Atrium Design

The code requirements for floor opening protection and atrium design are very restrictive and specific for Health Care occupancies. CCI expertise in fire protection allows for the application of fire and smoke models to develop cost effective solutions to atrium design.

CCI uses the most advanced fire and smoke modeling methods in the industry to:
- Design economical smoke control systems
- Develop alternate fire protection and detection system designs

Benefits of Fire and Smoke Modeling...
- Reduced atrium smoke exhaust and make-up fan size (up to 50%)
- Cost effective fire protection and detection systems

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The Fire Protection and Life Safety Experts SM
- Code Consultation
- Fire and Egress Modeling
- Accessibility Consultation
- Fire Alarm Design
- Mass Notification Design
- Fire Sprinkler Design

FOR MORE INFORMATION, CONTACT:
Joe Kolodziej
Director of Business Development
JoeK@codeconsultants.com

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CCI has more than 65 years of combined experience in providing Health Care consultation services. Our dedicated Health Care staff is comprised of fire protection engineers, former code officials and members of the fire service.

CCI Health Care consultation services include:
- Complete code analysis (SD through CA)
- Code strategy analysis
- Multiple code conflict resolution
- Code requirement documentation
- Alternate method and equivalency formulation
- Means of egress analysis
- Computer egress modeling
- Computer fire modeling
- Master planning
- Site investigation and surveys (including SOCs)
- Production of fire rated wall graphics
- Smoke management analysis and testing
- Hazardous materials analysis
- Plan review
- Construction/inspection consultation
- Fire sprinkler and fire alarm design
- Mass notification design
- Accessibility consultation
- Expert witness testimony and litigation support

Performance Based Design Approval...
CCI is the first consulting engineering firm to obtain The Joint Commission (TJC) approval of a performance based design.

CCI principals and staff are members of and actively participate in many committees and associations, including:
- Life Safety Code (NFPA 101), including Health Care Occupancy Committee
- Installation of Sprinkler Systems (NFPA 13)
- National Fire Alarm Code (NFPA 72)
- Smoke Management Systems (NFPA 92B)
- International Code Council (ICC)
- American Society of Healthcare Engineering (ASHE)

CCI provides fire protection and life safety consulting services, including Statement of Conditions surveys (SOCs), documentation and fire rated walls graphics for more than 125 different Health Care facilities throughout the United States. These 125 separate facilities represent more than 480 individual consultation projects for CCI.

Client satisfaction and the success of projects, which promotes repeat business, is the cornerstone to the CCI Health Care philosophy.

Performance Based Design Approval...
CCI is the first consulting engineering firm to obtain The Joint Commission (TJC) approval of a performance based design.

CCI services provide innovative solutions to complex issues that:
- Achieve the desired project design
- Obtain The Joint Commission (TJC) project compliance and performance based design
- Reduces plan review/permitting comments and issues
- Reduces construction costs
- Reduces construction delays due to code related issues
- Aids in obtaining a certificate of occupancy on time

CCI has been successful in achieving a multitude of alternate methods, equivalencies and clarifications for Health Care projects, including:
- Equivalent fire wall design
- Sprinkler trade-offs for expansions to existing non-sprinkled buildings
- Oversized suite designs
- Suite to suite exiting
- Non-fire rated canopies without sprinkler protection
- Storage alcove design in corridors
- Oversized smoke compartments
- Reduction in atrium smoke fan sizing
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