

# California Department of Transportation

Authorization Criteria:  
Cabinets



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## NOTICE:

**The following AML Criteria(s) are only valid for a select number of contracts which have been identified to participate in the Department Furnished to Contractor Furnished Material Pilot Program.**

**The following AML Criteria may not be used for any other contracts, specifications, or anything else not pertaining to the Pilot Program.**

**For a full list of contracts which are participating in this Pilot Program, please contact Jeff Forrester at [jeff.forester@dot.ca.gov](mailto:jeff.forester@dot.ca.gov). The contract list shall be updated as more contracts are identified to be included in this Pilot Program.**

**Note:** Caltrans reserves the right to remove a product from the Authorized Materials List at any time. Any changes to a product's fit, form, or function may necessitate resubmission and reapproval to remain on the Authorized Materials List.



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## **332LS Cabinets**

### **General:**

The following procedures are required to authorize 332LS cabinet suppliers for inclusion in the Authorized Materials List (AML) for 332LS cabinets. 332LS cabinet to be defined as: Housing 1B, Mounting Cage 1, PDA #2LX, Input File I and J, C11 Harness, C1 Harness #1, C16 Harness, Service, Panel #1, Input Panel #1, Output File #2LX, Output File #1LX 210 Conflict Monitor, 206L Power Supply, 8 heavy duty relays, 2 Model 204 Flasher Relays, and a set of Cabinet Keys as defined in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4.

Each sample test item shall be furnished with an appropriate Cabinet Verification Test Kit. Each test kit shall include all hardware, software, connectors, cables, and test switches/modules necessary to thoroughly test all cabinet components and features. A minimum of One (1) C1, C11 and two C2 wrap-around connectors, wired per these specifications, shall be provided for use with the Diagnostic Test Kit.

Suppliers approved for the Authorized Materials List (AML) will be included for 2 calendar years from the date of approval. If a supplier wishes to remain on the AML after the 2 calendar years, they must complete the Authorized Material List Submittal Form TL-9502 25 work weeks prior to the approval expiration date. If the supplier is again approved, the listing will be extended another 2 calendar years from the end of that expiration date.

### **332LS Authorization Criteria:**

All 332LS cabinets to be used by the State of California Department of Transportation for the Contractor Furnished Traffic Control Equipment Pilot Program shall be on the Caltrans Authorized Material List before incorporation into any preapproved construction project. Prior to submittal, manufacturer shall verify units meet all specifications as listed in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4. Authorization of this material requires the following:

**Note:** Caltrans reserves the right to remove a product from the Authorized Materials List at any time. Any changes to a product's fit, form, or function may necessitate resubmission and reapproval to remain on the Authorized Materials List.

# California Department of Transportation

## Authorization Criteria: Cabinets

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1. Manufacturer/Supplier Provides:
  - 1.1. Completed Authorized Material List Submittal Form TL-9502.
  - 1.2. Product spec sheet.
  - 1.3. Signed Certificate of Compliance.
  - 1.4. Description of Manufacturers Quality Control (QC) Procedures.
    - 1.4.1. Manufacturers are responsible for QC Testing of material and maintaining records of test data.
    - 1.4.2. METS Electrical Testing will review the QC Procedure and accept or reject it.
  - 1.5. Electronic document clearly defining the material Warranty.
    - 1.5.1. Include the length of time the Warranty is good for.
    - 1.5.2. Include the process to resolve Warranty issues.
  - 1.6. One complete material sample unit for each submittal. This sample will remain with METS Electrical Testing for the lifetime of the AML, after which it will be returned to the manufacturer.
  - 1.7. Ship the required reports and sample to the Caltrans' Transportation Laboratory in Sacramento:

California Department of Transportation  
Materials Engineering and Testing Services  
MS #5: Electrical Testing Branch  
5900 Folsom Boulevard  
Sacramento, CA 95819-4612

2. Caltrans will:
  - 2.1. Ensure all required documentation is received.
  - 2.2. Review the technical information.
  - 2.3. Evaluate submitted samples for Compliance with the listed Caltrans Specifications.  
Caltrans testing will verify the functionality, electrical and physical/mechanical performance per the listed specifications.
  - 2.4. Retain sample unit submitted for verification as long as manufacturer remains on the AML.
  - 2.5. Upon evaluation of the submitted technical information and Caltrans test results, Caltrans will issue an acceptance letter valid for two years or a rejection letter.

**Note:** Caltrans reserves the right to remove a product from the Authorized Materials List at any time. Any changes to a product's fit, form, or function may necessitate resubmission and reapproval to remain on the Authorized Materials List.

# California Department of Transportation

## Authorization Criteria: Cabinets

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2.6. Update the Caltrans Authorized Material List, if applicable.

2.7. Request re-submittal of the qualification package from the manufacturer every two years. Re-authorization is required every two years to maintain AML status. The Manufacturer/Supplier is required to provide all submittals listed in the General section.

### **For more information, you may contact the Electrical Testing Branch:**

Tom Pierce at [thomas.pierce@dot.ca.gov](mailto:thomas.pierce@dot.ca.gov)

T. Nguyen at [thong.minh.nguyen@dot.ca.gov](mailto:thong.minh.nguyen@dot.ca.gov)

**Note:** Caltrans reserves the right to remove a product from the Authorized Materials List at any time. Any changes to a product's fit, form, or function may necessitate resubmission and reapproval to remain on the Authorized Materials List.



## 334LS Cabinets

### General:

The following procedures are required to authorize 334LS cabinet suppliers for inclusion in the Authorized Materials List (AML) for 334LS cabinets. 334LS cabinet to be defined as: Housing 1B, Mounting Cage 1, PDA #3LX, Input File I, C1 Harness #2, Service, Panel #1, Input Panel #3, 208 Monitor, 206L Power Supply, one heavy duty relay, and a set of Cabinet Keys as defined in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4.

Each sample test item shall be furnished with an appropriate Cabinet Verification Test Kit. Each test kit shall include all hardware, software, connectors, cables, and test switches/modules necessary to thoroughly test all cabinet components and features. A minimum of One (1) C1, C11 and two C2 wrap-around connectors, wired per these specifications, shall be provided for use with the Diagnostic Test Kit.

Suppliers approved for the Authorized Materials List (AML) will be included for 2 calendar years from the date of approval. If a supplier wishes to remain on the AML after the 2 calendar years, they must complete the Authorized Material List Submittal Form TL-9502 25 work weeks prior to the approval expiration date. If the supplier is again approved, the listing will be extended another 2 calendar years from the end of that expiration date.

### 334LS Authorization Criteria:

All 334LS cabinets to be used by the State of California Department of Transportation for the Contractor Furnished Traffic Control Equipment Pilot Program shall be on the Caltrans Authorized Material List before incorporation into any preapproved construction project. Prior to submittal, manufacturer shall verify units meet all specifications as listed in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4. Authorization of this material requires the following:

**Note:** Caltrans reserves the right to remove a product from the Authorized Materials List at any time. Any changes to a product's fit, form, or function may necessitate resubmission and reapproval to remain on the Authorized Materials List.

# California Department of Transportation

## Authorization Criteria:

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1. Manufacturer/Supplier Provides:
  - 1.1. Completed Authorized Material List Submittal Form TL-9502.
  - 1.2. Product spec sheet.
  - 1.3. Signed Certificate of Compliance.
  - 1.4. Description of Manufacturers Quality Control (QC) Procedures.
    - 1.4.1. Manufacturers are responsible for QC Testing of material and maintaining records of test data.
    - 1.4.2. METS Electrical Testing will review the QC Procedure and accept or reject it.
  - 1.5. Electronic document clearly defining the material Warranty.
    - 1.5.1. Include the length of time the Warranty is good for.
    - 1.5.2. Include the process to resolve Warranty issues.
  - 1.6. One complete material sample unit for each submittal. This sample will remain with METS Electrical Testing for the lifetime of the AML, after which it will be returned to the manufacturer.
  - 1.7. Ship the required reports and sample to the Caltrans' Transportation Laboratory in Sacramento:

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2. Caltrans will:
  - 2.1. Ensure all required documentation is received.
  - 2.2. Review the technical information.
  - 2.3. Evaluate submitted samples for Compliance with the listed Caltrans Specifications.  
Caltrans testing will verify the functionality, electrical and physical/mechanical performance per the listed specifications.
  - 2.4. Retain sample unit submitted for verification as long as manufacturer remains on the AML.
  - 2.5. Upon evaluation of the submitted technical information and Caltrans test results, Caltrans will issue an acceptance letter valid for two years or a rejection letter.

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2.6. Update the Caltrans Authorized Material List, if applicable.

2.7. Request re-submittal of the qualification package from the manufacturer every two years. Re-authorization is required every two years to maintain AML status. The Manufacturer/Supplier is required to provide all submittals listed in the General section.

### **For more information, you may contact the Electrical Testing Branch:**

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T. Nguyen at [thong.minh.nguyen@dot.ca.gov](mailto:thong.minh.nguyen@dot.ca.gov)

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## **336LS Cabinets**

### **General:**

The following procedures are required to authorize 336LS cabinet suppliers for inclusion in the Authorized Materials List (AML) for 336LS cabinets. 336LS cabinet to be defined as: Housing 2, Mounting Cage 2, PDA #2LS, Input File 1, Output File #1LX, C1 Harness #3, Service Panel #2, Input Panel #4, 210 Conflict Monitor, 206LS Power Supply, two Model 204 Flashers, four flash transfer relays, and a set of cabinet keys as defined in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4.

Each sample test item shall be furnished with an appropriate Cabinet Verification Test Kit. Each test kit shall include all hardware, software, connectors, cables, and test switches/modules necessary to thoroughly test all cabinet components and features. A minimum of One (1) C1, C11 and two C2 wrap-around connectors, wired per these specifications, shall be provided for use with the Diagnostic Test Kit.

Suppliers approved for the Authorized Materials List (AML) will be included for 2 calendar years from the date of approval. If a supplier wishes to remain on the AML after the 2 calendar years, they must complete the Authorized Material List Submittal Form TL-9502 25 work weeks prior to the approval expiration date. If the supplier is again approved, the listing will be extended another 2 calendar years from the end of that expiration date.

### **336LS Authorization Criteria:**

All 336LS cabinets to be used by the State of California Department of Transportation for the Contractor Furnished Traffic Control Equipment Pilot Program shall be on the Caltrans Authorized Material List before incorporation into any preapproved construction project. Prior to submittal, manufacturer shall verify units meet all specifications as listed in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4. Authorization of this material requires the following:

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1. Manufacturer/Supplier Provides:
  - 1.1. Completed Authorized Material List Submittal Form TL-9502.
  - 1.2. Product spec sheet.
  - 1.3. Signed Certificate of Compliance.
  - 1.4. Description of Manufacturers Quality Control (QC) Procedures.
    - 1.4.1. Manufacturers are responsible for QC Testing of material and maintaining records of test data.
    - 1.4.2. METS Electrical Testing will review the QC Procedure and accept or reject it.
  - 1.5. Electronic document clearly defining the material Warranty.
    - 1.5.1. Include the length of time the Warranty is good for.
    - 1.5.2. Include the process to resolve Warranty issues.
  - 1.6. One complete material sample unit for each submittal. This sample will remain with METS Electrical Testing for the lifetime of the AML, after which it will be returned to the manufacturer.
  - 1.7. Ship the required reports and sample to the Caltrans' Transportation Laboratory in Sacramento:

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Materials Engineering and Testing Services  
MS #5: Electrical Testing Branch  
5900 Folsom Boulevard  
Sacramento, CA 95819-4612

2. Caltrans will:
  - 2.1. Ensure all required documentation is received.
  - 2.2. Review the technical information.
  - 2.3. Evaluate submitted samples for Compliance with the listed Caltrans Specifications.  
Caltrans testing will verify the functionality, electrical and physical/mechanical performance per the listed specifications.
  - 2.4. Retain sample unit submitted for verification as long as manufacturer remains on the AML.
  - 2.5. Upon evaluation of the submitted technical information and Caltrans test results, Caltrans will issue an acceptance letter valid for two years or a rejection letter.

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2.6. Update the Caltrans Authorized Material List, if applicable.

2.7. Request re-submittal of the qualification package from the manufacturer every two years. Re-authorization is required every two years to maintain AML status. The Manufacturer/Supplier is required to provide all submittals listed in the General section.

### **For more information, you may contact the Electrical Testing Branch:**

Tom Pierce at [thomas.pierce@dot.ca.gov](mailto:thomas.pierce@dot.ca.gov)

T. Nguyen at [thong.minh.nguyen@dot.ca.gov](mailto:thong.minh.nguyen@dot.ca.gov)

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## 342LX Cabinet

### General:

The following procedures are required to authorize 342LX cabinet suppliers for inclusion in the Authorized Materials List (AML) for 342LX cabinets. 342LX cabinet to be defined as: Housing 3, 2 ITS Mounting Cages, PDA #2LX, Input Files I & J, C11 Harness, Output File #2LX (Model 520), Output File #1LX, C1 Harness #1, Service Panel #1, Input Panel #1, C16 Harness, 210 Conflict Monitor, 206E Power Supply, two Model 204 Flashers, four flash transfer relays, with the second Mounting Cage containing 2 Blank Side Panels, 2 Shelves, and a Service/PDA Assembly and a set of Cabinet Keys as defined in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4.

Each sample test item shall be furnished with an appropriate Cabinet Verification Test Kit. Each test kit shall include all hardware, software, connectors, cables, and test switches/modules necessary to thoroughly test all cabinet components and features. A minimum of One (1) C1, C11 and two C2 wrap-around connectors, wired per these specifications, shall be provided for use with the Diagnostic Test Kit.

Suppliers approved for the Authorized Materials List (AML) will be included for 2 calendar years from the date of approval. If a supplier wishes to remain on the AML after the 2 calendar years, they must complete the Authorized Material List Submittal Form TL-9502 25 work weeks prior to the approval expiration date. If the supplier is again approved, the listing will be extended another 2 calendar years from the end of that expiration date.

### 342LX Authorization Criteria:

All 342LX cabinets to be used by the State of California Department of Transportation for the Contractor Furnished Traffic Control Equipment Pilot Program shall be on the Caltrans Authorized Material List before incorporation into any preapproved construction project. Prior to submittal, manufacturer shall verify units meet all specifications as listed in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4. Authorization of this material requires the following:

**Note:** Caltrans reserves the right to remove a product from the Authorized Materials List at any time. Any changes to a product's fit, form, or function may necessitate resubmission and reapproval to remain on the Authorized Materials List.

# California Department of Transportation

## Authorization Criteria:

### Cabinets

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1. Manufacturer/Supplier Provides:
  - 1.1. Completed Authorized Material List Submittal Form TL-9502.
  - 1.2. Product spec sheet.
  - 1.3. Signed Certificate of Compliance.
  - 1.4. Description of Manufacturers Quality Control (QC) Procedures.
    - 1.4.1. Manufacturers are responsible for QC Testing of material and maintaining records of test data.
    - 1.4.2. METS Electrical Testing will review the QC Procedure and accept or reject it.
  - 1.5. Electronic document clearly defining the material Warranty.
    - 1.5.1. Include the length of time the Warranty is good for.
    - 1.5.2. Include the process to resolve Warranty issues.
  - 1.6. One complete material sample unit for each submittal. This sample will remain with METS Electrical Testing for the lifetime of the AML, after which it will be returned to the manufacturer.
  - 1.7. Ship the required reports and sample to the Caltrans' Transportation Laboratory in Sacramento:

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Materials Engineering and Testing Services  
MS #5: Electrical Testing Branch  
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2. Caltrans will:
  - 2.1. Ensure all required documentation is received.
  - 2.2. Review the technical information.
  - 2.3. Evaluate submitted samples for Compliance with the listed Caltrans Specifications.  
Caltrans testing will verify the functionality, electrical and physical/mechanical performance per the listed specifications.
  - 2.4. Retain sample unit submitted for verification as long as manufacturer remains on the AML.
  - 2.5. Upon evaluation of the submitted technical information and Caltrans test results, Caltrans will issue an acceptance letter valid for two years or a rejection letter.

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## Authorization Criteria: Cabinets

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2.6. Update the Caltrans Authorized Material List, if applicable.

2.7. Request re-submittal of the qualification package from the manufacturer every two years. Re-authorization is required every two years to maintain AML status. The Manufacturer/Supplier is required to provide all submittals listed in the General section.

### **For more information, you may contact the Electrical Testing Branch:**

Tom Pierce at [thomas.pierce@dot.ca.gov](mailto:thomas.pierce@dot.ca.gov)

T. Nguyen at [thong.minh.nguyen@dot.ca.gov](mailto:thong.minh.nguyen@dot.ca.gov)

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## **344LX Cabinet**

### **General:**

The following procedures are required to authorize 344LX cabinet suppliers for inclusion in the Authorized Materials List (AML) for 344LX cabinets. 344LX cabinet to be defined as: Housing 3, 2 ITS Mounting Cages, PDA #3LX, Input File I, C1 Harness #2, Service, Panel #1, Input Panel #3, 208 Monitor, 206L Power Supply, One heavy duty relay, with the second housing consisting of 2 Blank Side Panels, 2 Shelves, a Service/PDA Assembly, and a set of Cabinet Keys as defined in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4.

Each sample test item shall be furnished with an appropriate Cabinet Verification Test Kit. Each test kit shall include all hardware, software, connectors, cables, and test switches/modules necessary to thoroughly test all cabinet components and features. A minimum of One (1) C1, C11 and two C2 wrap-around connectors, wired per these specifications, shall be provided for use with the Diagnostic Test Kit.

Suppliers approved for the Authorized Materials List (AML) will be included for 2 calendar years from the date of approval. If a supplier wishes to remain on the AML after the 2 calendar years, they must complete the Authorized Material List Submittal Form TL-9502 25 work weeks prior to the approval expiration date. If the supplier is again approved, the listing will be extended another 2 calendar years from the end of that expiration date.

### **344LX Authorization Criteria:**

All 344LX cabinets to be used by the State of California Department of Transportation for the Contractor Furnished Traffic Control Equipment Pilot Program shall be on the Caltrans Authorized Material List before incorporation into any preapproved construction project. Prior to submittal, manufacturer shall verify units meet all specifications as listed in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4. Authorization of this material requires the following:

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# California Department of Transportation

## Authorization Criteria: Cabinets

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1. Manufacturer/Supplier Provides:
  - 1.1. Completed Authorized Material List Submittal Form TL-9502.
  - 1.2. Product spec sheet.
  - 1.3. Signed Certificate of Compliance.
  - 1.4. Description of Manufacturers Quality Control (QC) Procedures.
    - 1.4.1. Manufacturers are responsible for QC Testing of material and maintaining records of test data.
    - 1.4.2. METS Electrical Testing will review the QC Procedure and accept or reject it.
  - 1.5. Electronic document clearly defining the material Warranty.
    - 1.5.1. Include the length of time the Warranty is good for.
    - 1.5.2. Include the process to resolve Warranty issues.
  - 1.6. One complete material sample unit for each submittal. This sample will remain with METS Electrical Testing for the lifetime of the AML, after which it will be returned to the manufacturer.
  - 1.7. Ship the required reports and sample to the Caltrans' Transportation Laboratory in Sacramento:

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MS #5: Electrical Testing Branch  
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2. Caltrans will:
  - 2.1. Ensure all required documentation is received.
  - 2.2. Review the technical information.
  - 2.3. Evaluate submitted samples for Compliance with the listed Caltrans Specifications.  
Caltrans testing will verify the functionality, electrical and physical/mechanical performance per the listed specifications.
  - 2.4. Retain sample unit submitted for verification as long as manufacturer remains on the AML.
  - 2.5. Upon evaluation of the submitted technical information and Caltrans test results, Caltrans will issue an acceptance letter valid for two years or a rejection letter.

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2.6. Update the Caltrans Authorized Material List, if applicable.

2.7. Request re-submittal of the qualification package from the manufacturer every two years. Re-authorization is required every two years to maintain AML status. The Manufacturer/Supplier is required to provide all submittals listed in the General section.

### **For more information, you may contact the Electrical Testing Branch:**

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# California Department of Transportation

Authorization Criteria:

Cabinets



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## 346LX Cabinet

### General:

The following procedures are required to authorize 346LX cabinet suppliers for inclusion in the Authorized Materials List (AML) for 346LX cabinets. 346LX cabinet to be defined as: Housing 4, 2 ITS Mounting Cages, PDA #2LS, Input File I, Output File #1LX, C1 Harness #3, Service Panel #2, Input Panel #4, 210 Conflict Monitor, 206LS Power Supply, two Model 204 Flashers, four flash transfer relays, and a set of cabinet keys as defined in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4.

Each sample test item shall be furnished with an appropriate Cabinet Verification Test Kit. Each test kit shall include all hardware, software, connectors, cables, and test switches/modules necessary to thoroughly test all cabinet components and features. A minimum of One (1) C1, C11 and two C2 wrap-around connectors, wired per these specifications, shall be provided for use with the Diagnostic Test Kit.

Suppliers approved for the Authorized Materials List (AML) will be included for 2 calendar years from the date of approval. If a supplier wishes to remain on the AML after the 2 calendar years, they must complete the Authorized Material List Submittal Form TL-9502 25 work weeks prior to the approval expiration date. If the supplier is again approved, the listing will be extended another 2 calendar years from the end of that expiration date.

### 346LX Authorization Criteria:

All 346LX cabinets to be used by the State of California Department of Transportation for the Contractor Furnished Traffic Control Equipment Pilot Program shall be on the Caltrans Authorized Material List before incorporation into any preapproved construction project. Prior to submittal, manufacturer shall verify units meet all specifications as listed in TEES 2009 including Errata 1, Errata 2, Errata 3, and Errata 4. Authorization of this material requires the following:

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1. Manufacturer/Supplier Provides:
  - 1.1. Completed Authorized Material List Submittal Form TL-9502.
  - 1.2. Product spec sheet.
  - 1.3. Signed Certificate of Compliance.
  - 1.4. Description of Manufacturers Quality Control (QC) Procedures.
    - 1.4.1. Manufacturers are responsible for QC Testing of material and maintaining records of test data.
    - 1.4.2. METS Electrical Testing will review the QC Procedure and accept or reject it.
  - 1.5. Electronic document clearly defining the material Warranty.
    - 1.5.1. Include the length of time the Warranty is good for.
    - 1.5.2. Include the process to resolve Warranty issues.
  - 1.6. One complete material sample unit for each submittal. This sample will remain with METS Electrical Testing for the lifetime of the AML, after which it will be returned to the manufacturer.
  - 1.7. Ship the required reports and sample to the Caltrans' Transportation Laboratory in Sacramento:

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  - 2.1. Ensure all required documentation is received.
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2.6. Update the Caltrans Authorized Material List, if applicable.

2.7. Request re-submittal of the qualification package from the manufacturer every two years. Re-authorization is required every two years to maintain AML status. The Manufacturer/Supplier is required to provide all submittals listed in the General section.

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