



FIRE PROTECTION ENGINEERING PROJECTS

CREATING
THE BEST
SOLUTIONS
FOR OUR
CLIENTS

A Department of Defense SDVOSB Achievement Award Recipient







J. M. Waller Associates, Inc. (JMWA[®]) delivers fire protection engineering solutions to the challenges facing government agencies worldwide. Fire and life safety support has been performed for the U.S. Air Force, U.S. Army, U.S. Army Reserve and the Federal Aviation Administration. We turn our

clients' visions into realities through cost effective methodology and a team of experts acting in your best interests.

JMWA's support to federal fire protection programs consists of technical engineering and management support including fire protection engineering design and design review, code compliance, facility assessments, fire protection system testing and inspection, fire protection system design, construction management, system check-out and start-up, system training and more.

The following are samplings of past projects in which JMWA delivered feasible, cost-effective and practical solutions.



Air Force Medical Operations Agency (AFMOA) Fire Engineering Support



JMWA is currently providing fire engineering support to the Air Force Medical Operations Agency (AFMOA). Designated as the Authority Having Jurisdiction for fire issues involving Air Force medical facilities, JMWA has been providing regular fire engineering consulting services to Air Force medical facilities throughout the country.

David Grant Medical Center, Travis AFB

- JMWA produced a Statement of Conditions (SOC) and a Plan for Improvement for the David Grant Medical Center at Travis AFB. The SOC assesses the condition of the existing fire systems within the medical center and their compliance with codes. The Plan for Improvement provides a description of the repairs or modifications necessary in order to correct Life Safety Code deficiencies.
- JMWA reviewed designs for proposed facility projects to ensure compliance with fire and life safety codes. JMWA completed the inspection to commission newly installed fire alarm systems upon completion of installation.

Nellis AFB Medical Treatment Facility (MTF)

- JMWA evaluated the condition of the installed fire dampers to evaluate their compliance with applicable fire and life safety codes.

Shaw AFB MTF and Dental Clinic

- JMWA was asked to review the SOC provided by another contractor to evaluate the accuracy of their assessment and to ensure that the recommended solutions were accurate and complete.

Langley Medical Hospital, Langley AB, VA

- A survey from another engineering firm identified apparent deficiencies that would require about \$650,000 of expenditures to correct. A survey by our Senior Fire Protection Engineer discovered that 21 of the 28 items identified were not accurately identified or were in fact not a deficiency at all. The final seven items required a budget of \$60,000 to correct. A savings of over \$500,000 was realized.

Minot Clinic, Minot AB, Minot, ND

- The fire department had received a series of false alarms that could not be identified from the clinic's fire alarm system. The clinic contacted a local fire alarm company to repair the system. The local company declared the system obsolete and not able to be repaired. Estimated cost to replace was \$185,000.

Our fire protection engineer visited the facility and investigated the problem. After a diagnostic test, it was determined that when the base installed a new radio transmitter at the building, the wires from the fire alarm panel had been crossed. JMWA was able to consult with the fire and maintenance personnel and suggest a repair that eliminated the problem saving Minot Clinic over \$180,000.



HQ Pacific Air Forces (PACAF) Fire Protection Studies and Assessments



JMWA completed a MAJCOM-wide fire systems infrastructure assessment with the following primary focuses: evaluation and validation of Fire Safety Deficiencies (FSD I and FSD II); evaluation of the Operational Risk Management process; MAJCOM-wide implementation; and evaluation of local (foreign national) fire protection standards in Japan and Korea versus United States standards and Uniform Building Code/Air Force ETL standards.

The fire system assessments covered operational and support facilities such as aircraft general purpose, fuel cell and corrosion control hangars, dormitories and lodging facilities, warehouses, fitness centers, child development centers and other facilities. All major PACAF installations were assessed including: Yokota and Misawa Air Bases, Japan; Kadena AB, Okinawa; Osan and Kunsan AB Korea; Andersen AB, Guam; Eielson and Elmendorf Air Force Bases, Alaska; Hickam AB, Hawaii. Cost estimates for nearly \$100 million in FSD I and FSD II requirements were reviewed and validated.

In addition to technical fire protection engineering assistance, JMWA provides HQ PACAF and PACAF installations engineering consultation regarding design and construction for new and renovated facilities. JMWA has reviewed and consulted on a number of projects in the Pacific including:

Kadena AB in Okinawa

- JMWA provided fire protection consulting support for aircraft shelters with fuel systems in the shelters. In addition, We provided design review and interpretation of fire codes for the design of the new AAFES Exchange Facility. The estimate for the construction was running several million dollars over budget. This included a cost overrun of some \$3 million for the fire protection and life safety systems. After reviewing the proposed design, our fire protection engineers found many errors in the building analysis and construction requirements. The resulting changes JMWA suggested saved the project \$2.5 million.

Andersen AB, Guam

- JMWA provided design review for a dormitory renovation project for multiple dorms. In addition, We provided fire protection consulting for an AAFES Bas Exchange under construction. Our consultation services saved the project nearly \$1 million.

King Salmon AFB, Alaska

- JMWA provided consulting support on the design for a power plant.

Yokota AB, Japan

- JMWA provided fire engineering support for designs at the Base Fitness Center and the Enlisted Club.



Federal Aviation Administration (FAA) Fire Engineering Support



JMWA provided fire protection engineering and Environmental, Safety and Occupational Health Support (ESOH) to the FAA Southwest Region (Texas, New Mexico, Oklahoma, Arkansas and Louisiana) and the Northwest Mountain Region (Oregon, Washington, Idaho, Utah, Wyoming, Colorado and Montana).

The work covered Air Traffic Control Towers, all base buildings attached to towers, Air Route Traffic Control Centers and Terminal Radar Approach Control (TRACON) rooms as well as separate TRACON facilities such as those at DFW Airport and George Bush International in Houston, TX. Fire protection work included initial site surveys, review of plans and specifications and bid packages to do the work necessary to complete the fire system upgrades.



JMWA reviewed contractor submittals associated with the work and the construction progress to assure work was proceeding per plans, specifications and the appropriate code/standard. Upon construction completion, we provided final review and testing of fire alarm systems, fire sprinkler systems, exit paths, fire stopping, evacuation provisions and certified fire systems for the FAA National Headquarters.

OTHER FAA FIRE AND LIFE SAFETY SUPPORT

- Acted as general contractor for the turnkey fire-life safety upgrade of several control towers. This project included installation of a new fire alarm system, demolition of the old system, installation of fire stopping between floors and rooms, installation of new emergency generator, lights and exit signs; and renovation of the mechanical system to provide exit stairwell pressurization.
- Provided facility fire and life safety assessments for five newly renovated Air Traffic Control Towers in Texas, Arkansas and Louisiana. The assessments were focused on the identification of fire and life safety design and construction deficiencies. Corrections were required to ensure compliance with national and local codes and standards. After identification of the deficiencies, we provided a compiled list with estimates of cost and time to correct for each deficiency.
- Performed routine fire system testing and inspection for all FAA facilities within the State of Alaska and all FAA facilities within the FAA Northwest Mountain Region. We provided design engineering support for fire/life safety upgrades for new and renovated facilities. We also assisted with implementation of new fire training programs at the FAA's national training center in Oklahoma City, and provided fire safety and confined space entry training.
- Developed and implemented safety programs required by the FAA and the Occupational Safety and Health Administration through job hazard analysis, conducting of the annual safety inspections, instructing safety relating training courses, conducting permit required confined space evaluations, updating safety data bases and providing site and worker specific technical assistance.



AWARDS OF RECOGNITION

For recognition of our outstanding business acumen, dedication to providing quality services and exemplary client relationships, JMWA has been honored with some of the industry's most prestigious awards including:

- 2010 District of Columbia Small Business Person of the Year Award
- 2010 Society for Marketing Professional Services National Marketing Communications Award: Newsletter Internal
- 2009 Air Force Design Merit Award, for Lackland AFB, TX, Recruit Housing and Training Master Plan
- 2009 SAME Industry Award to Small Business
- 2009 AEGIS Award
- 2008 Department of Veterans Affairs Enterprising Veteran of the Year Award
- 2007 Department of Defense Service Disabled Veteran Owned Small Business Achievement Award
- 2007 Science Applications International Company (SAIC) Small Business of the Year Award



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