# AESAP Evaluation, Measurement & Verification (EM&V)

The program’s developed Quality Assurance (QA) plan ensures a structured approach to the defining, recording, and storing of documentation related to requirements, approvals, reviews, tests, decisions, actions, events, problems, and improvements to measures to support verification, validation, and traceability.

TRC will inspect (virtually or in person) up to 100% of the measures receiving incentives for the Program, as our proposed site inspection sampling uses the same tiers as approved in E-4818 for preponderance of evidence. Site inspections involve documenting eligibility, onsite equipment, and operation information with pictures and other documentation, according to approved M&V plans. All M&V plans will be developed by experienced, qualified engineers and submitted to PG&E for approval, according to IPMVP and CPUC standards to increase certainty, reliability, and level of energy savings. These M&V plans will measure relevant equipment (or a proxy) in order to verify energy savings claims. If any adjustments need to be made to savings claims, they will be informed by the M&V plan and noted in a post-installation report. The verifications will evaluate the equipment and installation for quality and consistency for design with the proposal.

All applicable data points are recorded in the program’s tracking system, which contains data validation mechanisms and is programmed to prevent incomplete or inaccurate project records from moving forward in the process. Throughout the life of the program, recurring and ad hoc data integrity checks are completed by program staff.

The data gathered during M&V activities can then be leveraged to conduct internal performance analysis during deployment and to drive progress towards improving cost effectiveness and meeting program performance metrics. This data will inform program decisions regarding achieving savings goals in the most cost-effective manner, while maximizing program participation.