

Radiation Safety and Scientific Consulting Services

OUR SERVICES

We provide services in radiation protection and health physics, nuclear criticality safety, regulatory compliance, radiation shielding and transport analysis, strategic weapons design and development, and technical/professional support.

OUR STAFF

Our staff includes Subject Matter Experts at the Ph.D. and master's level, as well as Certified Health Physicists, Certified Industrial Hygienists, Radiological Engineers, Nuclear Safety Engineers, Chemists, Physicists, and Mathematicians.

OUR CLIENTS

We support federal, state, and local government, including DOE national laboratories. We also assist private industry.



For more than 30 years, Stratify LLC, formerly MH Chew Associates, has provided technical and scientific expertise in radiation protection and safety, nuclear criticality safety, regulatory compliance, radiation shielding, health physics, and other disciplines. We are a small, minority-owned business.

Radiation Protection/Health Physics

We provide the following services:

- Nuclear criticality safety (DOE Order 420.1, Facility Safety)
- Radiation exposure, dose, and effects assessment. This can include an evaluation of ecological effects.
- Plutonium health physics
- Historical dose evaluation and reconstruction
- Radiological release, transport, and pathway analysis
- Neutron, alpha, beta, and gamma exposure analysis
- Naturally occurring radioactive material (NORM) and TENORM support
- MARSSIM evaluation for site cleanup
- Attila® and MCNP® shielding calculations and design
- Compliance assessments
- DOE Laboratory Accreditation Program appraisals
- Technical Basis Document (TBD) development
- Radiation dosimetry support and compliance
- Residual Radioactivity (RESRAD) analysis.



DOING BUSINESS

NAICS Codes 541330,
541690, 541990
FOCI Facility Code
14981
DUNS 08-0943828
CAGE Code: 80S21
UEI: Z7MZ E911 52Q4

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WEBSITE

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Stratifymhchew.com

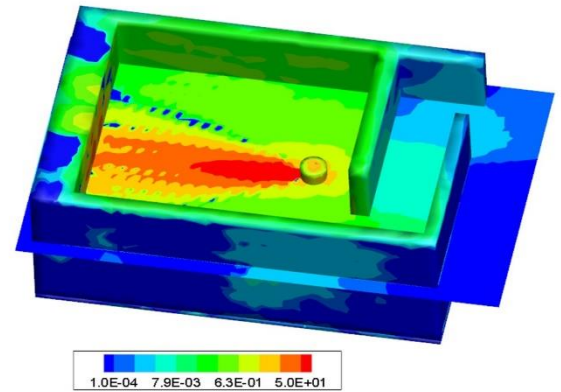
Radiation Shield Design and Transport Modeling

Stratify provides radiation transport modeling services, including photon and neutron shielding design, waste characterization, and nuclear criticality calculations. Our staff have a wealth of experience with radiation transport modeling using MCNP® and the Attila® modeling suite, which includes SpaceClaim®, Attila, and Tecplot 360®.

How our modeling benefits clients:

- Import client “as built” CAD files, which speeds up model creation and improves accuracy.
- Produce 3-D color dose rate plots to improve ALARA planning and hazard communication.
- Calculate the dose rates at all points in the mesh, not just a few.
- Improve efficiency of MCNP for thick shielding.

Cross Sectional Slice Through Concrete Irradiation Room with Entrance Maze
1000 Ci Cs-137 source in Pb collimator
Dose rate in rem/h



Compliance Assessment

We are well-known for our proven expertise in conducting comprehensive regulatory compliance assessments and audits in accordance with 10 CFR 835. Our recent project experience includes assessments at Argonne National Laboratory and Fermi National Accelerator Laboratory.

Strategic Weapons Design and Development

We consult in the following areas:

- Energetic materials and insensitive high explosives
- Electromagnetic pulse (EMP) simulations
- Experimental explosive programs technical support
- Nuclear-counterterrorism technical support
- Defense industry technical support
- Atmospheric release modeling

OTHER SERVICES AVAILABLE

- National security services and support
- Nuclear Incident Response System support
- Waste site evaluation
- Threat/vulnerability assessment
- Development and use of counting techniques
- Technical and professional support services.