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Utility Monitoring & Control Systems (UMCS)

**Chuck Holland
UMCS Technical Deputy**

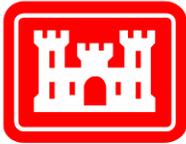


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Who We Are



- **Mandatory Centers of Expertise (MCX)**
 - **Utility Monitoring & Control Systems (UMCS)**
 - **Electronic Security Systems (ESS)**
- **Directorate of Expertise (DX)**
 - **Heating, Ventilating, and Air Conditioning (HVAC) Systems**



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What it is



- **Utility Monitoring & Control Systems (UMCS)**
 - HVAC Monitoring and Controls
 - Building Automation Systems
 - Metering Systems
 - Lighting Controls
 - Chemical/Biological Controls
 - Utility Systems Monitoring and Controls



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What We Do



- **Project Management (cradle to grave)**
- **Technical Support**
- **Contract Administration**

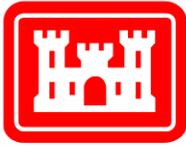


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Customers Who Have Utilized Our Contracts



- **U.S. Army**
- **U.S. Air Force**
- **U.S. Navy**
- **U.S. Marines**
- **National Guard**
- **Corps Districts**
- **Pentagon Renovation Program**
- **National Institutes of Health**
- **USMA, West Point**
- **National Weather Service**
- **Department of Veterans Affairs**
- **Food and Drug Administration**
- **Bureau of Reclamation**
- **Centers for Disease Control**
- **John F. Kennedy Center**
- **General Services Administration**

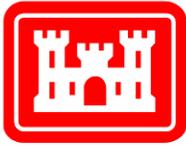


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Other Related Programs



UMCS Task Order Contracts may include related disciplines for replacement and installation of systems that require controls and monitoring



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Included In Contracts



- **Contract Includes Procurement, Installation and Service of:**
 - **Building Automation/ Energy Management Systems**
 - **HVAC Systems**
 - **Fire Alarm and Life Safety Systems**
 - **Supervisory Control and Data Acquisition (SCADA) Systems**
 - **Electronic Security Systems**
 - **Maintenance and Service of Systems**

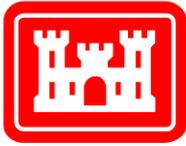


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HVAC



- **Heating, Ventilation and Air Conditioning Systems:**
 - **Chillers**
 - **Boiler Replacement**
 - **Air Handlers**
 - **VAV & Fan Coil Replacements**
 - **Duct Work**



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Fire and Life Safety Systems



- **Fire Detection**
- **Alarms**
- **Smoke Control**

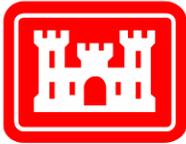


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SCADA



- **Supervisory Control and Data Acquisition (SCADA) Systems:**
 - **Electrical Distribution**
 - **Gas/Oil Distribution**
 - **Water Distribution**
 - **Waste Water Treatment**

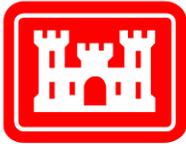


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ESS



-
- **Electronic Security Systems Mandatory Center of Expertise (MCX)**
 - **Card Access Systems**
 - **Closed Circuit TV (CCTV)**
 - **Physical Security**



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Specific Contract Requirements



Required Specifications:

- UFGS 23 09 23 (CEGS 15951) – Direct Digital Control for HVAC and Other Local Building Systems (LON)**
- UFGS 25 10 10 (CEGS 13801) – Utility Monitoring and Control Systems (LON)**
- UFGS 25 08 10 (CEGS 13810) – Utility Monitoring and Control System Testing (LON)**
- UFGS 25 10 10.10 01 (CEGS 13807) – Utility Monitoring and Control System Testing (NonLON)**
- UFGS 25 08 10.10 01 (CEGS 13807) – Utility Monitoring and Control System Testing (NonLON)**
- (CEGS 16799) – Supervisory Control and Data Acquisition (SCADA) System**

Numerous HVAC, FAS, ESS, and Other Specifications



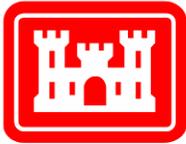
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Submittal Requirements



Technical Data Packages: (See Specification 13807)

- TDP-1 Design, Mfg. Cut Sheets, Block Diagrams
- TDP-2 Site Survey Report
- TDP-3 Factory Test Procedures
- TDP-4 Performance Verification Test Procedures (PVT)
- TDP-5 Operation & Maintenance Manuals
- TDP-6 As-Built Drawings



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Project Follow Thru



- **Technical Services for Submittal Reviews and On-Site Inspections and Testing**
- **Invoice Payment Management**
- **Schedule Management**
- **Funds Management**
- **Contract Administration**
- **Project Close-out**