

**BEAR VALLEY SERVICE, INC.
DATA REQUEST**

Public Advocates Office Data Request

**No. CalAdvocates-BVES-2025WMP-02
Proceeding: 2025 Wildfire Mitigation Plan Updates**

Date of issuance: Friday, April 12, 2024
Responses due: Wednesday, April 17, 2024

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DATA REQUEST

In BVES' 2025 WMP Update on p. 22, BVES states:

BVES has finalized written QA/QC procedures for the following inspections: Detailed, patrol, UAV thermography, UAV photography/video, LiDAR, intrusive pole, and substation.

Question 1

Please provide BVES' written QA/QC procedures for the above-mentioned inspections.

RESPONSE:

Please refer to:

“GD_25 QAQC Detailed Inspections R0”

“GD_26 QAQC Patrol Inspections R0”

“GD_27 UAV Thermography QAQC Procedures R0”

“GD_28 UAV Photography and Videography QAQC Procedures R0”

“GD_29 LiDAR Inspections QAQC Procedures R0”

“GD_31 Intrusive Pole Inspections QAQC Procedures R0”

“GD_25 QAQC Substation Inspections R0”

Question 2

Does BVES field inspect for the above-mentioned QA/QC checks or is this QA/QC a paperwork review? Please provide an answer for each of the above-mentioned types of inspections.

RESPONSE:

All of the above QA/QC procedures include paperwork documentation. Field Inspections are required for Detailed, Patrol, and Substation Inspections. Field inspections are required to investigate potential findings for UAV thermography, UAV photography, LiDAR, and Intrusive Pole Inspections.

END OF REQUEST



QA/QC Procedures for GD_25 Detailed Inspection

Revision: 00
Effective: 04/14/24

1. PURPOSE AND SCOPE

The purpose of this procedure is to detail BVES's responsibilities, activities and documentation when required to perform GD_25 Detailed Inspections Quality Assurance/Quality Control (QA/QC)

2. Responsibilities and Authorities

The Operations Supervisor is responsible for management of the GD_25 Detailed Inspections.

The BVES Inspector will be conducted the detailed inspections.

The Project Manager will maintain records of the Detailed Inspections.

3. References

BVES Compliance Plan Inspection Procedures for General Order 165, July 1, 2020

GO- 165

BVES Document & Electronic Data Management Policy

4. Record Keeping

All records documenting completion of QA/QC procedures will be maintained in accordance to the Document & Electronic Data Management Policy.

5. QA Procedures

The Utility Engineer & Wildfire Supervisor will review the BVES Inspector background, BVES Compliance Plan Inspection Procedures for General Order 165, and GO-165 on an annual basis and will modify procedures as necessary.

6. QC Procedures

The BVES Inspector will inspect each segment based on the schedule outlined in inspection procedures. Detailed inspections requirements are outlined in the inspection procedures and the inspector will record detailed inspection findings in the iRestore software application. The BVES Inspector Technician will provide feedback to Project Manager on all discrepancies found. Records will be maintained for any corrections required based on detailed inspection.

Revisions



QA/QC Procedures for GD_25 Detailed Inspection

Revision: 00
Effective: 04/14/24

Rev	Issued by	Title	Date	Signed
Rev 0				
Rev 1				
Rev 2				



QA/QC Procedures for GD_26 Patrol Inspections

Revision: 00
Effective: 04/14/24

1. PURPOSE AND SCOPE

The purpose of this procedure is to detail BVES's responsibilities, activities and documentation when required to perform GD_26 Patrol Inspections QA/QC procedures.

2. Responsibilities and Authorities

The Operations Supervisor is responsible for management of the GD_26 Patrol Inspections.

The BVES Inspector will be conducted the detailed inspections.

The Project Manager will maintain records of the Patrol Inspections.

3. References

BVES Compliance Plan Inspection Procedures for General Order 165, July 1, 2020

GO- 165

BVES Document & Electronic Data Management Policy

4. Record Keeping

All records documenting completion of QA/QC procedures will be a maintained in accordance to the Document & Electronic Data Management Policy.

5. QA Procedures

The Utility Engineer & Wildfire Supervisor will review the BVES Inspector background, BVES Compliance Plan Inspection Procedures for General Order 165, and GO-165 on an annual basis and will modify procedures as necessary.

6. QC Procedures

The BVES Inspector will inspect each segment based on the schedule outlined in inspection procedures. Detailed inspections requirements are outlined in the inspection procedures and the inspector will record detailed inspection findings in the iRestore software application. The BVES Inspector Technician will provide feedback to Project Manager on all discrepancies found. Records will be maintained for any corrections required based on detailed inspection.

Revisions



QA/QC Procedures for GD_26 Patrol Inspections

Revision: 00
Effective: 04/14/24

Rev	Issued by	Title	Date	Signed
Rev 0				
Rev 1				
Rev 2				



QA/QC Procedures for GD_27 UAV Thermography

Revision: 00
Effective: 04/14/24

1. PURPOSE AND SCOPE

The purpose of this procedure is to detail BVES's responsibilities, activities and documentation when required to perform GD_27 UAV Thermography Quality Assurance/Quality Control.

2. Responsibilities and Authorities

Wildfire Mitigation and Reliability Engineer is responsible for management of the GD_27 UAV Thermography QA/QC program.

BVES contracted UAV inspection team is responsible for completing the inspection.

BVES Field Inspector is responsible for confirming and remediating any findings.

3. References

UAV Inspection Contract No: 3152 - 000

iRestore Software

GO-95

MyROWkeeper

Document & Electronic Data Management Policy

4. Record Keeping

All records documenting completion of UAV Inspection will be maintained in accordance to the Document & Electronic Data Management Policy.

5. QA Procedures

BVES will annually verify that the personnel conducting the inspections have the proper licensing and training.

BVES will annually verify that the project has all necessary permits for flying.(when applicable)

6. QC Procedures

After the completion of the UAV thermography inspection, all photos will be uploaded into MyROWkeeper along with an Excel sheet with report of findings. Once BVES receives all of the findings, the Wildfire Mitigation and Reliability Engineer will select any potential findings and report them to the BVES field inspector. The field inspector will specify any remediation that is deemed necessary outlined in GO-95 standards.



QA/QC Procedures for GD_27 UAV Thermography

Revision: 00
Effective: 04/14/24

Inspection finding will be recorded in the iRestore software along with an Excel spreadsheet. Discrepancies are tracked by the Wildfire Mitigation and Reliability Engineer. Pass through rates are calculated with the data in the iRestore software and will be reported. If any trends are identified, the Wildfire Mitigation and Reliability Engineer will inform the Utility Manager.

Revisions

Rev	Issued by	Title	Date	Signed
Rev 0				
Rev 1				
Rev 2				



QA/QC Procedures for GD_28 UAV Photography/ Videography

Revision: 00
Effective: 04/14/24

1. PURPOSE AND SCOPE

The purpose of this procedure is to detail BVES's responsibilities, activities and documentation when required to perform GD_28 UAV Photography/Videography Quality Assurance/Quality Control (QA/QC).

2. Responsibilities and Authorities

Wildfire Mitigation and Reliability Engineer is responsible for management of the GD_28 UAV Photography/Videography QA/QC program.

BVES contracted UAV inspection team is responsible for completing the inspection.

BVES Field Inspector is responsible for confirming and remediating any findings.

3. References

UAV Inspection Contract No: 3152 - 000

iRestore Software

GO-95

MyROWkeeper

Document & Electronic Data Management Policy

4. Record Keeping

All records documenting completion of UAV Inspection will be maintained in accordance to the Document & Electronic Data Management Policy.

5. QA Procedures

BVES will annually verify that the personnel conducting the inspections have the proper licensing and training.

BVES will annually verify that the project has all necessary permits for flying.(when applicable)

6. QC Procedures

After the completion of the UAV thermography inspection, all photos will be uploaded into MyROWkeeper along with an Excel sheet with report of findings. Once BVES receives all of the findings, the Wildfire Mitigation and Reliability Engineer will select any questionable findings and report them to the BVES field inspector. The field inspector will specify any remediation that is deemed necessary outlined in GO-95 standards.



QA/QC Procedures for GD_28 UAV Photography/ Videography

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Inspection finding will be recorded in the iRestore software along with an Excel spreadsheet. Discrepancies are tracked by the Wildfire Mitigation and Reliability Engineer. Pass through rates are calculated with the data in the iRestore software and will be reported. If any trends are identified, the Wildfire Mitigation and Reliability Engineer will inform the Utility Manager.

Revisions

Rev	Issued by	Title	Date	Signed
Rev 0				
Rev 1				
Rev 2				



QA/QC Procedures for GD_29 LiDAR Inspections

Revision: 00
Effective: 04/14/24

1. PURPOSE AND SCOPE

The purpose of this procedure is to detail BVES's responsibilities, activities and documentation when required to perform GD_29 LiDAR inspections Quality Assurance/Quality Control (QA/QC).

2. Responsibilities and Authorities

Wildfire Mitigation and Reliability Engineer is responsible for management of the GD_29 LiDAR inspections QA/QC program.

BVES Contracted LiDAR team is responsible for completing the inspection.

BVES Field Inspector is responsible for confirming and remediating any findings.

3. References

LiDAR inspection contract 3079-001

iRestore Software

GO-95

Document & Electronic Data Management Policy

4. Record Keeping

All records documenting completion LiDAR inspections will be maintained in accordance to the Document & Electronic Data Management Policy.

5. QA Procedures

BVES will annually verify that the LiDAR equipment was properly calibrated to industry standards.

BVES will annually verify that when LiDAR is being conducted by a UAV, the personnel have the proper licensing and training.

Records will be maintained

6. QC Procedures

All potential findings will be reported to the Wildfire Mitigation and Reliability Engineer in an Excel and KMZ file provided by the LiDAR contractor. Potential findings will then be verified by the BVES field inspector and then remediated in the proper timeframe outlined in GO-95.

Inspection findings will be recorded in the iRestore software. Discrepancies are tracked by the Wildfire Mitigation and Reliability Engineer. Pass through rates are calculated with the data in the



QA/QC Procedures for GD_29 LiDAR Inspections

Revision: 00
Effective: 04/14/24

iRestore software and will be reported. If any trends are identified, the Wildfire Mitigation and Reliability Engineer will inform the Utility Manager.

Revisions

Rev	Issued by	Title	Date	Signed
Rev 0				
Rev 1				
Rev 2				



QA/QC Procedures for GD_31 Intrusive Pole Inspections

Revision: 00
Effectivity: 04/14/24

1. PURPOSE AND SCOPE

The purpose of this procedure is to detail BVES's responsibilities, activities and documentation when required to perform GD_31 Intrusive Pole Inspections Quality Assurance/Quality Control (QA/QC)

2. Responsibilities and Authorities

BVES contracted Intrusive Pole inspection team is responsible for completing the inspection.

BVES Engineering Department will review all Intrusive pole Inspections.

BVES Field Inspector is responsible for confirming and prioritizing any findings by level.

3. References

Intrusive Pole Inspections Contract Number 3157

iRestore Software

BVES GO 165 Compliance Plan

2020 BVES Intrusive Parameter

Document & Electronic Data Management Policy

4. Record Keeping

All records documenting completion of Intrusive Pole Inspection will be maintained in accordance to the Document & Electronic Data Management Policy.

5. QA Procedures

BVES will annually verify that the contractor and personnel conducting the inspections have the proper licensing, training and equipment calibration.

A review of the Intrusive Pole Inspections will be completed by the Engineering Department.

Records of the review will be maintained.

6. QC Procedures

After the completion of the Intrusive Pole inspection by the contractor, all photos and report will be uploaded into iRestore software along with an Excel sheet with report of findings. Once BVES receives all of the findings, the Electric Distribution Systems Engineer will select any potential findings and report them to the BVES field inspector. The field inspector will prioritize any findings by level 1, 2, or 3.



QA/QC Procedures for GD_31 Intrusive Pole Inspections

Revision: 00
Effectivity: 04/14/24

Inspection finding will be recorded in the iRestore software along with an Excel spreadsheet. Findings are tracked and followed up by the Electric Distribution Systems Engineer to schedule design/replacement and will inform the Utility Engineer and Wildfire Mitigation Supervisor. After finding are resolved, the correction will then be logged into the iRestore application as completed.

Revisions

Rev	Issued To	Title	Date	Signed By
Rev 0				
Rev 1				
Rev 2				



QA/QC Procedures for GD_32 Substation Inspections

Revision: 00
Effective: 04/14/24

1. PURPOSE AND SCOPE

The purpose of this procedure is to detail BVES's responsibilities, activities and documentation when required to perform GD_32 Substation Inspections Quality Assurance/Quality Control (QA/QC).

2. Responsibilities and Authorities

The Operations Supervisor is responsible for management of the GD_32 Substation Inspections. The Substation Technician will be conducted monthly inspections of each substation. The Project Manager will maintain records of the Substation Inspections.

3. References

BVES Operations and Planning Department Policy and Procedure 15: Substation Inspection Program

GO-174

BVES Document & Electronic Data Management Policy

4. Record Keeping

All records documenting completion of QA/QC procedures will be maintained in accordance to the Document & Electronic Data Management Policy.

5. QA Procedures

The Utility Engineer & Wildfire Supervisor will review the Substation Technician background, BVES Procedure 15, and GO-174 on an annual basis and will modify procedures as necessary.

6. QC Procedures

The Substation Technician will inspect each substation on a monthly basis. Inspection produces outlined in BVES Procedure 15 will be followed and the GO-174 inspection spreadsheet will be completed and signed. The spreadsheet will be sent to the Project Manager who will maintain the records for substation inspections. The substation Technician will provide feedback to BVES Operations Supervisor and Utility Engineer & Wildfire Supervisor on all discrepancies found. Records will be maintained for any corrections required for substations.

Revisions



**QA/QC Procedures for GD_32
Substation Inspections**

**Revision: 00
Effective: 04/14/24**

Rev	Issued by	Title	Date	Signed
Rev 0				
Rev 1				
Rev 2				