



ISMSOLUTIONS, Inc.
A Balanced Approach

Services and Expertise

ISMSolutions delivers high-value management and technical consulting services at affordable rates. We offer a depth of expertise and a range of specialized services.

- ❖ Engineering & Nuclear Operations
- ❖ Nuclear Safety Licensing
- ❖ Quality Assurance & Commercial Grade Dedication
- ❖ Management / Independent Reviews / Readiness Reviews
- ❖ Safety & Health
- ❖ Environmental & Regulatory Compliance
- ❖ Program / Project Management
- ❖ Nuclear Safety Culture
- ❖ Strategic & Acquisition Planning
- ❖ Safeguards & Security

❖ Engineering & Nuclear Operations

- ◆ Nuclear operations, maintenance, modifications, repairs, equipment design, & testing
- ◆ Startup testing of nuclear and non-nuclear systems
- ◆ Design / process reviews
- ◆ Systems engineering & integration
- ◆ Maintenance and work control
- ◆ Configuration management
- ◆ Conduct of operations
- ◆ Nuclear and radiological safety programs
- ◆ Instrumentation & controls
- ◆ Welding and non-destructive testing
- ◆ Criticality safety evaluations & analysis
- ◆ Fire protection engineering & code compliance including fire hazards analysis
- ◆ Nuclear explosive operations
- ◆ Research, development & testing
- ◆ Advanced nuclear engineering design

❖ Nuclear Safety Licensing

- ◆ Nuclear regulations, licensing, & standards
 - 10 CFR 830, Subpart B – Nuclear Safety Management
 - Price Anderson Amendment Act (PAAA)
- ◆ Safety basis development, review, & implementation
 - Documented Safety Analyses (PDSAs / DSAs)
 - Final Safety Analysis Reports (PSAR / FSAR)
 - Safety Evaluation Reports (SERs)
 - Technical Safety Requirements (TSRs)
 - Unreviewed Safety Questions (USQs)
 - Justification for Continued Operation (JCO)
- ◆ Hazards / Accident Analysis / Risk Assessments
 - Preliminary Hazards Analysis (PHA)
 - Failure Mode & Effects Analysis (FMEA)

DUNS: 078636196 CAGE: 6SRM5

GSA Contract: #47QRAA21D0087

NAICS Codes: 541990, 541330, 541620, 541690, 541618, 541611, 541712, 561210, 561320, 562910, 611430, 611699, 336611

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- Hazard & operability studies (HAZOP)
- Fault Tree Analysis (FTA) & Event Tree Analysis (ETA)
- ◆ Consequence / probabilistic risk assessments
- ◆ Radiological & chemical dispersion analysis (MACCS, HOT SPOT, ARCHIE)
- ◆ Hazard categorization of nuclear facilities & safety classification of SSCs
- ◆ Criticality safety evaluations & analyses
- ◆ Fire protection engineering & code compliance including fire hazards analysis
- ◆ Nuclear operations
 - Conduct of Operations
 - Conduct of Maintenance
 - Work control & work planning (procedure walk-downs)
 - Mentoring / training
- ◆ Nuclear material packaging & transportation
 - Type B packaging; engineering & certification
 - SARP development & review
 - Transportation Safety Document
 - Special Nuclear Materials packaging & transportation
 - Compliance to DOT requirements
 - Transportation security

❖ QA & Commercial Grade Dedication

- ◆ Quality Assurance Programs to meet:
 - ANSI / ASME NQA-1 standards
 - DOE Orders / Guides (414.1D)
 - 10 CFR 50 Appendix B
 - ISO 9000
- ◆ Quality assurance audits & reviews
- ◆ Certified auditors / assessors
- ◆ Computer software quality
- ◆ Commercial Grade Dedication (CGD) program
- ◆ Training instructors for Nuclear Quality Assurance / CGD training courses
- ◆ Performing CGD:
 - Technical evaluations of safety function
 - Maintenance of equipment qualification
 - Selection of critical characteristics
 - Acceptance methods & sample plans
 - Commercial-grade surveys
 - Assessments & audits
 - Mentoring / training



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❖ Management / Independent Reviews / Readiness Reviews

- ◆ Integrated Safety Management System (ISMS) program development & validation
- ◆ Environmental Management System (EMS) planning & implementation
- ◆ Performance assurance
- ◆ Independent technical & management assessments
- ◆ Startup & Operational Readiness Reviews (ORRs)
- ◆ Readiness assessments
- ◆ Line management reviews
- ◆ Inspections & audits
- ◆ Operational testing program
- ◆ Procedure development
- ◆ Mentoring program
- ◆ Requirements tailoring / streamlining

❖ Safety & Health

- ◆ Radiological protection (10CFR835)
 - Radiological Protection Program assessments including 10CFR835 triennial assessments
 - Radiation exposure, dose & effects assessment
 - Radiological release, transport & pathways analysis
 - Historical dose reconstruction
 - MARSSIM process
- ◆ Occupational safety (10CFR851)
- ◆ Industrial hygiene
- ◆ Hazardous materials & chemical management
- ◆ Occupational medicine
- ◆ Emergency planning & preparedness support
 - Program auditing & implementation
 - Emergency exercise planning, conduct, & evaluation
 - Scenario development & fault / event tree prep
- ◆ Fire protection
- ◆ Explosives & weapons safety

❖ Environmental & Regulatory Compliance

- ◆ Regulatory policies, requirements & standards (NRC, EPA, RCRA, CERCLA, OSHA, NEPA, State)
- ◆ Regulatory compliance, including NRC licensing support
- ◆ Environmental protection, monitoring, surveillance & oversight
- ◆ Nuclear safety enforcement program / policy (PAAA)
- ◆ Advancing & licensing new nuclear power plants
- ◆ Permitting programs
- ◆ Interaction with federal, state & local government & regulatory agencies

❖ Program / Project Management

- ◆ Project reviews – Technical Readiness Assessments, Independent Project / External Project Reviews (IPR / EIR), Construction Project Reviews (CPRs)
- ◆ Preparing critical decision documents including project execution plans, risk management plans, acquisition strategy, safety design strategy, safety design reports, & tailoring strategy
- ◆ Project planning, budget, estimating, & scheduling
- ◆ Project controls
- ◆ Earned Value Management System (EVMS)
- ◆ Performance incentive development
- ◆ Life cycle cost estimates

❖ Nuclear Safety Culture

- ◆ Safety Conscious Work Environment (SCWE)
- ◆ Human Performance Improvement (HPI)
- ◆ Risk Communication
- ◆ Employee Concern Program

❖ Strategic & Acquisition Planning

- ◆ Source Evaluation Board (SEB) support
- ◆ Preparing RFPs & RFIs
- ◆ Strategic & acquisition planning
- ◆ Bid proposal preparation & review including coaching for orals
- ◆ Contract transition

❖ Safeguards & Security

- ◆ Nuclear material accountability
- ◆ Safeguard & security assessments
- ◆ Radiological & toxicological sabotage vulnerability assessments
- ◆ International Atomic Energy Agency (IAEA) inspections
- ◆ Transportation security

Contact us



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