
Correlation between Trans boundary Movements and Environmentally Sound Management of Hazardous Wastes

Asian NT Meeting

19th November 2013

Agenda

- Introduction of ICT group
- Important criteria for ESM facilities for importing countries
- EEE manufacturer's position on draft technical guidelines on Trans boundary Movement on e-waste
- Impact on the proposed changes under the review of the Guidelines
- Difference between proper and improper export/import
- Summary

ICT Group

- A group of Infocomm Technology (ICT) companies started to discuss on environmental topics in July 2008
- 16 major global ICT and Consumer Electronics companies
- Voluntary participation
- Regional coverage; commonly on Southeast Asia with some company representatives covering other countries of Asia & Australasia

Apple

Dell

Lenovo

Panasonic

Brother

Epson

Mitsubishi Electric

Ricoh

Canon

Hitachi

Motorola Solutions

Sony

Cisco Systems

Hewlett Packard

Nokia

Toshiba

Mission of EEE manufacturers

- Contribute to **enrich people's lives through safe and high quality products** with consideration for the environment
- Provide appropriate **product assurance** and **maintenance service** when quality problem or failure occurs
- Consider **environmental conservation globally** through the entire **product lifecycle**



Environmentally Sound Management (ESM)

Important criteria on ESM facilities for importing countries

- Proper types of recycling process for managing e-waste (Pyrometallurgy, Hydrometallurgy)
- Presence of Physical Security Control Systems/Measures

High-End Security System

24/7 106 units CCTV Surveillance / Recording
Archive up to 90 days ; High Resolution Infra-Red Camera



• **Employees/Visitors Flow**
-- Monitoring Traffic In and out of premises

• **Incoming/Outgoing Materials**
-- Loading/Unloading
-- Weighing

• **Internal Storage/Segregation**
-- IP Sensitive Scrap
-- Pending Segregation Process

• **Mechanical Crushing**
-- Conveyor Feeding
-- Crushed Materials
• Discharged

Stationing of Security Personnel at entry / exit points



Main Gate

• Warehouse entrance

• Forklift entrance



• Segregation entrance



• Crushing entrance

Interior Access Control Security

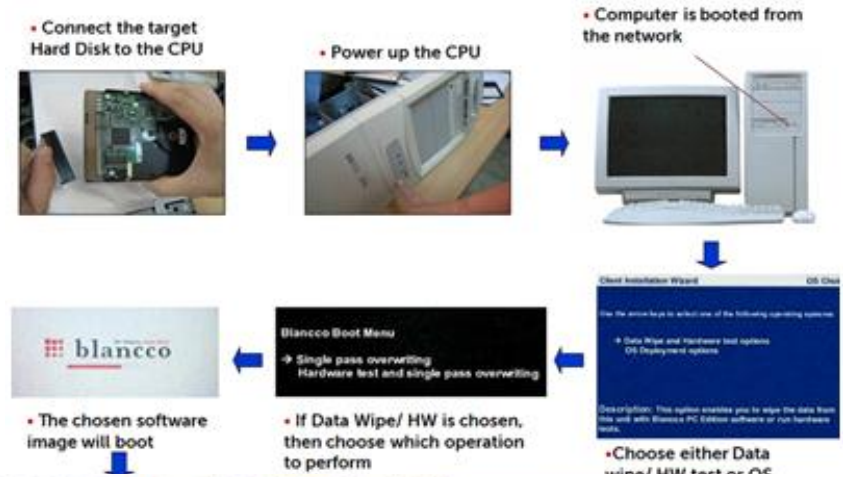
- **Employee Identification cum Access Badge**
- Serialized Unique Access Badge with programmed Access Rights



• Plus Secondary Key control for authorized personnel

Important criteria on ESM facilities for importing countries

- Availability of IP Protection (Hard Disk Data Wiping)
- Proper Pollution Control System (Emission, fume & waste water)



Cyclone Dust Collector



Waste Water Treatment Plant



Counter-Flow Wet Scrubber System

Trans boundary Movement

EEE manufacturers' position on draft Technical Guidelines on Trans boundary movement of e-waste

- Supports concept and scheme of Basel Convention **in controlling procedures on export/import of e-waste** and ensuring **ESM** in importing country of e-waste
- Supports concept and purpose of Guidelines in **avoiding possible environmental pollution** with the movement of used EEE for second-hand use with significant low quality and remaining short-lived
- Supports its basis to **allow shipment of parts and products for failure analysis, maintenance/services or repair/refurbishment** to original manufacturer/related company/contracted company in importing country

Impact on proposed changes under the review of the Guidelines

- “fully functional product” (i.e non-waste) to be used as a condition of import/export

- Shipment of **parts and products for failure analysis or repair /refurbishment** become impossible
- **Hinder improvement** of product quality, safety, assurance and maintenance/service
- **Reduce supply** of repaired or refurbished products to meet market needs
- **Increase environmental burden** worldwide for use of virgin materials



Difference between proper and improper export/import

Responsible EEE manufacturers:

- Establish **traceability system** for shipped used products to avoid transfer to improper treatment
- **Repair/refurbishment process** at manufacturer's sites in importing countries are operated in **environmental sound manner**

Summary

Proposal from EEE manufacturers

- Consider **readiness of repair facility of importing countries** to support proper treatment of e-waste
- Where ESM facility is inadequate, countries should **allow movement of e-waste regionally for proper ESM** well within the guidelines of Basel Convention treaty





Thank You
