

DOCKETED

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Project Title:	2019 HERS Providers' Application for the 2019 Building Energy Efficiency Standards
TN #:	229500
Document Title:	CalCERTS' Exhibit N - QA Qualifications - Amended 81619
Description:	Qualifications for QA staff
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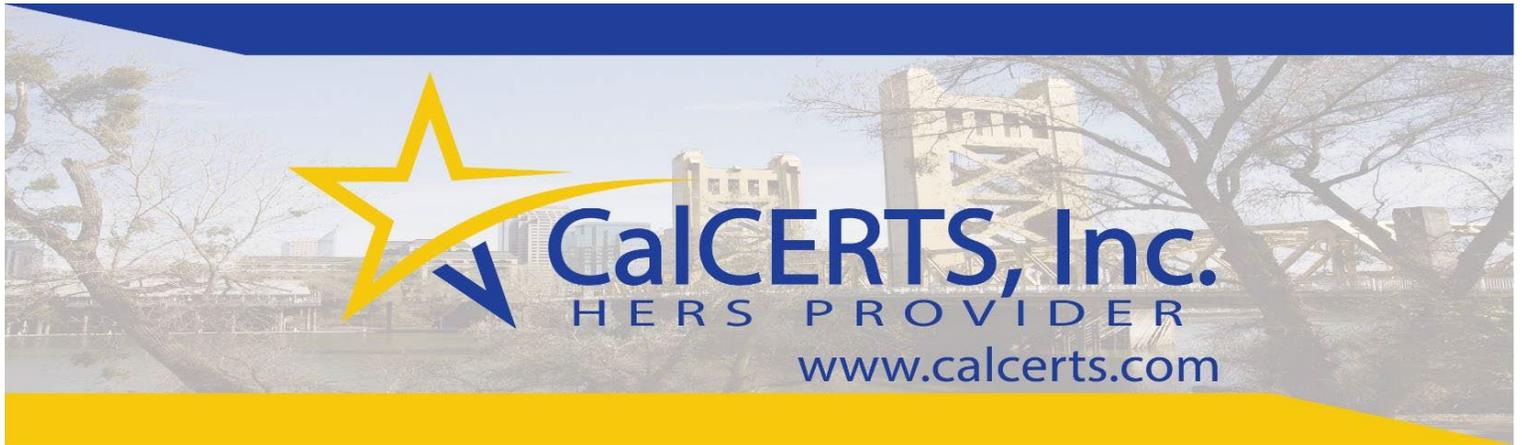


EXHIBIT N

QA Qualifications

Amended 8/16/2019

David Choo
Director of Quality Assurance

QUALIFICATIONS

- Three (3) years of experience with a Title 24 HERS Provider; Quality Assurance Supervisor.
- Nine (9) years of experience in HVAC, HERS Verifications, System Design, and Air Balance.
- Performed thousands of 2005, 2008 and 2013 standards HERS Verifications.
- Strong knowledge of Title 24 HERS field diagnostic testing procedures and regulations.
- Performed 1000+ Quality Assurance Field Reviews.
- CSLB HVAC License C20-1013816
- Lead So. Ca. Instructor for Hands-On testing procedures.
- Successfully educated numerous companies on performance based HVAC Installation.
- Core competencies include: accurate and complete testing, diagnosing and educating.

PROFESSIONAL EXPERIENCE

2016 - Present: CalCERTS Inc., Folsom CA:

Director of Quality Assurance

- Responsible for CalCERTS Home Energy Rating System (HERS) Quality Assurance staff and contractors.
- Integral in developing protocols for QA field reviews, reporting and dispositions.
- Supervisory oversight and training of all Quality Assurance reviewers.
- Actively mentor HERS Raters in response to QA field review results.
- Conduct ICC accredited training for Building Departments and their respective staff.

2010 - 2016: California HERS Rater & Air Balance, Hacienda Heights, CA:

Owner

- Developed training material and conducted training for C20 technicians as well as General Contractors to help them achieve success with a specific focus on *performance based installations*.

2008 - 2012: Best Financial & Investments, Hacienda Heights, CA

Associate Broker and Branch Office Manager

- Managed client investments for property acquisition through Trustee Sales, REO and distressed sales.
- Developed program for repeatable, predictable profits in a focused portfolio of real estate investment.
- Produced over \$10 million in acquisitions and sales of distressed properties.
- Managed general and sub-contractors for all construction work on portfolio properties.

2004 - 2008: Robert Stevens Productions, Manhattan Beach, CA

Photographer, Digital Technician

- Coordinated photography projects for top global advertising firms for all forms of media.
- Directed the hiring, training and auditing of company staff.
- Associate photographer and primary retoucher.

CERTIFICATIONS & LICENSES

- CalCERTS Title 24 HERS Rater #CC2005954
- CSLB HVAC License C20-1013816
- NCI Certified Residential System Performance Technician #16-132-04
- NCI Certified Residential Air Balancer #16-143-05
- NCI Certified Commercial Air Balancer #15-522-08
- NCI Certified Commercial System Performance Technician #16-132-04
- NCI Certified Economizer Specialist #16-167-03
- EPA 608 Certification

W. Russell (Russ) King, M.E.

Senior Director of Technical Services

QUALIFICATIONS

- 20+ years experience in HVAC design, energy consulting, home energy rating systems, code applications, engineering department management, technical training and other related duties.
- Extensive experience training, working with and communicating with HVAC contractors, builders, code enforcement officials, utility personnel, architects, engineers, drafters, salespeople and homeowners.
- Strengths include teaching, technical writing, problem solving, and technical design.

PROFESSIONAL EXPERIENCE

May 2017 to Present: CalCERTS, Inc., Folsom, CA

- **Senior Director of Technical Services:** Responsible for a variety of technical aspects of a State of California approved Home Energy Rating System (HERS) Provider.

July 2014 to May 2017: Benningfield Group, Inc., Folsom, CA

- **Vice President Energy Services:** Manage various consulting and contracts, including energy code training to building departments, utility energy upgrade programs, and code compliance improvement.

March 2005 to July 2015: Sierra Building Science, Inc., Elk Grove CA.

- **Owner, Director:** Started and managed a technical training and consulting facility/company specializing in residential HVAC and energy efficiency training and consulting.

May 2010 to June 2012: CalCERTS, Inc., Sacramento CA. Duties included:

- **V.P., Technical Services:** Primary training curriculum developer and trainer. Responsible for a variety of technical aspects of a State of California approved Home Energy Rating System (HERS) Provider.

1996 to 2005: Mechanical Engineer, ConSol, Inc., Stockton CA. Duties included:

- **Manager of Mechanical Engineering Department:** Responsible for department management and supervision of day-to-day mechanical design activities.
- **Mechanical Engineer:** Schedule, coordinate and perform mechanical design services.
- **Trainer:** Schedule, develop, coordinate, and participate in miscellaneous training.

1993 to 1996: Director of Technical Services, Connerly & Associates, Inc. Sacramento, CA

- **Associate Consultant:** Managed a variety of technical consulting projects including the design and testing of a statewide residential energy audit. Responsible for the technical development and administration of training programs for **California Building Officials Training Institute (CTI)**, Managed several California Energy Commission (CEC) training contracts. Managed the Certified Energy Plans Examiner testing and certification program for three years, 1994-1996.

1988 to April 1993. Assoc. Engineer, Hunt Engineering Services/PMD Corp. Sacramento, CA

- **Mechanical Engineer/Consultant, Project Manager**

1986 to 1987. Engineer's Aide, City of Arcata Public Works Department

ACADEMIC QUALIFICATIONS

Bachelor of Science, Environmental Resources Engineering (Energy Resources Emphasis),
Humboldt State University, Arcata, California, 1987.

PROFESSIONAL LICENSES AND CERTIFICATIONS

California Registered Professional Engineer (Mechanical) #M028952

Nevada Registered Professional Engineer (Mechanical) #13061

Hawaii Registered Professional Engineer (Mechanical) #12661

Certified Residential Energy Plans Examiner #RES-88-2012 (inactive)

Certified Nonresidential Energy Plans Examiner #NRE-90-4009 (inactive)

BPI Certifications: Building Analyst, Envelope Specialist, Multifamily (inactive)

CalCERTS HERS Rater

Roy Mittleider

Senior Instructor

QUALIFICATIONS

- 7 years of experience with a Title 24 HERS Provider; Sr. Instructor, Quality Assurance Reviewer.
- Strong knowledge of California Building Energy Efficiency Standards Title 24, part 6.
- Over 25 years of experience in the area of residential and commercial construction.

PROFESSIONAL EXPERIENCE

June 2011 - Present: CalCERTS Inc., Folsom CA

Technical Associate / QA Field Reviewer:

- 7 years of instructor experience presenting certification courses for HERS Raters throughout California.
- Building Performance Institute Proctor for BA, BE, IDL, QCI and HHE certifications.
- Curriculum development, writing and video production for both textbook and online training utilizing e-learning and LMS platforms.
- Responsible for all aspects of renovation of the CalCERTS Training Center including supervision of subcontractors, and working with local and state officials to ensure regulatory compliance.

May 2004 - Present: RLM Construction, Owner/Builder

General Contractor:

Duties include all aspects of owning a construction company. Marketing, conference booth management, sales, bidding, advertising, bookkeeping, payroll, managing sub-contractors for custom homes and retrofits.

- Production supervisor and builder for new home construction and remodels.
- Research and development for greener building, solar inverters, and off grid homes.
- Designed, implemented and installed battery backup systems for solar homes.
- HVAC prep work and install.
- Solar system design and implementation.
- Installed tankless water heaters, design and installed passive cooling systems.
- Custom designed Lighting, LED, Fluorescent, low voltage and natural lighting.
- Radiant floor heating systems and tile.

2000 - 2003: Sterling Roofing, Owner

- Duties included: bidding, management, production supervisor, and builder.
- Installed standing seam metal roofing and composition roofing for public works projects.
- Fabrication of metal systems such as trims, gutters, and flashings.

EDUCATION

- AAS Degree in Criminal Justice and Emergency Management; Institute of Technology, Citrus Heights

CERTIFICATIONS

- BPI Analyst Certification #5035714
- California Whole House Home Energy Rater & Field Verification and Diagnostic Testing Rater #CC2006093
- Active California General Contractor's License Class B #921023.
- Active Bureau of Security and Investigative services License #1694685.
- Active Adult Corrections Officer CORE Certification #5391-54325
- Active Basic Life Saving Healthcare Provider.
- Emergency Medical Technician 1 Basic.

Roy Eads

Senior Technical Manager

Work Experience

Sr. Technical Manager

October 2017 - Present

CalCERTS Inc., Folsom, CA

- Provide technical review and support for HERS Raters, contractors, energy consultants, installers, and in-house staff
- Content developer, subject matter expert, technical review and editing of energy code-related matters
- HERS Candidate Trainer – classroom and field house sessions
- BPI Proctor – online exams and field house testing
- Quality Assurance Support Team member for HERS Rater Quality Assurance monitoring

Sr. Technical Manager

August 2016 - November 2017

Benningfield Group, Folsom, CA

- Field trainer, content developer and subject matter expert for BayREN Codes and Standards Program addressing building department staff and other city and county departments within the nine Bay Area Counties
- Subject matter expert for the development of the 2016 Certified Energy Analyst (CEA) exam, technical writer and reviewer, and developed the CEA Repository User Guide
- Sr. Technical Manager for training and support to contractors in the Efficiency First/SMUD Home Performance Program (HPP)
- Lead energy consultant for Title 24 compliance consulting and documentation for architects, contractors, and homeowners
- TCAC and CUAC program technical document reviewer
- Field analyst for SMUD Data Analytics Study for energy analysis of specified SMUD homeowner residences

Adjunct Faculty, HVAC/Energy

August 2014 - Present

College of the Desert, Palm Desert, CA

- Developed and taught HVAC System Design and Energy Conservation courses focusing on energy efficiency fundamentals
- Instrumental in first comprehensive ZNE Technology curriculum and A.S. Degree program for CA Community Colleges
- Developed and currently teaching Title 24, Part 6 Energy Code online course at College of the Desert

HERS Rater and Energy Consultant

July 2010 - Present

1st Choice HERS Rating, Cathedral City, CA

- Launched and developed energy consulting practice. Services include: HERS I & II field verification, Title 24 energy modeling, HVAC system diagnostics and building performance as a whole-house approach, California energy standards and building code consulting, residential HVAC system design, and BPI Building Analyst
- Certified in air balancing, HVAC system performance, economizers, air distribution, and compliance verifications

Owner/President

August 1979 - September 2006

Danroy Corp, Palm Springs, CA

- Founded, organized, and developed disaster restoration business with annual revenue stream of \$2M+ from ground floor into a multi-division enterprise, consisting of: general contracting and remodeling, mold remediation (IAQ), fire and water damage restoration, emergency services, carpet cleaning, flooring sales and installation, insurance claims, and inspection services
- Managed upwards of 40 employees, subcontractors, project managers, and affiliates
- Developed customer relations, marketing strategies, and all company protocol
- Responsible for administration, field operations, scheduling/dispatching, computer systems, and financial/legal structure
- Communicated with high-profile leaders in entertainment, civic, and business communities

Education

A.S. HVAC/Air Conditioning, A.S. Construction Management

August 2009 - January 2012

College of the Desert, Palm Desert, CA

- GPA 3.97; Additional Certificates in Building Inspection Technology & Construction Management; Concentration in Architecture, Drafting, and Building Performance
- Other college coursework (focus on business and economics): Business, Accounting I/II, Business Law, Economics I/II, Construction Estimating, Uniform Building Code, Computer Science, Marketing, Website Design, Typing, Radio/TV Announcing, Procurement, and General Education

Roy Eads

Senior Technical Manager

Certifications and Affiliations

- CABEC: Member Board of Directors, Education and Training Committee, CABEC Advantage Board, Advocacy Committee
- Western HVAC Performance Alliance (WHPA) – HVAC compliance committee
- ZNE Technology Advisory Board, College of the Desert
- CABEC: CEPE (Certified Energy Plans Examiner – Res/Non-Res)
- CABEC: CEA (Certified Energy Analyst)
- CalCERTS HERS Rater: Res Alterations, Newly Constructed Homes, Non-Res, Whole House Rater, Solar, RCA
- BPI: Building Analyst (BA), Multi-Family Building Analyst (MFBA), Quality Control Inspector (QCI), Energy Auditor (EA)
- BPI Proctor for the above certifications
- Certified Green Point Rater (GPR) Existing Multi-Family
- Licensed CA Contractor: B-General Bldg, C9-Drywall, C33- Painting & Decorating, C15-Flooring & Floor Coverings
- ICC Certified CA Mechanical Inspector (Residential/Commercial)
- ITC - Level 1 Thermography
- NABCEP: Solar PV Design & Installation Entry Level Training
- CMI/CMRC: Certified Mold Inspector/Remediation Contractor
- EPA Renovator Certification (Lead Renovation, Repair, Painting)
- AHIT: American Home Inspectors Training
- EPA 608-Universal
- NATE: North American Technician Excellence - Air Distribution, Installation & Service
- NCI: Certified Residential/Light Commercial Air Balancing and Diagnostic Technician; NCI: Certified Economizer Specialist
- HVAC Excellence (Employment Ready Certified): A/C, Electrical
- Over 100 Energy Efficiency Training Certificates per SCE EEC, SoCal Gas ERC, CCSE, Advanced HERS Rater Training
- Software: MS Office Suite, EnergyPro, CBECC-Res, AutoCAD, Revit, Wrightsoft Right-Suite Universal

Publications

Eads, Roy. *Equipment Number Registration: Plan for Standards Compliance and Enforcement of HVAC Alterations*. California Energy Commission Docketed 12-EBP-1, TN 71535. July 2013.

Eads, Roy. *2016 Brings Changes to Residential Energy Codes*. California Association of Building Energy Consultants (CABEC) Member Newsletter. Fall 2016.

Eads, Roy. *2016 Energy Code Changes – Ready or Not, Here We Go!* California Association of Building Energy Consultants (CABEC) Member Newsletter. Winter 2017.

Vance Barker
Quality Assurance Reviewer

QUALIFICATIONS

- CalCERTS certified Title 24 HERS Compliance Rater since 2012.
- Building Analyst Professional-Building Performance Institute, Inc.
- BPI GoldStar Contractor

PROFESSIONAL EXPERIENCE

2010 - Present: Lower Home Energy, LLC Davis, CA:

Owner

- Performed hundreds of 2013 and 2016 standards HERS Verifications.
- Conduct comprehensive energy audits on single family houses to increase customer awareness and generate sales.
- Build energy models for audit reporting, energy savings and incentives calculation. Title 24 compliance.
- Perform utility analysis for PV system sizing and identifying energy conservation opportunities.
- Provide BayREN Contractor Service Support.
- Implement and administer Salesforce program data management and project tracking.
- Support and manage a team of two auditors to ensure all staffing needs are met.

1991 - 1994: United States Marines

- Kuwait Liberation Medal
- National Defense Medal
- South West Asia Service Medal

EDUCATION

Embry-Riddle Aeronautical University:

- Bachelor of Science Degree in Professional Aeronautics 10/31/2006
- Sierra Academy of Aeronautics A&P License 02/01/1996

CERTIFICATIONS & LICENSES

- CalCERTS Title 24 HERS Rater #CC2006168
- Building Analyst Professional-Building Performance Institute, Inc.
- BPI GoldStar Contractor

SPECIALTIES

- Energypro
- Salesforce
- P6 Primavera.

Shawn Winters

Quality Assurance Reviewer

QUALIFICATIONS

- CalCERTS certified Title 24 HERS Compliance Rater.
- Strong knowledge of California Building Energy Efficiency Standards Title 24, part 6.
- Over 20 years of experience in the area of residential and commercial construction.

PROFESSIONAL EXPERIENCE

April 2016 - Present: HERS Raters SoCal

HERS Rater:

- Responsible for building and maintaining clientele in HVAC industry
- Inspecting and testing residential and commercial HVAC systems for efficiency, per California Energy Commission mandates

October 1997 – April 2016: DWC General Contractors, Inc.

- Formed and oversaw all operations, including estimating, personnel, and client interface.
- Developed company website and devised and employed all marketing and sales strategies.
- Interfaced regularly with high profile clientele, while working as a preferred vendor for major insurance companies, including AIG Private Client Group, Liberty Mutual, and Safeco.
- Worked as a construction consultant, providing expertise in estimation and negotiation of settlements
- Worked as a consultant and umpire in dispute resolution and arbitration for legal settlements in the construction arena.

September 2011- May 2013: Biola University

Adjunct Professor - Torrey Honors Institute:

- Taught everything from Shakespeare to 18th Century Philosophers
- Teaching modeled after Oxford's collegiate education model

1995-1997: Har-Bro, Inc.

Construction Project Manager:

- Marketed and developed new Insurance Industry clientele, including Prudential Insurance.
- Bid and ran jobs ranging from \$5,000 - \$2,000,000.

1993-1995: Marshall & Swift

Research Analyst

- Oversaw the writing, developing and yearly updating of the Dodge Repair and Remodel Cost Book
- Worked on a team in JV partnership with ADP to develop construction estimation software
- Led instructional classes for insurance claims professionals

EDUCATION

- B.A. Communications, Biola University, 1990 | M.A. Philosophy, Talbot Theological Seminary, *in process*

SKILLS

- Construction Estimation, HERS Verification, Sales, Teaching/Curriculum Development, Business Management, Business Startup
- Microsoft Office, Adobe Suite, Website development
- Mentoring, Leadership, Coaching, Teaching

W. J. "PETE" PETERSON
President/Owner EECTech

QUALIFICATIONS: Eight years as Quality Assurance Reviewer, Trainer/Proctor and Strategic Alliance with CalCERTS (2011-Present).

SUMMARY: Veteran USMC enlisted technician/commissioned officer with over 40 years of combined engineering, environmental compliance, energy consulting, and resource conversation experience (government and private industry).

EXPERIENCE:
2010 - Present

Energy Efficiency & Conservation Technologies, LLC (aka EECTech)

Founded EECTech and provided energy consulting services as a CalCERTS Certified HERS Rater/BPI Building Analyst & Envelope Specialist. Performed Duct and Blower Door Leakage; Refrigeration charge & Airflow; Fan Efficacy; Quality Insulation Installation; HERS II Whole House; Energy Efficient Mortgages; Non Residential; Energy Star/Special Energy Programs; and Photovoltaic/Solar evaluations and ratings. Also joined CalCERTS' staff (2011-2012) and performed combustion analysis/safety tests in support of San Diego's Energy Upgrade California Multifamily Housing Program. Currently contracted to perform certified Raters' QA Reviews, assist with Raters' FV/DT training, and proctor Title 24 HERS Compliance Examinations.

1997 - 2010

PEPSICO (FRITO-LAY Division): RESOURCE/SENIOR RESOURCE/MAINTENANCE TEAM LEADER

Managed and developed teams of 5-45 mechanics/technicians across 3 shifts. Directed projects that promoted processing equipment; high speed packaging; service & distribution; plant facilities; energy efficiency and resource conservation enhancements. Similarly doubled as the resident environmental compliance expert. Employed coaching, mentoring, interpersonal, and technical skills to analyze and resolve issues and promote continuous improvement (developed work group to level 3 of 4 CI levels).

MILITARY
BACKGROUND:

USMC: MAINTENANCE MANAGER/COMPANY COMMANDER/ENLISTED TECHNICIAN

- Standardized maintenance procedures for various organizations employing 45-1000 workers. Oversaw equipment maintenance and repair, and directed the maintenance and spare parts procurement efforts of personnel with over 25 various technical skills (including 20

plus commissioned officers). Served on Commanding Officer's special planning staff for all operations involving equipment maintenance/reliability.

- Spearheaded audit teams that conducted over 100 detail analysis of logistics and maintenance management policies and procedures for 50 plus maintenance organizations. Functioned as the Commandant of the Marine Corps' direct field representative in analyzing the effectiveness of maintenance management policies and procedures for all ground tactical equipment in the western division of the U.S.
- Managed logistics and maintenance planning for deployment of units varying in sizes from 100 to 1200. Identified logistics and technical skill requirements. Trained personnel and oversaw the performance of preventative and corrective maintenance.
- Developed programs of instructions and conducted formal training in engineer construction and utilities equipment (electrical, water distribution, and HVAC systems) maintenance. Conducted job analysis, determined performance objectives, and established evaluations standards to measure training performance. Served as Company Commander/Chief Instructor at Marine Corps Engineer Schools.
- Troubleshoot, diagnosed and repaired electrical power distribution, engineering heavy construction, water distribution and HVAC systems. Performed as enlisted repair technician.

EDUCATION:

MS, Human Relations Management, Golden Gate University and BA, Psychology/Sociology (double major), East Carolina University

CalCERTS Certified HERS Rater:

- Residential Alterations
- Newly Constructed Homes
- Non-Residential
- Whole House Rater
- Special Energy Programs
- Energy Star Rater
- RCA-I
- RCA-II
- Solar