Basel Convention Technical Assistance to Parties

Improving the Management of Used Lead Acid Batteries in Wallis & Futuna September 11th 2015







The Basel Convention on the Control of Transboundary Movements of Hazardous Waste and their Disposal (1989)

The Basel Convention is a global treaty that grew out of the need to stop the dumping by the developed countries of hazardous waste in developing countries. The primary objective of the Convention is to minimise, with the aim of eliminating, the generation and transboundary movement of hazardous waste. The Convention also aims at preventing illegal trafficking in waste.

By providing access to information and technical assistance on best practice guidelines and procedures for waste handling, storage and destruction, the Convention promotes the environmentally sound management and disposal of hazardous waste.

This Technical Assistance training is concerned specifically with the export of Used Lead-Acid Batteries (ULABS) for recycling overseas.

Main Points of the day's training

- Overview of the Basel Convention
- Health and Environmental Impacts
- Battery Types
- Handling, Packing and Labeling
- Basel Documentation
- Responsibilities of Focal Points
- Responsibilities of Competent Authorities
- Responsibilities of Recycling companies
- IMO Documentation

Objective of the Basel Convention

The overarching objective of the Basel Convention is to protect human health and the environment against the adverse effects of hazardous wastes. Its scope of application covers a wide range of wastes defined as "hazardous wastes" based on their origin and/or composition and their characteristics, as well as two types of wastes defined as "other wastes" - household waste and incinerator ash. Much of these wastes can be successfully recycled or processed for some sort of recovery, but this may involve sending them to other countries, and so movement of hazardous wastes between countries can occur where certain conditions and regulations are followed, as agreed by all parties to the Convention.

Why Bother about Basel?

- To protect countries against dumping of wastes;
- To avoid recyclers getting cargos impounded and returned at great cost;
- To avoid batteries going to poor recycling operations that poison people in other countries;
- Rules around shipping are getting tighter;
- To make shipping safer.

Where to find the Convention Details?

www.basel.int is the website

The 'Waigani Handbook' on your Flash Drive has full text and assistance with navigating and understanding it.

The Handbook also covers Waigani, Stockholm and Rotterdam Conventions.

Let's look briefly at the website and the handbook now.

The handbook is included in files on the USB stick provided. We'll also look at the other resources on the stick

Health & Environmental Impacts of ULABs

- Lead is highly toxic, especially to children;
- ULABs contain acid, which is dangerous and can burn skin and clothes and blind eyes instantly;
- Local recovery of lead for fishing & dive weights is a very poisonous business;
- Batteries in local waters and dumpsites are a very significant waste pollution problem.
- Batteries exported for recycling are very good for Tonga

Battery Types

Primary cells – like radio batteries – are not ULABs. These are usually alkaline batteries



Battery Types

 Laptop and cell phone batteries are usually Lithium batteries.

Power tool batteries are usually Ni-Cad or Li-ion batteries

These are not part of our training today, although these are covered by the Convention.

Battery Types - ULABS

- 'Wet Cell' batteries are ULABs;
- AGM batteries are ULABS;
- 'Gel Cell' batteries are ULABs;
- 'Sealed' batteries are ULABs;
- VRLA batteries are ULABs;
- 'Low Maintenance' batteries are ULABs

AGM & Sealed Batteries

Contain lead and acid but the acid is in a gel form and will not usually leak out easily:





Valve Regulated Lead Acid VRLA





Low Maintenance

These batteries do have liquid inside but are designed to use very little water and so have no obvious caps. These can leak. Usually used for cars.

- · Charge indicator panel and handle
- Extensive range of maintenance free Japanese batteries

Fusion

- Up to 50% more starting power and a 4-year warranty
- Deep cycling capability over 300 cycles
- Totally sealed no maintenance required



Solar Batteries

These are usually 'wet' and tall and heavy





Wet Cell Lead-Acid Batteries

Used in cars, trucks, boats, motorcycles.
 Acid is liquid and can easily spill.



Handling

Dangerous Things to do with Batteries

- emptying of acid in batteries on to the ground or into waterways;
- lead recovery at a domestic level to make fishing sinkers and diving weights;
- Connect the terminals directly to each other to short circuit the battery.

Handling

Poor handling practices:

- stacking batteries one on top of the other;
- No gloves or boots;
- No eye glasses sunglasses are fine, wrap around glasses or goggles are best;
- No water bottle close by in case of acid on your skin;
- Holding leaky batteries next to oneself whilst carrying.



Poor storage practice:





Packing

 Batteries strapped to pallets with at least two layers of cardboard between:





Labeling

- Class 8 'Corrosive' sign
- Materials Safety Data Sheet (MSDS)







Basel Process in Simple Terms

- IMPORTING country issues the Basel Permit to the Importer;
- IMPORTING country Competent Authority will contact the EXPORTING country (Kiribati) Focal Point and ask for agreement to the export;
- IMPORTING country then issues a Basel Permit to import X tonnes of ULABs from Kiribati for one year;
- Permit can be renewed every year when Kiribati agrees;
- IT is GOOD to export ULABs;
- Transit countries that the ship passes through should be notified and agree.

Basel Documentation Required

- Approval from the exporting country to export ULABs to the importing country;
- Notification Document;
- Movement Document;
- Steps required in Example Scenario in your notes

Notification Document

Let us check your Notification Doc Example sheet

| . Notifier/exporter (name, address) and | registration No where applicable: | | | | |
|--|--|---|---|--|--|
| | | 3. | Notification concerning (1): | No | |
| Peni's Recyclers | | - 1 | | _ | :0 |
| Yasawa St, Singatoka, | | | A (i) Single Movement | | B (i) Disposal (no recovery) |
| Fiji | | - 1 | (ii) General notification | × | (ii) Recovery operation |
| Tel.: +(679) 123 456 | Fax: +(679) 123 567 | | (multiple movements) | | (syntocorol) operation |
| Contact person: | | | | | yes |
| | | | C* Pre-authorised recovery facilit | | |
| Consignee (name, address) and regist XX RECYCLE Limited | tration No where applicable: | - 1 | | × | no no |
| AN RECICLE Limited | | L | * (Only to be completed if B (ii) a | applies) | |
| McDonald Road | | 4. | Total intended | | Total intended quantity |
| Small st, VIC - Australia | | 20 | number of shipments 12 | | 300 tonnes |
| Tel: +61- (0) 3 123 456 | Fax: +61-(0) 3 123 567 | 1110 | 2.0.11 | | |
| Contact person: Joe Smith, Non- | | | First shipment | | Departure of last shipment |
| Intended carrier(s)* (name, address) a | and registration No where applicab | _ | not before: | 1 1 | not after. |
| South pacific Shipping | | 8. | and a second second frames | | address): |
| Matai St. Suva, Fiji | | | Australian Battery Recy Little Battery Rd, Newtown | | 776 |
| | | | Australia | L VICO | 270 |
| Tel: +(679) 123 456 | Fax: +(679) 123 457 | | Tel.: +61-(0) 3 1234 5678 | F | Fax: +61-(0) 3 1234 6789 |
| Contact person: Pita Lovo | *(attach list if more than o | ne) | Registration No where applicable | E | |
| Waste generator/producer (name, add | dress): | | and limit of validity: | | |
| As above in Block 1 | 27000000 | | Contact person: | John ! | Smith, General Manager |
| | | 9. | Code No of disposal/recovery op | eration (2) | R4 |
| Tel.; | Faxc | | | | ry Lead Smelter |
| Contact person: | | _ | (attach details if necessary) | | ACCURACIONAL DESCRIPTION OF THE PROPERTY OF TH |
| Process and location of generation:* | | 11 | . Mode(s) of S-R or | | 12. Packaging Ventilated Closed |
| * (attach details if necessary) 8. Name and chemical composition of the | | | transport (2): R-S-R (NZ- | →AU) | type(s) (2): Containers 14. Physical characteristics (2): |
| - in country of export/dispatch: | A11.7.0 | | | | 17. Y number 31 |
| - in country of export/dispatch: - in country of import/destination: International Waste Identification Code European waste catalogue (EWC): Only (Company Code) Only (Code) Only (Code) Only (Code) | Customs Classific e (IWC): QE-R4-S38-C18-F | | 81000 | | |
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Customs Tariff Numbers

The HS numbers for batteries are:

- Scrap Batteries: 8548: Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators; electrical parts of machinery or apparatus
- New Lead-Acid Batteries: 8507: Electric accumulators:
 8507.10 and 8507.20 are specifically lead acid
- Other Batteries are in 8506, these are not Lead-acid batteries.
- The Basel system is working on developing HS codes to identify wastes more clearly.

Basel Focal Point

Roles and responsibilities:

- Primary point of contact with the Government of Kiribati concerning the Basel Convention;
- This is where any requests to agree exports, or notify of any passing cargos, will come;
- Must be in regular contact with the Competent Authority;
- Must be an email that is checked daily on work days. Must have a current phone number.

Competent Authority

Roles and responsibilities:

- Technical people who understand the process;
- Advise that an export can take place;
- Check packing and labeling;
- Make sure that the Notification and Movement documentation is correct;
- Make sure IMO Dangerous Goods Declaration is in place.

Competent Authority

- Must be in regular contact with the Focal Point;
- Must be an email that is checked daily on work days. Must have a current phone number;
- Must know who to email/call in SPREP for any assistance;
- Must make sure any recycling companies and shipping agents know who is responsible for Basel in the Government.

Changes to Competent Authority or Focal Point

- Must inform Basel Convention Secretariat of any contact changes to either position;
- Have one month to do so from time of change;
- This is very important or else the entire system breaks down.

International Maritime Organization Documentation (IMO)

- IMO is responsible for international shipping rules, including safety at sea;
- IMO has a Dangerous Goods Code, and ULABs are classed as Dangerous Goods (DG)
- DG must be marked clearly so the ship's captain and crew know what is inside the containers;
- DG must be declared on a DG Declaration Form that goes with the Bill of Lading.

IMO DG Declaration

MULTIMODAL DANGEROUS GOODS FORM

This form may be used as a dangerous goods declaration as it meets the requirements of SOLAS 74, chapter

| 1 Shipper/Consignor/Sender | | 2 Transport document number | | | | |
|--|--|---|---|--|--|--|
| | | 3 Page 1 of pages | 4 Shipper's refere | nce | | |
| | | | 5 Freight forwards | er's reference | | |
| Consignee | | 7 Carrier (to be completed by the carrier) | | | | |
| | | SHIPPER'S DECLARATION I hereby declare that the co- below by the Proper Shipp placarded and are in all res- international and national g | ontents of this consignr ing Name, and are clas pects in proper condition | sified, packaged, mark in for transport accordi | ked and labelled/ | |
| This shipment is within the limit | tations prescribed for: | 9 Additional handling infor | mation | | | |
| (Delete non-applicable) PASSENGER AND CARGO AIRCRAFT | CARGO AIRCRAFT ONLY | | | | | |
| 0 Vessel/flight No. and date | 11 Port/place of loading | | | | | |
| 2 Port/place of discharge | 13 Destination | | | | | |
| 14 Shipping marks . | Number and kind of packages; | description of goods | Gross mass (kg) | Net mass (kg) | Cube (m ³) | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 5 Container identification No./ vehicle registration No. | 16 Seal number(s) | 17 Container/vehicle size type | & 18 Tare mass (kg) | 19 Total gross mas: (%g) | s (including tare) | |
| 5 Container identification No./ vehicle registration No. ONTAINER/VEHICLE PACKING | | | (kg) | 19 Total gross mas: (kg) | s (including tare) | |
| vehicle registration No. ONTAINER/VEHICLE PACKING hereby declare that the goods of acked/loaded into the container coordance with the applicable p IUST BE COMPLETED AND SIG | c CERTIFICATE escribed above have been /vehicle identified above in rovisions. SINED FOR ALL | type | (kg) ATION RECEIPT er of packages/contains | (kg) | good order and | |
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DANGEROUS GOODS:
You must specify: UN No., Proper Shipping Name, hazard class, packing group, (where assigned) marine pollutant and observe the mandatory requirements under applicable national and international governmental regulations. For the purposes of the IMDG Code, see 5.4.1.4.
For the purposes of the IMDG Code, see 5.4.2.

Insurance

- Insurance may be required if the country demands it;
- Transit countries may require it;
- Typically will be an 'open insurance' policy
- This can be a sticking point where local insurers cannot provide this.



