



# California Public Utilities Commission

# ADVICE LETTER



ENERGY UILLIT	OF CALL
MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)	
Company name/CPUC Utility No.: Bear Valley Electric Service, Inc (913-E)	
Utility type:  LC GAS WATER PLC HEAT	Contact Person: Nguyen Quan Phone #: (909) 394-3600 x664 E-mail: RegulatoryAffairs@bvesinc.com E-mail Disposition Notice to: RegulatoryAffairs@bvesinc.com
EXPLANATION OF UTILITY TYPE  ELC = Electric GAS = Gas WATER = Water  PLC = Pipeline HEAT = Heat WATER = Water	(Date Submitted / Received Stamp by CPUC)
Advice Letter (AL) #: 421-E	Tier Designation: 1
Subject of AL: Q1 2021 BVES Quarterly WMP Safety Report Pursuant to Public Utilities Code Section 8389(e)(7)  Keywords (choose from CPUC listing): Compliance	
AL Type: Monthly Quarterly Annual One-Time Other:	
If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: PUC 8389(e)(7)	
Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: $_{ m No}$	
Summarize differences between the AL and the prior withdrawn or rejected AL:	
Confidential treatment requested? Yes Vo	
If yes, specification of confidential information: Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:	
Resolution required? Yes V No	
Requested effective date: 5/3/21	No. of tariff sheets: $_{ m 0}$
Estimated system annual revenue effect (%):	
Estimated system average rate effect (%):	
When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).	
Tariff schedules affected:	
Service affected and changes proposed <sup>1:</sup>	
Pending advice letters that revise the same tariff sheets:	

# Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

CPUC, Energy Division Attention: Tariff Unit 505 Van Ness Avenue San Francisco, CA 94102

Email: EDTariffUnit@cpuc.ca.gov

Name: Nguyen Quan

Title: Regulatory Affairs Manager

Utility Name: Bear Valley Electric Service, Inc

Address: 630 E. Foothill Blvd

City: San Dimas State: California

Telephone (xxx) xxx-xxxx: (909) 394-3600 x664

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Email: RegulatoryAffairs@bvesinc.com; nquan@gswater.com

Name: Zeng Zhu Title: Rate Analyst

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May 3, 2021

Advice Letter No. 421-E

(U 913 E)

# **California Public Utilities Commission**

Bear Valley Electric Service, Inc. ("BVES") hereby transmits for filing the following:

**SUBJECT:** Q1 2021 BVES Quarterly WMP Safety Report Pursuant to Public Utilities Code Section 8389(e)(7).

### **PURPOSE**

Pursuant to requirements of Public Utilities Code ("PUC") Section 8389(e)(7), which were added to the Public Utilities Code by Assembly Bill ("AB") 1054 on July 12, 2019, and the February 16, 2021 issuance of the Wildfire Safety Division ("WSD") Compliance Operational Protocols, BVES submits to the California Public Utilities Commission ("Commission") this advice letter ("AL").

Statutory provision requires that BVES file a Tier 1 AL "on a quarterly basis that details the implementation of both its approved wildfire mitigation plan and recommendations of the most recent safety culture assessment, and a statement of recommendations of the board of director's safety committee meetings that occurred during the quarter." Section 8389(e)(7) also requires that the AL "shall summarize the implementation of safety committee recommendations from the electrical corporation's previous advice letter filing".¹

This advice letter is to report BVES's 2021 Q1 Wildfire Mitigation Plan ("WMP") activities, recorded Safety Committee meetings, and recommendations of the most recent safety culture assessment.<sup>2</sup>

This advice letter is BVES's first quarterly filing for calendar year 2021.

# **BACKGROUND**

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<sup>&</sup>lt;sup>1</sup> BVES filed its AL 411-E "Q4 2020 BVES Quarterly WMP Safety Report Pursuant to Public Utilities Code Section 8389(e)(7)" on February 9, 2021 prior to the release of the final Compliance Operational Protocols, which sets forth the guidance on the contents, format, and timing of the compliance reporting to the WSD.

<sup>&</sup>lt;sup>2</sup> BVES reported no Safety Committee meetings within Q4 2020 and no safety culture assessment recommendations to be implemented as summarized in this AL.

Governor Newsom signed AB 1054 into law on July 12, 2019. AB 1054 contains numerous statutory provisions and amendments designed to enhance the mitigation and prevention of catastrophic wildfires – including wildfires linked to utility equipment – in California. AB 1054 added Section 8389 to the PUC. Section 8389(e) establishes the requirements for annual safety certifications and, inter alia, requires electrical corporations to establish a safety committee of its board of directors composed of members with relevant safety experience, establish board-of-director-level reporting to the Commission on safety issues, and file quarterly Tier 1 ALs as described above.

### IMPLEMENTATION OF BVES'S WILDFIRE MITIGATION PLAN

To support continued implementation and improvement of the WMP, BVES continues to track 33 progress and outcome-based metrics in addition to the quarterly data templatized and standardized by the WSD.<sup>3</sup> Through quantitative and qualitative unit measurements, BVES has detailed progress updates in a summary presentation included at the end of this AL. The quarterly initiative summary presentation includes information submitted to the WSD under the Quarterly Initiative Update ("QIU") and the Quarterly Data Report ("QDR") filings for Q1 2021.

In Attachment A, BVES provides an initiative summary of progress for individual mitigation measures within the first quarter of 2021.

# Implementation of BVES's Most Recent Safety Culture Assessment

BVES has not yet undergone a safety culture assessment.<sup>4</sup> Once BVES's safety culture assessment is completed, BVES will include implementation information in future quarterly ALs. Currently, BVES staff are scheduled to complete the Safety Culture Assessment surveys during the period of May 12, 2021 to May 26, 2021.

# **Safety & Operations Committee Meeting**

The BVES Safety and Operations Committee met on January 28, 2021. The Committee was provided a briefing on current safety items at BVES including safety performance outcome metrics, Safety Culture Assessment guidance issued by WSD on January 22, 2021, and an update on the status of executing BVES's 2020 WMP programs and projects. The Board discussed the 2020 WMP update of programs and projects, asked questions, which Paul Marconi (BVES President and Treasurer) addressed. Based on the information briefed, the Committee did not see the need to adjust any of the programs or projects.

Mr. Marconi presented the Committee a summary of each deficiency identified in *Resolution Ratifying Action of the Wildfire Safety Division on Bear Valley Electric Service, Inc.'s* 2020 *Wildfire Mitigation Plan Refile* pursuant to PUC Section 8386 (Resolution WSD-013) of January 14, 2021. Mr. Marconi reviewed each deficiency, its classification, conditions to clear, and actions implemented by BVES to satisfy the conditions. The

<sup>&</sup>lt;sup>3</sup> Table 3 of BVES's QDR filings.

<sup>&</sup>lt;sup>4</sup> Resolution WSD-011.

Committee discussed the deficiencies and actions taken to satisfy the conditions requested by WSD, asked questions, which Mr. Marconi addressed, and, based on the information briefed, the Board did not see the need to adjust any of actions being taken to satisfy the conditions.

Mr. Marconi presented BVES's proposed programs and projects that will be included in its 2021 WMP update to the WSD. The Board discussed the proposed programs and projects to be included in the 2021 WMP update, asked questions, which Mr. Marconi addressed, and, based on the information briefed, the Board did not see the need to alter any of proposed programs and projects.

Mr. Marconi also provided a description of each WMP capital project that would require additional capital investment. Mr. Marconi recommended the Committee approve a draft resolution provided to the Committee for the purpose of recommending that the Board approve additional capital expenditures to support WMP projects in 2021. The Committee discussed the resolution and unanimously approved the resolution. The BVES Board of Directors later approved the resolution on January 28, 2021.

# **COMPLIANCE**

This advice letter requests approval in compliance with Public Utilities Code Section 8389(e)(7).

### **ATTACHMENT**

Attachment A: WMP QAL Initiative Report Q1 2021.

### TIER DESIGNATION

This advice letter is submitted with a Tier 1 designation.

### **EFFECTIVE DATE**

BVES respectfully requests this advice letter becomes effective on May 3, 2021.5

### NOTICE AND PROTESTS

A protest is a document objecting to the granting in whole or in part of the authority sought in this advice letter. A response is a document that does not object to the authority sought, but nevertheless presents information that the party tendering the response believes would be useful to the CPUC in acting on the request.

A protest must be mailed within 20 days of the date the CPUC accepts the advice letter for filing. The Calendar is available on the CPUC's website at www.cpuc.ca.gov.

A protest must state the facts constituting the grounds for the protest, the effect that

<sup>&</sup>lt;sup>5</sup> The QAL submission date falls on a weekend (May 1, 2021) and BVES is filing this AL on the following business day pursuant to the WSD Compliance Operational Protocols guidelines.

approval of the advice letter might have on the protestant, and the reasons the protestant believes the advice letter, or a part of it, is not justified. If the protest requests an evidentiary hearing, the protest must state the facts the protestant would present at an evidentiary hearing to support its request for whole or partial denial of the advice letter.

The utility must respond to a protest within five days.

# All protests and responses should be sent to:

California Public Utilities Commission, Energy Division

ATTN: Tariff Unit 505 Van Ness Avenue San Francisco, CA 94102

E-mail: EDTariffUnit@cpuc.ca.gov

Copies should also be mailed to the attention of the Director, Energy Division, Room 4004 (same address above).

Copies of any such protests should be sent to this utility at:

Bear Valley Electric Service, Inc.

ATTN: Nguyen Quan 630 East Foothill Blvd. San Dimas, CA 91773 Fax: 909-394-7427

E-mail: Regulatory Affairs@bvesinc.com

If you have not received a reply to your protest within 10 business days, contact Nguyen Quan at (909) 394-3600 ext. 664.

### **Correspondence:**

Any correspondence regarding this compliance filing should be sent by regular mail or e-mail to the attention of:

Nguyen Quan Manager, Regulatory Affairs Bear Valley Electric Service, Inc. 630 East Foothill Blvd. San Dimas, California 91773

Email: RegulatoryAffairs@bvesinc.com

The protest shall set forth the grounds upon which it is based and shall be submitted expeditiously. There is no restriction on who may file a protest.

Sincerely,

# /s/Zeng Zhu

Zeng Zhu

Rate Analyst, Regulatory Affairs

cc: Edward Randolph, Deputy Executive Director, Energy Division Franz Cheng, Energy Division R. Mark Pocta, California Public Advocates Office BVES General Order 96-B Service List

### BEAR VALLEY ELECTRIC SERVICE, INC.

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# **ATTACHMENT A**

Wildfire Mitigation Plan Quarterly Advice Letter Initiative Report for Q1 2021



# Wildfire Mitigation Plan Quarterly Advice Letter Initiative Report

**Bear Valley Electric Service** 

Q1 2021

# WMP Activity Summary

Not Started Completed/Ongoing Ahead of Plan On Track Off Track Not Currently Scheduled\*

# **5.3.4 - Asset Management & Inspections**

Detailed inspections of distribution electric lines and equipment 5.3.4.1

Detailed inspections of transmission electric lines and equipment 5.3.4.2 Improvement of Inspections 5.3.4.3

Infrared inspections of distribution electric lines and equipment 5.3.4.4

Infrared inspections of transmission electric lines and equipment 5.3.4.5

Intrusive Pole Inspections 5.3.4.6 LiDAR inspections of distribution electric lines and equipment 5.3.4.7

LiDAR inspections of transmission electric lines and equipment 5.3.4.8

Other discretionary inspection of distribution electric lines and equipment, beyond inspections mandated by rules and regulations 5.3.4.9

Other discretionary inspection of transmission electric lines and 5.3.4.10

Patrol inspections of distribution electric lines and equipment 5.3.4.11 Patrol inspections of transmission electric lines and equipment 5.3.4.12 Pole loading assessment program to determine safety factor 5.3.4.13

Quality assurance / quality control of inspections 5.3.4.14

Substation inspections 5.3.4.15

# 5.3.6 - Grid Operations & Operating

Automatic Recloser Operations 5.3.6.1

Protocols for

PSPS Re-

Energization

5.3.6.4

Crew-Accompanying Ignition Prevention and Suppression Resources and Services 5.3.6.2

> PSPS Events and Mitigation of PSPS Impacts 5.3.6.5

and Training in Conditions of Elevated Fire Risk 5.3.6.3

Personnel Work Procedures

Stationed and On-Call Ignition
Prevention and Suppression
Resources and Services
5.3.6.6

# 5.3.1 - Risk Assessment & Mapping

A Summarized Risk Map That Shows the Overall Ignition Probability and Estimated Wildfire Consequence Along the Electric Lines and Equipment 5.3.1.1

Ignition Probability Mapping Showing the Probability of Ignition Along the Electric Lines and Equipment 5.3.1.3 Climate-Driven Risk Map and Modeling Based on Various Relevant Weather Scenarios 5.3.1.2

Initiative Mapping and Estimation of Wildfire and PSPS Risk-Reduction Impact 5.3.1.4

Match Drop Simulations Showing the Potential Wildfire Consequence of Ignitions that Occurs Along the Electric Lines and Equipment 5.3.1.5

# 5.3.7 - Data Governance

Centralized Repository for Data 5.3.7.1 Collaborative Research on Utility Ignition and/or Wildfire 5.3.7.2

Documentation and
Disclosure of WildfireRelated Data and Algorithms
5.3.7.3

Tracking and Analysis of Near Miss Data 5.3.7.4

# 5.3.10 - Stakeholder Cooperation & Community Outreach

Community Engagement 5.3.10.1

Cooperation and best practice sharing with agencies outside CA 5.3.10.2

Cooperation with suppression agencies 5.3.10.3

Forest service and fuel reduction cooperation and joint roadmap 5.3.10.4

# WMP Activity Summary

Pole Loading Infrastructure Hardening and

Replacement Program Based on Pole

**Loading Assessment Program** 

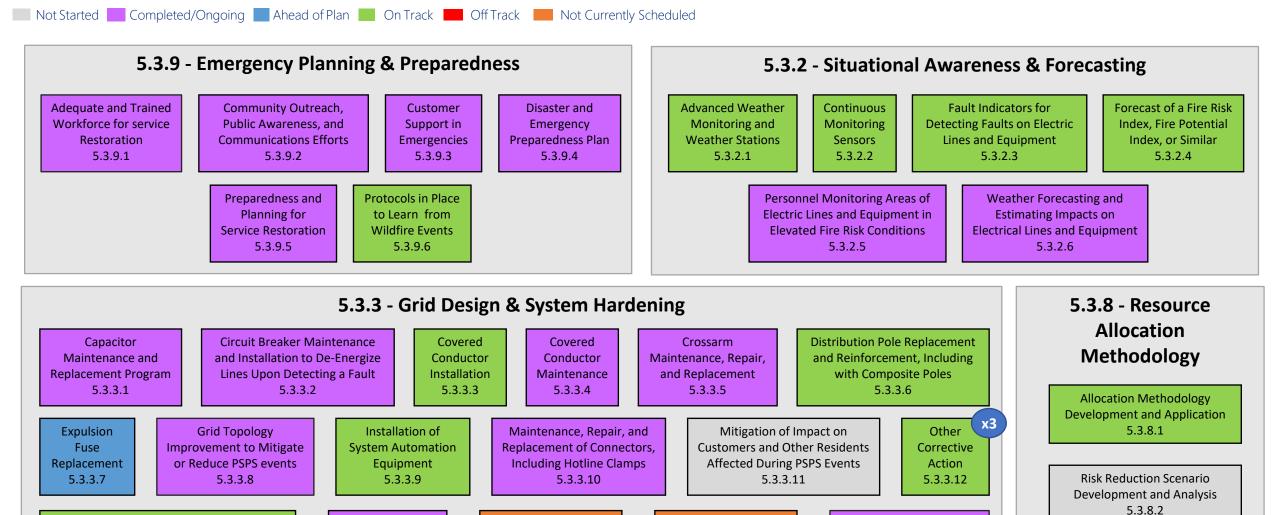
5.3.3.13

Transformers

Maintenance and

Replacement

5.3.3.14



Undergrounding of

Electric Lines and/or

Equipment

5.3.3.16

**Updates to Grid Topology** 

to Minimize Risk of

**Ignition in HFTDs** 

5.3.3.17

Risk Spend Efficiency Analysis

5.3.8.3

**Transmission Tower** 

Maintenance and

Replacement

5.3.3.15

# WMP Activity Summary



# **5.3.5 - Vegetation Management & Inspections**

Additional efforts to manage community and environmental impacts 5.3.5.1

Detailed inspections of vegetation around distribution electric lines and equipment 5.3.5.2

Detailed inspections of vegetation around transmission electric lines and equipment 5.3.5.3

Emergency response vegetation management due to red flag warning or other urgent conditions 5.3.5.4

Fuel management and reduction of "slash" from vegetation management activities 5.3.5.5

Improvement of inspections 5.3.5.6

LiDAR inspections of vegetation around distribution electric lines and equipment 5.3.5.7

LiDAR inspections of vegetation around transmission electric lines and equipment 5.3.5.8

Other discretionary inspections of vegetation around distribution electric lines and equipment 5.3.5.9

Other discretionary inspection of transmission electric lines and 5.3.5.10

Enhanced Vegetation Management Program 5.3.5.11 Patrol inspections of vegetation around transmission electric lines and equipment 5.3.5.12

Quality assurance / quality control of vegetation inspections 5.3.5.13

Recruiting and training of vegetation management personnel 5.3.5.14

Remediation of at-risk species 5.3.5.15 Removal and remediation of trees with strike potential to electric lines and equipment 5.3.5.16

Substation inspection 5.3.5.17

Substation vegetation management 5.3.5.18

Vegetation inventory system 5.3.5.19

Vegetation management to achieve clearances around electric lines and equipment 5.3.5.20

# 5.3.1 - Risk Assessment & Mapping

A Summarized Risk Map That
Shows the Overall Ignition Probability
and Estimated Wildfire Consequence
Along the Electric Lines and
Equipment
5.3.1.1

Ignition Probability & Wildfire Consequence Mapping Project [Primary]

### **Contracted Resources**

Ignition Probability Mapping Showing the Probability of Ignition Along the Electric Lines and Equipment 5.3.1.3

Ignition Probability & Wildfire Consequence Mapping Project

**Contracted Resources** 

Climate-Driven Risk Map and Modeling Based on Various Relevant Weather Scenarios 5.3.1.2

Ignition Probability & Wildfire Consequence Mapping Project

**Contracted Resources** 

Match Drop Simulations Showing the Potential Wildfire Consequence of Ignitions that Occurs Along the Electric Lines and Equipment 5.3.1.5

Ignition Probability & Wildfire Consequence Mapping Project

**Contracted Resources** 

Initiative Mapping and Estimation of Wildfire and PSPS Risk-Reduction Impact

5.3.1.4

Ignition Probability & Wildfire Consequence Mapping Project

**Contracted Resources** 

# **Contracting with Risk Mapping Resource**

**Q1 2021 Goal:** Developed request for support in producing a package of risk mapping products and match drop simulations to accurately identify BVES's ignition risk potential under climate change forecasts. WMP Initiative 5.3.1.1 is the primary for the subtasks included in this category.

**Key Actions:** Developed plan to engage external resources to support BVES's in developing these risk maps.

# **Primary & Secondary Initiative Relationships**

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- WMP Category Initiative Relationship:

• 5.3.1.1 (Primary)

• 5.3.1.2

• 5.3.1.3

• 5.3.1.4

• 5.3.1.5

• 5.3.2.4

• 5.3.8.2

• 5.3.8.3

**Secondary Initiatives** 

# 5.3.7 - Data Governance

Centralized Repository for Data

5.3.7.1

GIS Data Collection & Sharing [Primary]

On Track

# **GIS Data Collection & Sharing Improvements:**

BVES continues to work towards a class leading Data Repository. **Key Actions:** BVES continue to work with its contracted experts to update its GIS database as well as develop a more streamlines method for reporting and sharing of information

Tracking and Analysis of Near Miss Data 5.3.7.4

WMP Metrics Tracking

Ongoing

### **WMP Metrics Tracking:**

BVES has an established program in place and continues to monitor all aspects of the program for compliance. During the period Q1 of 2021 there were no compliance issues identified.

**Key Actions:** BVES recorded necessary metrics for inclusion in quarterly reporting

Not Started Completed/Ongoing Ahead of Plan On Track Off Track

# 5.3.2 - Situational Awareness & Forecasting

Advanced Weather Monitoring and Weather Stations 5.3.2.1

Situational Awareness Hardware Program [Primary]

**On Track** 

Revised Schedule for 2021 Planned Deployment & Additional Installation:

Volume vs 01 2021 Goal: RVES Plans to install 2 weather station

**Volume vs Q1 2021 Goal:** BVES Plans to install 2 weather stations in Q2 of 2021. One of the installations includes revision to install the delayed weather station in 2021 with the newly selected weather station location in mid-2021. All aspects of project are on track for these weather stations to be installed and complete by the close of Q2. **Key Actions:** Currently on track to complete annual targets.

Continuous Monitoring Sensors 5.3.2.2

Situational Awareness Hardware Program

On Track

Fault Indicators for Detecting Faults on Electric Lines and Equipment 5.3.2.3

Situational Awareness Hardware Program

Planned

**Situational Awareness Hardware Program:** 

**Volume vs Q1 2021 Goal:** BVES Plans to install 2 HD Cameras in Q2 of 2021. All aspects of project are on track for these weather stations to be installed and complete by the close of Q2. WMP Initiative 5.3.2.1 is the primary for the subtasks included in this category.

**Key Actions:** Currently on track to complete annual targets.

### **Situational Awareness Hardware Program:**

**Volume vs Q1 2021 Goal:** This is currently a planned program for BVES in 2022. WMP Initiative 5.3.2.1 is the primary for the subtasks included in this category.

**Key Actions:** Currently on track to begin work.

Personnel Monitoring Areas of Electric Lines and Equipment in Elevated Fire Risk Conditions 5.3.2.5

Grid Operations & Protocols
No High-Risk Events
Occurred

### **Grid Operations & Protocol:**

**Q1 2021 Goal:** BVES has established a resource allocation level for the instance where a high fire risk condition occurs. **Key Actions:** BVES currently has the resource pool available to combat high fire risk conditions in its operating area.

# **Situational Awareness Hardware Program**

### **Primary & Secondary Initiative Relationships**

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- WMP Category Initiative Relationship:
  - 5.3.2.1 (Primary)
    - 5.3.2.2
    - 5.3.2.3

Forecast of a Fire Risk Index, Fire Potential Index, or Similar 5.3.2.4

Weather Consultant [Primary]

On Track

Weather Forecasting and
Estimating Impacts on Electrical
Lines and Equipment
5.3.2.6
Weather Consultant

Support Requirement Met **Weather Consultant for Weekly Reporting:** 

**Q1 2021 Goal:** BVES currently has a weather consultant on payroll who supports the weather forecasting and analysis necessary. This is an ongoing engagement and the data the consultant provides is used to update the CPUC and WSD documentation required to maintain compliance.

**Key Actions:** Additional task for quarterly aggregation of High Wind Warning and Red Flag Warning accounts to support Quarterly Data Reports.

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- WMP Category Initiative Relationship:
  - 5.3.2.4 (Primary)
    - 5.3.2.6



# 5.3.3 - Grid Design & System Hardening

Covered Conductor Installation 5.3.3.3

Covered Conductor Replacement Program

On Track for Q2 Objectives

Distribution Pole Replacement and Reinforcement, Including with Composite Poles 5.3.3.6

Pole Loading & Replacement Program
48 Poles Replaced

Expulsive Fuse Replacement 5.3.3.7

Fuse Replacement Program

486 Fuses Replaced 415 Remaining

Installation of System Automation Equipment 5.3.3.9

Grid Automation Program [Primary]
2.5% Reached

Mitigation of Impact on Customers and Other Residents Affected During PSPS Events 5.3.3.11

Energy Storage Project

Planned

12.9 Circuit Miles Planned for 2021 Hardening:

**Volume vs Q1 2021 Goal:** BVES is on track for Q2 execution of 4.3 circuit miles.

**Key Actions:** BVES is currently on track.

33% Patrolled within the Service Area:

**Volume vs Q1 2021 Goal:** 279 poles were assessed in Q1 resulting in 98 failing assessment, 48 being replaced, and one pole being remediated. This initiative is secondary to 5.3.3.13.

**Key Actions:** Currently on track to complete annual targets.

<u>O Conventional Fuses Blown in Q1:</u>
Volume vs Q1 2021 Goal: To date BVES replaced 2,789

conventional expulsion fuses with 2,456 current limiting fuses (non-expulsion fuses) and 333 electronic fuses. BVES reached 108% of its Q1 goal.

**Key Actions:** BVES will replace the remaining 415 conventional fuses by the end of Q2 2021.

**10% Annual Target for Grid Automation:** 

**Volume vs Q1 2021 Goal:** BVES has reached 2.5% of the milestone for this initiative in Q1, which is on track with goals.

**Key Actions:** Currently on track to complete annual targets.

8 MW/ 4 MWh Energy Storage Facility Planned in 2022:

**Q1 2021 Goal:** BVES has began working to select the appropriate site and contracting needs to plan for construction/operation by mid-2022.

Key Actions: BVES is on track with this initiative.

Other Corrective Action 5.3.3.12

Radford Line Replacement
Project

Tree Attachment Removal
Program

3 Evacuation Route Hardening
On Track

Pole Loading Infrastructure
Hardening and Replacement
Program Based on Pole Loading
Assessment Program
5.3.3.13

Pole Loading & Replacement Program [Primary]

**279 Poles Assessed** 

2.82 Circuit Miles Planned for 2021 Hardening:

**Volume vs Q1 2021 Goal:** BVES will begin construction in Q3 contingent with permitting approvals for completion by the end of the year

**Key Actions:** Currently on track to begin Q3 activities.

**Completion Toward 85 Attachment Removals for the Year:** 

**Volume vs Q1 2021 Goal:** BVES identified no tree attachments during patrols in Q1 after a no-construction period. Removals will begin in Q2.

**Key Actions:** BVES plans to remove 200 tree attachments over the year.

79 Poles Hardened on Route:

**Volume vs Q1 2021 Goal:** BVES initiated a pilot program to test fire-resistant solutions to protect wood poles. 79 wood poles were hardening with composite poles and a wire mesh protective coating.

**Key Actions:** Currently on track to begin Q3 activities.

33% Patrolled within the Service Area:

**Volume vs Q1 2021 Goal:** 279 poles were assessed in Q1 resulting in 98 failing assessment, 48 being replaced, and one pole being remediated.

Key Actions: Currently on track to complete annual targets.

Grid Topology Improvement to Mitigate or Reduce PSPS events 5.3.3.8

Grid Topology Improvements
[Primary]

Completed

Updates to Grid Topology to Minimize Risk of Ignition in HFTDs 5.3.3.17

**Grid Topology Improvements** 

Completed

**Grid Topology Improvements - Completed:** 

**Volume vs Q1 2021 Goal:** BVES will install sectionalizing devices as the need is determined. Currently, zero are planned in 2021. WMP Initiative 5.3.3.8 is the primary for the subtasks included in this category.

**Key Actions:** BVES has completed the effort as identified within this WMP cycle.

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- · WMP Category Initiative Relationship:
  - 5.3.3.8 (Primary)
    - 5.3.3.17



# 5.3.3 - Grid Design & System Hardening Initiatives

Capacitor Maintenance and Replacement Program 5.3.3.1

**Complete / Ongoing** 

Crossarm Maintenance, Repair, and Replacement 5.3.3.5

5.3.3.5

Complete / Ongoing

Circuit Breaker Maintenance and Installation to De-Energize Lines Upon Detecting a Fault 5.3.3.2

**Complete / Ongoing** 

Maintenance, Repair, and Replacement of Connectors, Including Hotline Clamps 5.3.3.10

**Complete / Ongoing** 

Covered Conductor Maintenance 5.3.3.4

**Complete / Ongoing** 

Transformers Maintenance and Replacement 5.3.3.14

**Complete / Ongoing** 

### **BVES Maintenance Best Practice:**

The following Grid Design and System Hardening initiatives are covered under ongoing maintenance of subtransmission and distribution facilities and are not separated as unique WMP initiatives.

# 5.3.10 - Stakeholder Cooperation & Community Outreach

Community engagement

5.3.10.1

Community Outreach Program

**In Progress** 

**Community Outreach Program:** 

**Volume vs Q1 2021 Goal:** BVES had planned to conducted at minimum 90 outreach activities. BVES recorded 90 outreach activities 100% of target for Q1. See 5.3.9.2 as the primary WMP initiative.

**Key Actions:** Grizzly Newspaper advertisements are posted during the week (M-F) for either WMP or PSPS and BVES will have 1 advertisement broadcasted each month.

Cooperation and best practice sharing with agencies outside Volume vs Q1 202

CA 5.3.10.2

**Planned** 

**Cooperation and sharing with agencies outside CA:** 

**Volume vs Q1 2021 Goal:** Currently BVES does not participate in cooperation and best practice sharing with agencies outside of CA. BVES plans to have discussion with other agencies within CA to determine how they are approaching this initiative.

**Key Actions:** No actions have currently been taken

Cooperation with suppression agencies 5.3.10.3

**Complete/Ongoing** 

**Cooperation with suppression agencies:** 

**Volume vs Q1 2021 Goal:** Currently BVES does not participate in cooperation with suppression agencies currently. BVES plans to have discussion with suppression agencies and determine if there are additional actions that can be taken to improve their program.

**Key Actions:** No actions have currently been taken

Forest service and fuel reduction cooperation and joint roadmap 5.3.10.4

**Planned** 

**Cooperation with forest service and fuel reduction:** 

**Volume vs Q1 2021 Goal:** Currently BVES does not participate in forest service and fuel reduction cooperation and joint roadmap programs. BVES plans to have discussion with their forest service contacts to determine the applicability of these programs to improve their overall program.

**Key Actions:** No actions have currently been taken

# 5.3.4 - Asset Management & Inspection

Detailed inspections of distribution electric lines and equipment 5.3.4.1

Detailed Inspection Program [Primary]

On Track for Mid-Year Inspection

Infrared inspections of distribution electric lines and equipment 5.3.4.4

On Track for Mid-Year Inspection

Intrusive Pole Inspections
5.3.4.6

Intrusive Pole Inspection Program
Ongoing

LiDAR inspections of distribution electric lines and equipment 5.3.4.7

LiDAR Inspection Program
[Primary]

On Track for Mid-Year Inspection

### **Mid-Year Detailed Inspection Activities**

**Volume vs Q1 2021 Goal:** BVES did not have a quarterly target established for circuit miles inspected over the first quarter in 2021.

**Key Actions:** Currently on track to complete annual targets.

**Mid-Year UAV Inspection Activities** 

**Volume vs Q1 2021 Goal:** BVES did not have a quarterly target established for circuit miles inspected over the first quarter in 2021.

**Key Actions:** Currently on track to complete annual targets.

**On Track for Intrusive Pole Inspections** 

**Volume vs Q1 2021 Goal:** BVES did not schedule any inspections for intrusive poles for Q1 of 2021. 900 Poles are planned for assessment in 2021.

**Key Actions:** This programs efforts occur primarily in Q3 and Q4. Updates will be provided at that time.

**Performed Annually Across the Entire Service Area** 

**Volume vs Q1 2021 Goal:** BVES will begin LiDAR inspections across the service territory in Q3 of 2021.

**Key Actions:** Currently on track to complete annual targets.

Other discretionary inspection of distribution electric lines and equipment, beyond inspections mandated by rules and regulations
5.3.4.9

Third Party Ground Patrol
On Track for Mid-Year
Inspection

Improvement of Inspections
5.3.4.3

**Ongoing Effort** 

**Contracted Third Party Inspection** 

**Volume vs Q1 2021 Goal:** BVES will begin third party patrols across the service territory in Q3 of 2021.

**Key Actions:** Currently on track to complete annual targets.

**Improvement of Inspections:** 

**Key Actions:** BVES is always trying to optimize its inspections and is open to changes/adaptations leading to a better process.

# **LiDAR Inspection Program**

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- WMP Category Initiative Relationship:
  - 5.3.4.7 (Primary)
    - 5.3.5.7



# 5.3.4 - Asset Management & Inspection

Patrol inspections of distribution electric lines and equipment 5.3.4.11

Patrol Inspection Program [Primary]
85 Circuit Miles Inspected

85 Circuit Miles Patrolled within the Service Area

**Volume vs Q1 2021 Goal:** BVES met Q1 targets, inspecting 85 circuit miles across the territory.

**Key Actions:** Currently on track to complete annual targets.

Pole loading assessment program to determine safety factor 5.3.4.13

Pole Loading & Replacement Program

**Assessed 279 Poles** 

**Pole Loading & Replacement** 

**Volume vs Q1 2021 Goal:** BVES met Q1 targets (28%) of the annual program schedule. This initiative is secondary to 5.3.3.13.

**Key Actions:** Currently on track to complete annual targets. 98 poles failed assessment within the quarter. 1 was remediated as a result of the failed assessment and 48 were identified for replacement with steel or composite materials.

**Patrol Inspection Program** 

### **Primary & Secondary Initiative Relationships**

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- WMP Category Initiative Relationship:
  - 5.3.4.11 (Primary)
    - 5.3.5.11

**Pole Loading & Replacement Program** 

# **Primary & Secondary Initiative Relationships**

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- WMP Category Initiative Relationship:
  - 5.3.3.13 (Primary)
    - 5.3.3.6
    - 5.3.4.13

Quality assurance / quality control of inspections 5.3.4.14

**Quality Control of Inspections** 

[Primary]

**Planned** 

**Quality Control for Electrical Inspections Program** 

**Volume vs Q1 2021 Goal:** BVES has not yet established quantitative or qualitative targets for the planned quality control program and therefore, have no quarterly units to report in the Quarterly Advice Letter.

**Key Actions:** Currently on track to discuss framework for formal controls development for internal and third-party inspection patrols.

Substation inspections
5.3.4.15

GO-174 Substation Inspection Program [Primary]

**36 Substations Inspected** 

25% of Substations Inspected

**Volume vs Q1 2021 Goal:** BVES has executed physical inspections of 36 substations within the service area.

**Key Actions:** Currently on track to meet annual targets.

# **GO-174 Substation Inspection Program**

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- WMP Category Initiative Relationship:
  - 5.3.4.15 (Primary)
    - 5.3.5.17



# 5.3.5 - Vegetation Management & Inspection

Detailed inspections of vegetation around distribution electric lines and equipment 5.3.5.2

Detailed Inspection

**Program** 

On Track for Mid-

**Year Inspection** 

**Mid-Year Detailed Inspection Activities** 

**Volume vs Q1 2021 Goal:** BVES did not have a quarterly target established for circuit miles inspected over the first quarter in 2021. **Key Actions:** Currently on track to complete annual targets.

### **Primary & Secondary Initiative Relationships**

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- WMP Category Initiative Relationship:
  - 5.3.4.1 (Primary)
    - 5.3.5.2

Emergency response vegetation management due to red flag warning or other urgent conditions 5.3.5.4

Emergency Preparedness

Emergency Preparednes
& Response Program

Completed

Improvement of inspections 5.3.5.6

**Ongoing** 

# **Emergency Preparedness and Response Program:**

**Volume vs Q1 2021 Goal:** BVES did not record an emergency in Q1 of 2021. This means that the use of the Emergency Preparedness & Response Program was not required. See initiative 5.3.9.4 as the primary.

**Improvement of Inspections:** 

**Key Actions:** BVES is always trying to optimize its inspections and is open to changes/adaptations leading to a better process.

LiDAR inspections of vegetation around distribution electric lines and equipment 5.3.5.7

On Track for Mid-Year Inspection Performed Annually Across the Entire Service Area

**Volume vs Q1 2021 Goal:** BVES will begin LiDAR inspections across the service territory in Q3 of 2021.

**Key Actions:** Currently on track to complete annual targets.

Other discretionary inspections of vegetation around distribution electric lines and equipment 5.3.5.9

UAV & Ground Patrol
Planned

**Mid-Year UAV Inspection Activities** 

**Volume vs Q1 2021 Goal:** BVES did not have a quarterly target established for circuit miles inspected over the first quarter in 2021.

**Key Actions:** Currently on track to complete annual targets.

Patrol inspections of vegetation around distribution electric lines and equipment 5.3.5.11

Patrol Inspection Program
85 Circuit Miles
Inspected

33% Patrolled within the Service Area

**Volume vs Q1 2021 Goal:** BVES met Q1 targets, inspecting 85 circuit miles across the territory.

**Key Actions:** Currently on track to complete annual targets.

Remediation of at-risk species 5.3.5.15

Planned

**Remediation of At-Risk Species:** 

**Key Actions:** BVES and its contractors account for at risk species when doing field work and evaluation. Cycle Breaker vegetation is are an example of what may be recorded.

# 5.3.5 - Vegetation Management & Inspection

Quality assurance / quality control of vegetation inspections 5.3.5.13

**Quality Control of Inspections** 

9 of 18

Recruiting and training of vegetation management personnel 5.3.5.14

Vegetation Management Program Staffing

**Met Targets** 

**Quality Control for Electrical Inspections Program** 

**Volume vs Q1 2021 Goal:** BVES plans to execute 18 audit reviews of vegetation management work per quarter. 9 out of 18 were completed per established targets.

**Key Actions/Remediation:** BVES conducted 9 of the 18 scheduled reviews. BVES will work to meet future quarterly goals for reviewing contractor vegetation management activities.

### **Resource Allocation & Training:**

BVES has an established program in place and continues to monitor all aspects of the program for compliance. During the period Q1 of 2021 there were no compliance issues identified.

**Key Actions:** BVES reviewed staffing program and methodology

Removal and remediation of trees with strike potential to electric lines and equipment

5.3.5.16

Enhanced Vegetation Management Program [Primary]

On Track

Fuel management and reduction of "slash" from vegetation management activities
5.3.5.5

**Enhanced Vegetation Management Program** 

Contractor Meets Requirements Vegetation
management to
achieve clearances
around electric
lines and
equipment
5.3.5.20
Enhanced
Vegetation
Management
Program
Targets Met

Mid-Year Detailed Inspection Activities

**Volume vs Q1 2021 Goal:** BVES did not have a quarterly target established for circuit miles inspected over the first quarter in 2021.

**Key Actions:** Currently on track to complete annual targets.

# Primary & Secondary Initiative Relationships

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- · WMP Category Initiative Relationship:
  - 5.3.4.1 (Primary)
    - 5.3.5.2
    - 5.3.5.20

Substation inspection
5.3.5.17
GO-174 Substation Inspection
Program
Inspected & Cleared

**25% of Substations Inspected** 

**Volume vs Q1 2021 Goal:** BVES has executed physical inspections of 36 substations within the service area. **Key Actions:** Currently on track to meet annual targets.

& Cleared

Substation vegetation management 5.3.5.18

**Vegetation** 

Substation Vegetation Management Inspections & Corrections

Inspected & Cleared Vegetation

25% of Substations Inspected

**Volume vs Q1 2021 Goal:** BVES has executed physical inspections of 36 substations within the service area. **Key Actions:** Currently on track to meet annual targets.

Vegetation inventory system 5.3.5.19

GIS Data Collection & Sharing
Trimmed Trees Logged

### **GIS Data Collection & Sharing:**

**Q1 2021 Goals:** BVES continues to work towards a class leading Data Repository. WMP Initiative 5.3.7.1 is the primary associated with this ongoing inventory scope. **Key Actions:** BVES continue to work with its contracted experts to update its GIS database as well as develop a more streamlines method for reporting and sharing of information.

# 5.3.6 - Grid Operational & Protocols

Automatic Recloser Operations 5.3.6.1 **Grid Automation Program** 

**Completed** 

### <u>Fault Interrupters – IntelliRupters Pulsing Auto Reclosers – Completed Cycle Work:</u>

**Volume vs Q1 2021 Goal:** BVES plans to install S&C's Pulse Closer Fault Interrupters across its major 34 kV system auto-reclosers that was completed in 2020. BVES has installed Fault Indicators (FIs) at key locations to reduce the time it takes to locate faults; thereby, reducing the time to isolate faults from the system or correcting the damage. Prior to the start of the program, BVES had 110 FIs installed in its system at key locations. As part of the WMP, BVES will install an additional 117 FIs at 39 key locations to provide optimal FI coverage in the system in 2022. This initiative is secondary to 5.3.3.9.

Key Actions: BVES has completed the effort as identified within this WMP cycle.

Crew-Accompanying Ignition Prevention and Suppression Resources and Services 5.3.6.2

**Emergency Preparedness & Response Program** 

**No Emergency Events** 

Stationed and On-Call Ignition Prevention and Suppression Resources and Services 5.3.6.5

Emergency Preparedness & Response Program
Ongoing

### **Emergency Preparedness & Response Program:**

BVES has an established program in place. BVES continues to monitor all aspects of the program for compliance. During the period Q1 of 2021 there were no emergency events that would require the use of said program.

**Key Actions:** There were no key actions related to this program in Q1 of 2021

# **Primary & Secondary Initiative Relationships**

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- WMP Category Initiative Relationship:
  - 5.3.9.4 (Primary)
    - 5.3.5.4
    - 53.6.2
    - 5.3.6.6
    - 5.3.9.3
    - 5.3.9.5
    - 5.3.9.6

Personnel Work Procedures and Training in Conditions of Elevated Fire Risk 5.3.6.3

PSPS Program & Procedures

**Ongoing** 

PSPS Events and Mitigation of PSPS Impacts 5.3.6.5

PSPS Program & Procedures
[Primary]

**O PSPS Events** 

Protocols for PSPS Re-Energization 5.3.6.4 PSPS Program & Procedures Established

### **PSPS Program & Procedure:**

BVES has an established program and procedures in place. BVES continues to monitor all aspects of the program for compliance. During the period Q1 of 2021 there were no PSPS events that would require the use of said program.

**Key Actions:** There were no key actions related to the Program as there were no PSPS events

- Associated WMP initiatives that are mapped to a major initiative for cost recovery classification. Some Secondary initiatives may also have separated costs.
- · WMP Category Initiative Relationship:
  - 5.3.6.5 (Primary)
    - 5.3.6.3
    - 5.3.6.4



# 5.3.9 - Emergency Planning & Preparedness

Adequate and Trained
Workforce for Service
Restoration
5.3.9.1
Resource Allocation
Methodology

### **Resource Allocation Methodology:**

BVES has an established program in place and continues to monitor all aspects of the program for compliance. During the period Q1 of 2021 there were no compliance issues identified. See WMP initiative 5.3.8.1 as the primary.

**Key Actions:** Staffing for service restoration was reviewed and declared adequate. In the instance of a service restoration event BVES will review the results and re-evaluate staffing if necessary

# Community Outreach, Public Awareness, and Communications Efforts 5.3.9.2 Community Outreach

Completed

# **Community Outreach Program:**

**Volume vs Q1 2021 Goal:** BVES had planned to conducted at minimum 90 outreach activities. BVES recorded 90 outreach activities 100% of target for Q1. See 5.3.9.2 as the primary WMP initiative.

**Key Actions:** Grizzly Newspaper advertisements are posted during the week (M-F) for either WMP or PSPS and BVES will have 1 advertisement broadcasted each month.

# Disaster and Emergency Preparedness Plan 5.3.9.4

Program [Primary]

**Ongoing** 

Emergency Preparedness & Response Program

[Primary]

# **Established**

Customer Support in
Emergencies
5.3.9.3
Emergency Preparedness
& Response Program

**Established** 

Preparedness and Planning for Service Restoration 5.3.9.5

Emergency Preparedness & Response Program

**Ongoing** 

Protocols in Place to Learn from Wildfire Events 5.3.9.6 Emergency Preparedness

& Response Program

**In Progress** 

# **Emergency Preparedness and Response Program:**

**Volume vs Q1 2021 Goal:** BVES did not record an emergency in Q1 of 2021. This means that the use of the Emergency Preparedness & Response Program was not required. See initiative 5.3.9.4 as the primary.

# 5.3.8 - Resource Allocation Methodology

Allocation Methodology
Development and
Application
5.3.8.1
Resource Allocation

Methodology [Primary]

**Program In Process** 

# **Resource Allocation Methodology [Primary]:**

BVES has an established program in place and continues to monitor all aspects of the program for compliance. During the period Q1 of 2021 there were no compliance issues identified.

**Key Actions:** BVES reviewed staffing program and methodology

Risk Reduction Scenario Development and Analysis 5.3.8.2

Ignition Probability & Wildfire Consequence Mapping Planned

**Contracting with Risk Mapping Resource** 

**Volume vs Q1 2021 Goal:** Developed request for support in producing a package of risk mapping products and match drop simulations to accurately identify BVES's ignition risk potential under climate change forecasts. WMP Initiative 5.3.1.1 is the primary for the subtasks included in this category. **Key Actions:** Developed plan to engage external resources to support BVES's in developing these risk maps.

Risk Spend Efficiency
Analysis
5.3.8.3

Ignition Probability & Wildfire Consequence Mapping

**In Process** 

**Contracting with Risk Mapping Resource** 

**Volume vs Q1 2021 Goal:** Developed request for support in producing a package of risk mapping products and match drop simulations to accurately identify BVES's ignition risk potential under climate change forecasts. WMP Initiative 5.3.1.1 is the primary for the subtasks included in this category. **Key Actions:** Developed plan to engage external resources to support BVES's in developing these risk maps.