
NUCLEAR CAPABILITY STATEMENT

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Founded in 1989, EAI specializes in **surface cleaning and decontamination of radioactive and hazardous contaminants**. EAI evaluates the requirements and provides cutting-edge **decontamination technologies** to achieve project objectives and secondary waste minimization.

Partial Client List

- Rocky Flats
- Los Alamos National Laboratory
- Idaho National Laboratory
- U.S. Army Corps of Engineers Shaw Environmental and Infrastructure, Inc.
- Naval Surface Warfare Center (U.S. Navy)
- Bechtel Power Corporation
- Fluor Hanford Company
- CH2MHILL
- Maine Yankee Atomic Power Company
- West Valley Nuclear Service Company
- Atomic Energy Canada (CNL)
- Energy Solutions
- Oakridge National Laboratory
- Hanford Reservation
- Chalk River
- Federal Agencies (i.e. DOD, DOE, DHS, EPA and NNSA)

Highlights

- ❖ One of EAI's patented decontamination technologies, **Rad-Release**, saved a DOE site approximately **\$110 Million**. 100% of the TRU waste was decontaminated to SCO low-level waste.
- ❖ EAI and Idaho National Labs were awarded the prestigious **R&D 100 Award for the development of Rad-Release**.
- ❖ Decontaminated U.S. Navy marine gas turbine engines for unrestricted free release following the **Fukushima** incident.
- ❖ Successfully lowered all large object legacy TRU waste to low-level SCO under the **3706 campaign** at Los Alamos National Laboratory.
- ❖ **Decontaminated over 66,000 sq. ft.** of below grade concrete building surfaces at **Maine Yankee nuclear plant**, eliminating the need to excavate and dispose.

Additional highlights available upon request.

Services

- Patented decontamination technologies (Rad Release I, Rad Release II and SuperGel)
- Site review and assessment
- Waste characterization and volume reduction
- Onsite decontamination and technical support
- Offsite decontamination and waste processing
- Worldwide mobilization
- Environmental hazard remediation (PCBs, Mercury, heavy metals, chem/bio, etc.)





Environmental Alternatives, Inc.

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33 Whittemore Farm Road

Swanzy, NH 03446

P: (603) 352-3888

F: (603) 352-3899

Sample of Decontamination Projects

Project	Surface	Primary Isotopes	Pre-Decon Contamination	Post-Decon Contamination	Reduction (%)
Idaho Nat'l lab	Stainless Steel and Aluminum	Sr ⁹⁰ , Cs ^{134,136,137}	0.41 Sv/Hour	4.5 mSv/Hour	98.9%
		Y ⁹⁰ , La ¹⁴⁰ , Ce ¹⁴⁴ , Pr ¹⁴⁴ , PM ¹⁴⁷ , Sm ¹⁵¹	0.06 Sv/Hour	0.5 mSv/Hour	99.2%
Argonne Nat'l Lab	Stainless Steel and Aluminum	Am ²⁴¹ , Cs ¹³⁷ , Co ⁶⁰	133,000 Bq/cm ²	8,333-16,700 Bq/cm ²	87 – 94%
DARPA	Concrete	Cs ^{134, 136, 137}	10,200 Bq/cm ²	194 Bq/cm ²	99.98%
US EPA	Concrete	Cs ^{134, 136, 137}	37,700 Bq/cm ²	5,550 Bq/cm ²	85%
DHS	Granite	Co ⁶⁰	152,500 dpm/100 cm ²	<400 dpm/100 cm ²	99%
Oak Ridge Glovebox	Glovebox	Uranium and mixed fission products	59,000 Alpha dpm/100 cm ²	2,800 Alpha dpm/100 cm ²	95.25%
			5,780,000 Beta dpm/100 cm ²	58,000 Beta dpm/100 cm ²	98.99%
Oak Ridge	Hot Cell Manipulator	Uranium and mixed fission products	616,766 Alpha dpm/100 cm ²	208 Alpha dpm/100 cm ²	99.9%
			2,000,000 Beta dpm/100 cm ²	125 Beta dpm/100 cm ²	99.99%
West Valley	Spent Fuel Rack (Stainless Steel)	Mixed Isotopes predominantly Co ⁶⁰ & Cs ¹³⁷	0.4 mSv-.8mSv/Hr. 10,400 Bq/cm ²	<1 μSv/Hr. 3.33 Bq/cm ²	99.97%

Primary Contacts

Christopher J. Norton, President/CEO Cjnorton@eai-inc.com P: (603) 352-3888 ext. 222	Randy Martin, Vice President Rmartin@eai-inc.com P: (603) 352-3888 ext. 225
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