Federal Projects

STRATTON AIR NATIONAL GUARD BASE

Schenectady, NY
Client: SRI Fire Sprinkler

RAN Fire Protection Engineering performed consulting services for fire protection systems at the Stratton Air National Guard Base. RAN engineers designed sprinkler and high expansion foam suppression systems for Hangers 2, 7, and 8. A new fire pump house was also designed on this project. The project scope included a code analysis to verify compliance with NFPA standards building codes and ETL's.

Construction Cost: $950,000 Size: 3 Hangers

Construction Cost: $1,000,000 Size: 28 buildings

HOPEWELL JUNCTION FIRE FLOW

Dutchess County, NY
Client: CDM Federal Programs Corporation

RAN was retained to provide fire protection engineering consulting services in evaluating the needed fire flow for 28 buildings located within the Hopewell Precision Water System. RAN established the needed fire flow in accordance with New York State and Dutchess County regulations, which was determined utilizing the Insurance Services Office (ISO) "Guide for Determination of Needed Fire Flow".

OGDENSBURG BORDER PATROL HOUSE

Ogdensburg, NY
Client: General Services Administration

The Robert C. McEwen U.S. Custom House is the oldest building within the General Services Administration's building inventory. This project included a complete overhaul of the building's fire protection and life safety systems. A performance-based fire protection design was incorporated into the project. The design was based on the anticipated fire severity predicted by fire modeling. A final cost-effective design that addressed the specific hazards in the buildings was accomplished.

Construction Cost: $15,000,000 Size: 40,000 sqft

Federal

OGDENSBURG FEDERAL PATROL BUILDING
Ogdensburg, NY
Client: GSA

Services Provided:

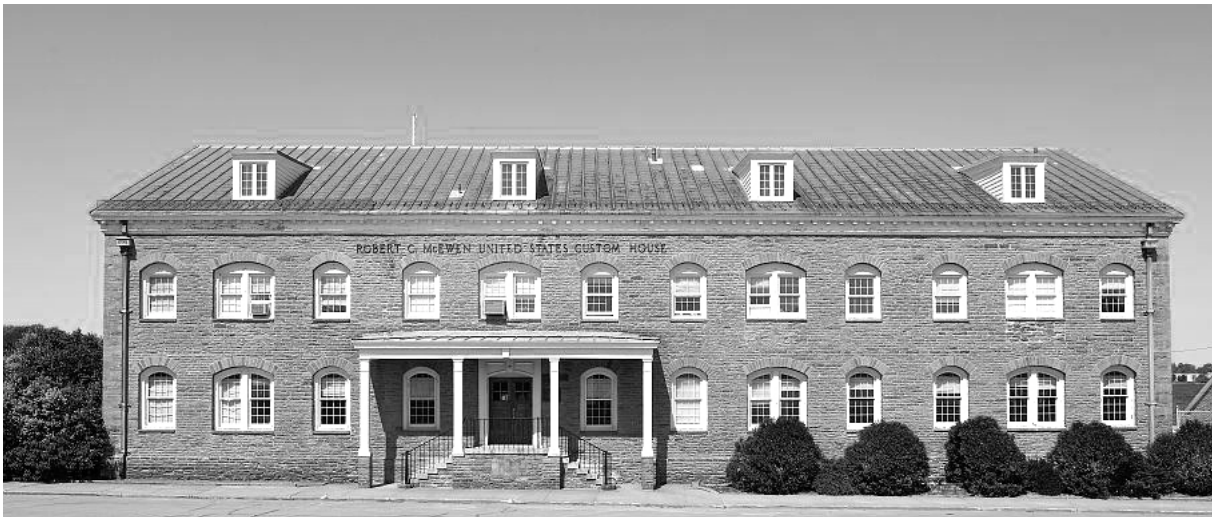
- *Designed a Performance-Based Fire Protection System*
- *Life Safety Systems Design*
- *NFPA 101A Alternative Approach to Life Safety*

The Robert C. McEwen U.S. Custom House is the oldest building in Ogdensburg, New York and the oldest within the General Services Administration's building inventory. Constructed in 1809–1810, the building is closely linked to the development of Ogdensburg and shipping along the St. Lawrence River.

The U. S. Custom House is a fine example of the utilitarian buildings constructed in native limestone in the late 18th and early 19th centuries in the Ogdensburg region. The building interior dates entirely from 1937, when a complete remodeling was undertaken to provide offices for the U.S. Customs Service. Vestiges of the 1809–1810 structure remain in transverse load-bearing masonry walls, the closets under the eaves of the third floor, and the original beams.

This project included a complete overhaul of the building's fire protection and life safety systems utilizing NFPA 914 Code for the Fire Protection of Historic Structures and NFPA 101, Life Safety Code. RAN Fire Protection Engineering served as the lead fire protection engineer for the project. Due to the limitations associated with the historic nature of the building, alternative design approaches were necessary to provide an adequate level of life safety. A performance-based fire protection design was incorporated into the project. The design was based on the anticipated fire severity predicted by fire modeling. A final cost-effective design that addressed the specific hazards in the buildings was accomplished.

Construction Cost: $150,000 Size: 40,000 sq-ft



Federal

BUTLER VA MEDICAL CENTER

Butler , PA
Client: Tolman Engineering

RAN Fire Protection Engineering was retained to provide consulting services at the Butler VA Medical Center. Butler VAMC was looking to replace their water tank. RAN completed a hydraulic model study for the fire protection flow calculations. RAN conducted an on site evaluation to establish Fire Protction Flow Demands for the entire campus. The study established the campus fire flow required to size the water storage for the facility.

Construction Cost: $5,000,000 Size: 30 Buildings

Construction Cost: $500,000 Size: 12,000 sq-ft

J.W. MCCORMACK FEDERAL OFFICE BUILDING

Boston, MA
Client: edm

RAN completed the design for renovations to the J.W McCormack Building in Boston, MA. This project was turned around quickly to the Environmental Protection Agency in order to stay on the tight construction schedule. RAN delivered a detailed fire sprinkler design and provided oversight for life safety planning of the space.

Construction Cost: $1,500,000 Size: 14,000 sqft

THOMAS P. ONEILL FEDERAL BUILDING

Boston, MA
Client: edm

RAN Fire Protection Engineering provided professional design and engineering services to produce a feasibility study. Construction documents were produced that were necessary for the build-out of the new space on the 9th floor of the O'Neill Federal Building.