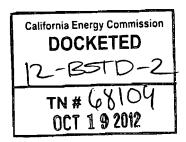
October **b**, 2012

California Energy Commission Attention: Docket No. 12-BSTD-2 Dockets Office 1516 Ninth Street, MS-4 Sacramento, CA 95814



Re: Support for Proposed Non-Residential Acceptance Contractor/Tester Certification

Dear Commissioners:

My name is <u>CASEY SMIThact</u>, I am currently a <u>5th</u> year Apprentice in the HVAC System/Sheet Metal Apprenticeship Program.

I am writing to support the Energy Commission proposal to require Title 24 acceptance tests for nonresidential buildings to be performed by field technicians that have met specific experience, training and certification requirements. Certification will ensure that acceptance testing is correctly performed and will significantly reduce the incidence of HVAC systems being poorly installed and operating below their specified efficiency. Effective testing and adjusting of commercial HVAC systems requires a unique mix of experience, training and competence. Improper installation and inadequate acceptance testing will result in reduced energy efficiency and substandard performance. The TAB organizations identified in the regulation are the only entities that currently provide certification that ensures a technician has the proper experience, knowledge, and competence to properly perform such testing. Since these programs already exist, it simply makes sense to take advantage of what they have to offer. Accordingly, we strongly support the Commission's reliance on certification by these entities.

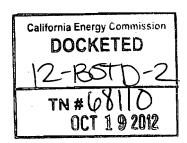
I am concerned that the proposed regulations do not provide rigorous enough prequalification requirements. Training and competency testing must go beyond just teaching a lay person a generic "acceptance test." This is not sufficient to ensure the real world ability to properly test and adjust commercial HVAC systems. Acceptance testing training necessarily builds upon the knowledge and experience base possessed by electrical or mechanical system professionals. No test is going to be able to cover every permutation of commercial HVAC systems as installed in real world situations. Accordingly, most persons without a basic knowledge and experience base in these systems would be unable to effectively apply this training in complex real world situations, even if they were able to successfully pass a classroom test. To ensure effective acceptance testing, it is critical to ensure that acceptance testers have the underlying background and experience in these systems to be able to adjust to the complexities and permutations that a tester will encounter out in the field.

- Post-secondary training in a state-approved or nationally accredited educational program (including the state-certified apprenticeship system; nationally accredited colleges and universities), with the training institutions or types of training institutions identified by the CEC.
- A minimum number of hours of work experience equal to or exceeding the number of hours to meet any contractor licensure, trade journey card, or any other licenses or regulations affecting contractors or workers working in the field.
- Training and competency testing that includes hands on training and testing.



October (6, 2012

California Energy Commission Attention: Docket No. 12-BSTD-2 Dockets Office 1516 Ninth Street, MS-4 Sacramento, CA 95814



Re: Support for Proposed Non-Residential Acceptance Contractor/Tester Certification

Dear Commissioners:

My name is Velin Jahrson, I am currently a 5 year Apprentice in the HVAC System/Sheet Metal Apprenticeship Program.

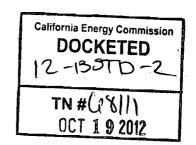
I am writing to support the Energy Commission proposal to require Title 24 acceptance tests for nonresidential buildings to be performed by field technicians that have met specific experience, training and certification requirements. Certification will ensure that acceptance testing is correctly performed and will significantly reduce the incidence of HVAC systems being poorly installed and operating below their specified efficiency. Effective testing and adjusting of commercial HVAC systems requires a unique mix of experience, training and competence. Improper installation and inadequate acceptance testing will result in reduced energy efficiency and substandard performance. The TAB organizations identified in the regulation are the only entities that currently provide certification that ensures a technician has the proper experience, knowledge, and competence to properly perform such testing. Since these programs already exist, it simply makes sense to take advantage of what they have to offer. Accordingly, we strongly support the Commission's reliance on certification by these entities.

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- Training and competency testing that includes hands on training and testing.

October 15, 2012

California Energy Commission Attention: Docket No. 12-BSTD-2 Dockets Office 1516 Ninth Street, MS-4 Sacramento, CA 95814



Re: S	Support 1	for Propose	ed Non-Resid	ential Acceptan	ce Contra	ctor/Tester Certification	
Dear	Commis	ssioners:					
				, I am curre ticeship Progra		year Apprentice in	the

I am submitting these comments in support of the Energy Commission's proposal to require certification of anyone performing Title 24 acceptance testing. The proposed Title 24 energy code update requires sophisticated inspections, but these inspections are useless unless performed by acceptance testers that have the skills, knowledge and ability to competently perform these inspections. Without high quality inspections, the code cannot be enforced, and we will not achieve our energy efficiency goals. I support the concept of taking advantage of the existing certification programs that are offered by NEBB, AABC and TABB. AABC, NEBB and TABB are respected, experienced national organizations that were created specifically to verify that HVAC systems perform as designed. Each of these organizations is accredited under ISO/IEC 17024, the internationally recognized standard for certification bodies. This accreditation ensures that TABB, NEBB and AABC have the existing infrastructure and ability to address the challenges of providing training and certification for Title 24 HVAC acceptance test technicians, supervisors and employers. Because these programs are already established, they have the capability to immediately start providing California acceptance testing certifications, ensuring that the benefits of this proposed regulation are achieved sooner rather than later.

While I support the designation of the specific TAB organizations as Acceptance Test Technician Certification Providers, I am concerned that the requirements for allowing other entities to also become Acceptance Test Technician Certification Providers may not be rigorous enough. Approval of an Acceptance Test Technician Certification Provider should be based on adherence to the following minimum standards:

- The certification body should be tied to an organization that trains for broad occupational competency in building and construction, including in mechanical systems or in lighting systems.
- Certification Providers should be accredited or have demonstrated that the quality of their certification program has been reviewed and assessed by a representative panel of industry experts.

The regulations should also require that any application includes provision of all training and testing procedures, manuals, handbooks and materials and a detailed explanation of how the efficacy of the training curriculum content and methods was evaluated and verified.

October 6, 2012

California Energy Commission Attention: Docket No. 12-BSTD-2 Dockets Office 1516 Ninth Street, MS-4 Sacramento, CA 95814



Re: Support for Proposed Non-Residential Acceptance Contractor/Tester Certification

Dear Commissioners:

My name is Frank Cune, I am an HVAC Journeyperson. I have been in the HVAC System Installation Trade since 1983. I have completed a 4½ year HVAC System/Sheet Metal Apprenticeship program.

I am submitting these comments in support of the Energy Commission's proposal to require certification of anyone performing Title 24 acceptance testing. The proposed Title 24 energy code update requires sophisticated inspections, but these inspections are useless unless performed by acceptance testers that have the skills, knowledge and ability to competently perform these inspections. Without high quality inspections, the code cannot be enforced, and we will not achieve our energy efficiency goals. I support the concept of taking advantage of the existing certification programs that are offered by NEBB, AABC and TABB. AABC, NEBB and TABB are respected, experienced national organizations that were created specifically to verify that HVAC systems perform as designed. Each of these organizations is accredited under ISO/IEC 17024, the internationally recognized standard for certification bodies. This accreditation ensures that TABB, NEBB and AABC have the existing infrastructure and ability to address the challenges of providing training and certification for Title 24 HVAC acceptance test technicians, supervisors and employers. Because these programs are already established, they have the capability to immediately start providing California acceptance testing certifications, ensuring that the benefits of this proposed regulation are achieved sooner rather than later.

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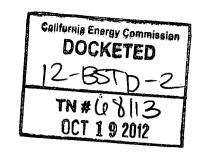
The regulations should also require that any application includes provision of all training and testing procedures, manuals, handbooks and materials and a detailed explanation of how the efficacy of the training curriculum content and methods was evaluated and verified.

Sincerely,

frant 10/16/2012

October , 2012

California Energy Commission Attention: Docket No. 12-BSTD-2 Dockets Office 1516 Ninth Street, MS-4 Sacramento, CA 95814



Re: Support for Proposed Non-Residential Acceptance Contractor/Tester Certification

Dear Commissioners:

My name is Renhua lei, I am currently a 5th year Apprentice in the HVAC System/Sheet Metal Apprenticeship Program.

I am writing to support the Energy Commission proposal to require Title 24 acceptance tests for nonresidential buildings to be performed by field technicians that have met specific experience, training and certification requirements. Certification will ensure that acceptance testing is correctly performed and will significantly reduce the incidence of HVAC systems being poorly installed and operating below their specified efficiency. Effective testing and adjusting of commercial HVAC systems requires a unique mix of experience, training and competence. Improper installation and inadequate acceptance testing will result in reduced energy efficiency and substandard performance. The TAB organizations identified in the regulation are the only entities that currently provide certification that ensures a technician has the proper experience, knowledge, and competence to properly perform such testing. Since these programs already exist, it simply makes sense to take advantage of what they have to offer. Accordingly, we strongly support the Commission's reliance on certification by these entities.

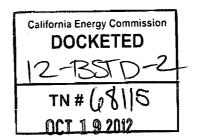
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- Training and competency testing that includes hands on training and testing.

Lenhun ?

October <u>lb</u>, 2012

California Energy Commission Attention: Docket No. 12-BSTD-2 Dockets Office 1516 Ninth Street, MS-4 Sacramento, CA 95814



Re: Support for Proposed Non-Residential Acceptance Contractor/Tester Certification

Dear Commissioners:

My name is Kaywa River, I am an HVAC Journeyperson. I have been in the HVAC System Installation Trade since 2007. I have completed a _______ year HVAC System/Sheet Metal Apprenticeship program.

I am submitting these comments in support of the Energy Commission's proposal to require certification of anyone performing Title 24 acceptance testing. The proposed Title 24 energy code update requires sophisticated inspections, but these inspections are useless unless performed by acceptance testers that have the skills, knowledge and ability to competently perform these inspections. Without high quality inspections, the code cannot be enforced, and we will not achieve our energy efficiency goals. I support the concept of taking advantage of the existing certification programs that are offered by NEBB, AABC and TABB. AABC, NEBB and TABB are respected, experienced national organizations that were created specifically to verify that HVAC systems perform as designed. Each of these organizations is accredited under ISO/IEC 17024, the internationally recognized standard for certification bodies. This accreditation ensures that TABB, NEBB and AABC have the existing infrastructure and ability to address the challenges of providing training and certification for Title 24 HVAC acceptance test technicians, supervisors and employers. Because these programs are already established, they have the capability to immediately start providing California acceptance testing certifications, ensuring that the benefits of this proposed regulation are achieved sooner rather than later.

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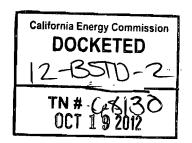
The regulations should also require that any application includes provision of all training and testing procedures, manuals, handbooks and materials and a detailed explanation of how the efficacy of the training curriculum content and methods was evaluated and verified.

Sincerely,

Raymon / Kneis

October, 2012

California Energy Commission Attention: Docket No. 12-BSTD-2 Dockets Office 1516 Ninth Street, MS-4 Sacramento, CA 95814



Re: Support for Proposed Non-Residential Acceptance Contractor/Tester Certification

Dear Commissioners:

My name is ANTONIO DICIZ See I am currently a 5 year Apprentice in the HVAC System/Sheet Metal Apprenticeship Program.

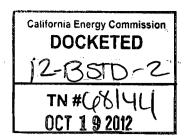
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October 16, 2012

California Energy Commission Attention: Docket No. 12-BSTD-2 Dockets Office 1516 Ninth Street, MS-4 Sacramento, CA 95814



Re: Support for Proposed Non-Residential Acceptance Contractor/Tester Certification

Dear Commissioners:

My name is $\sqrt{\frac{2a\sqrt{a}}{a}}$, I am an HVAC Journeyperson. I have been in the HVAC System Installation Trade since $\sqrt{\frac{2661}{a}}$. I have completed a ______ year HVAC System/Sheet Metal Apprenticeship program.

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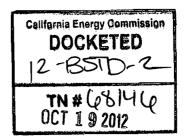
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October , 2012

California Energy Commission Attention: Docket No. 12-BSTD-2 Dockets Office 1516 Ninth Street, MS-4 Sacramento, CA 95814



Re: Support for Proposed Non-Residential Acceptance Contractor/Tester Certification

Dear Commissioners:

My name is <u>David</u> G. FORDAHL. I am an HVAC Journeyperson. I have been in the HVAC System Installation Trade since 1986. I have completed a <u>5</u> year HVAC System/Sheet Metal Apprenticeship program.

I am submitting these comments in support of the Energy Commission's proposal to require certification of anyone performing Title 24 acceptance testing. The proposed Title 24 energy code update requires sophisticated inspections, but these inspections are useless unless performed by acceptance testers that have the skills, knowledge and ability to competently perform these inspections. Without high quality inspections, the code cannot be enforced, and we will not achieve our energy efficiency goals. I support the concept of taking advantage of the existing certification programs that are offered by NEBB, AABC and TABB. AABC, NEBB and TABB are respected, experienced national organizations that were created specifically to verify that HVAC systems perform as designed. Each of these organizations is accredited under ISO/IEC 17024, the internationally recognized standard for certification bodies. This accreditation ensures that TABB, NEBB and AABC have the existing infrastructure and ability to address the challenges of providing training and certification for Title 24 HVAC acceptance test technicians, supervisors and employers. Because these programs are already established. they have the capability to immediately start providing California acceptance testing certifications, ensuring that the benefits of this proposed regulation are achieved sooner rather than later.

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and A. Frdahl

October 16, 2012

California Energy Commission Attention: Docket No. 12-BSTD-2 Dockets Office 1516 Ninth Street, MS-4 Sacramento, CA 95814



Re: Support for Proposed Non-Residential Acceptance Contractor/Tester Certification

Dear Commissioners:

My name is ___(N) ILL WAGNER, I am an HVAC Journeyperson. I have been in the HVAC System Installation Trade since ___() 5__. I have completed a _____ year HVAC System/Sheet Metal Apprenticeship program.

I am submitting these comments in support of the Energy Commission's proposal to require certification of anyone performing Title 24 acceptance testing. The proposed Title 24 energy code update requires sophisticated inspections, but these inspections are useless unless performed by acceptance testers that have the skills, knowledge and ability to competently perform these inspections. Without high quality inspections, the code cannot be enforced, and we will not achieve our energy efficiency goals. I support the concept of taking advantage of the existing certification programs that are offered by NEBB, AABC and TABB. AABC, NEBB and TABB are respected, experienced national organizations that were created specifically to verify that HVAC systems perform as designed. Each of these organizations is accredited under ISO/IEC 17024, the internationally recognized standard for certification bodies. This accreditation ensures that TABB, NEBB and AABC have the existing infrastructure and ability to address the challenges of providing training and certification for Title 24 HVAC acceptance test technicians, supervisors and employers. Because these programs are already established, they have the capability to immediately start providing California acceptance testing certifications, ensuring that the benefits of this proposed regulation are achieved sooner rather than later.

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Sincerely, Will Way