



The JENSEN HUGHES Difference

Our experience with clients around the world has exposed our engineers and technicians to many challenging aspects of commissioning fire protection systems. We routinely support our customers by providing research, design and commissioning services. This experience enables us to ensure functional and compliant systems are installed for all applications.

We provide Commissioning/Acceptance Testing for all Life Safety Systems, including:

- Smoke Control
- Fire Pumps
- Access Control
- Video Surveillance
- Intrusion Detection
- Mass Notification
- Fire Detection and Alarm
- 1-Way and 2-Way Communications
- Fire Sprinklers and Standpipes
- Special Hazards Fire Suppression
- Emergency Power/Emergency Generator



JENSEN HUGHES is a global leader in specialty engineering and consulting services for the built environment. We are a company of engineers, consultants, and scientists focused on evaluating risks and diligently developing the best, most cost effective safety solutions. We offer extensive, practical experience through countless projects, research and industry innovation.

Our global clients include a majority of Fortune 500 companies and cover the following sectors: corporate real estate, education, energy, government, healthcare, hospitality, industrial, military, and transportation.



MUCH MORE THAN JUST TESTING THE SYSTEM

Our experienced staff of engineers and technicians have earned an excellent reputation with architects, general contractors, and building owners/end users by assisting in the acceptance testing or commissioning process for fire alarm and detection systems. We offer services through all phases of Commissioning:

Design Phase

- Evaluation of Existing Systems Lacking Complete Systems Documentation
- Review of Design Drawings and Specifications
- Review of Sequence of Operations
- Development of Commissioning Plan for Approval by Appropriate Authorities
- Coordination and Negotiation with Code Authorities
- Development of Test Documentation Customized to Specific Systems Design, Operation and Interfaces

Construction Phase

- Review of Contractor Submittals
- Site Observations to Verify Compliance with Design Intent
- Coordination of Installation Sequences to Permit Requisite Testing of Systems during Installation (i.e. Duct Pressure Testing, etc.)
- Resolution of Contractor Responsibility Issues on Project Site
- Coordination and Scheduling of Systems Commissioning
- Conduct Final Acceptance Testing with Authorities Having Jurisdiction

Post Construction Phase

- Coordination of Building Staff Training on Systems
- Coordination and Verification of Life Safety Systems Closeout Documents

COMMISSIONING

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Our staff works with building owners, contractors, and authorities having jurisdiction to perform a wide variety of testing, including:

- Smoke Barrier Inspection/ Leakage Testing
- Duct Pressurization Tests
- Sequence of Operations Tests
- Pressure Differentials and Door Opening Forces
- Supervision of Components (Including the Weekly Self Test)

CONTACT

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FIRE ALARM SYSTEM COMMISSIONING



Proper fire alarm system performance is achieved by starting during the design phase including documenting the design intent and performance objectives then continues throughout construction, acceptance, and the warranty period. Thorough commissioning should include verification of system performance but should also include evaluation of Operation and Maintenance (O&M) documentation and oversight of the training of operating personnel. The commissioning process begins at project inception and continues through design, construction, and project closeout.

FIRE SUPPRESSION SYSTEM COMMISSIONING

Fire suppression system commissioning is a quality assurance or quality control process used to ensure system performance reliability demonstrated through inspection, testing

There are currently no code mandates for commissioning of systems; however, our staff, along with other recognized industry experts, participated in the NFPA codes and standards process to develop NFPA 3, Recommended Practice for Commissioning and Integrated Testing of Fire Protection and Life Safety Systems. This document is intended to ensure fire protection and life safety systems perform according to their design intent.



SMOKE CONTROL SYSTEM COMMISSIONING

We test smoke control systems in a wide variety of applications, to verify the performance of our own smoke control system designs, to commission existing systems, and perform third party special inspections. Our experience as smoke control system designers enables us to troubleshoot system problems as they arise and recommend solutions that are both timely and cost-effective.

A variety of pressurization systems may exist in a building, including stair pressurization, elevator pressurization, and zoned smoke control systems. We perform detailed measurements of both pressure differentials (using digital manometers) and door opening forces (using spring pressure gauges) to ensure that the system performs as expected. A complex system is tested under various modes to verify failure points that may create pressures that are out of the acceptable range.

