James M. Woodruff P.E. CPP

Education:

BSEE, Wichita State University, 1969

Vulnerability Assessment Training
Certified Protection Professional Review Course, American Society for Industrial Security, September 1997
Asset Protection Course I, American Society for Industrial Security, November 1999
Security, Access control, and Crime Prevention Technologies, Iowa State University, June 2001
Remote Video Monitoring, American Society for Industrial Security, September 2001
Risk Assessment Methodology for Water (RAM-W^{sm}) Sandia National Laboratories August 5-7, 2002
Free Space Optics (Video/Data transmission), BICSI, August 2002

Registration:
1973 - Professional Engineer - Virginia - No. 7131
1993 - Professional Engineer - North Carolina - No. 19208
1996 - Professional Engineer - New Jersey - No. 39533
1996 - Professional Engineer - New Hampshire - No. 9125
1996 - Professional Engineer - Massachusetts - No. 39082
1998 - Professional Engineer - South Carolina - No. 18640

1997 - Certified Protection Professional (CPP) American Society of Industrial Security - No. 7854

Professional Affiliations and Activities

Member National Society of Professional Engineers (NSPE)
Member Society of Fire Protection Engineers (SFPE)
Member National Fire Protection Association (NFPA)
Member American Society of Industrial Security (ASIS)
Member Illuminating Engineering Society (IES)
Member Institute of Electrical and Electronic Engineers (IEEE)
Member BISCI

Summary of Experience:

With over 35 years of work experience in the electrical field, Mr. Woodruff has extensive experience in the design, installation, and maintenance of electrical and electronic systems. This experience includes the design of electrical power and lighting systems, life safety systems, and security systems for commercial, industrial, and government facilities. Mr. Woodruff has been the designer of record for hundreds of projects in this country and overseas beginning in 1971 and extending to date. Mr. Woodruff has authored detailed studies involving various lighting techniques for security lighting at nuclear weapons sites and classified electronics facilities worldwide. Mr. Woodruff has provided initial planning, design, and construction surveillance of high-level electronic security systems as well as physical security measures for Arms, Ammunitions, and Explosives for approximately twenty-five percent of the U.S. Navy facilities in the world and several U.S. Army Weapons Depots. Mr. Woodruff currently provides instruction for fire alarm designers and inspectors, fire alarm technicians, security managers, and security alarm technicians as a guest instructor for a

nationally recognized training firm. As part of the instruction team, Mr. Woodruff was tasked with teaching the set-up and programming of an extensive closed circuit television system to the heads of the Egyptian Government electronic security procurement, installation, and maintenance organizations. Mr. Woodruff was a guest instructor for several physical security classes given to the FAA security group to address their specific concerns and requirements.

Project Experience:

New Castle County, DE – Participate in design of security system for existing police station. Design included access control, CCTV, and intrusion detection.

Norfolk Juvenile and Domestic Relations Court, Norfolk, VA – Designed perimeter security system

Oceana Naval Air Station, Virginia Beach, VA – Designed central monitoring station for fire and security.

Norfolk Naval Station and Air Station, Norfolk, VA – Designed central monitoring station for fire and security and 911 operations. Station designed to receive and dispatch emergency services to five military facilities with a population of over 200,000 people.

Boston University Medical Center Boston, MA – Designed the electrical and electronic renovation, relocation, and consolidation of the security and building management central monitoring stations.

Genzyme Corporation Headquarters, Boston, MA – Design central security station for corporate headquarters.

Amgen Corporation, Thousand Oaks, CA – Survey existing security central station.

New Jersey Water Supply Authority, NJ – Participated in initial security survey of all Authority buildings (exclusive of dams and dikes)

Air National Guard Base, Muniz, PR – Designed the perimeter security system for the airfield (2 miles).

University of Virginia Charlottesville, VA - Designed and specified access control system for student housing division.

New River Marine Air Station, Jacksonville, NC – Designed the perimeter security system for the airfield.

Cherry Point Marine Air Station, Havelock, NC – Designed the perimeter security system for the airfield.

Roosevelt Roads Naval Air Station, PR – Designed the perimeter security system for the airfield.

Genzyme Corporation, Waterford, Ireland – Designed the security system for Biomedical production facility

Fuel Truck Parking Facility, U.S. Coast Guard Clearwater, FL – Designed access control system and area lighting