OT CYBERSECURITY FOR BUILDING SYSTEMS

Ensuring cyber safety in the built environment

Michael Baker
INTERNATIONAL

BUILDING YOUR CYBER RESILIENCE

Ensuring cyber safety in the built environment is a critical challenge as building assets and systems become more digital and intelligent. Building systems for HVAC, fire, lighting, utility and access control, among other functional areas, are increasingly vulnerable to adversaries and cyber-attacks, placing people and processes at risk for life-safety, productivity, financial, regulatory and brand management incidents.

As a real estate professional, you understand the dependance of data and technology within your operations. Our seasoned team of operational technology (OT) cybersecurity experts have years of experience in technology, security and real estate to help you create a thorough cybersecurity roadmap to review your facility's risks and develop an action plan to manage and mitigate them.

BUILDING Cyber Security

We are a proud sponsor and partner of Building Cyber Security and are working with the organization to build standards specifically for building control systems based on International Society of Automation (ISA) 62443 and Center for Internet Security controls.

We Make a Difference

KEY CYBERSECURITY PERSONNEL

Our growing team has 150+ years of combined industry experience.

FRED GORDY
Director, Commercial Cybersecurity
Years Experience: 20+

BRIAN MAY, COL, USAF (RET)
President, Federal Programs and Services
Years Experience: 30+

SUSAN HOWARD, CISSP
National ICS/OT Cybersecurity Lead
Years Experience: 40+

AARON MORRIS, GISP
National Geospatial Lead
Years Experience: 20+

JAMES ROBERTS, BAS VENDOR CERTIFIED
Sr. Cybersecurity Architect
Years Experience: 30+

LANCE MACKIE, P.E., RCDD, LC, LEED AP
Department Manager, Electrical
Years Experience: 30+

National Initiative for Cyber Education Strategic Planning

General Services Administration

Michael Baker provided program management, stakeholder outreach and strategic writing support for the National Protection & Programs Directorate's Office of Cybersecurity and Communications, which plays a lead role in safeguarding and securing cyberspace. Support encompassed the development of strategic documents related to cybersecurity awareness campaigns and efforts.

Airborne Warning and Control System Hangar and Alert Facility

Joint-Base Elmendorf-Richardson, Alaska

Michael Baker is responsible for the secure and non-secure communications cable onsite and inside the renovated hangar and adjacent new alert facility. The cybersecurity designs entail security systems for the buildings, consisting of intrusion-detection equipment, access control, video surveillance, closed-circuit television and a public address system, all of which comply with intelligence community requirements for secure work areas.

Employee Certifications

- Building Control System Manufacturer Certifications
- Certified Ethical Hacker
- Certified Information Systems Security Professional
- Certified Cloud Security Professional
- CompTIA Security+
- Computer Hacking Forensic Investigator
- GIAC Certified Intrusion Analyst
- Registered Communications Distribution Designer

CAPABILITIES

CYBERSECURITY ADVISORY

- Cyber Commissioning
- Disaster Recovery Planning
- Design Review
- Incident Response
- Service Provider Management
- Staff Training
- Standards & Guidelines
- Tabletop Exercises

CYBERSECURITY ASSESSMENTS

- Asset Collection
- Backup Strategies
- Configuration Review
- Event Readiness
- Network Connectivity Review
- Processes & Procedures
- Risks & Vulnerability
- Service Providers

Visit mbakerintl.com to learn more about our capabilities and iconic projects.

CONTACT

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"Human safety in facilities must start with expert planning and design across all disciplines for technologies and their cybersecurity. The national leaders in engineering and consulting services who offer these services will protect the future."

– HON. LUCIAN NIEMEYER
Former Assistant Secretary of Defense for Energy, Installations and Environment

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WE DELIVER SMART BUILDING CYBERSECURITY TO MINIMIZE RISKS AND MAXIMIZE SECURITY.

RISK ASSESSMENTS
Real-world risk assessment of building control systems.

DESIGN REVIEW
System design review for operational technology resilience.

CYBER COMMISSIONING
Post implementation vendor compliance.

STAFF TRAINING
Operational technology cybersecurity best practices.

POLICY AND GUIDELINE DEVELOPMENT
Operational technology standards built on ISA, NIST and CIS requirements.

TABLETOP EXERCISE
Experience-led exercises to determine building control system event readiness.