

“Green” Small Arms Firing Range

The use of lead ammunition presents a threat to human health and the environment.

It is **UNDENIABLE**, but **PREVENTABLE!**



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30 May 2008

ISC Honolulu SAFR



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Environmental Impact

Lead Soil Remediation: ISC Honolulu \$1.6 M
: ISC Ketchikan \$1.5 M



....and they still are not clean.



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Personnel Impact

- Defined exposure pathway was established from a range in Sandy Hook, NJ, to a Coast Guard member's clothing, motor vehicle, and home where dependent child experienced elevated blood-lead level.
- Elevated blood lead levels detected in Coast Guard members working at firing ranges in Petaluma, CA; Seattle, WA; and Miami, FL.



New SAFR Designed to Shoot Lead Ammunition: \$2.3M



....But, still inadequate for managing the lead:

- Dedicated hand washing, showers, laundry, restrooms
- Cleaning, operations, & maintenance.
- “Safe Work Practices at CG Firing Ranges”



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“To maintain the public’s trust, the Coast Guard will incorporate environmental best practices in all we do.”

- ADM T.W. Allen

■ PACAREA SAFR Assessment

- Federal Law Enforcement Training Center (FLETC) has proven implementation of Reduced Hazard Ammunition.
 - 20,000,000 RHA rounds annually
 - No ammo related MISHAPS
 - Markedly reduced hazardous waste stream
 - Elimination of personnel lead monitoring program
 - Elimination of PPE and OSHA required awareness training
 - All types of ammo are available on supply contracts for all agencies.
 - Ammunition performance and reliability proven

The use of RHA as an “environmental best practice” is
FACT!

Lean Forward to Change the Status Quo

- Developed Business Case Analysis for RHA vs Lead
- Developed environmental impact avoidance cost/benefit of RHA vs Lead
- Mitigated operational impact to tenant units during SAFR opening delay through partnering with DOD and Honolulu Police Dept. owned ranges.
- Championed request through CG-3 to designate ISC Honolulu SAFR as RHA only facility.

Beta Test Approval

- Received approval to designate ISC Honolulu as RHA Beta Test site for DOD supply system RHA. Prohibited the use of lead ammunition on new SAFR.
 - Developed/Implemented baseline and recurring data collection for personnel and environmental monitoring to include: soil, storm water runoff, indoor and outdoor air.
 - Developed/Implemented facility commissioning and O&M procedures for documentation of RHA impacts.



Long Term Mission Support Impacts

- Reduced capital costs for range construction – 9 ranges in PACAREA on AC&I backlog for \$48M!
- Reduced AFC-43 impacts for future compliance gaps - 69 deficiencies identified in PACAREA for \$13.9M!
- Lower recurring costs for range operation and maintenance.
- Eliminate medical monitoring requirements for future small arms instructors.
- Reduced environmental liabilities. (CFO Act Audit)
- Reduced Hazardous Waste Stream



Long Term Mission Execution Impacts



Reduced Capital Costs

Reduced Recurring O&M Costs = More Ranges = Improved Readiness!

Reduced Environmental Footprint

Improved Personnel Safety



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Questions?



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