URS

FEDERAL

Strategy and Solutions for Challenges in the Electromagnetic Spectrum

URS' EXPERTISE IN EMS

- Electromagnetic Interference/ Electromagnetic Compatibility (EMI/EMC)
- Electromagnetic Vulnerability (EMV)
- Electromagnetic Pulse (EMP)
- Hazards of Electromagnetic Radiation to Ordnance, Personnel and Fuel (HERO/HERP/HERF)
- Surface Electronic Warfare Improvement Program (SEWIP)
- ALQ-99 Tactical Jamming System and Next Generation Jammer
- Joint Counter RCIED Electronic Warfare (JCREW) System

VALUE OF WORKING WITH URS

URS has worked for 25 years to provide practical and creative technical solutions to ever evolving and complex problems of managing the electromagnetic spectrum (EMS). Whether it's working to assess weapon systems vulnerabilities against electromagnetic energy (EME), helping to mitigate Electromagnetic Environmental Effects (E3), using engineering talent to investigate and evolve Electronic Warfare (EW) tactics or analyzing evolving threats, URS can get the job done.

STRATEGIC VISION

URS has expert level insight into EMS trends and developments both in government and industry. URS' understanding of EMS enables URS to collaborate with government and industry to develop and shape the future of EMS solutions through strategic vision and roadmaps, cross-organizational access, and measureable results.

OPERATIONAL RELEVANCE

URS combines its executive level leadership, productive relationships with the key EMS stakeholder organizations, and direct tactical, operational and strategic leadership in the Services across multiple Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel and Facilities (DOTMLPF) challenge areas. URS has the people, the relationships and the experience to help you resolve today's most demanding challenges.

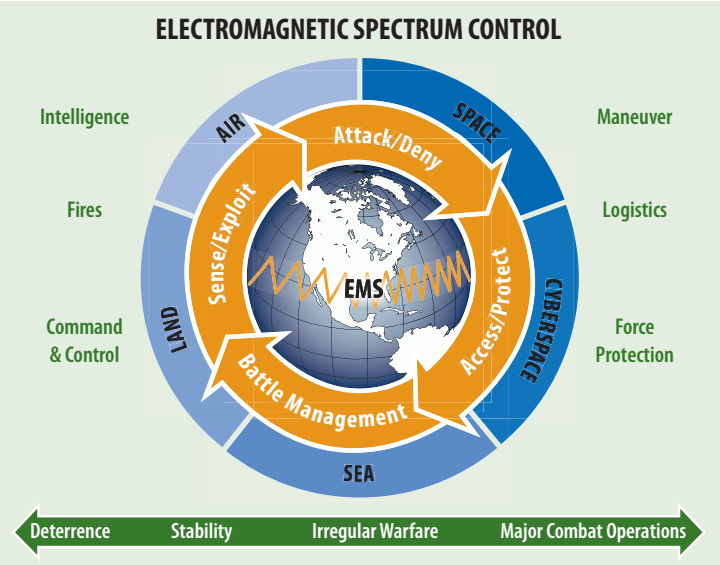
EXPERIENCE AND EXPERTISE

Executive level leadership backed by 25 years of corporate experience across all warfighting domains and from outside DoD provides a range of experience with different technical and strategic challenges. Our combined corporate and executive experience has solved EMS challenges for organizations such as:

- Naval Sea Systems Command (NAVSEA)
- Naval Air Systems Command (NAVAIR)
- Australian Ministry of Defence, Defence Science and Technology Organisation
- Naval Surface Warfare Centers (NSWC) Crane and Dahlgren
- Joint Electronic Warfare Center (JEWC)
- Joint Spectrum Center (JSC)
- Joint CREW Composite Squadron One (JCCS-1)
- Navy Tactical Electronic Attack Squadrons (VAQ)
- Marine Tactical Electronic Warfare Squadrons (VMAQ)
- U.S. Marine Corps Radio Battalions

REALIZING SUCCESS IN CONVERGENCE OF CYBERSPACE AND THE ELECTROMAGNETIC SPECTRUM

URS delivers leadership and technical solutions to solve today's complex challenges in Cyberspace and in the Electromagnetic Spectrum through technical expertise and knowledge of emerging and future technologies. Our expertise and experience has helped organizations overcome the recognized barriers across Spectrum Management (SM), Electronic Warfare (EW), and Computer Network Operations (CNO) organizations. URS excels at understanding and utilizing the critical convergence among traditional disciplines, maximizing the operating capabilities and capacities for today and in the future.



Understanding the pervasive impact of the electromagnetic spectrum across all domains essential for warfare, security and the most basic support functions is essential to operate in the modern digital environment. URS uses this knowledge to deliver the customer's success and help our customers save lives.

PROOF OF PERFORMANCE

- Electromagnetic Environmental Effects (E3) challenges related to the Ship Air Defence Model (SADM) for the Australian Ministry of Defence
- A Hazards of Electromagnetic Radiation to Ordnance (HERO) survey at Naval Support Facility Diego Garcia
- Modeling and Simulation support for the Integrated Topside (INTOP) Program
- Technical support for the "Nulka" active missile decoy
- Integrated antenna pattern analysis for the Counter RCIED Electronic Warfare (CREW) system used to neutralize Improvised Explosive Devices
- A spectrum management study to assess Worldwide Interoperability for Microwave Access (WiMAX) for the AN-SPY-1 system

CASE STUDY: SPECTRUM MANAGEMENT FOR THE AN-SPY-1

The AN-SPY-1 system - the core of the AEGIS Ballistic Missile Defense (BMD) system – needed an assessment of Worldwide Interoperability for Microwave Access (WiMAX). The importance of the AEGIS BMD is due to its demonstrated success and flexibility in dealing with ballistic missile threats. URS was engaged in the assessment of frequencies used at shipyards and land-based test sites to ensure total awareness of possible EM problems. URS used Modeling & Simulation tools to aid in the analysis of EM congestion and interference between shipboard and shore based systems – both civilian and military – to ensure this vital system to national security was not impaired in its operation regardless of where it operates. As a result, this AEGIS BMD system is able to be utilized to its maximum extent possible thereby supporting an effective defense against ballistic missile threats to the U.S.

FOR MORE INFORMATION, PLEASE CONTACT:

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POWER INFRASTRUCTURE FEDERAL INDUSTRIAL & COMMERCIAL

URS Corporation is a leading provider of engineering, construction and technical services for public agencies and private sector companies worldwide. We offer a full range of program management; planning, design and engineering; systems engineering and technical assistance; construction and construction management; operations and maintenance; and decommissioning and closure services for power, infrastructure, industrial and commercial, and federal projects and programs.

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