



Our unmatched experience in mechanical insulation helps protect your infrastructure investments by reducing energy consumption, noise levels, and condensation. It protects personnel and improves process control and productivity through mechanical and equipment efficiencies and longer life cycles. Let our certified I-STAR™ Energy Appraisal technicians and expert insulation contractors remove many of the obstacles to better productivity and improved operations.

Mechanical Insulation Services:

- Thermal Insulation Systems
- Pre-Fabricated Panel Systems
- Certified Energy Assessments
- Consulting Services
- Insulation Maintenance
- Insulation Material Sales
- Planned Outages & Turnarounds
- Removable Insulation Blankets
- Sheet Metal Lagging
- Specialized Fabrication
- Acoustic Insulation

Industry Segments:

- Industrial
- Petrochemical
- Pharmaceutical
- Power Generation & Transmission
- Commercial
- Cryogenic

Contact Advanced Nuclear and let our team of experts develop a plan specific to your facility and needs.

Indianapolis, IN 317-947-8167 | Lancaster, PA 1-800-437-0441 | Baton Rouge, LA 800-437-0441

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Through our strategic alliance with Darchem/Esterline, two of the industry's leading nuclear service providers are united to bring the world's leading Reflective Metallic Insulation (RMI) product to the United States. Together we offer a full service Insulation contract as a supplier of superior products with installation of RMI only available through Advanced Nuclear as Darchem's sole USA partner.

This team brings design, engineering, manufacturing and installation of RMI for all your non-fibrous insulation needs in one complete package. In addition, DARMET™, an all-metallic insulation system, has a proven track record on more than 150 nuclear power plants worldwide, including many here in the United States.

DARMET™ is designed to control the heat loss and temperature gradients on primary circuit vessels and associated equipment and pipework.

DARMET™ offers multi-functional capability in thermal performance, strength and structural aspects, and through-life durability without environmental or Health and Safety problems.

Key Features of DARMET™ RMI:

- Long-Life Performance
- Corrosion Resistance
- Quality Performance
- Removability and Replacement
- No Health Risk
- Testing, Certification and Development
- Adjustable Seismically Qualified Latches
- Drainability

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Through our strategic alliance with Darchem, we offer DARMATT flexible passive fire protection systems and DARSHIELD rigid/compact passive fire protection enclosures.

DARMATT

DARMATT is designed for the protection of actuators and valves, cable routes, conduits and signal lines, junction boxes, solenoid stations, air receivers, process vessels and other equipment applications requiring fire protection. DARMATT flexible mattress systems provide excellent fire protection due to their unique construction of compressed layers of insulating fiber combined with layers of metallic foil. DARMATT is fully tested and certified for use in high-rise hydrocarbon fires such as denoted in the UL1709 and BS476 (Pt 20 Amendment 6487) fire test curves. Such fires reach approximately 2012°F within minutes. DARMATT has also been successfully explosion-tested to 1.6 bar overpressure. The DARMATT system is entirely asbestos free.

DARSHIELD

DARSHIELD-engineered enclosures are designed and manufactured specifically to fit the protected equipment. They give up to two hours protection against flame temperatures in excess of 2012°F. Features can be incorporated into the design to provide resistance to both blast and jet fire. DARSHIELD enclosures are designed to withstand the most rigorous fire conditions. They are ideal for the protection of equipment requiring ease of access. The enclosures are constructed using high thermal performance materials encapsulated within stainless steel skins. The versatility of the DARSHIELD system enables a variety of materials to be selected in order to best meet the customer specification. This ensures that the design can accommodate difficulties in location and space restrictions.

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Advanced Nuclear specializes in the installation of UL-classified and FM-approved firestop systems. When you choose us, you're selecting a premier installer of passive fire protection systems for MEP penetrations, fire resistive joints and fire rated wrap and enclosure systems.

Penetration Firestop Systems

Advanced Nuclear supplies and installs MEP penetration firestop systems for pipe, duct, conduit, wire, cable, cable tray, busway, and various steel penetrants (beam, joist, truss, rod, support, etc).

Fire Resistive Joint Systems

The protection of static and dynamic joints in the building environment is critical to maintaining life safety. Our team will identify and our craftsmen install the right system for head of wall and foot of wall openings and the perimeter gap (slab edge) between concrete decks and the building's exterior skin.

Slab Edge/Curtain Wall

Our personnel are highly trained and skilled in the installation of friction fit and mechanically fastened curtain wall insulation, as well as mullion cover systems.

Darmatt KM1™

A fire protection barrier system developed for the protection of critical & safety electrical equipment in the nuclear & industrial markets.

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Whether you're looking for applied fireproofing or the application or removal of industrial coatings and linings, Advanced Nuclear has an extremely experienced workforce in place to finish the job to your exacting standards.

Intumescent & Cementitious Fireproofing

Fire protection materials are designed to safeguard the structural integrity of steel under intense fire conditions and to maintain safe temperatures for a specific period of time.

Abrasive Blasting

Our expert technicians have the ability and equipment to perform either wet or dry abrasive blasting in one of our state-of-the-art, environmentally controlled industrial booths or at your project site.

Industrial Coatings & Linings

We provide the application of internal linings and external coatings for tanks, pipe, structural steel, exchangers, vessels, and other equipment of any size. These coatings and linings provide critical protection against corrosive chemicals and products used in the petrochemical industry and other industrial processes.

Painting

Whether you're in the manufacturing, power generation or petrochemical markets, we have the requisite experience specializing in challenging painting projects. On-site and in our shops, we bring skill and dedication to each job . . . large or small.

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Advanced Nuclear has vast experience in the successful completion of asbestos and lead abatement, mold remediation and hazardous chemical clean-up projects. We understand all the risks involved in environmental remediation projects, and can deliver a well-planned, cost-efficient solution to one of the most risky and costly portions of many projects.

Asbestos Abatement

Advanced Nuclear is a fully licensed asbestos abatement contractor. Not only do we have comprehensive knowledge, we far exceed all rules and regulations enforced at the local, state, and federal levels. Our state-of-the-art equipment and excellent safety record enable us to perform any size abatement project from small glovebag jobs to negative pressure enclosures of any size. In addition, our labor force keeps up-to date with licensing, physicals and training to ensure rapid response to any of our customer's needs, with maximum efficiency.

Lead Abatement

Our personnel are fully trained to remove and dispose of lead containing materials. We use state-of-the-art technology and equipment, with all of our procedures meeting or exceeding regulations including EPA and OSHA requirements. We specialize in many forms of lead abatement: Vacuum Blasting, Mechanical Abrasion, Chemical Strip, Encapsulation, and Removal/Replacement.

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Our team is recognized as being safe, knowledgeable, and experts at installing a wide array of scaffold systems. From design and full project management to expert erection/dismantling and reliable equipment, you can count on us to provide comprehensive solutions to fit your access needs.

Scaffolding Types & Other Services:

- System Scaffolds
- Suspended Scaffolds
- Frame Scaffolds
- Rolling Scaffold Towers
- Material & Personnel Hoists
- Fall Protection Systems
- Sidewalk Bridges
- Wrap Enclosures
- Netting
- Debris Chutes

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With more years of experience in the nuclear field than our competitors, we're experts in this specialized and challenging industry, and equipped and capable of being your single-source provider in several disciplines. To ensure you receive the excellence you deserve in whatever service is provided, our company is committed to not just meeting expectations – but exceeding them. We operate with the unwavering philosophy that quality, productivity and safety are inseparable components to any job well done.

Services Include:

- Mechanical Insulation
- Consulting Services
- Insulation Inside & Outside Containment
- Asbestos Abatement
- Lead Abatement
- Outage Planning
- Penetration Seals / Fire Stop
- Reflective Metal Insulation
- Specialized Fabrication
- Thermal Insulation
- Removable Blankets

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Through our strategic alliance with Darchem Thermal Protection, we specialize in radiant heat shields for the protection of personnel, equipment and structures from heat and flames – onshore and offshore.

Darchem's range of heat shield systems are well proven. The unique all-metallic system utilizes the effects of air flow to cool the shield and gives a heat flux reduction during flaring conditions. Darchem offers two types of Heat Shield solutions based upon the heat shield location, the incidental heat flux levels and the required reduction in thermal radiation.

DARSCREEN is commonly employed as a vertical heat shield protecting critical equipment, structures, personnel, muster points and escape routes in critical areas.

The Darflare is a chevron system designed to protect steelwork and personnel from high heat flux levels.

Principal features of Darflare and Darscreen:

- Lightweight
- Maintenance Free
- See-Through Venting
- Cost Effective
- Greater Heat Dissipation Than Solid Systems

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Advanced Energy Protection is the leader in meeting the unique application requirements required of Cryogenic Insulation applications.

Our experienced Management Team works to exceed the clients expectations of a quality insulation installation, completed safely, on schedule & within budget. We have the technical expertise, quality control, experience, oversight & trained work crews to perform low-temperature insulation applications, whether it be Multilayer (MLI), Composite Materials or Double Walled systems. Our unique combination of Management & Technical expertise ensures your insulation system will perform as designed.

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Locations



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A network of specialty contractors delivering exceptional value in innovation, performance, safety and service.

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Lancaster, PA
- Central Estimating
Nashville, TN



- Houston, TX
- Lancaster, PA
- Indianapolis, IN
- Lake Charles, LA
- Nashville, TN
- Baton Rouge, LA



- Midland, MI
- Columbus, OH
- Toledo, OH
- Cincinnati, OH



- Indianapolis, IN
- Lancaster, PA



- Baltimore, MD
- Central & N. Eastern, PA
- Philadelphia, PA
- Sayreville, NJ



- Phoenix, AZ
- Los Angeles, CA



- Boston, MA
- Albany, NY
- New York City, NY
- Syracuse, NY
- Fishkill, NY
- Hartford, CT



- Omaha, NE
- Kansas City, MO
- Manhattan, KS



- Denver, CO
- Houston, TX
- Lima, OH
- Quarryville, PA
- Viera, FL
- Wells, ME



- Portland, OR
- Seattle, WA



- Pittsburgh, PA



- Santa Fe Springs, CA