CALIFORNIA ENERGY COMMISSION

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CEC-057 (Revised 1/21)



Notice of Availability Staff Report Acceptance Test Technician Certification Provider Application Amendment Review for National Lighting Contractors Association of America CEC-400-2022-003 Docket 13-ATTCP-01

The National Lighting Contractors Association of America (NLCAA) submitted to the California Energy Commission (CEC) an application amendment on December 15, 2021. NLCAA submitted a revised application amendment to address staff's evaluation for compliance on January 28, 2022. As specified in section 10-103.1(f) of the Building Energy Efficiency Standards (Energy Code), acceptance test technician certification providers (ATTCPs) may submit an amendment to their approved application. Amendments submitted after approval of an ATTCP's application that contain any substantive changes shall be subject to the application review and determination process specified in section 10-103.1(e).

CEC staff evaluated the complete application amendment submitted by NLCAA and has determined that the proposed changes to quality assurance and accountability on-site auditing procedures satisfy the requirements for quality assurance and accountability in section 10-103.1(c)3F of the 2019 Energy Code. Staff recommends approval of the NLCAA's application amendment.

Section 10-103.1(e)3 of the 2019 Energy Code requires the CEC to give all interested persons a copy of staff's evaluation and provide reasonable opportunity for public comment. As such, the CEC is posting a staff report on the review and evaluation of NLCAA's application amendment.

This staff report is available free on the <u>CEC website</u> at https://efiling.energy.ca.gov/GetDocument.aspx?tn=242759&DocumentContentId=76325.

Public Comment

Oral comments will be accepted during the regularly scheduled business meeting on May 11, 2022, when the CEC will consider approving NLCAA's application amendment. Comments at the business meeting may be limited to three minutes per speaker. Any comments may become part of the public record in this proceeding.

Written comments must be submitted by **5:00 p.m. on May 10, 2022**. If you wish to submit comments, please submit them using the <u>e-commenting page</u> at https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=13-ATTCP-01.

Enter your contact information and a comment title describing the subject of your comment(s). Comments may be included in the "Comment Text" box or attached as a downloadable, searchable document consistent with 20 California Code of Regulations section 1208.1. The maximum file size allowed is 10 MB. After a challenge response test used by the system to ensure that responses are generated by a human user and not a computer, click on the "Agree & Submit Your Comment" button to submit the comment to the CEC Docket Unit. Information and comments related to this matter will be available at Docket 13-ATTCP-01, at

https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=13-ATTCP-01.

You are encouraged to use the electronic filing system described above to submit comments. If you are unable to submit electronically, a paper copy of your comments, including the docket number 13-ATTCP-01 and indicating "Acceptance and Training Certification" may be sent to:

Docket Unit
California Energy Commission
Docket No. 13-ATTCP-01
715 P Street, MS-4
Sacramento, CA 95814

Or email them to: docket@energy.ca.gov

Please note that your e-comments, emails, written letters, any attachments and associated contact information (for example, addresses, phone numbers, and email addresses provided in a comment) become part of the viewable public record. Additionally, this information may become available via internet search engines.

Public Participation

The CEC's Public Advisor provides the public with assistance in participating in CEC proceedings. For questions about how to participate or to request interpreting services or other reasonable modification and accommodations to the Public Advisor at publicadvisor@energy.ca.gov or by phone at (916) 957-7910. Requests for interpreting services, modifications, and reasonable accommodations should be made as soon as

possible and at least five days in advance. The CEC will work diligently to meet all requests based on the availability of the service or resource needed.

Direct news media inquiries to (916) 654-4989 or mediaoffice@energy.ca.gov.

Direct questions on the subject matter of this staff report to Daniel Wong at (916) 776-7186 or by e-mail at daniel.wong@energy.ca.gov.







California Energy Commission **STAFF REPORT**

Acceptance Test Technician Certification Provider Application Amendment Review for National Lighting Contractors Association of America

Review of Changes to Quality Assurance Procedures

April 2022 | CEC-400-2022-003

California Energy Commission

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ABSTRACT

As specified in section 10-103.1(f) of the *Building Energy Efficiency Standards* (codified in Title 24, Part 1, of the California Code of Regulations), acceptance test technician certification providers may submit an amendment to their approved application. Amendments submitted after approval of an application that contain any substantive changes are subject to the application review and determination process specified in section 10-103.1(e).

Staff has evaluated the complete amendment application that the National Lighting Contractors Association of America submitted on January 28, 2022, and has determined that the proposed changes to the quality assurance and accountability procedures outlined in the amendment satisfy the requirements in section 10-103.1(c)3F of the *2019 Building Energy Efficiency Standards*. Staff recommends approval of the National Lighting Contractors Association of America amendment application.

Keywords: Nonresidential lighting controls acceptance test technician certification provider, National Lighting Contractors Association of America, lighting controls, acceptance testing, Building Energy Efficiency Standards, application amendment

Wong, Daniel. 2022. *Acceptance Test Technician Certification Provider Application Amendment Review for National Lighting Contractors Association of America*. California Energy Commission. Publication Number: CEC-400-2022-003.

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EXECUTIVE SUMMARY

The acceptance test technician certification provider program addresses training, certification, and oversight of acceptance test technicians, as well as the acceptance test employers. The technicians perform the tests required by California's *Building Energy Efficiency Standards*, and the employers are responsible for the technician's work. Providers are professional organizations that are approved to provide training curricula for technicians and employers, certification procedures, complaint resolution (including disciplinary procedures), quality assurance, and accountability measures. Acceptance testing ensures that installed equipment, controls, and systems in nonresidential buildings operate as required by the *Building Energy Efficiency Standards*.

As specified in section 10-103.1(f) of the *Building Energy Efficiency Standards* (codified in Title 24, Part 1, of the California Code of Regulations), acceptance test technician certification providers may change the conditions of their application by submitting an amendment for approval.

On November 17, 2014, National Lighting Contractors Association of America was approved by the California Energy Commission (CEC) as a nonresidential lighting controls acceptance test technician certification provider. The association submitted an amendment application to the CEC on December 15, 2021. The association submitted a revised amendment application to address staff's evaluation for compliance on January 28, 2022.

According to section 10-103.1(c)3F, a provider must describe in its application to the CEC its procedures for performing randomly selected on-site audits of no less than one percent of each technician's completed acceptance tests. The proposed amendment makes substantive changes to the on-site auditing procedures established in the association's approved application. Amendments that contain any substantive changes are subject to the full application review and determination process specified in section 10-103.1(e).

Staff evaluated the complete amendment application submitted by the National Lighting Contractors Association of America and has determined that the proposed changes to quality assurance on-site auditing procedures outlined in the amendment satisfy the requirements for quality assurance and accountability in section 10-103.1(c)3F of the *2019 Building Energy Efficiency Standards*. Staff recommends that the CEC approve the National Lighting Contractors Association of America's amendment application.

CHAPTER 1: Background

The Acceptance Test Technician Certification Provider Program

The acceptance test technician certification provider (ATTCP) program addresses training, certification, and oversight of acceptance test technicians (ATTs) who perform the acceptance tests required by California's *Building Energy Efficiency Standards* (Energy Code), as well as the acceptance test employers (ATEs) that employ ATTs. ATTCPs are professional organizations that are approved by the California Energy Commission (CEC) to provide training curricula for ATTs and ATEs, certification procedures, complaint resolution (including disciplinary procedures), quality assurance, and accountability measures.

Acceptance testing ensures that installed equipment, controls, and systems in nonresidential buildings operate as required by the Energy Code. The ATTCP program was developed to improve compliance with Energy Code lighting controls and mechanical systems requirements.

Amendment Application Requirements

As specified in section 10-103.1(f) of the Energy Code, ATTCPs may change the conditions of their application by submitting an amendment for approval.

Amendments that contain nonsubstantive changes that do not substantively alter the requirements of the application materials for the ATTCP, ATT, or ATE are reviewed by the executive director for consistency with section 10-103.1. Amendments determined to be consistent with section 10-103.1 are incorporated into the approval as errata.

Amendments that contain substantive changes are subject to the full application review and determination process specified in section 10-103.1(e). Final approval of amendments that contain substantive changes are made by the CEC at a publicly noticed hearing.

National Lighting Contractors Association of America

On November 17, 2014, the National Lighting Contractors Association of America (NLCAA) was approved by the CEC as a nonresidential lighting controls ATTCP. NLCAA is one of two organizations approved by the CEC as a nonresidential lighting controls ATTCP.

NLCAA submitted an amendment application to the CEC on December 15, 2021. Staff identified deficiencies and discrepancies in the application. NLCAA submitted a revised and complete amendment application to address staff's evaluation for compliance on January 28, 2022.

NLCAA's amendment application was submitted under the 2019 Energy Code. The proposed amendments make substantive changes to the quality assurance and accountability procedures established in NLCAA's approved application. The proposed changes are summarized in Chapter 2. The amendment application was evaluated according to the full application review and determination process specified in section 10-103.1(e).

Evaluation Criteria

The amendment application described in detail each of the following compliance elements to provide staff with the necessary means to evaluate the application and the ability of NLCAA to successfully satisfy the regulatory requirements. Staff evaluated the detailed description of the compliance elements based on the Energy Code requirements and incorporation into the existing ATTCP program including ATT and ATE certification procedures, ATT and ATE training procedures, complaint procedures, and quality assurance and accountability procedures.

- 1. The amendment application described the full procedure for conducting quality assurance and accountability on-site audits. This includes how on-site audits will be randomly selected at the minimum rate of one percent of each ATT's completed acceptance tests, how field audits will be conducted by NLCAA inspectors, actions taken for failed on-site audits, and associated complaint procedures per section 10-103.1(c)3Fii and section 10-103.1(c)3D of the 2019 Energy Code.
- 2. The amendment application described how independent oversight of NLCAA's program will be conducted for oversight of certification materials, processes and procedures, and expert review of training curricula. This includes identifying the entity that will conduct the independent oversight per section 10-103.1(c)3F of the 2019 Energy Code.
- 3. The amendment application included a document describing the scope of all changes to the application; reasoning for the changes and potential impact to the ATTCP, ATT and ATE; a replacement copy of the affected sections of the ATTCP application with changes incorporated; and a copy of the affected sections of the ATTCP application showing the changes in underline and strikeout format per the requirements of section 10-103.1(f)1B of the 2019 Energy Code.

Staff has determined that the proposed changes to quality assurance procedures outlined in the amendment satisfy the requirements for quality assurance and accountability in section 10-103.1(c)3F of the 2019 Energy Code. Staff recommends approval of the NLCAA amendment application.

CHAPTER 2: ATTCP Application Amendment Evaluation

Quality Assurance and Accountability Requirements

As specified by section 10-103.1(c)3F, an ATTCP must describe in its application to the CEC its procedures for conducting quality assurance and accountability activities. An ATTCP must review a random sample of no less than one percent of each ATT's completed compliance forms and must perform randomly selected on-site audits of no less than one percent of each ATT's completed acceptance tests.

In its application, NLCAA established a field inspection process that meets this minimum requirement. The field inspection process consists of a randomly selected building site visit during which the ATT performing acceptance testing is observed and interviewed by an approved NLCAA inspector. The ATT must be on-site during the inspection.

After notifying the ATE and/or ATT that a random field inspection is required for their next project, an NLCAA inspector accompanies the ATT to a job site to observe the ATT, acceptance testing methods, and verify that acceptance tests are completed and that the results are accurate. The NLCAA inspector completes a field inspection checklist to document the results of the inspection.

In addition to randomly selected on-site field inspections, NLCAA also requires a field inspection to be conducted between the ATT's 2nd to 5th job after being newly certified as an ATT, and between the ATT's 1st to 25th job after being recertified for a new Energy Code.¹ These additional quality assurance on-site audits exceed the minimum requirement, however, are not required by the Energy Code.

Proposed Application Amendment

The proposed amendment adds a field audit process in addition to the existing field inspection process. The field audit process consists of a randomly selected building site visit by an NLCAA approved inspector after acceptance testing has been completed by the ATT. The inspector verifies acceptance tests have been completed and verifies the accuracy of acceptance tests by comparing on-site testing results to the documented results submitted by the ATT. The NLCAA inspector completes a field audit checklist to document the results of the audit.

The field audit process is similar to the field inspection process. The key difference is that the field audit is conducted after the acceptance testing has been completed by the ATT. The inspector will provide similar verification of acceptance testing and verify that documented acceptance testing results match the conditions on-site. The inspector does not observe the ATT while performing acceptance testing. NLCAA permits and encourages ATTs to be on-site during the audit, however, it is not required.

¹ Per section 10-103.1(c)3Bvi, An ATTCP shall recertify all ATTs prior to the implementation of each adopted update to the Energy Code when these updates affect the acceptance test requirements. Recertification requirements and procedures only apply to those specific elements that are new or modified in future updates to the Energy Code.

At NLCAA's discretion, field inspections can be conducted in lieu of a field audit or as disciplinary action from a failed oversight process. Field inspections may also be requested by an ATT or ATE as an alternative to the field inspection.

NLCAA will charge \$500 for conducting a field audit. This is consistent with the charge for a field inspection.

The timing of the quality assurance on-site audit for ATT recertification has also been revised. This audit will be conducted between an ATT's 1st to 4th job after being recertified for a new Energy Code instead of between the 1st to 25th job after recertification. In the field inspection process, NLCAA must schedule and coordinate the field inspection with the ATT which requires a longer timeframe. With the field audit process, scheduling of the audit can be done in a shorter timeframe.

All other procedures related to quality assurance and accountability procedures remain unchanged. NLCAA will continue to review a random sample of no less than one percent of each ATT's completed compliance forms and perform randomly selected on-site field audits at a rate of one percent of an ATT's completed acceptance tests. Independent oversight of certification materials, processes and procedures, and training curricula continues to be performed by an independent entity.

Program Impacts

The field inspection process relies on the ATT or ATE to schedule the field inspection with the NLCAA inspector so that the inspector can be on-site with the ATT during the acceptance testing process. NLCAA has stated that this arrangement allows the inspector to provide mentoring and guidance to ATTs while they are conducting acceptance tests, however, it has also led to difficulty scheduling and completing field inspections due to scheduling conflicts and unforeseen health and safety concerns related to COVID-19.

The proposed field audit process resolves potential barriers that may prevent NLCAA from scheduling and completing randomly selected quality assurance audits. NLCAA can conduct a field audit at any time since the ATT is not required to be on-site. NLCAA does not need to rely on the ATT or ATE to coordinate the audit, thus addressing potential scheduling issues. The field audit process also reduces the number of individuals on-site at one time to better comply with COVID-19 protocols that may be in place. In the amendment application, NLCAA requested to retroactively use the proposed field audit process for past due field inspections that have not been able to be completed due to issues described previously.

Field inspections will remain as an alternative option that can be conducted in lieu of field audits at NLCAA's discretion or at the request of an ATT or ATE if desired.

The proposed field audit process will enable NLCAA to continue to perform randomly selected quality assurance on-site audits of no less than one percent of each ATT's completed acceptance tests without negative impact to the ATT, ATE or ATTCP, and while maintaining an equivalent level of oversight to the program.

Staff Assessment

NLCAA's amendment application has been reviewed, and staff has concluded that the proposed amendments satisfy the quality assurance and accountability requirements in section 10-103.1(c)3F of the Energy Code. Staff further found that the amendment application meets the procedural requirements of section 10-103.1(f)1B of the Energy Code. A summary of staff's findings is included in Table 1.

Table 1: Summary of ATTCP Compliance

| Requirement | Amendment Location(s) | Staff Assessment |
|---|--|---------------------|
| Quality Assurance and | NLCAA Amendment #1 Revision 2: | Complies |
| Accountability section 10-103.1(c)3Fii | NLCAA Application to the CEC - Rev 05 - 5/1/19 | |
| | Attachment 4 to NLCAA Application to the CEC | |
| Amendment Process section 10-103.1(f)1B | Appendix 2 to NLCAA Application to the CEC | |
| 10011(1)22 | Appendix 3 to NLCAA Application to the CEC | |

Source: California Energy Commission staff

CHAPTER 3: Staff Recommendations

Under section 10-103.1(f)2 of the 2019 Energy Code, staff has completed its evaluation of the amendment application submitted by NLCAA. Staff has determined that the NLCAA's proposed amendments to quality assurance and accountability procedures comply with the requirements in section 10-103.1(c) of the 2019 Energy Code. Staff recommends that the CEC approve NLCAA's complete amendment application as submitted on January 28, 2022, to be incorporated into NLCAA's ATTCP application.

APPENDIX A: Glossary

| ATE Acceptance test employer | A person or entity who employs an ATT and is certified by an authorized ATTCP. |
|--|--|
| ATT Acceptance test technician | A field technician who is certified by an authorized ATTCP. |
| ATTCP Acceptance test technician certification provider | An agency, organization, or entity approved by the CEC to train and certify acceptance test technicians and acceptance test employers. |
| CEC California Energy Commission | The California Energy Commission is the state's primary energy policy and planning agency. |
| Energy Code Building Energy Efficiency Standards | State regulations contained in Title 24, Parts 1 and 6 of the California Code of regulations and the Reference Appendices. |
| NLCAA National Lighting Contractors Association of America | A CEC-approved ATTCP. |

STATE OF CALIFORNIA

STATE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

EXECUTIVE DIRECTOR RECOMMENDATION TO APPROVE THE NATIONAL LIGHTING CONTRACTORS ASSOCATION OF AMERCIA'S PROPOSED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER AMENDMENT APPLICATION FOR THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS CONCERNING QUALITY ASSURANCE ON-SITE AUDITS

Executive Summary

The National Lighting Contractors Association of America (NLCAA) submitted to the California Energy Commission (CEC) an application amendment on January 28, 2022. As specified in section 10-103.1(f) of the Building Energy Efficiency Standards (Energy Code), acceptance test technician certification providers (ATTCPs) may submit an amendment to their approved application. Amendments submitted after approval of an ATTCP's application that contain any substantive changes shall be subject to the application review and determination process specified in section 10-103.1(e).

As specified in section 10-103.1(e) of the 2019 Energy Code, staff reviewed the proposed amendments to the quality assurance and accountability on-site audit procedures and has determined that the amendments satisfy the requirements of section 10-103.1(c)3F of the 2019 Energy Code. Staff recommends approval of the NLCAA's application amendment.

Staff published a staff report concerning the review and evaluation of NLCAA's proposed amendments on April 25, 2022. A notice of availability informing interested parties that the staff report was available on the CEC's website was transmitted on April 25, 2022. All interested parties have had reasonable time since April 25, 2022 to review the posted information.

After thorough review and consideration of NLCAA's proposed amendments and corresponding staff report, I find that NLCAA's application amendments meet the requirements and procedures required by the 2019 Energy Code, and recommend that the CEC confirm these findings and approve the proposed application amendments.

Background

The ATTCP program addresses training, certification, and oversight of acceptance test technicians (ATTs), as well as the acceptance test employers (ATEs). The technicians perform the tests required by the Energy Code, and the employers are responsible for the technician's work. ATTCPs are professional organizations that are approved to provide training curricula for ATTs and ATEs, certification procedures, complaint resolution (including disciplinary procedures), quality assurance, and accountability

measures. Acceptance testing ensures that installed equipment, controls, and systems in nonresidential buildings operate as required by the Energy Code.

On November 17, 2014, NLCAA was approved by the CEC as a nonresidential lighting controls ATTCP. NLCAA submitted an application amendment to the CEC on December 15, 2021. NLCAA submitted a revised application amendment to address staff's evaluation for compliance on January 28, 2022.

As specified in section 10-103.1(c)3F, a provider must describe in its application to the CEC its procedures for performing randomly selected on-site audits of no less than one percent of each technician's completed acceptance tests. The proposed amendment makes substantive changes to quality assurance and accountability on-site auditing procedures established in the NLCAA's approved application. Amendments that contain any substantive changes are subject to the full application review and determination process specified in section 10-103.1(e).

Summary of the Staff Evaluation

Staff evaluated the complete application amendment submitted by the NLCAA and has determined that the proposed changes to quality assurance and accountability on-site auditing procedures outlined in the amendment satisfy the requirements for quality assurance and accountability in section 10-103.1(c)3F of the 2019 Energy Code. Staff recommends that the CEC approve the NLCAA's amendment application.

Staff has published a staff report on the review and evaluation of NLCAA's proposed amendment in accordance to section 10-103.1(e) of the 2019 Energy Code. A notice of availability was transmitted on April 25, 2022, over the CEC's Building Energy Efficiency Standards listserv to inform interested parties that the staff report was available for public review and comment. The staff report was made available to interested parties on the CEC website at:

https://efiling.energy.ca.gov/GetDocument.aspx?tn=242759&DocumentContentId=7632 5.

Recommendation of the Executive Director

Based upon staff's review and validation of the NLCAA's application amendments, I recommend that the CEC confirm these findings and approve the amendments to NLCAA's application.

This approval authorizes NLCAA to administer the program described in its application as amended, to train, certify, and provide necessary oversight for ATTs and ATEs to perform the lighting controls acceptance tests, as required under the 2019 Energy Code.

Drew Bohan
Executive Director
California Energy Commission

STATE OF CALIFORNIA

STATE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION OF THE CALIFORNIA ENERGY COMMISSION APPROVING THE NATIONAL LIGHTING CONTRACTORS ASSOCATION OF AMERCIA'S PROPOSED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER AMENDMENT APPLICATION FOR THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS CONCERNING QUALITY ASSURANCE ON-SITE AUDITS

WHEREAS, section 10-103.1(f) of the Building Energy Efficiency Standards (codified in Title 24, Part 1, of the California Code of Regulations), permits acceptance test technician certification providers to submit an amendment to their approved application; and

WHEREAS, amendments submitted after approval of an application that contain any substantive changes are subject to the Application Review and Determination process specified in section 10-103.1(e) of the Building Energy Efficiency Standards; and

WHEREAS, the National Lighting Contractors Association of America (NLCAA) submitted a proposed amendment to their approved application on January 28, 2022, which proposes to modify quality assurance and accountability on-site audit procedures; and

WHEREAS, the executive director posted a staff report on April 25, 2022, which evaluated the proposed application amendment, determined that the proposed changes to the quality assurance and accountability on-site audit procedures outlined in it satisfy the requirements in section 10-103.1(c)3Fii of the 2019 Building Energy Efficiency Standards, and recommended approval of NLCAA's proposed amendment; and

WHEREAS, the executive director posted a Notice of Availability concerning NLCAA's amendment and CEC staff's evaluation on April 25, 2022 to Docket #13-ATTCP-01, and provided notice to relevant stakeholders via applicable listservs, for a 15-day public comment period ending May 10, 2022; and

WHEREAS, the executive director provided a written recommendation describing the review and validation of NLCAA's application amendment by CEC staff and recommending approval of NLCAA's application amendment; and

WHEREAS, the CEC has considered the executive director's recommendation, all written comments submitted, oral comments made at today's business meeting, and CEC staff's responses to all comments on this matter.

THEREFORE BE IT RESOLVED, that the CEC finds that the quality assurance and accountability on-site audit procedures proposed by NLCAA meet the requirements in section 10-103.1(c)3Fii of the 2019 Building Energy Efficiency Standards; and

FURTHER BE IT RESOLVED, that the CEC confirms the executive director's determinations, adopts their recommendation, and approves NLCAA's proposed quality assurance and accountability on-site audit procedures as described in its January 28, 2022 application; and

FURTHER BE IT RESOLVED, that the executive director or their designee shall take all steps necessary to implement this resolution.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on May 11, 2022.

| AYE: NAY: ABSENT: ABSTAIN: | | |
|-------------------------------------|---------------------------|--|
| | | |
| | Liza Lopez Secretariat | |