

**DOCKETED**

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<b>Project Title:</b>	2019 HERS Providers' Application for the 2019 Building Energy Efficiency Standards
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## **EXHIBIT N**

### QA Qualifications

**Mark W. Wiese**  
**Director of Quality Assurance & Compliance Support**

**QUALIFICATIONS**

- 9 years of experience with a Title 24 HERS Provider; Director of Quality Assurance & Compliance Support.
- Strong knowledge of California Building Energy Efficiency Standards Title 24, part 6.
- Proficiency with EnergyPro, Wrightsoft, and AutoCAD.
- CalCERTS certified HERS Compliance and Whole House Home Energy Rater.
- Strong understanding of the building industry having over 10 years of experience as an architectural drafter, and 5 years in sales, production and management of a door and millwork shop.
- Proficient with Microsoft Excel, Word, Outlook, PowerPoint and OneNote.

**PROFESSIONAL EXPERIENCE**

**May 2010 - Present: CalCERTS Inc., Folsom CA, Director of Quality Assurance & Compliance Support:**

- Responsible for all CalCERTS Home Energy Rating System (HERS) Quality Assurance staff and contractors, review of all QA field results, and communication with HERS Raters regarding these results.
- Responsible for complaint processing, internal reporting, and reporting to the CEC.
- Responsible for assisting Support team and customers with technical issues related to code requirements and HERS protocols, in addition to Quality Assurance management.
- Developed or integral in developing protocols for QA field reviews, reporting and dispositions, HERS Rater Title 24 support, complaint resolution, and QA reporting and communication with the CEC.

**September 2009 - May 2010: Sierra Building Science, Inc. Sacramento, CA.,**

- Assisted in training, curriculum, and product development.

**2000 - 2010: CAD Drafter; self-employed, Auburn CA.**

- Commercial and residential architectural drafting.
- Developed drawing system within AutoCAD that was adopted by Architects and designers I contracted with.
- Cabinet and millwork design and detail drafting.
- Mechanical Drafting.

**1998 - 2000: Sierra Group Exhibits, Grass Valley CA, Draft Person:**

- Implemented new drawing systems and standards with AutoCAD that greatly reduced production costs.

**1996 - 1998: Quantum Event Services - Rocklin CA, Draft Person:**

- Developed drawing system and standards introducing AutoCAD 3D design and drafting.

**1990 - 1996 Basic Endeavors Colfax CA, Division Manager:**

- Sales, production, and management of door and millwork shop.
- Member of the Board of Directors

**EDUCATION & CERTIFICATIONS**

- A.A. Liberal Arts & Humanities, Sierra College, Rocklin CA.
- Graduated Beaverton High School, Beaverton OR.
- California Whole House Home Energy Rater
- California Field Verification and Diagnostic Testing Rater

**ADDITIONAL**

- Trained volunteer; Court Appointed Special Advocate (CASA) for foster youth within the family court system; Superior Court of California, County of Placer.

# 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**

**David Choo**  
**Quality Assurance Supervisor**

**QUALIFICATIONS**

- Three (3) years of experience with a Title 24 HERS Provider; Quality Assurance Reviewer.
- 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.
- Performed 1000+ Quality Assurance Field Reviews.
- CSLB HVAC License C20-1013816
- Lead So. Ca. Instructor for Hands-On testing procedures.
- Successfully educated dozens of companies on performance based HVAC Installation.
- Core competencies include: accurate and complete testing, diagnosing and educating.

**PROFESSIONAL EXPERIENCE**

**2016 - Present: CalCERTS Inc., Folsom CA:**

*Quality Assurance Supervisor*

- Supervisory oversight and training of all Quality Assurance reviewers.
- Developed and maintain training protocols for Quality Assurance reviewers.
- Actively mentor HERS Raters in response to QA field review results.
- Conducted ICC accredited training for Building Departments and their respective staff.
- Lead QA Reviewer.

**2010 - 2018: California HERS Rater & Air Balance, Hacienda Heights, CA:**

*Owner*

- Developed training material and held education courses for C20 technicians as well as General Contractors to help them achieve success through performance based installations.
- Continually seeking industry learning experiences and professional training.

**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.

**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

# 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

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#### **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**

*1<sup>st</sup> 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

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#### **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

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- 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

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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.



# Kevin Harry

## Quality Assurance Reviewer

### QUALIFICATIONS

- CalCERTS certified Title 24 HERS Compliance Rater; *CC2006610*
- Strong knowledge of California Building Energy Efficiency Standards Title 24, part 6.
- Certified to test Alterations, New Construction, & Non-Residential.

### PROFESSIONAL EXPERIENCE

#### **November 2015 – Present:**

##### **Allied HERS Testing, Benicia, CA**

*Owner*

- Self-employed HERS Rater.
- Performed hundreds of HERS Verifications under the 2013 and 2016 Standards.
- Educated /consulted HVAC contractors on HERS requirements and installation practices to help them successfully achieve Title 24 compliance.

#### **November 2012 – October 2015:**

##### **Pratt & Associates Appraisal Service, San Rafael, Ca**

*Licensed Real Estate Appraiser, License# AL 045013 (expired, not renewed)*

- Research and analysis of subject and comparable properties.
- Prepare maps and market data analysis for subject and comparable properties.
- Inspect, photograph and sketch subject property.
- Exterior inspection and photographs of comparable properties.
- Prepare "paired data analysis" reports as needed.
- Complete entire Real Estate Appraisal reports.

#### **July 1984 - June 2012 (Retired 06/2012):**

##### **United Parcel Service, Richmond, CA**

*Driver/Safety Coordinator*

- Delivery driver for first 20 years.
- Driver/Safety trainer for last 8 years.
- Provided and tracked annual and monthly training.
- Investigated and prepared injury and accident reports.
- Prepared and executed training programs to curtail injury/accident trends.

#### **June 1981 - July 1984:**

##### **Self Employed, Vallejo, Ca**

*Solar Heating Contractor, CSLB# 410285 (expired, not renewed)*

- Designed and installed solar domestic hot water heating and solar swimming pool heating systems.

### EDUCATION

#### **Napa Community College, Napa, Ca**

*Completed coursework towards Viticulture and Winemaking, 1998-2002*

# 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

**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.