



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	Crew-Accompanying Ignition Prevention and Suppression Resources and Services 5.3.6.2	Personnel Work Procedures and Training in Conditions of Elevated Fire Risk 5.3.6.3
Protocols for PSPS Re-Energization 5.3.6.4	PSPS Events and Mitigation of PSPS Impacts 5.3.6.5	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	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
Ignition Probability Mapping Showing the Probability of Ignition Along the Electric Lines and Equipment 5.3.1.3	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 Wildfire-Related Data and Algorithms 5.3.7.3	Tracking and Analysis of Near Miss Data 5.3.7.4
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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
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(*) Not Currently Scheduled – BVES included this Status Icon to indicate where an initiative is not currently identified for this WMP cycle, or, that it is not applicable (BVES does not own or operate assets equal to or greater than 65kV).

WMP Activity Summary

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

5.3.9 - Emergency Planning & Preparedness

Adequate and Trained Workforce for service Restoration 5.3.9.1	Community Outreach, Public Awareness, and Communications Efforts 5.3.9.2	Customer Support in Emergencies 5.3.9.3	Disaster and Emergency Preparedness Plan 5.3.9.4
Preparedness and Planning for Service Restoration 5.3.9.5		Protocols in Place to Learn from Wildfire Events 5.3.9.6	

5.3.2 - Situational Awareness & Forecasting

Advanced Weather Monitoring and Weather Stations 5.3.2.1	Continuous Monitoring Sensors 5.3.2.2	Fault Indicators for Detecting Faults on Electric Lines and Equipment 5.3.2.3	Forecast of a Fire Risk Index, Fire Potential Index, or Similar 5.3.2.4
Personnel Monitoring Areas of Electric Lines and Equipment in Elevated Fire Risk Conditions 5.3.2.5		Weather Forecasting and Estimating Impacts on Electrical Lines and Equipment 5.3.2.6	

5.3.3 - Grid Design & System Hardening

Capacitor Maintenance and Replacement Program 5.3.3.1	Circuit Breaker Maintenance and Installation to De-Energize Lines Upon Detecting a Fault 5.3.3.2	Covered Conductor Installation 5.3.3.3	Covered Conductor Maintenance 5.3.3.4	Crossarm Maintenance, Repair, and Replacement 5.3.3.5	Distribution Pole Replacement and Reinforcement, Including with Composite Poles 5.3.3.6
Expulsion Fuse Replacement 5.3.3.7	Grid Topology Improvement to Mitigate or Reduce PSPS events 5.3.3.8	Installation of System Automation Equipment 5.3.3.9	Maintenance, Repair, and Replacement of Connectors, Including Hotline Clamps 5.3.3.10	Mitigation of Impact on Customers and Other Residents Affected During PSPS Events 5.3.3.11	Other Corrective Action 5.3.3.12
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	Transmission Tower Maintenance and Replacement 5.3.3.15	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	

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5.3.8 - Resource Allocation Methodology

Allocation Methodology Development and Application 5.3.8.1
Risk Reduction Scenario Development and Analysis 5.3.8.2
Risk Spend Efficiency Analysis 5.3.8.3

WMP Activity Summary

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

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

WMP Activities Status vs. WMP Activity Goals

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

WMP Activities Status vs. WMP Activity Goals

5.3.2 - Situational Awareness & Forecasting

<p>Advanced Weather Monitoring and Weather Stations 5.3.2.1 Situational Awareness Hardware Program [Primary] On Track</p>	<p>Revised Schedule for 2021 Planned Deployment & Additional Installation: 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.</p>
<p>Continuous Monitoring Sensors 5.3.2.2 Situational Awareness Hardware Program On Track</p>	<p>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.</p>
<p>Fault Indicators for Detecting Faults on Electric Lines and Equipment 5.3.2.3 Situational Awareness Hardware Program Planned</p>	<p>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.</p>
<p>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</p>	<p>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.</p>

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 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.

Weather Forecasting and Estimating Impacts on Electrical Lines and Equipment
5.3.2.6
Weather Consultant Support Requirement
Met

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:
 - **5.3.2.4 (Primary)**
 - 5.3.2.6

WMP Activities Status vs. WMP Activity Goals

5.3.3 - Grid Design & System Hardening

<p>Covered Conductor Installation 5.3.3.3</p> <p>Covered Conductor Replacement Program</p> <p>On Track for Q2 Objectives</p>	<p>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.</p>	<p>Other Corrective Action 5.3.3.12</p> <p>1 Radford Line Replacement Project</p> <p>2 Tree Attachment Removal Program</p> <p>3 Evacuation Route Hardening On Track</p>	<p>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.</p> <p>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.</p> <p>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.</p>
<p>Distribution Pole Replacement and Reinforcement, Including with Composite Poles 5.3.3.6</p> <p>Pole Loading & Replacement Program</p> <p>48 Poles Replaced</p>	<p>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.</p>	<p>Pole Loading Infrastructure Hardening and Replacement Program Based on Pole Loading Assessment Program 5.3.3.13</p> <p>Pole Loading & Replacement Program [Primary]</p> <p>279 Poles Assessed</p>	<p>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.</p>
<p>Expulsive Fuse Replacement 5.3.3.7</p> <p>Fuse Replacement Program</p> <p>486 Fuses Replaced</p> <p>415 Remaining</p>	<p>0 Conventional Fuses Blown in Q1: 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.</p>	<p>Grid Topology Improvement to Mitigate or Reduce PSPS events 5.3.3.8</p> <p>Grid Topology Improvements [Primary]</p> <p>Completed</p>	<p>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.</p>
<p>Installation of System Automation Equipment 5.3.3.9</p> <p>Grid Automation Program [Primary]</p> <p>2.5% Reached</p>	<p>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.</p>	<p>Updates to Grid Topology to Minimize Risk of Ignition in HFTDs 5.3.3.17</p> <p>Grid Topology Improvements</p> <p>Completed</p>	<p>Primary & Secondary Initiative Relationships</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 5.3.3.8 (Primary) 5.3.3.17
<p>Mitigation of Impact on Customers and Other Residents Affected During PSPS Events 5.3.3.11</p> <p>Energy Storage Project Planned</p>	<p>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.</p>		

WMP Activities Status vs. WMP Activity Goals

5.3.3 - Grid Design & System Hardening Initiatives

<p>Capacitor Maintenance and Replacement Program 5.3.3.1 Complete / Ongoing</p>	<p>Circuit Breaker Maintenance and Installation to De-Energize Lines Upon Detecting a Fault 5.3.3.2 Complete / Ongoing</p>	<p>Covered Conductor Maintenance 5.3.3.4 Complete / Ongoing</p>
<p>Crossarm Maintenance, Repair, and Replacement 5.3.3.5 Complete / Ongoing</p>	<p>Maintenance, Repair, and Replacement of Connectors, Including Hotline Clamps 5.3.3.10 Complete / Ongoing</p>	<p>Transformers Maintenance and Replacement 5.3.3.14 Complete / Ongoing</p>

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 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

Cooperation and best practice sharing with agencies outside 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

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

WMP Activities Status vs. WMP Activity Goals

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

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.

Infrared inspections of distribution electric lines and equipment
5.3.4.4

UAV Thermography Program
On Track for Mid-Year Inspection

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.

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

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
5.3.4.3

Ongoing Effort

Improvement of Inspections:

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

Intrusive Pole Inspections
5.3.4.6

Intrusive Pole Inspection Program
Ongoing

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.

LiDAR inspections of distribution electric lines and equipment
5.3.4.7

LiDAR Inspection Program
[Primary]
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.

LiDAR 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:
 - **5.3.4.7 (Primary)**
 - 5.3.5.7

WMP Activities Status vs. WMP Activity Goals

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.

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 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.

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.

GO-174 Substation 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:
 - **5.3.4.15 (Primary)**
 - 5.3.5.17

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.

WMP Activities Status vs. WMP Activity Goals

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

LiDAR inspections of vegetation around distribution electric lines and equipment
5.3.5.7
LiDAR Inspection Program
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.

Emergency response vegetation management due to red flag warning or other urgent conditions
5.3.5.4
Emergency Preparedness & Response Program
Completed

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
5.3.5.6
Ongoing

Improvement of Inspections:

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

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 an example of what may be recorded.

WMP Activities Status vs. WMP Activity Goals

5.3.5 - Vegetation Management & Inspection

Quality assurance / quality control of vegetation inspections
5.3.5.13
Quality Control of Inspections
9 of 18

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.

Recruiting and training of vegetation management personnel
5.3.5.14
Vegetation Management Program Staffing
Met Targets

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

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

Fuel management and reduction of "slash" from vegetation management activities
5.3.5.5
Enhanced Vegetation Management Program
Contractor Meets Requirements

Substation inspection
5.3.5.17
GO-174 Substation Inspection Program
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.

Substation vegetation management
5.3.5.18
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.

WMP Activities Status vs. WMP Activity Goals

5.3.6 - Grid Operational & Protocols

Automatic Recloser Operations
5.3.6.1
**Grid Automation Program
Completed**

Fault Interrupters – IntelliRupters Pulsing Auto Reclosers – Completed Cycle Work:

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
 - 5.3.6.2
 - 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**

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

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:
 - **5.3.6.5 (Primary)**
 - 5.3.6.3
 - 5.3.6.4

PSPS Events and Mitigation of
PSPS Impacts
5.3.6.5

**PSPS Program & Procedures
[Primary]
0 PSPS Events**

WMP Activities Status vs. WMP Activity Goals

5.3.9 - Emergency Planning & Preparedness

Adequate and Trained Workforce for Service Restoration
5.3.9.1
Resource Allocation Methodology Completed

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 Program [Primary] Ongoing

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
Emergency Preparedness & Response Program [Primary] Established

Preparedness and Planning for Service Restoration
5.3.9.5
Emergency Preparedness & Response Program 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.

Customer Support in Emergencies
5.3.9.3
Emergency Preparedness & Response Program Established

Protocols in Place to Learn from Wildfire Events
5.3.9.6
Emergency Preparedness & Response Program In Progress

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.