing well drilling and development operations.

## **SECTION A.2. WELL DRILLING AND DEVELOPMENT**

Throughout the execution of Well Drilling and Development portion of the O2W project, Contractor shall provide a written weekly progress report to County PM. Contractor shall provide justification for any deviations between actual progress and scheduled progress as described in Exhibit "C," "Progress Schedule."

**Task 1. Implementation of Approved Storm Water Pollution Prevention Plan (SWPPP):** Contractor shall provide services to include installation, maintenance and daily inspection of all Best Management Practice ("BMP") items, in compliance with the SWPPP for the duration of the project.

**Task 2. Site Preparation and Improvements:** Contractor shall perform all work, including any preparation work necessary for safe drilling rig, appurtenant equipment and material access.

**Task 3. Drilling and Development Operations:** Contractor shall use drilling methodology and drill the pilot hole, followed by reaming, casing, screen installation, gravel pack installation and proper grouting, all as specified in the design document.

**SECTION B. TERM:** This Agreement shall commence on May 3, 2017 and shall continue until December 31, 2019, with the option to renew for one (1) additional year, unless sooner terminated as provided in Section R. The dates may only be changed by a written Change Order between Contractor and County.

## **SECTION C. COMPENSATION:**

- 1. Amount of Compensation:** The County shall pay the Contractor compensation as described in Exhibit "D," "Project Cost," in an amount not to exceed TWO MILLION FIVE HUNDRED EIGHTY THREE THOUSAND SIX HUNDRED NINETY FOUR DOLLARS (\$2,583,694.00), plus applicable NMGR, and adjusted by approved Change Orders.
- 2. Invoicing:** Invoices shall be submitted using Contractor's Application and Certification for Payments Forms ("Application for Payment"). Contractor shall submit a detailed breakdown of the unit costs associated with all well drilling and development items, as a function of depth.

**SECTION D. TAXES:** Contractor shall be solely responsible for timely and correctly billing, collecting and remitting all NMGR 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:** Contractor shall maintain 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, geological conditions that could not have reasonably been identified in advance of drilling operations, 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:**

Patricio Guerrerortiz, PE  
Incorporated County of Los Alamos  
Department of Public Utilities  
1000 Central Avenue, STE 130  
Los Alamos, New Mexico 87544

**Contractor:**

Brian Ambrogi, PE  
Wilson and Company, Inc.  
2600 The American Road  
STE 100  
Rio Rancho, New Mexico 87124

**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.

**SECTION V. WARRANTIES:** The Contractor warrants to the County that all materials and equipment furnished under this Agreement will be new, and that all Work will be of good quality, free from improper workmanship and defective materials and in general accordance with the Plans and Specifications. The Contractor agrees to correct all Work performed by it under this Agreement which proves to be defective in material and workmanship within a period of eighteen (18) months from the date of delivery or twelve (12) months after the date of Substantial Completion, whichever comes later. County will give Contractor written notice of each defect promptly after discovery. In addition, the Contractor shall extend to the County all warranties received from subcontractors and material men.

## **SECTION W. SUPPLEMENTAL CONDITIONS FOR WELL DRILLING AND DEVELOPMENT:**

### **SECTION W.1. Materials, Services and Facilities**

- 1) Materials and equipment shall be so stored as to insure the preservation of their quality and fitness for the Work. Stored materials and equipment to be incorporated in the Work shall be located so as to facilitate prompt inspection.
- 2) Manufactured articles, materials, and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer.
- 3) Materials and equipment shall be of good quality and new.
- 4) Contractor shall, if required, furnish evidence of the quality of any materials.
- 5) Where applicable, materials shall be delivered to the site in original packaging with labels and trademarks intact, and such labels and trademarks shall remain intact until used.

### **SECTION W.2. Protection of Work, Property and Persons**

- 1) The Contractor will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. All apparatus, equipment and construction shall meet all requirements of all federal, state and local laws applicable to including but, not limited to labor and safety laws.
- 2) In emergencies affecting the safety of persons or the Work or property at the site or adjacent thereto, the Contractor, without special instruction or authorization from the County, shall act to prevent threatened damage, injury or loss. Contractor will give the County prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused thereby and a Change Order shall thereupon be issued covering the changes and deviations involved.

### **SECTION W.3. Changes in the Work**

- 1) The County may at any time, as the need arises, order changes within the scope of the Work without invalidating the Agreement. If such changes increase or decrease the amount due under the Contract Documents, or in the time required for performance of the Work, an equitable adjustment shall be authorized by Change Order.
- 2) Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any Work performed that is not required by the original Contract Documents or as amended or modified except in the case of an emergency, which shall be defined as an event or situation which could affect the safety or protection of persons or the Work, or property,

real or personal, at the site or on related construction and staging areas and roads, or property adjacent thereto.

#### **SECTION W.4. Job Site Conditions**

- 1) Contractor is responsible for compliance with applicable federal regulations with regard to hazardous waste, as defined in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time; storm water or storm water management; protected species and archeological sites as applicable.
- 2) Contractor shall reseed disturbed areas in accordance with County requirements as described in DPU Construction Standards, which can be found at <ftp://files.losalamosnm.us/utl/DPU%20Construction%20Standards/>.
- 3) Contractor shall be responsible for all areas of the project used by the Contractor, subcontractors, suppliers or other involved in performance of the services to be performed in the Contract. Contractor shall have the right to exclude all persons who have no purpose or function related to the performance or inspection of the services, except personnel employed by the County or other governmental agencies. Contractor may require all persons on the site of the work to observe all regulations the Contractor requires of the Contractor's employees. Contractor will exert full control over the site and personnel with respect to use, safety and preservation of property and the existing facilities, except for controls as reserved to County or others.
- 4) Contractor shall confine construction equipment, the storage of materials and equipment and the operations of workers to the site defined in the Easement Document, attached as Exhibit "B".
- 5) Contractor shall be responsible for all materials brought to the job sites by Contractor, subcontractors or anyone else Contractor is responsible for.
- 6) Volatile, hazardous or dangerous wastes shall be properly stored and covered metal containers. The Contractor shall promptly remove all spilled or splattered materials from surfaces to prevent marring, staining, or damage. All wastes shall be disposed of in compliance with applicable anti-pollution laws and local ordinances. Adequate clean-up will be evaluated prior to applications for progress payment.
- 7) The County shall have the right to enter the premises for the purpose of doing work not covered by the Agreement. This provision shall not be construed as relieving the Contractor of the sole responsibility for the care and protection of the Work or the restoration of any damaged Work except such as may be caused by agents or employees of the County.
- 8) County may perform other work related to the Project at the site by County's own employees or let other direct contracts therefore.

- 9) Contractor shall not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of County and the others whose work will be affected.
- 10) Gas and Oil Storage, Service Areas – County's Project Manager shall approve the location of any equipment areas, gas and oil storage areas, and service areas. Contractor shall clear all areas of brush, litter, grass and all other flammable debris for a radius of 50 feet.
- 11) Prevention of Oil Spills – If Contractor maintains storage facilities or uses flammable or combustible liquids in the project area, Contractor will provide to the Fire Marshall an operational plan that addresses the use and appropriate measures which will address spill containment and clean-up. Pollutants such as fuels, lubricants and other harmful materials shall not be discharged on the ground.
- 12) Contractor, at its sole expense, shall immediately take action to contain and clean up all petroleum product spills on or in the vicinity of the project which are caused by Contractor's employees directly or indirectly as a result of subcontractor operations. Contractor will be held liable for all damages and costs of additional labor, equipment, supplies, and transportation deemed necessary by the County for the containments and cleanup of petroleum product spills caused by Contractor's employees or resulting from subcontractor operations. Contractor shall immediately report all petroleum product spills to the County.
- 13) Control of Sources of Ignition - When Contractor uses any process that requires an ignition source, Contractor must provide a plan outlining the process and prior approval must be granted by the Fire Marshall before any ignition source is used within the project area.
- 14) Contractor shall conduct all activities associated with this project in such a manner that there will not be any adverse impact to archeological sites, trails, identified natural features, fences, gates, public and private property.
- 15) Contractor shall be responsible for all damage to property and to persons, including third parties that occur as a result of its or its agent's or employee's or subcontractor or subcontractor's employees fault or negligence.
- 16) In the event of interruption to utility services because of accidental breakage or as a result of lines being exposed or unsupported, Contractor shall promptly notify County and shall cooperate with County in the restoration of services.
- 17) Contractor shall protect all streets, public highways, private roads and sidewalks, including overhead protection where required, and shall make all necessary repairs for damage thereto during course of the work at Contractor's own expense.
- 18) Contractor shall provide proper protection of all old work, furnishings and fixtures likely to be damaged. When exterior openings are made to existing structures or buildings, they shall be weather and water tight at the end of the day's work.

- 19) Any work damaged by failure to provide protection shall be removed and replaced with new work at Contractor's expense.
- 20) There is no potable water at the construction site.
- 21) The Contractor shall provide temporary sanitary facilities and shall be responsible for their care and maintenance during the project. The temporary sanitary facilities shall be removed immediately upon acceptance of the project by the County.
- 22) Contractor shall remove all snow and ice as may be required for the proper protection and prosecution of the work and access to job site.
- 23) Contractor shall provide all shoring, bracing and sheathing as required for safety and for proper execution of the work and have same removed when work is completed.
- 24) Contractor shall provide installation and maintenance of necessary precautions to protect all persons on the site, including members of the general public, from injury or harm, including but not limited to posting of appropriate warning signs in hazardous areas.
- 25) Contractor shall at all times provide protection against weather (rain, winds, storms, frost, floods or heat) so as to maintain all work, materials, apparatus, and fixtures free from injury or damage. At the end of the day's work, all new work likely to be damaged shall be protected.
- 26) During cold weather, Contractor shall protect all work from damage. If low temperatures make it impossible to continue operations safely in spite of cold weather precautions, Contractor shall cease work and so notify County.
- 27) Contractor shall provide and maintain in working order all fire protection measures required by OSHA and National Fire Protection Association standards. Fires shall not be built on the premises.
- 28) Contractor shall be responsible for coordinating the temporary installation of any utilities needed for the performance of the Work.
- 29) Should concealed conditions encountered in the performance of the Work below the surface of the ground or should concealed or unknown conditions in an existing structure be at variance with the conditions indicated by the Construction Documents, or should unknown physical conditions below the surface of the ground of an unusual nature or should concealed or unknown conditions in an existing structure of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this Agreement, be encountered, the Contractor shall promptly, and before such conditions are materially disturbed, notify the County of such conditions. The County shall promptly, and within two (2) working days of receipt of Contractor's notice of such conditions, investigate the conditions. Such notice to County may be oral with written confirmation of such conditions from Contractor to follow. In the event the County reasonably finds that such conditions are so at

variance or do so materially differ, then the Cost of the Work and/or the Construction Schedule shall be equitably adjusted by Change Order in accordance with Section AA hereof, upon claim by Contractor made within thirty (30) days after the first observance of the conditions.

- 30) No claim of the Contractor under this clause shall be allowed unless the Contractor has given the notice required in Number 1 above; provided, however, the time prescribed therefore may be extended by the County.
- 31) No claim by the Contractor for an equitable adjustment hereunder shall be allowed if asserted after Final Payment under this Agreement.

#### **SECTION W.6. Easements and Additional Land**

- 1) Prior to the beginning of any work, the County shall obtain, delineate and provide descriptions of all easements necessary for use by Contractor in performing the Work.
- 2) The Contractor shall provide at the Contractor's own expense and without liability to the County any additional land and access thereto that the Contractor may desire for temporary construction facilities or for storage of materials.
- 3) Access road from NM4 shall be via restricted access gate and DOE dirt road. Gate shall remain closed at all times and access road will be maintained free of Work-related obstructions.

#### **SECTION W.7. Additional Requirements**

- 1) Wage Decision LA 17-0204-H, issued by the New Mexico Department of Workforce Solutions, shall apply to this project has been uploaded onto the County's FTP site, and is attached as Exhibit "A."
- 2) Each certified payroll shall have the correct Wage Rate Decision Number printed clearly on the first page. The Contractor and all Subcontractors shall also submit certified payrolls. Prior to the issuance of a Certificate of Payment, the Contractor shall determine that a certified payroll has been submitted to the State Labor Commission as provided for by State law and that all other provisions applicable to and relating to the payment of wages to artisans, draftsmen and laborers has been abided by and that said payments have been made in accordance with established scales as furnished by the State Labor Commission for this particular contract. In addition, the Contractor will not be allowed to split an individual worker(s) time/wages between crafts/laborer classifications.

#### **SECTION X. LICENSES, PERMITS, LAWS, AND REGULATIONS:**

- 1) 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.
- 2) Contractor shall comply with all laws, rules, and regulations (Federal, State and local) in effect as of the date hereof, pertaining to the Work, and it shall give such

notices and obtain such permits and licenses except as may otherwise be obtained by County as may be necessary to comply with said laws, rules and regulations. The Contractor shall submit copies of such permits and licenses to the County.

- 3) Contractor understands and agrees that certain aspects of the Work require interpretations of governmental codes, statutes and regulations by Contractor's professional consultants (i.e., architect, engineer, etc.). In the event that such interpretation is determined to be unacceptable to governmental authorities having jurisdiction over the Work and, as a consequence, Contractor is then ordered or directed by such authorities to redesign, correct and reconstruct items of work, the cost of such re-design, correction or reconstruction shall not be charged to County.

**SECTION Y. PERFORMANCE AND PAYMENT BONDS:** Contractor shall provide County with a Performance Bond and a Payment Bond naming County as Obligee in an amount equal to one hundred percent (100%) of the Contract Price inclusive of NMGR and drawn on a Surety licensed to do business in New Mexico in a form satisfactory to County to secure a proper compliance with this Agreement within ten (10) days of the Contractor's execution of this Agreement.

**IN WITNESS WHEREOF**, the parties have executed this Agreement on the date(s) set forth opposite the signatures of their authorized representatives.

**ATTEST  
INCORPORATED COUNTY OF LOS ALAMOS**

\_\_\_\_\_  
**NAOMI D. MAESTAS  
COUNTY CLERK**

**BY:** \_\_\_\_\_ **DATE**  
**TIMOTHY A. GLASCO, PE  
UTILITIES MANAGER**

Approved as to form:

\_\_\_\_\_  
**J. ALVIN LEAPHART  
COUNTY ATTORNEY**

**WILSON AND COMPANY, INC., A KANSAS  
CORPORATION**

**BY:** \_\_\_\_\_

**TITLE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_



STATE OF NEW MEXICO  
NEW MEXICO DEPARTMENT OF  
WORKFORCE SOLUTIONS  
Labor Relations Division,  
121 Tijeras Ave NE, Suite 3000  
Albuquerque, NM 87102  
www.dws.state.nm.us

## AGR17-30 Exhibit "A"

### Wage Decision Approval Summary

1) Project Title: Otowi 2 Well Design Drilling and Development  
Requested Date: 02/02/2017  
Approved Date: 02/03/2017  
Approved Wage Decision Number: LA-17-0204-H

**Wage Decision Expiration Date for Bids: 06/03/2017**

2) Physical Location of Jobsite for Project:  
Job Site Address: MM 0.25, NM HWY 4  
Job Site City: Los Alamos  
Job Site County: Los Alamos

3) Contracting Agency Name (Department or Bureau): Los Alamos County  
Contracting Agency Contact's Name: Patricio Guerreortiz  
Contracting Agency Contact's Phone: (505) 663-1907 Ext.

4) Estimated Contract Award Date: 03/22/2017

5) Estimated total project cost: \$2,310,000.00  
a. Are any federal funds involved?: No  
b. Does this project involve a building?: No  
c. Is this part of a larger plan for construction on or appurtenant to the property that is subject to this project?: No  
d. Are there any other Public Works Wage Decisions related to this project?: No  
e. What is the ultimate purpose or functional use of the construction once it is completed?: Develop a new potable water supply well for the customers of Los Alamos County Utilities

6) Classifications of Construction:

Classification Type and Cost Total	Description
Highway Engineering (H) Cost: \$2,310,000.00	design, drill and develop 2500' deep, 16-inch diameter casing potable water supply well.

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**AGR17-30  
Exhibit "B"  
Easement Document  
Separate Document in Contract (O) Drive**

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**AGR17-30  
Exhibit "C"  
Project Schedule  
Will be added as soon as clarification is submitted by Wilson**

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**Exhibit "D"  
Project Cost  
Separate Document in Contract (O) Drive**

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**Exhibit "E"  
Forms  
Separate Document in (O) Drive**

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# County of Los Alamos

## Staff Report

April 19, 2017

Los Alamos, NM 87544  
www.losalamosnm.us

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**Agenda No.:** 7.A  
**Index (Council Goals):** BCC - N/A  
**Presenters:** Steve Cummins, Deputy Utilities Manager - Power Supply  
**Legislative File:** 9267-17

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### **Title**

Presentation of Electric Production Budgeting Process

### **Recommended Action**

None

### **Staff Recommendation**

None

### **Body**

For the fiscal year 18 budget planning process, Electric Production used for the first time the County's standard 10-year financial forecasting template. This document proved to be too generic for the complex and dynamic nature of the cost for each electric generation resource in the County's portfolio.

Electric Production is of the opinion that its historic practice to reflect the 10-year financial forecast as the cost of power in the Electric Distribution 10-year financial forecast provides a better projection for the Board and County Council.

Electric Production recommends that for the fiscal year 19 and 20 budget planning process, it revert back to its practice of including financial forecasting in the cost of power for Electric Distribution and eliminate the County's standard 10-year financial forecast document for Electric Production.

The following describes how Electric Production arrives at the cost of power reflected in the Electric Distribution 10-year financial forecast:

### **Electric Production Budgeting Process**

Electric Production annually updates their 10-Year forecasted loads and generation resources to meet the electric demands of the Los Alamos Power Pool (LAPP) in accordance with the Electric Coordination Agreement. The planning process is ongoing with DPU's Asset Management Teams throughout the year in regards to the generation resources operated and maintained by DPU.

In October of each year the nine owners of the San Juan Generating Station (SJGS) meet and finalize the SJGS annual budget. Since SJGS serves approximately 40% of the Power Pools Load it carries a lot of financial weight in the DPU budget process. Also in October of

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each year the Laramie River Station (LRS) completes a similar exercise and submits the LRS O&M and capital budget to DPU for inclusion in the DPU budget.

In December of each year the Asset Management Teams hold their Governance meeting to present the proposed O&M and Capital budgets to senior management. This is where the AMT takes a close look at the resources operated and maintained by the County (i.e. Abiquiu, El Vado, PV/Battery System) and presents their findings to senior management to be included in the upcoming budget.

Per the Operating Procedures for the Electric Coordination Agreement (ECA), on January 15th, LANL submits their annual 10-year load forecast along with their proposed budget items on LANL's approved pool resources.

Electric Production Staff begins updating the Loads and Resources spreadsheet which upon completion feeds the 24 month budget sheets with the forecasted capacity and energy demands. The culmination of these efforts are the basis for the Electric Production draft budget which is presented to the Board of Public Utilities each year in February.

From February to March, staff firms up the budget inputs, such as, cost of market power, cost of natural gas, LANL load forecast updates from January submittal, etc.

From the BPU March budget approvals, staff works on the power pool 24-month budget. This effort is primarily to true up estimated capacity charges that were set at the beginning of the year with actuals. The reconciled capacity charge will be used in the upcoming fiscal year. The Operating Committee meets to discuss all capital projects proposed greater than \$50,000 and how we plan to meet the LAPP power demands. The Operating Committee approves the 24 month budget and forwards to the Contracting Authorities for Approval in the May/June timeframe each year. The Contracting Authorities are the DOE Contracting Officer and the County Council.

The 24 month Budget is actually a 10 year forecast but the Operating Committee and the Contracting Authorities only approve two years similar to the County's budgeting process. The 10 year forecast is prepared with the best information we have at the time. The cost of market power is greatly influenced by the cost of natural gas therefore, Electric Production continuously monitors the gas index pricing and gas futures pricing. The Laboratories load forecast is very dynamic from the planning of projects and programs to the actual load materializing. The commodity prices and load forecast place a lot of uncertainty in the forecasted budget beyond two years.

#### **Alternatives**

N/A

#### **Fiscal and Staff Impact**

Preparing the loads and Resources is a primary duty of Electric Production.

#### **Attachments**

A - Presentation Slides of Electric Production Budgeting Process

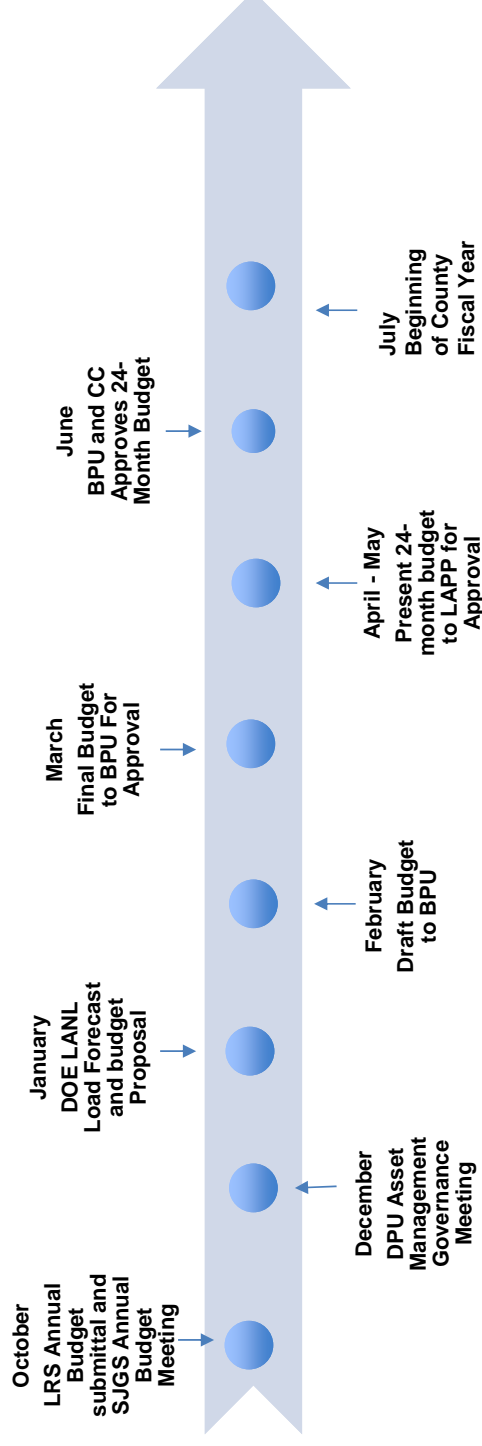
# Electric Production Budgeting Process and 10-Year Financial Forecast

Steve Cummins & Jordan Garcia

# Agenda

1. Electric Production Timeline
2. 10-Year Loads & Resources (L&R)
3. Electric Production 10-Year Budget
4. ECA 24 Month Budget
5. 10-Year Financial Forecast Spreadsheet

# Electric Production Budget Process Timeline



# L&R - Load Analysis

## LANL Load projections by Project/Program

Example:

- LANSCE 25 MW load half the year
- SCC 14.3 MW load forecasted 68 MW over 10 years

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## LAC Comprehensive Plan for potential load growth

- Growing complexities with Loads and Resources - Roof Top Solar with a 23% capacity factor
- Includes the population growth goal and translated to Load projections

Includes projections for losses to be paid physically to our BA and other entities.

# L&R - Resource Availability

Individual Resource Planning (SJGS, LRS, Abiquiu, El Vado PV/Battery, CGTG)

- Anticipated Capacity Factors
  - Expected Unit De-rates
  - Expected Number of Forced Outages
  - Planned Outages
- Forecasts open market purchases needed to meet Load and Loss requirements

# L&R - Transmission

Transmission Import Capability (Norton & Reeves Line)

Transmission availability – Example (LRS)

Transmission Rates

- PNM-NITSA
- WAPA Transmission-LRS and Available Hydro Power (AHP)
- NORA Electric Cooperative-Hydro
- Jemez Electric Cooperative-Hydro
- TSGT Electric Cooperative-Hydro

PNM Formula Rate Annual True-up

- Annual Transmission Rate Revenue “ATTR”
- Transmission Losses

# L&R - Market Analysis

- Cost of Natural Gas
- Economy Purchases “Spot Market”
- Block Power
- Reserve Margins
- Spinning Reserves – self supply or market purchase?
- Sales of excess energy

# Electric Production 10-Year Budget

- Gives comprehensive cost for each individual resource
  - Including taxes, insurance, and debt service
- Includes O&M and Capital estimates provided to us by Plant Operators PNM, Basin Electric (LRS) & DPU AMT
- Takes into account cost share of Sandia/Kirtland (Merchant Desk Functions)
- Uses Load Projections to allocate Demand and Energy cost

# ECA 24 Month Budget

Approved Annually by Contracting Authorities (DOE and County Council)

- Capacity “CAP” Charges True-up between LAC and LANL
- LAPP Capital Budget Approvals (Projects > \$50k)

Finalize Load Projections resulting from Technology Advancements, Project Delays and/or Cancellations

Example:

- LANL Super Computing Center “TRINITY”, 6 month delay resulted in 6 MW efficiency gains

	BUDGET	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Expenditure Forecast										
El Vado Generation	620,427	600,000	913,500	927,203	941,111	955,227	969,556	984,099	998,860	1,013,843
Abiquiu Generation	403,881	600,000	609,000	618,135	627,407	636,818	646,370	769,861	769,861	769,861
Contract Administration	20,048	20,048	20,349	20,654	20,964	21,279	21,598	21,922	22,251	22,584
Load Control	1,822,030	1,858,471	1,895,640	1,933,553	1,972,224	2,011,668	2,051,902	2,092,940	2,134,799	2,177,495
Transmission - PNM	1,405,000	1,572,371	1,650,489	1,732,514	1,818,639	1,909,071	2,004,025	2,103,726	2,103,726	2,103,726
Transmission - Other	2,285,008	2,326,700	2,355,649	2,370,408	2,409,991	2,439,639	2,486,428	2,534,274	2,570,466	2,607,382
Purchased Power	14,614,373	14,235,104	16,196,422	23,009,848	24,441,694	26,821,838	27,157,193	29,036,322	36,313,483	39,211,199
Photovoltaic Array	117,000	168,810	154,748	1,038,294	1,049,009	1,059,837	1,070,780	1,086,842	1,103,144	1,119,691
Debt Service	2,536,071	2,385,204	2,406,269	2,410,534	590,987	471,674	469,256	457,117	457,117	457,117
Property Taxes	458,055	388,000	388,000	388,000	388,000	388,000	388,000	388,000	388,000	388,000
Insurance	120,000	115,000	115,000	115,000	115,000	115,000	115,000	115,000	115,000	115,000
San Juan Operations	11,213,148	10,537,333	11,000,102	13,358,374	11,881,682	12,028,382	13,716,284	12,932,924	12,932,924	12,932,924
Laramie River Operations	2,854,600	2,334,374	2,096,618	2,051,189	2,074,498	2,142,696	2,265,910	2,417,012	2,494,622	2,494,622
SMR Project	450,000									
Non-Pool Expenses	-	-	-	-	-	-	-	-	-	-
Interdepartmental Charges	447,280	476,726	489,128	511,410	534,699	559,040	584,481	611,071	638,862	667,907
Administrative Allocation	558,305	595,060	610,540	638,353	667,423	697,806	729,562	762,752	797,441	833,696
Capital	675,000	300,000	-	-	-	-	-	-	-	-
Total Operation Expenses	39,925,226	38,213,200	40,901,454	51,123,469	49,533,329	52,257,976	54,676,345	56,313,862	63,840,556	66,915,048
Total Capital Expenditures	675,000	300,000	-	-	-	-	-	-	-	-
Total Cash Outflow	40,600,226	38,513,200	40,901,454	51,123,469	49,533,329	52,257,976	54,676,345	56,313,862	63,840,556	66,915,048

Revenue Forecast												
Mwh Sales - LANL	542,688	539,120	560,353	696,685	741,578	757,031	773,182	795,044	1,000,629	1,062,129		
Mwh Sales - LAC Distribution	125,530	126,934	128,386	129,853	131,334	132,830	134,341	135,868	137,409	138,966		
Total Mwh Sales	\$668,218	\$666,054	\$688,739	\$826,538	\$872,912	\$889,862	\$907,523	\$930,912	\$1,138,038	\$1,201,095		
Revenue per Mwh	54.07	50.80	52.77	54.35	49.54	51.68	53.17	53.21	51.04	50.67		
DOE Revenues	29,152,767	27,270,959	29,379,826	37,681,902	36,583,270	39,001,800	40,995,873	42,193,531	50,982,617	53,726,809		
Economy Sales	4,248,065	4,566,619	4,352,997	6,003,497	6,094,502	6,066,227	6,338,120	6,704,034	5,656,054	5,943,316		
Interest on Reserves	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000		
Bond Federal Subsidy	33,984	33,984	33,984	33,984	33,984	33,984	30,867	27,669	24,080	19,561		
Bond Issue proceeds												
Transfer from Distribution Fund	6,980,612	6,561,662	6,967,859	7,241,158	6,658,056	6,989,075	7,259,727	7,338,622	7,107,907	7,134,398		
Total Cash Inflow	40,545,428	38,563,224	40,864,666	51,090,541	49,499,811	52,221,085	54,754,587	56,393,855	63,900,657	66,954,084		
Net Cash Flow	(54,798)	50,024	(36,789)	(32,928)	(33,518)	(36,890)	78,242	79,993	60,102	39,035		
Cumulative Net Cash Flow	(54,798)	(4,774)	(41,563)	(74,491)	(108,009)	(144,899)	(66,656)	13,337	73,439	112,474		
Cash Balance	19,238,182	19,288,205	19,251,417	19,218,488	19,184,971	19,148,081	19,226,323	19,306,317	19,366,418	19,405,454		
Recommended Cash Balance	17,269,510	16,950,192	17,300,551	17,978,670	16,289,274	15,677,041	15,242,237	14,900,502	14,409,014	14,516,046		
Reserves												
Retirement/Reclamation Reserve	10,079,922	10,204,395	10,293,261	10,421,375	10,426,053	9,808,674	9,239,130	8,708,141	8,130,692	8,149,336		
Identified items on site	300,000	304,500	309,068	313,704	318,409	323,185	328,033	332,953	337,948	343,017		
San Juan Decommissioning	4,709,820	4,898,220	5,086,620	5,275,020	5,463,420	5,651,820	5,840,220	6,028,620	6,217,020	6,405,420		
Laramie River Decommissioning	721,980	760,980	799,980	838,980	877,980	916,980	955,980	994,980	1,033,980	1,072,980		
San Juan Mine Reclamation	4,348,122	4,240,695	4,097,593	3,993,671	3,766,244	2,916,689	2,114,897	1,351,588	541,744	327,919		



# County of Los Alamos

## Staff Report

April 19, 2017

Los Alamos, NM 87544  
www.losalamosnm.us

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**Agenda No.:** 7.B  
**Index (Council Goals):** BCC - N/A  
**Presenters:** James Alarid, Deputy Utilities Manager - Engineering  
**Legislative File:** 9287-17

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### Title

Options for the Long-Range Water Supply Plan

### Recommended Action

**I move that the Board of Public Utilities approve Option 1 to proceed to amend the contract with Daniel B. Stephens to revise the Long-Range Water Supply Plan to satisfy the Council motion and update all water data.**

### Staff Recommendation

Staff recommends that the Board approve as presented.

### Body

DPU presented the Long-Range Water Supply Plan to County Council on March 21, 2017 for adoption. Council rejected the plan as presented by the following motion.

**"Council reject the plan as presented and ask the Board of Public Utilities to correct the wording concerning LACWU which should be Incorporated County of Los Alamos and to revise the wording regarding use of San Juan Chama water rights to make clear that it is a last contingency and where the actual well to be drilled is at a location to be determined in the future."**

Staff provides the following options for the Board of Public Utilities consideration.

Option 1- Proceed to amend the contract with Daniel B. Stephens to make the necessary changes to the plan to satisfy the Council motion. In addition, due to the length of time that has elapsed in gaining approval of the plan, update all water data to include 2016 data. Approval of the plan will now take place in the fall of 2017 and the Office of the State Engineer will likely not accept the plan based on data that is not current (currently incorporates up to 2015 data). We will request updated LANL water projections, in light of the proposed super computing project with projects significant increases of electric load in 2020 and 2025. The estimated cost for this level of effort by DB Stephens is \$24,102.00

Option 2- Proceed to amend the contract with Daniel B. Stephens to make the minimum necessary changes to the plan to satisfy the Council motion. The estimated cost for this option is \$13,373.00.

Option 3- Defer updating the plan until the lease for LANL water rights and the water service contract with LANL are finalized, which will be approximately 2-3 years. There would be no

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operational consequences and the current draft of the plan provides adequate data and analysis to guide water resource planning efforts for the next 3 years. The 2006 plan remains on file with the OSE.

Staff recommends Option 1 and this is reflected in the recommended motion.

Proposed schedule:

May 2017 - Utility Board Approve DBS&A contract amendment

June 2017 - Gather the new data

August 2017 - DBS&A to update the plan

September 2017 - 30 day public comment

October 2017 - Utility Board and Council

**Background:** DPU contracted with Daniel B. Stephens & Associates, Inc. (DBS&A) to revise the Long-Range Water Supply Plan using the original format and data from the Council-adopted 2006 Long-Range Water Supply Plan as a starting point.

The revised Long-Range Water Supply Plan was presented at a public meeting on November 15, 2016, to the Board of Public Utilities on November 16, 2016 and to the County Council on November 29, 2016. On February 15, 2017, the updated plan was presented to the Utility Board. After presentation of the revised plan and discussion of the comments received from the public the Utility Board took no action and asked that the plan be presented for approval in March 2017. The Plan was approved by the Utility Board on March 15th. Council rejected the revised Water Plan on March 21, 2017.

#### **Alternatives**

Alternatives are presented in the body.

#### **Fiscal and Staff Impact**

Increase in contract with DBS&A in the amount of \$24,102.00.

#### **Attachments**

None



# County of Los Alamos

## Staff Report

April 19, 2017

Los Alamos, NM 87544  
www.losalamosnm.us

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**Agenda No.:** 7.C  
**Index (Council Goals):** BCC - N/A  
**Presenters:** Tim Glasco, Utilities Manager  
**Legislative File:** 9184-17

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### Title

Options for the White Rock Wastewater Treatment Plant

### Recommended Action

None

### Staff Recommendation

See Body.

### Body

The White Rock Wastewater Treatment Plant was constructed in the mid 1960's. The treatment process consists of an entrance works, two primary clarifiers, two trickling filters, two secondary clarifiers and a chlorine contact basin. Design flow of the treatment plant is 0.8 million gallons per day (MGD). In recent years peak flows received by the plant are less than 0.5 MGD, well below the plant design capacity. The plant has now been in operation over 50 years.

The plant was first scheduled for replacement beginning in fiscal year 2010 as follows.

- FY2010 White Rock Entrance Works Design
- FY2011 White Rock Entrance Works Construction
- FY2012 Facilities Plan for White Rock Treatment Plant
- FY2013 White Rock Treatment Plant Renovation Design
- FY2014 White Rock Treatment Plant Renovation

In 2008, the plant construction was deferred for 10 years after consideration of the financial reality of operating the sewer collection and treatment facilities, paying the debt incurred with the construction of the new Los Alamos Treatment Plant and avoiding increasing sewer rates.

In 2009, the DPU hired a consultant to prepare a condition/risk assessment which included a 10-year life extension plan that would keep the plant operational and meet the National Pollutant Discharge Elimination System permit through 2019. The following life extension projects were completed to keep the plant operational until 2019 when the new plant would come online.

- 2010 - Purchased septic Hauler for \$126,000 and hauled sludge to LAWWTP/Pojoaque Septic Facility. Abandoned existing digesters, boiler and associated pumps (2009 cost \$805,000 to return to reliable operation).
- 2011 - Replaced one trickling filter center column and distribution arms for \$172,000.
- 2012 - New fine screen for \$100,000.
- 2014 - Replace chlorination equipment and metering for \$64,000

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In 2016, the DPU completed the Preliminary Engineering Report, Environmental Document and received proposals for the engineering services to design the new White Rock plant, consistent with the schedule to have the new plant operational in 2019. Evaluation of the wastewater fund finances and the current engineering and construction costs revealed the need to wait two years and generate additional revenue prior to seeking financing for the project. Current estimated costs for the project are as follow:

- Engineering Design \$1,011,000
- Construction Engineering/Inspection \$515,000
- Construction \$12,750,000

In the current budget approved by the Utility Board in March of 2017 the White Rock plant design has been deferred to FY 2020 and construction to FY 2021. Staff is currently working on contingency planning in the event that critical aged and vulnerable equipment may fail given the that the old plant must now last to 2022. At a minimum, the trickling filter recirculation pumps will have to be replaced.

Staff has consulted with the New Mexico Environment Department Construction Programs Bureau who administers the Clean Water State Revolving Loan Program (CWSRLP) to coordinate our planning efforts with their administrative requirements. Notable information:

- The interest rates will be reduced to an all-time low of 2.38% in the spring of 2017 for terms up to 30 years.
- There may be an upcoming grant opportunity similar to the past American Recovery and Reinvestment Act of 2009. This would result in a grant component to new CWSRLP loans. To be eligible the DPU would have to complete an application by the open enrollment deadline or April 28, 2017. There is no commitment or consequences for applying and not proceeding with the loan. We were strongly encouraged to apply.
- Projected revenues that are secured by an executed ordinance that includes multi-year rate increases are recognized in consideration of an applicant's revenues.
- Refinancing our existing loan for the Los Alamos plant is an option. This can achieved for just the loan, or it can be rolled into a new loan for the White Rock plan replacement. There is a fee of 2% of the balance refinanced.

We recommend proceeding with the application so we can be eligible for grant funds if they become available. DPU could apply for engineering, construction or both. DPU must establish additional revenue through a rate increase to build-up adequate reserves to qualify for loan.

We provide the following options that have been discussed on path forward to replace the White Rock plant.

**Move the project up 1-year (design FY2019, construct FY2020)**

- This would require a loan secured by an approved rate increase.
- Refinancing existing debt could realize savings that could be applied.
- If we proceed to make application for the CWSRLP, grant funds may be available.
- This could be for only design if limited by revenues.

**Defer construction of new plant until 2029 when the Los Alamos plant is paid off**

- Existing plant cannot meet compliance for another 12 years.
- An estimated \$3.5 million temporary package plant would be required to meet permit requirements.
- This would require a loan secured by an approved rate increase.
- If we proceed to make application for the CWSRLP, grant funds may be available.

- 
- Explore the possibility of designing new replacement plant to be constructed by 2029 with the capacity to receive sewage from LANL. LANL's wastewater plant is approaching its useful life. DPU would charge LANL a fee for this service that would cover proportional capital costs, administrative costs and O&M costs.

#### **Alternatives**

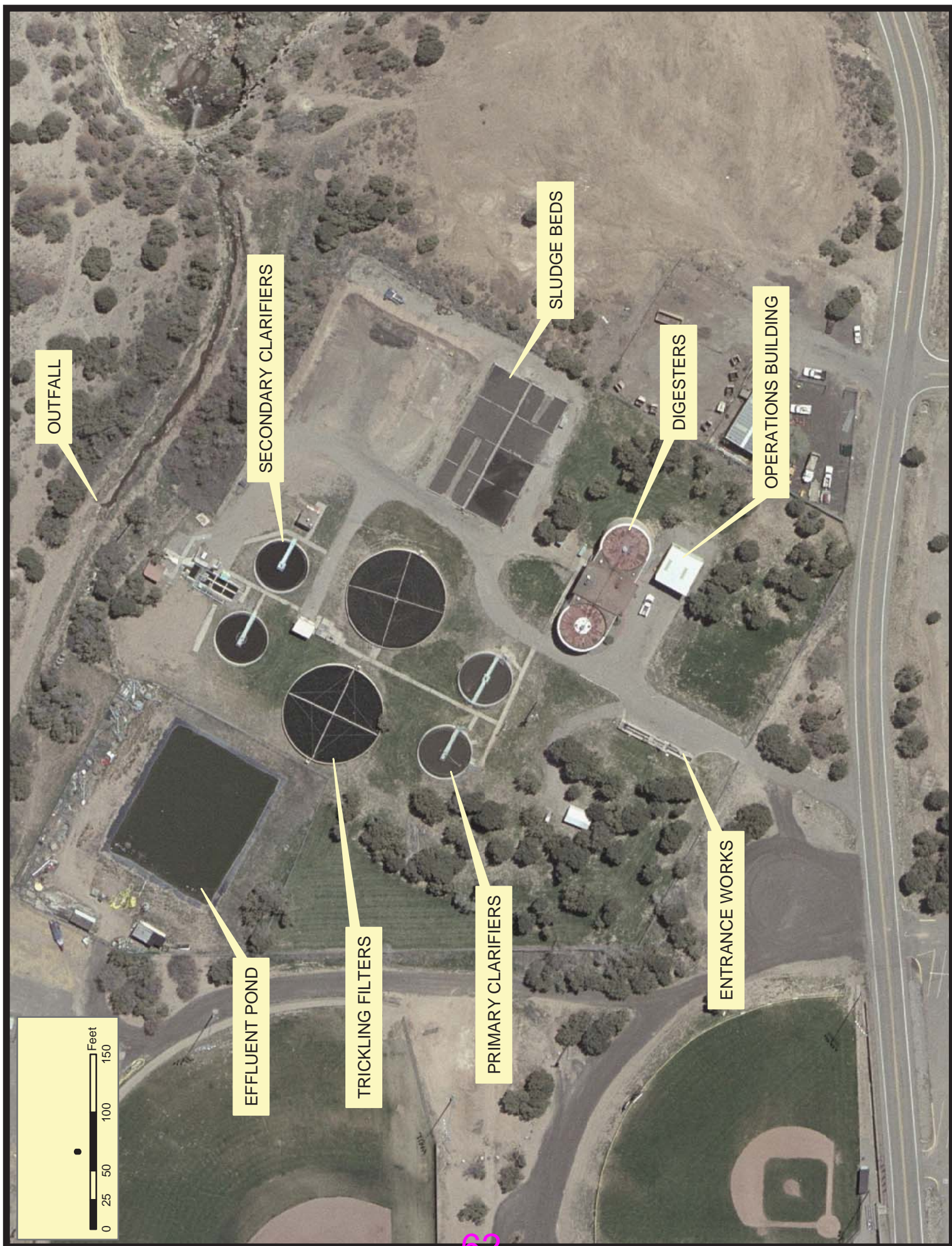
NA

#### **Fiscal and Staff Impact**

None

#### **Attachments**

A - White Rock Plant Picture





# County of Los Alamos

## Staff Report

April 19, 2017

Los Alamos, NM 87544  
www.losalamosnm.us

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**Agenda No.:** 8.A  
**Index (Council Goals):** BCC - N/A  
**Presenters:** Board of Public Utilities  
**Legislative File:** 9339-17

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### **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

April 19, 2017

Stephen Marez  
Senior Engineer

**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>
4/3/2016	Utilities	WR2	URD Failure	11:18	13:00	1:42	12	20:24:00	20:24:00	0:00:08
4/3/2016	Utilities	16	URD Failure	21:15	22:20	1:05	50	54:10:00	74:34:00	0:00:30
4/13/2016	Utilities	13	Unknown	10:00	10:20	0:20	24	8:00:00	82:34:00	0:00:33
4/28/2016	Dispatch	WR1	OH Failure	22:15	23:30	1:15	30	37:30:00	120:04:00	0:00:48
5/10/2016	Utilities	16	Planned	9:00	9:10	0:10	18	3:00:00	123:04:00	0:00:49
5/17/2016	Utilities	15	Planned	9:00	10:00	1:00	7	7:00:00	130:04:00	0:00:52
5/21/2016	Utilities	WR2	Planned	10:00	10:15	0:15	7	1:45:00	131:49:00	0:00:53
6/9/2016	Utilities	13	Planned	9:00	10:00	1:00	27	27:00:00	158:49:00	0:01:03
6/9/2015	Utilities	14	URD Failure	1:45	4:00	2:15	24	54:00:00	212:49:00	0:01:25
6/10/2016	Utilities	WR2	Planned	9:00	11:00	2:00	17	34:00:00	246:49:00	0:01:39
6/23/2016	Utilities	WR2	Weather	19:00	0:00	5:00	4	20:00:00	266:49:00	0:01:47
7/12/2016	Utilities	16	URD Failure	1:44	3:00	1:16	306	387:36:00	654:25:00	0:04:21
7/15/2016	Utilities	13	URD Failure	10:30	13:30	3:00	88	264:00:00	918:25:00	0:06:07
7/15/2016	Dispatch	WR1	URD Failure	21:40	0:00	2:20	21	49:00:00	967:25:00	0:06:27
7/16/2016	Utilities	14	Animal	12:00	13:22	1:22	537	733:54:00	1701:19:00	0:11:20
7/19/2016	Utilities	18	Planned	0:00	5:00	5:00	4	20:00:00	1721:19:00	0:11:28
7/19/2016	Utilities	EA4	HUMAN	16:30	22:30	6:00	3	18:00:00	1739:19:00	0:11:35
7/20/2016	Utilities	13	Unknown	20:00	20:45	0:45	20	15:00:00	1754:19:00	0:11:41
7/27/2016	Utilities	14	URD Failure	8:17	9:30	1:13	120	146:00:00	1900:19:00	0:12:39
7/28/2016	Dispatch	WR1	URD Failure	2:30	5:30	3:00	12	36:00:00	1936:19:00	0:12:54
8/3/2016	Utilities	13	Planned	9:00	10:15	1:15	13	16:15:00	1952:34:00	0:12:57
8/10/2016	Utilities	17	URD Failure	3:10	3:30	0:20	209	69:40:00	2022:14:00	0:13:25
8/10/2016	Utilities	WR1	Planned	9:00	10:20	1:20	8	10:40:00	2032:54:00	0:13:29
8/11/2016	Utilities	WR1	Planned	9:00	11:00	2:00	6	12:00:00	2044:54:00	0:13:34
8/16/2016	Utilities	WR1	URD Failure	12:30	13:00	0:30	80	40:00:00	2084:54:00	0:13:50
9/23/2016	Utilities	18	Planned	9:00	10:25	1:25	3	4:15:00	2089:09:00	0:13:52
10/3/2016	Utilities	WR2	HUMAN	11:00	12:05	1:05	16	17:20:00	2106:29:00	0:13:58
10/22/2016	Utilities	14	HUMAN	10:53	11:52	0:59	539	530:01:00	2636:30:00	0:17:29
10/28/2016	Utilities	WR1	URD Failure	21:20	22:30	1:10	15	17:30:00	2654:00:00	0:17:36
11/2/2016	Utilities	14	URD Failure	17:47	18:40	0:53	129	113:57:00	2767:57:00	0:18:22
11/10/2016	Utilities	17	URD Failure	8:15	12:30	4:15	6	25:30:00	2793:27:00	0:18:32
11/15/2016	Utilities	14	Planned	8:30	9:30	1:00	54	54:00:00	2847:27:00	0:18:53
11/28/2016	Utilities	15	Unknown	6:00	6:45	0:45	25	18:45:00	2866:12:00	0:19:05
11/28/2016	Utilities	15	Unknown	6:00	8:05	2:05	25	52:05:00	2918:17:00	0:19:26
11/28/2016	Utilities	14	URD Failure	10:15	14:15	4:00	6	24:00:00	2942:17:00	0:19:31
12/16/2016	Utilities	13	Tree	9:17	13:00	3:43	13	48:19:00	2990:36:00	0:19:50
12/17/2016	Utilities	13	OH Failure	9:17	10:30	17:00	10	170:00:00	3160:36:00	0:20:58
1/1/2017	Utilities	15	Animal	13:00	13:45	0:45	25	18:45:00	3179:21:00	0:21:05
1/16/2016	Utilities	13	Weather	20:15	23:59	3:44	5	18:40:00	3198:01:00	0:21:13
1/29/2017	Utilities	15	Animal	2:20	3:00	0:40	1145	763:20:00	3961:21:00	0:26:17
1/29/2017	Utilities	15	Animal	2:20	3:15	0:55	131	120:05:00	4081:26:00	0:27:04
1/29/2017	Utilities	15	Animal	2:20	3:40	1:20	72	96:00:00	4177:26:00	0:27:43
1/29/2017	Utilities	15	Animal	2:20	4:30	2:10	527	1141:50:00	5319:16:00	0:35:17
3/6/2017	Utilities	WR1	OH Failure	8:00	9:30	1:30	5	7:30:00	5326:46:00	0:35:20

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 &amp; 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>
			0:01:46					0:01:16			
0:00:17							0:01:25		APRIL	0:00:48	120:04:00
		0:00:13	0:01:52					0:09:29	JUNE	0:00:05	11:45:00
0:01:15	0:06:01							0:24:52			
								0:16:37	JULY	0:00:54	135:00:00
0:10:43			0:14:31								0:00:08
	1:27:42						0:03:16				
					0:05:38						
0:11:15	1:43:58					#REF!					
0:11:50							0:04:37		AUGUST	0:11:04	1017:54:00
				0:20:00							
							0:05:02				
							0:05:29				
							0:07:00		SEPTEMBER	0:00:59	148:35:00
					0:06:50				OCTOBER	0:00:02	4:15:00
	2:42:58							2:11:15			
	2:55:39						0:00:40		NOVEMBER	0:03:45	564:51:00
	3:01:39			0:27:19							
		0:00:50									
	3:04:20	0:02:30									
0:13:35									DECEMBER	0:01:55	288:17:00
0:19:45									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							FEBRUARY	0:14:19	2158:40:00
							0:00:17		MARCH	0:00:03	7:30:00
<b>Circ 13</b>	<b>Circ 14</b>	<b>Circ 15</b>	<b>Circ 16</b>	<b>Circ 17</b>	<b>Circ 18</b>	<b>Circ EA4</b>	<b>Circ WR1</b>	<b>Circ WR2</b>	<b>Total</b>	<b>SAIDI TOTAL</b>	<b>WEATHER</b>
1655	539	1875	1842	209	213	165	1586	961	9045	0:35:20	0:00:15

Twelve Month History	MARCH 2017	
Total # Accounts	9045	
Total # Interruptions	43	
Sum Customer Interruption Durations	5326:46:00	hours:min:sec
# Customers Interrupted	4393	
SAIFI( APPA AVG. = 1.0)	.49	int./cust.
SAIDI ( APPA AVG. = 1:00)	:35	hours:min
CAIDI	1:12	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)

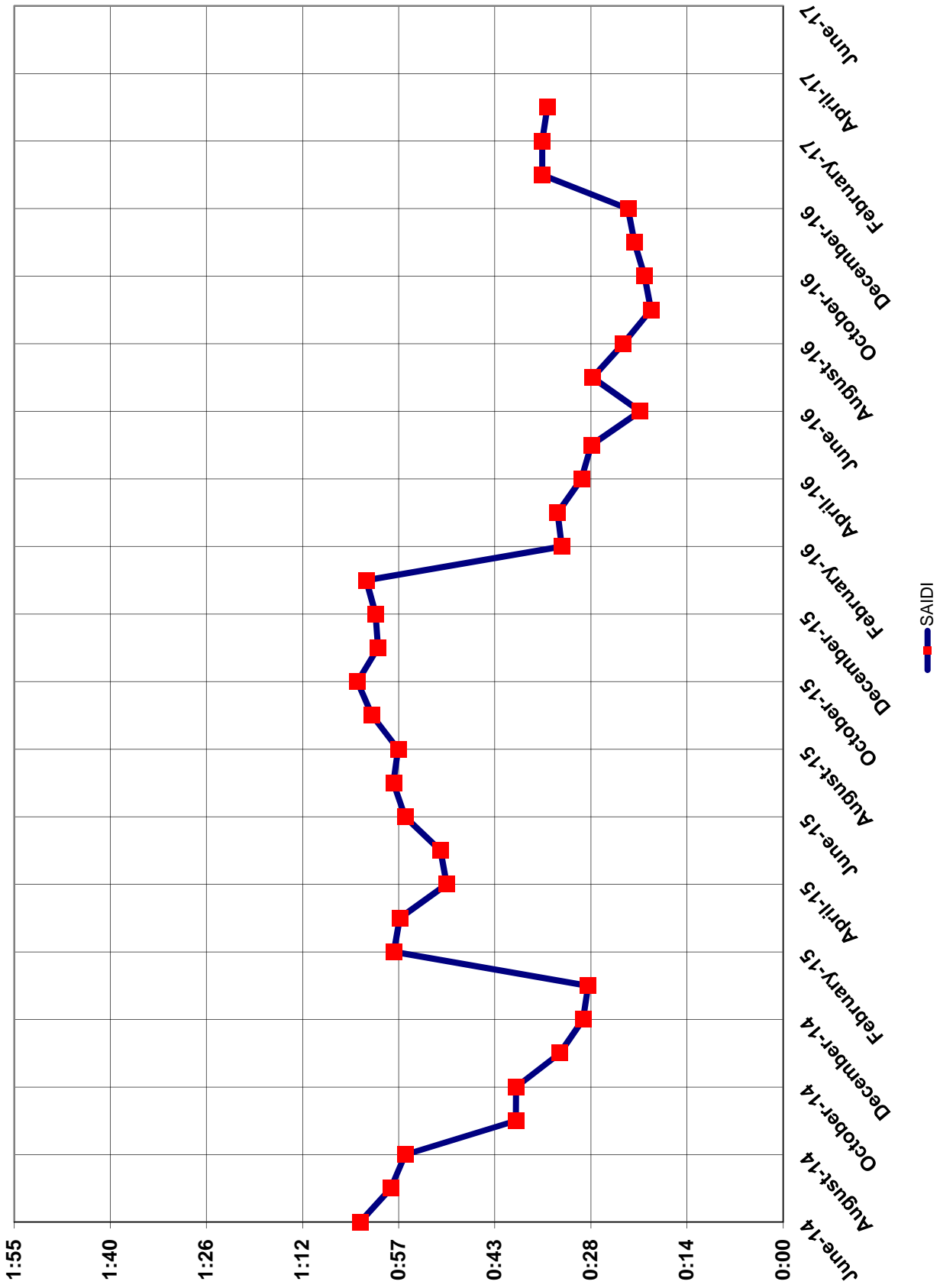
$$\text{CAIDI} = \frac{(\text{Sum of all customer outage durations})}{(\text{Total number of customers interruptions})} = \frac{\text{SAIDI}}{\text{SAIFI}}$$

- **ASAI – Average System Availability Index**

A measure of the average service availability (Per unit)

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

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  
April 3, 2017

<i>Account</i>	<i>Acct Type</i>	<i>Comments</i>	<i>90 - 119</i>	<i>120 +</i>
2032538	RES	Paid \$450.00 on April 3, 2017	167.52	-
2090328	RES	Pay Arrangement with Bob	296.57	-
2053328	COMM	Pay Arrangement with Bob	2,221.69	-
2115448	RES	Paid \$100 April 7, 2017 and has Pay arrangement	223.28	8.59
2016870	RES	Paid \$475.00 on April 2. 2017	223.17	17.38
2009863	RES	Did not pay DT, will turn off 4/11/2017	136.81	133.53
2015796	RES	Paid \$592.62 April 6, 2017	-	375.01
2015796	RES	Paid \$592.62 April 6, 2017	-	375.01
			3,269.04	909.52
			<b>TOTAL \$ 4,178.56</b>	

Los Alamos County Utilities Department  
Receivables More than 60 Days Inactive  
April 3, 2017

<i>YEAR</i>	<i>OUTSTANDING 4/3</i>	<i># OF ACCOUNTS</i>	<i>OUTSTANDING 3/1</i>	<i># OF ACCOUNTS</i>
FY13	16,726.55	73	16,846.55	74
FY14	30,005.15	97	30,005.15	97
FY15	28,453.00	102	28,454.69	103
FY16	23,211.61	137	22,699.80	146
FY17	23,354.22	118	28,746.34	110
<b>TOTAL</b>	<b>\$ 121,750.53</b>	<b>527</b>	<b>\$ 126,752.53</b>	<b>530</b>

# STATUS REPORTS

## SAFETY

