RECHARGING THE PLANET.
RECYCLING YOUR BATTERIES.™

call2recycle®

Wisdom from the Field: Ins-and-Outs of Developing a Top Recycling Program

May 10, 2011

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Report Documentation Page

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MODERN (MOBILE) MILITARY

Batteries power thousands of devices for soldier activity and across installations.

. . . Field communication equip. (radios, laptops)
. . . Night vision goggles & flashlights
. . . GPS units
. . . Secondary power units

3 Day mission in Afghanistan – 20-35 lbs of up to 7 different types of batteries*.

Although the individual devices may vary, each military branch uses a significant amount of batteries in their every day operations!

* **Army, Marines Face Uphill Battle To Lighten Troops' Battery Load ,** May 2011; By Sandra I. Erwin

BATTERY DISPOSAL

Battery disposal for the military can be . . .

. . . Expensive
. . . Complicated
. . . “Unclear” – Final Disposition

NAVFAC SW

BATTERIES everywhere!

Cost of $1.50/lb for disposal as UW.

Can we be “GREENER”?!?!?

One of ten facilities engineering commands (FECs) in NAVFAC (over 3,400 Federal employees) & responsible for public works, planning, engineering/design, construction, real estate, environmental services, and acquisition / disposal of facilities and real estate in a six state area.

STEP 1 – ESTABLISH GOAL AND APPROACH

GOAL:
Implement a fiscally responsible and environmentally sound recycling program to divert rechargeable batteries from the Universal Waste stream for the entire CNRSW footprint.

APPROACH:
Domino Theory . . . The FECs are uniquely positioned to promote the Navy's participation region-wide.

STEP 2 - SERVICE VENDOR

What are others doing - why "reinvent the wheel"!?!?

More than a Vendor, find a PARTNER!

CALL2RECYCLE®

Non profit organization of manufacturers - no competitive sourcing issues.

Program is simple – collect and recycle your rechargeable batteries at no cost . . . NO SHIPPING OR PROCESSING COSTS in CONUS.

STEP 3: DUE DILIGENCE

Certifications

Audits / Insurance

Legal Counsel

March 17, 2010

U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

DOT-SP 14849

EXPIRATION DATE: January 31, 2012

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Rechargeable Battery Recycling Corporation Atlanta, GA

2. PURPOSE AND LIMITATIONS:

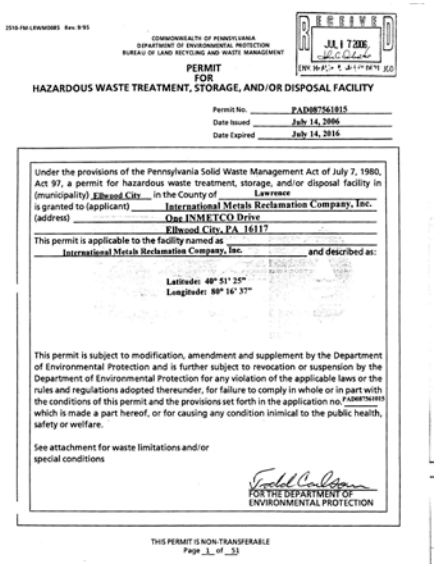
a. This special permit authorizes the manufacture, marking, sale and use of non-DOT specification fiberboard boxes for the transportation in commerce of certain batteries without shipping papers, marking of the proper shipping name and identification number or labeling, when transported for recycling or disposal. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.

b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR Subparts C, D and E of Part 172 in that shipping papers, marking and labeling are not required for batteries already excepted by § 172.102(c) special Provisions 130, 188 and 189; § 173.159a(c)(2) in that marking the outer packaging is waived; § 172.102(c) Special Provisions 188 a. and f. and

e·Stewards



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

RECEIVED
JUL 17 2006

PERMIT
FOR
HAZARDOUS WASTE TREATMENT, STORAGE, AND/OR DISPOSAL FACILITY

Permit No. PAD087561015
Date Issued July 14, 2006
Date Expired July 14, 2016

Under the provisions of the Pennsylvania Solid Waste Management Act of July 7, 1980, Act 97, a permit for hazardous waste treatment, storage, and/or disposal facility in (municipality) Elkwood City in the County of Lawrence is granted to (applicant) International Metals Reclamation Company, Inc. (address) One INMETCO Drive Elkwood City, PA 16117

This permit is applicable to the facility named as International Metals Reclamation Company, Inc. and described as:

Latitude: 40° 51' 25"
Longitude: 80° 16' 37"

This permit is subject to modification, amendment and supplement by the Department of Environmental Protection and is further subject to revocation or suspension by the Department of Environmental Protection for any violation of the applicable laws or the rules and regulations adopted thereunder, for failure to comply in whole or in part with the conditions of this permit and the provisions set forth in the application no. PAD087561015 which is made a part hereof, or for causing any condition inimical to the public health, safety or welfare.

See attachment for waste limitations and/or special conditions

FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

THIS PERMIT IS NON-TRANSFERABLE
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STEP 4 - THE "BUY IN"

Within 2 hours NAVFAC footprint in Metro San Diego was on board!

All hands on Deck Meeting – What a BRILLIANT Idea!

STEP 5 – IMPLEMENTATION & TRAINING

Where do you collect?

Haz Waste Facility/90 Day Site or TSDF or individual Units/Offices . . . All NAVFAC SW installations are handling through HW or TSDF.

How do you collect?

“Milk Runs” vs. Units Drop Off

How are you shipping?

Collection Boxes – NAS Fallon, NV

Bulk Shipping – NB San Diego, CA

STEP 5 – IMPLEMENTATION & TRAINING

Vendor Capabilities

- Safety & Comp. Manager
- Handouts
- Reports

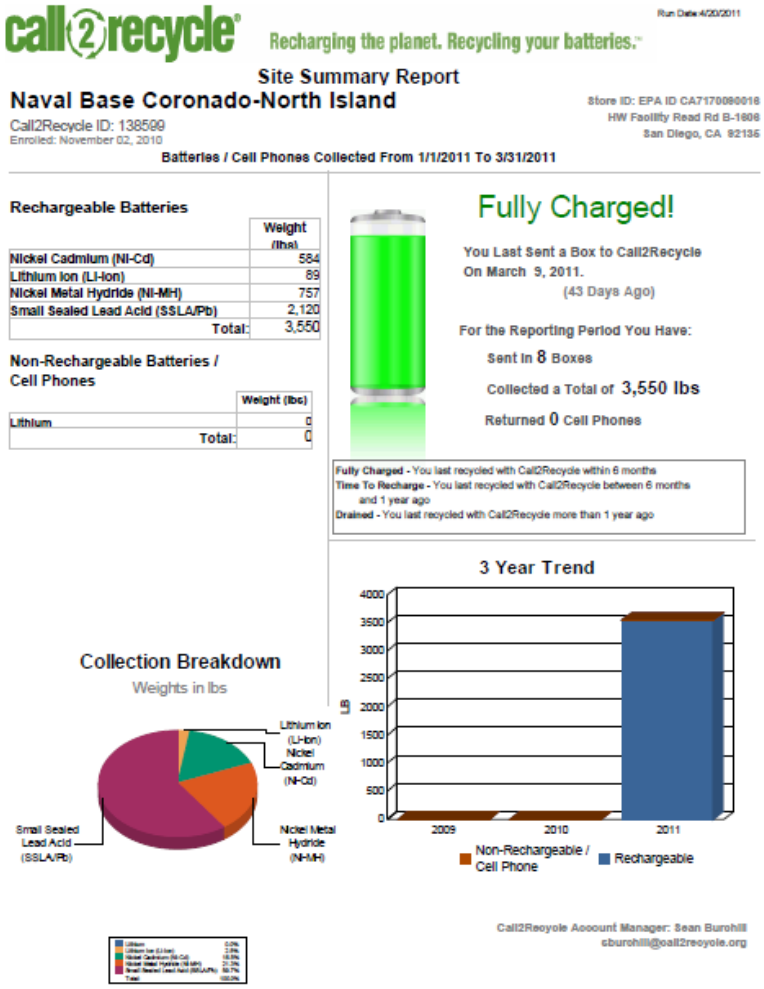
Internal Capabilities

- SOP's
- Tech Training

STEP 6 - MAINTENANCE

Track activity.

Constantly evolving.



call2recycle Recharging the planet. Recycling your batteries.

Run Date 4/20/2011

Site Summary Report

Naval Base Coronado-North Island

Call2Recycle ID: 138599

Enrolled: November 02, 2010

Store ID: EPA ID CA7170080018
HW Facility Read Rd B-1808
San Diego, CA 92135

Batteries / Cell Phones Collected From 1/1/2011 To 3/31/2011

Rechargeable Batteries

	Weight (lbs)
Nickel Cadmium (NI-Cd)	584
Lithium Ion (LI-Ion)	89
Nickel Metal Hydride (NI-MH)	757
Small Sealed Lead Acid (SSLA/Pb)	2,120
Total:	3,550

Non-Rechargeable Batteries / Cell Phones

	Weight (lbs)
Lithium	0
Total:	0

Fully Charged!

You Last Sent a Box to Call2Recycle On March 9, 2011.
(43 Days Ago)

For the Reporting Period You Have:
Sent In 8 Boxes
Collected a Total of 3,550 lbs
Returned 0 Cell Phones

Fully Charged - You last recycled with Call2Recycle within 6 months
Time To Recharge - You last recycled with Call2Recycle between 6 months and 1 year ago
Drained - You last recycled with Call2Recycle more than 1 year ago

Collection Breakdown

Weights in lbs

Lithium Ion (LI-Ion)
Nickel Cadmium (NI-Cd)
Nickel Metal Hydride (NI-MH)
Small Sealed Lead Acid (SSLA/Pb)

3 Year Trend

lbs

4000
3500
3000
2500
2000
1500
1000
500
0

2009
2010
2011

Non-Rechargeable / Cell Phone
Rechargeable

Call2Recycle Account Manager: Sean Burohill
sburohill@call2recycle.org

CHALLENGES

Communicating the message – how do you effectively gain support for the program (the “change” factor)?

On-going training for multiple POC’s throughout installation.

Every battery not created equal - only rechargeable batteries.

SUMMARY

Battery RECYCLING for NAVFAC SW is . . .

. . . **FREE** – Estimated savings for METRO SAN DIEGO is $87K this FY.

. . . **SIMPLE** – Easily integrated into existing collection efforts.

. . . **TRANSPARENT** – Full compliance with legal requirements in the State of California & improves sustainability posture for CNRSW.

QUESTIONS

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