

MILLENNIUM

SERVICES

CORPORATE OVERVIEW

Unlock a World of Solutions

*Providing Expert Radiological Support Services
Since 1996*

**PREPARED BY:
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CORPORATE OVERVIEW

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CORPORATE PHILOSOPHY

*"A total commitment is paramount
to reaching the ultimate in customer satisfaction."*

Millennium Services, Inc. is dedicated to providing innovative and cost-effective radiological support services of the highest quality available in the industry. This service goal is achieved through our total commitment to the success of our customers, and the treatment of each contract as a partnership. Simply stated, we believe if a better service can be provided, then a good service is just not enough.

WELCOME TO MILLENNIUM SERVICES, INC.

CORPORATE PROFILE

Millennium Services, Inc. is an Atlanta based small business providing professional radiological support services to the commercial nuclear power industry, Department of Energy, Department of Defense, and private By-Product and Source Material licensees. Our specific areas of expertise include Health Physics program development, implementation, management, and assessment, as well as the design and execution of innovative site closure strategies and radiological surveys through application of the *Multi-Agency Radiation Survey and Site Investigation Manual* (MARSSIM) using advanced, state-of-the-art survey technologies. All of our services are provided with a focus on maintaining continuous communication and feedback to our clients. This helps ensure complete satisfaction, and ultimate acceptance of all project deliverables.

The extensive experience of our corporate staff makes **Millennium Services, Inc.** one of the most highly qualified companies of its kind in the industry. Our key personnel have over 90 years of relevant experience including, operational Health Physics experience at all levels of supervision and management. Our principals have collectively participated in the licensing and startup of four nuclear power plants, numerous refueling outages, and have served as Radiation Protection Managers at three multi-unit PWR and BWR reactor sites.

Millennium Services, Inc. personnel are also experienced in the development and implementation of License Termination Plans (including DCGLs), Health & Safety Plans, Survey Plans (Characterization, Remedial Action Support, Final Status, Free Release and Verification), and Quality Assurance Plans. Field execution of these plans including, final reports issued upon completion of the remediation activities, have resulted in acceptance by the appropriate regulatory authority, and license termination with unrestricted release of the site. We have provided project management, Radiation Safety Officers, training, and on-site supervision of field personnel for a broad spectrum of D&D projects ranging in size from a handful to hundreds of on-site personnel.

Millennium Services, Inc. personnel have managed and operated Health Physics and D&D programs that have gained national prominence for safety performance, schedule adherence and cost control. We are innovative, flexible, responsive, and are well versed in all elements of business, finance, and both commercial and governmental contract management. This impressive background is the cornerstone of a client oriented, professional services organization which is committed to providing the highest quality of services available, with a full recognition of the cost control requirements of today's competitive environment.

KEY PERSONNEL

The principal founders of **Millennium Services, Inc.** form a core group of talented, qualified individuals, who are committed to providing the finest quality of services while always maintaining the highest standards of integrity and business ethics. Our key personnel have over eighty years of technical, management, and business experience in the commercial nuclear power industry, DOE, DOD and private sector. We have served as Radiation Protection Managers, Radiation Safety Officers, Plant Superintendents, Corporate Officers, Contract Administrators, Employing Officers, and Project Managers. We have also provided expert assistance and legal testimony in a variety of instances. Our staff possesses the necessary combination of education and experience to provide fast response and effective oversight of field support personnel.

Our experience in government contract administration and accounting includes familiarity with various types of contracts, e.g., cost plus, firm-fixed price, and T&M. We have developed policies, procedures, accounting systems, and organizational controls acceptable for the management and execution of these types of contracts, and have a working knowledge of FARs and DCAA audit protocol.

CORPORATE SERVICES

Millennium Services, Inc. provides broad scope professional support services. Our services are available on a consulting, task-specific, turnkey, or staff augmentation basis. In every case, we provide a cost-effective, high quality service designed to meet each client's specific needs.

Our services can be generally categorized as follows:

HEALTH & SAFETY

RADIOLOGICAL SURVEYS & SITE INVESTIGATION & CLOSURE / DECONTAMINATION & DECOMMISSIONING (D&D)

MANAGEMENT SERVICES

REGULATORY COMPLIANCE

Our primary SIC Codes are:

8744 Facilities Support Management Services

8742 Management Services

8711 Engineering Services

Our primary NAICS Codes are:

541620 Environmental Consulting Services

541690 Other Scientific and Technical Consulting Services

562910 Remediation Services

A complete overview of our corporate capabilities is presented in the following sections.

HEALTH & SAFETY

PROGRAM & PROCEDURE DEVELOPMENT

OPERATIONS

RADIOLOGICAL SURVEYS

ASSESSMENTS & REVIEWS

RECORDS MANAGEMENT

TRAINING & QUALIFICATION

RADIOLOGICAL ENGINEERING

INCIDENT RESPONSE

Our team of experienced Health Physicists can provide expert assistance in a wide variety of Health & Safety areas. Capabilities range from professional staff augmentation to the development and implementation of full scale Health & Safety and Radiation Protection plans, programs and procedures. We guarantee any program or plan developed by **Millennium Services, Inc.** will meet the unique needs of the client and will be accepted by the appropriate regulatory authority. We offer advanced radiation survey technologies and data management services, and specialize in the characterization and mapping of contamination, as well as the validation of *free-release* programs. Our team of professional Health Physicists is available to assist clients in responding to unusual events or radiological incidents.

HEALTH & SAFETY

PROGRAM & PROCEDURE DEVELOPMENT:

- ◆ Health & Safety
- ◆ Radiation Protection / Health Physics
- ◆ Respiratory Protection & Exposure Monitoring
- ◆ ALARA
- ◆ Effluent & Environmental Monitoring
- ◆ Instrumentation Maintenance & Calibration

OPERATIONS:

- ◆ Turnkey Implementation of Programs & Procedures
- ◆ Consulting
- ◆ Radiological Surveys
- ◆ Professional Staff Augmentation
- ◆ Training & Qualification
- ◆ Contamination Control
- ◆ Quality Assurance
- ◆ ALARA

ASSESSMENTS & REVIEWS:

- ◆ Management & Performance Reviews
- ◆ Regulatory Compliance
- ◆ FSAR
- ◆ Pre-NRC, DOE or INPO Assessment
- ◆ Emergency Planning
- ◆ Records Management

TRAINING & QUALIFICATION:

- ◆ Radworker
- ◆ Safety
- ◆ Health Physics & Decontamination Technicians
- ◆ Job / Task Analysis & Program Development
- ◆ Professional Development (including Instructor Training)

RADIOLOGICAL ENGINEERING:

- ◆ Work Plan Development & Cost Estimating
- ◆ ALARA Reviews of Work Packages/Modifications & Shielding Design
- ◆ Waste Classification

RADIOLOGICAL SURVEYS & SITE INVESTIGATION & CLOSURE

APPLICATION OF MARSSIM

INITIAL ASSESSMENT

PROJECT PLANNING

RADIOLOGICAL SURVEYS

*LICENSE TERMINATION &
FINAL CLOSURE*

Millennium Services, Inc. offers comprehensive support throughout all phases of the Radiation Survey and Site Investigation Process, as well as Decontamination and Decommissioning (D&D) and site closure activities. We have supported both large and small-scale D&D projects, and have a detailed understanding of the demands of such projects. We have a thorough understanding and commitment to the varied and extensive regulatory requirements, and are experts in the Health & Safety, Radiological Protection, and management aspects of these types of projects.

We offer creative free release processes and innovative site closure strategies, and specialize in the design and performance of radiological surveys through application of the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) using conventional, as well as advanced, state-of-the-art, survey and data management technologies.

Our *Surface Contamination Monitor / Survey Information Management System (SCM/SIMS)* has been recognized by the DOE as a *Blue Chip Technology for Schedule (acceleration of project schedules) and Performance* (DOE/EM-0524, Major Progress in Key Problem Areas, April 2000). This patented state-of-the-art technology (first described in NUREG/CR-6450) allows us to perform the detailed surface contamination surveys required during the characterization, remediation, and final status/free release phases faster, more cost-effectively, and with more accuracy and sensitivity than competitive technologies and methodologies, while meeting or exceeding both site specific and statutory performance criteria. The system employs a patented Position Sensitive Proportional Counter based system that automatically acquires survey data and pinpoints the specific location of any radioactivity present. The large area detectors and the ability to localize areas needing remediation results in significant schedule and cost savings. The Survey Information Management System (SIMS) software rapidly analyzes the survey data and generates easy to interpret digital visual images, and detailed, objective survey reports. The SIMS can be used to manage all survey data and survey results can be

overlaid on drawings and/or maps. SIMS advanced reporting functionality can be customized to match the needs of a particular project or situation.

“...The SCM/SIMS proved to be superior to the conventional, handheld approach from productivity and cost standpoint. The use of the SCM/SIMS demonstrated a 25 to 34 fold increase in efficiency...the SCM/SIMS resulted in a cost savings of 40%...” (Cost and Performance Report, Advanced Site Technology Deployment, USDOE).

We are also experienced in the performance of land area surveys. We have used a variety of different approaches and technologies, ranging from basic walk-over NAI based surveys, to advanced technology. The SIMS can also be used to and manage, report, and track this survey data.

RADIOLOGICAL SURVEYS & SITE INVESTIGATION & CLOSURE

(APPLICATION OF MARSSIM)

INITIAL ASSESSMENT:

- ◆ Development of Data Quality Objectives
- ◆ Historical Site Assessment (HSA) / Records Research
- ◆ Scoping Surveys
- ◆ Site Characterization
- ◆ Area Classification
- ◆ Interface with Regulators

PROJECT PLANNING:

- ◆ Dose Modeling
- ◆ Development of DCGLs
- ◆ D&D Plan Preparation
- ◆ Health & Safety Plans
- ◆ Radiation Protection Plans
- ◆ License Termination Plans
- ◆ Final Status Survey Plans
- ◆ Quality Assurance Plans

D&D OPERATIONS:

- ◆ Project Management & Scheduling
- ◆ Radiation Protection Support Services
- ◆ Remedial Action Support Surveys
- ◆ Health & Safety Oversight

WASTE MANAGEMENT:

- ◆ Assay, Characterization, & Packaging
- ◆ Preparation of Shipping Documents
- ◆ Coordination of Transportation & Disposal

FINAL CLOSURE:

- ◆ Unrestricted Release of Site
- ◆ License Termination & Final Surveys
- ◆ Preparation of Final Reports
- ◆ Verification and Confirmation

MANAGEMENT SERVICES

PROGRAM ASSESSMENT

STRATEGIC PLANNING

OPERATIONAL READINESS REVIEWS

Millennium Services, Inc. senior consultants have extensive technical and management experience, and have often held positions with direct responsibilities and authorities matching those of our clients. As a result, we are uniquely qualified to offer assistance and insight based on an in-depth understanding of our customers' needs and objectives. In addition, our experience in the commercial nuclear, government, and private sectors allows us to offer a broad perspective, with the ability to introduce our clients to ideas and concepts which are successful in other market segments. We have provided our services to the highest levels of management, and are consistently commended on the quality of our recommendations and the positive impact achieved through implementation of our suggestions. In many cases, we are asked to return periodically to further status programs for management and provide additional feedback.

MANAGEMENT SERVICES

PROGRAM ASSESSMENTS:

- ◆ Operational Health Physics Programs
- ◆ Health & Safety Programs
- ◆ ALARA Programs
- ◆ Contamination Control Programs
- ◆ Records Management
- ◆ Effluent Monitoring Programs
- ◆ Dosimetry Programs
- ◆ Training Programs
- ◆ Root-Cause / Lessons Learned Analysis

STRATEGIC PLANNING:

- ◆ Staffing Analysis
- ◆ Re-Engineering / Right-Sizing Assistance
- ◆ Cost Estimating & Budgeting
- ◆ Commitment Planning & Tracking

OPERATIONAL READINESS REVIEWS:

- ◆ Regulatory Compliance
- ◆ Training & Qualifications of Personnel
- ◆ Performance Monitoring & Measurement
- ◆ Quality Assurance

REGULATORY COMPLIANCE

LICENSING SUPPORT

INTERPRETATION OF REGULATIONS

INTERFACE WITH REGULATORS

Millennium Services, Inc. personnel have had significant interaction with various Federal and State regulatory agencies throughout their careers. We have been directly involved with the licensing of commercial nuclear power plants, as well as private facilities, and have extensive experience in the interpretation and implementation of Agreement State, USNRC, EPA, DOD and DOE regulatory requirements. We are well versed in those statutes relating to Radiation Protection, Health & Safety, License Termination, and Radioactive Waste Management, and offer our clients creative strategies and means to implement these regulations in a practical, cost-effective manner. Finally, we effectively represent our clients and their programs to regulators, and often mitigate any concerns prior to the completion of the on-site evaluation, audit, or inspection.

REGULATORY COMPLIANCE

LICENSING SUPPORT:

- ◆ License Application
- ◆ Amendment Requests
- ◆ Renewals
- ◆ Termination of License
- ◆ Radiation Safety Program Development
- ◆ Training Programs
- ◆ Radiation Safety Officers & Technicians

INTERPRETATION OF REGULATIONS & GUIDELINES / COMPLIANCE REVIEWS:

- ◆ 10 CFR 19, 20, 30, 40, 50, 60, 835
- ◆ Multi-Agency Radiation Survey & Site Investigation Manual (MARSSIM)
- ◆ 29 CFR
- ◆ 40 CFR 141
- ◆ DOE Orders & Implementation Guides
- ◆ NRC Regulatory Guides
- ◆ NUREG/CR - 5512, 5849, 1507
- ◆ Agreement State Regulations
- ◆ INPO Guidance Documents

INTERFACE WITH REGULATORS:

- ◆ Program Presentations
- ◆ On-site Support During Inspections

INSPECTION RESPONSE:

- ◆ Corrective Action Identification & Implementation
- ◆ Follow-up With Regulators

TABLE 1: INDUSTRY REFERENCES

SITE	CONTACT
Tennessee Valley Authority Watts Bar Nuclear Plant Spring City, TN	Mr. Bryan Belvin Radiation Protection Manager (423) 365-1007
Maine Yankee Atomic Power Wiscasset, ME	Mr. Jim Connell Vice President and Chief Nuclear Officer (207) 882-1312; (860) 573-4001 (Cell)
Yankee Atomic Electric Company Yankee Rowe Rowe, MA	Mr. Lloyd "Rocky" Benner Director of Decommissioning (207) 313-3530 (cell)
Restoration Services, Inc. ETTP (K-25) Oak Ridge, TN	Mr. Rick Ferguson Vice President (865) 241-1148
Exelon Nuclear 200 Exelon Way Kennett Square, PA	Mr. Jamie Mallon, CHP Licensing Manager (610) 613-5109 (cell)

TABLE 2: SAMPLE PROJECTS

Project Name / Client	Services Provided
<p align="center">TVA / Watts Bar Nuclear Plant</p>	<p>Millennium Services is supporting TVA in the free release of the Watts Bar Unit 2 Containment and Annulus from the Unit 1 Radiologically Controlled Area (RCA) in support of the construction of Unit 2. We are responsible for the design of the free release survey, development of the survey plan and detailed survey work packages, performance of radiological surveys using our Surface Contamination Monitor / Survey Information Management System (SCM / SIMS), review of surveys performed with conventional handheld instrumentation, development of reports for each survey area and generation of the final report.</p> <p>Millennium Services also supported the plant by performing a SOER 2001-1, Unplanned Radiation Exposures, assessment of the Radiation Protection Program. Millennium provided station management with a “hands-on”, forward-looking, detail oriented assessment of the RP program relative to the recommendations found in the INPO SOER, and developed specific plans to improve performance where applicable. The Site Vice President commended Millennium’s efforts, and all of the assessment recommendations were accepted.</p>
<p align="center">ETTP / Restoration Services, Inc.</p>	<p>Radiological surveys for site characterization and technical support services at the East Tennessee Technology Site (ETTP). Assisted in the development of integrated Data Quality Objectives for the D&D of K-25. Effort has included a targeted historical site assessment of radiological survey data, the determination of additional data needs, and the evaluation of field measurements to support nuclear criticality incredibility determination at K-25. Currently supporting Characterization and Inventory Management efforts in building K-25.</p>
<p align="center">Fernald Site Closure / Fluor Fernald</p>	<p>Services included the design and performance of radiological surveys of concrete pads, walls, roadways, and land areas in support of D&D activities and for free release, as well as the identification of sampling locations for core bores. Sampling points were determined by identifying the locations with the highest levels of surface activity, and samples were obtained for analysis relative to EPA guidelines for onsite burial. The services provided by Millennium Services included:</p> <ul style="list-style-type: none"> • Development of procedures and Survey Work Packages (SWP) for each of the survey areas; • Project management and radiological engineering support; • Design and performance of characterization, remedial action support, and final status surveys using SCM/SIMS advanced survey technology; • Determination of sampling locations; • Survey data management; • Quality assurance review of final status survey data; • Development of survey reports for each survey area and Final Status Survey Reports summarizing the results; <p>Performance of gamma walkover surveys using NaI based GPS system.</p>

TABLE 2: SAMPLE PROJECTS

Project Name / Client	Services Provided
<p>Yankee Rowe Decommissioning / Yankee Atomic Electric Co.</p>	<p>Provided consulting and radiological survey support to the site in anticipation of the movement of spent fuel and greater than Class C waste to the Independent Spent Fuel Storage Installation (ISFSI). It was recognized by the utility that the storage of this material in the ISFSI would increase background radiation levels at the site and make future surveys for license termination in these areas more difficult. Millennium Services, Inc. developed and submitted recommendations, developed investigation criteria and a Survey Plan, performed the survey, and generated a final report.</p> <p>Millennium Services, Inc. was then contracted to provide management of the MARSSIM based Final Status Survey (FSS) program (provided FSS Project Manager), including unconditional release of buildings and grounds, and development and implementation of Final Status Survey plans and procedures. Company radiological engineering personnel were responsible for area classification, survey design, data review and FSS report generation.</p>
<p>Maine Yankee Power Plant / Maine Yankee Atomic Power Company</p>	<p>Millennium Services, Inc. was contracted by Maine Yankee to assist in the management and execution of the MARSSIM based Final Status Survey (FSS) program (provided Superintendent - FSS) and provided radiological engineering support to the program, including the unconditional release of buildings and grounds, and the development and implementation of Final Status Survey plans, procedures and reports. Also assisted in data management through the development and application of customized databases. Company personnel were responsible for the review Final Status Survey Packages for completeness, validity, and accuracy. This included: 1) review of survey design, LTP requirements, drawings, instrumentation selection, and instrumentation specifications; 2) review of raw and finished data, surveys, and laboratory analyses; 3) review and verification of data analysis including tabulations, calculations, summaries of results, and comparisons to limits; 4) review of summary reports.</p>
<p>Manufacturing Sciences Facility License Termination Project / US Ecology, Oak Ridge TN</p>	<p>Millennium Services, Inc. was contracted by US Ecology, Inc. (the prime contractor) to support the D&D and license termination of the MSC Recycle Facility (including paved areas and unpaved site grounds) owned by BNFL, Inc. The services provided by Millennium Services included:</p> <ul style="list-style-type: none"> • Development of the MARSSIM based Final Release Survey Plan (FRSP) as well as procedures and Survey Work Packages (SWP) to implement the FRSP. • Project Radiological Engineering support. • Design and performance of characterization, remedial action support, and final status surveys using SCM/SIMS. • Survey data handling and analysis, and final survey data management. • Quality assurance review of final survey data. • Development of Final Release Survey Plan Report in support of license termination. • Interfaced with stakeholders, IVT and regulators.

TABLE 2: SAMPLE PROJECTS

Project Name / Client	Services Provided
<p>Building D&D Project (K-33, K-31, K-29) / BNFL, Inc./ Oak Ridge, TN</p>	<p>Provided a multitude of technical support and field survey services during planning phase including:</p> <ul style="list-style-type: none"> • The development and technical justification of proposed dose-based building endpoint criteria (i.e., Derived Concentration Guideline Levels) and presentation of the results to USDOE and IVT (ORISE); • Development of the “Final Status Survey Plan”, Data Quality Objectives, and implementing procedures; • Evaluation of characterization and sample data; • Determination of appropriate measurement techniques, instrumentation, and methodology to perform surveys (e.g., characterization, verification, free release) of all surfaces, including overheads, ceilings and structural steel; • Developed detailed procedures, protocols, and other necessary documents, including Enhanced Work Packages, to implement the “Final Status Survey Plan” and implementing procedures; and, • Developed Technical Basis Documents. <p>The final phase of the project was the management, design, and performance of characterization and remedial action support surveys, final status surveys, data management, and the development of final survey documentation and reports. Surveys were performed using the Surface Contamination Monitor / Survey Information Management System (SCM/SIMS) along with handheld instrumentation. Services provided included:</p> <ul style="list-style-type: none"> • Definition of Survey Areas and Survey Units; • Performance of characterization surveys and evaluation of results; • Area Classification for Final Survey; • Remedial action support surveys; • Investigation and disposition of survey anomalies; • Performance of Final Status Surveys (surveyed over 4 million ft² of floors, 400,000 ft² of ceiling, 2.5 million ft² of structural steel); • Data management and analysis; • Performance-based quality control checks; • Evaluation of isotopic ratios and Uranium enrichment values for area specific endpoint criteria determination; and, • Generation of Final Status Survey Reports.
<p>Rocky Flats Environmental Technology Site Closure Project</p>	<p>Performed Characterization and Final Status surveys using SCM/SIMS advanced survey technology in support of the decontamination & decommissioning of the 779 cluster, which included the first plutonium production facility in the country of its size and complexity to be successfully remediated. A critical component to the success of the project was the ability of the SCM/SIMS technology to meet the low detection limits mandated by the site for plutonium. The company also performed Final Status Survey services in Building 123, the first building at RFETS to be completed.</p>