Title 24 JA 18 Compliance

i-Vu® Building Automation System

The California Energy Commission (CEC) Title 24 (California Building Energy Efficiency Standards) JA18 requirement is a mandatory state code that requires validation of specific control sequences of operation for HVAC control applications. Its goal is to ensure controlled equipment meets minimum energy performance standards, promoting energy efficiency and reducing operational costs.

The Challenge

Effective January 1, 2026, the 2025 Title 24 update introduces stringent validation requirements for control systems. These requirements have the potential to create major risks including project delays, increased commissioning costs, and system non-compliance.

The Solution: Carrier's Certified Control Sequences

Our new certified Title 24 JA18 / ASHRAE Guideline 36 library for programmable controllers now includes core sequences of operations with pre-certified Title 24 JA18 control logic. This solution provides a clear, auditable path to compliance. Supported HVAC applications include:

Exhaust Fans
- On/Off
- Cooling

Fan Coil Units

VAV Terminals
- Fan- Powered
- Dual-Duct

VAV Air Handling Units
- Single Zone
- Multi-Zone
- Dual-Fan, Dual-Duct Heating

Why Certified Control Sequences are Essential

Certified control sequences simplify specifying and commissioning because they are designed to meet the CEC requirements outlined in Title 24 JA18.
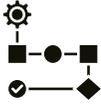
Verified Compliance and Integrity

Carrier's certified control sequences provide verifiable compliance through a simple, auditable process.

Control Sequence Protection: Core Title 24 sequences contain control logic that is marked as 'certified' by the CEC and cannot be edited or copied by an end user, which preserves the certification status.

Traceability: A unique digital signature is added to the certified control logic within the sequence of operation. When a user downloads the sequence of operation into a controller, the certified control logic is "locked" and cannot be modified. This creates a secure chain of custody.

Streamlined Control Configuration: Carrier utilizes a unique three-set Guideline 36 linkage design that automates the complex data sharing required between equipment. This pre-defined approach is designed to reduce manual configuration time, supporting a faster and more consistent setup.

Project Flexibility: The user is allowed to add logic to the control sequence or make changes to the 'uncertified' sections of the control logic while still maintaining the overall 'certified' status of the control sequence.

Run-Time Verification: How it Helps Comply (i-Vu Pro BAS)

The Building Automation System (BAS) provides the critical final step to aid in compliance verification.

Run-Time Indicator: The BAS uses identifiers to indicate which logic groups in the control sequence are certified by the CEC. This allows the Commissioning Agent to see a run-time indicator that a Title 24 control sequence was certified by the CEC and has not been modified, which is designed to help minimize on-site work for the Commissioning Agent.

Compliance Reporting: The i-Vu system supports a built-in or imported Title 24 compliance report showing status at both the system and equipment levels.

Versioning: Certification version information is included in the program files, supporting traceability and compliance.

Next Steps

To aid with California Title 24 JA18 compliance requirements, specify Carrier's certified application libraries. Implement a commissioning plan that leverages BAS run-time indicators to reduce labor, streamline verification, and accelerate sign-off, enabling faster project close-out.

Controls Expert Locator:
www.carrier.com/controls-experts