



Experts in **COMMISSIONING**

Citrine LLC is an independent provider of commissioning services for new construction (Cx) and existing buildings (RCx). Our commissioning team is composed of highly experienced, educated, and accredited engineers and technicians. We provide a thorough “shake down” of a building’s systems, from design through installation, to advocate for long-term efficient operation. We are dedicated to developing sustainable and fully functional buildings by ensuring systems are designed, installed, tested, and maintained to meet the owner’s requirements. Citrine is a Small Disadvantaged Business (SDB), Service-Disabled Veteran-Owned (SDVOSB), Woman-Owned (WOSB), and HUBZone certified firm.

We provide:

New Construction (Cx) Services

Client Standards Total Building Commissioning
LEED Commissioning
IECC Commissioning

Existing Buildings (RCx) Services

Re/Retro-Commissioning
Ongoing Commissioning
Monitoring-Based Commissioning

- Comprehensive commissioning to assess MEP, low voltage, security, envelope, and fire safety systems.
- Existing building commissioning to identify low-cost operational improvements.
- Monitoring-based commissioning to analyze system performance trends over time.
- Assessments for compliance with energy codes and local regulations for safety and efficiency.

Commissioning personnel

Commissioning Agent - 1
Construction Manager - 2 (1 certified)
LOTO Specialist - 2
Field Engineers - 5

HVAC Technician - 1
Master Electrician - 2
Safety/OSHA authorized trainer - 1
Scheduler - 1

Construction/Commodity Procurement Agent - 1



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Lakewood, CO | Grand Junction, CO | Albuquerque, NM



Sampling of Recent Commissioning Past Performance

Retro-Commissioning Services, Department of Veterans Affairs (VA), Veterans Integrated Service Network (VISN 16), AL, AR, FL, LA, MS, MO, OK, TX

Citrine conducted Retro-Commissioning (Cx) services at nine VA facilities to improve the efficiency of energy systems. The focus was on optimizing systems that heat and cool, repairing economizers, and resolving issues with pumps, fans, and equipment schedules. We ensured proper building pressurization, addressed unexpected temperature issues, and improved HVAC insulation. Citrine also calibrated Building Automation System sensors and optimized airflow, heating, and cooling systems, all in compliance with the VA's Retro-Commissioning Process Manual.

Recommissioning of Power Systems, National Oceanic and Atmospheric Administration (NOAA) Wallops Command and Data Acquisition Station (WCDAS), Wallops Island, VA

Citrine fully recommissioned the major electrical power generation and distribution equipment at WCDAS. This federally owned critical facility contains equipment including five 1-MW diesel generators, paralleling switchgear, Uninterruptible Power Supplies (UPS), Power Distribution Units (PDU), grounding systems, and lightning protection systems. Citrine's objectives were to assess the current condition of the equipment, commission, and test equipment, identify weaknesses, provide recommendations for improvement, develop operational procedures, and provide operator training.

Our Commissioning Services

- HVAC System Commissioning
- Lighting Controls Commissioning
- Plumbing and Hot Water System Commissioning
- Building Envelope Commissioning
- LEED Fundamental and Enhanced Commissioning
- Energy Audits and Building Energy Modeling
- Commissioning Staff Augmentation
- Condition Assessments
- Facility Support
- Facility Assessments
- Enhanced O&M Training
- Maintenance Plan Development



Contract Holder
#47QRAA19D008Z

SPECIAL ITEM

NUMBERS

541330ENG
541380
541420
541690E
541715
611430
OLM

NAICS CODES:

541330 (primary)
221310 541690
238210 541990
238220 561210
541310 611513
541340 611519
541350 611699
541611

**UNIQUE ENTITY IDENTIFIER:
JKPGTKHSKRP4**



**CAGE
7PL41**

