

EIA/EICTA/JGPSSI Joint Industry Guide

Todd Brady, Intel
NEMI Data Exchange Workshop
Aug 30-31, 2004



Presentation Overview

- Background
 - Material Content Declarations
 - Joint Industry Guide
- Joint Industry Guide Content
- Status of Global Standard
- Next Steps
- Recommendations for NEMI Data Exchange Team
- Questions/Answers

Material Content Declarations

- Supply chain tool to obtain material composition data from suppliers.
- Why is this data important?
 - Ensure products do not contain banned/restricted materials.
 - Purchasers want to know about the presence of other materials for:
 - Recyclability
 - Sustainability targets/goals
 - Green marketing

Material Declaration Requests

- Typically requests ask or require suppliers to certify that a list of banned or restricted substances are not present in product/subpart
- May also include a separate list of materials that are allowed but must be identified when present

Background: Joint Industry Guide

- Companies realized need to harmonize material declaration requirements.
 - 2001: EIA Material Declaration Guide published
 - 2001-present: EIA, EICTA, JGPSSI working together to develop a joint-industry, international Material Declaration Guide

Background: Joint Industry Guide

- Dec 2003:

Draft Joint Industry Guide (JIG) finalized and approved by EIA, EICTA, JGPSSI membership

- Voting not unanimous (>80% approval); disagreements to be worked in standards process

JIG Content

– Material Lists

- Level A (Banned or Restricted)
- Level B (“Sustainability”)

– Reporting Thresholds for Material Lists

– Data Format

- Set of Data Fields
- Examples of Material Declaration Forms

Level A Materials

Materials and substances when used in products and subparts that are subject to currently enacted legislation that:

- a) Prohibits their use
- b) Restricts their use; or
- c) Requires reporting or results in other regulatory effects

*Reporting threshold as defined by law

Level A Materials

- Asbestos
- Certain Azo Colorants
- Cadmium
- Hexavalent Chromium
- Lead
- Mercury
- ODS
- PBB
- PBDE
- PCB
- PCN
- Radioactive Substances
- Certain SCCP
- TBT/TPT
- TBTO

Level B Materials

Criteria:

- a) Materials and/or substances that are of significant environmental or health and safety interest.
- b) Materials and/or substances that would trigger hazardous waste regulatory requirements.
- c) Materials and/or substances that could have a negative impact on end-of-life management

Level B Materials

- Antimony
- Arsenic
- Beryllium
- Bismuth
- Other Brominated Flame Retardants
- Nickel
- Certain Phthalates
- PVC
- Selenium

* Reporting threshold is 1000 ppm

Data Format

- Required & optional data fields defined for materials reporting
- Required fields represent minimum reporting requirements
- Guideline allows flexibility
 - Software solutions
 - “Paper” systems

Required Fields

- Date
- Company Name
- Product/Subpart Name
- Product/Subpart Number
- Product/Subpart Mass (g)
- Material/Substance Name
- Material/Substance Mass (g)
- Detailed Material/Substance Information (Use/Location)

Standardization Efforts

- EIA/JEDEC chosen as the standards bodies to convert guide to standard.
- Drafting Committee formed with 4 company representatives from all 3 geographies (EU, Japan, US).
- All EIA, EICTA and JGPSSI members eligible to vote on standard.
- JEDEC electronic balloting to serve as the voting mechanism.

Drafting Committee Outcome

- Guide reviewed based on inputs from EIA, EICTA, JGPSSI members from Dec vote.
- All negative votes considered and attempts made to find compromise solutions.
- Drafting Committee consensus (2/3) was required for all changes made to the Guide.
- Drafting Committee completed the guide – ready for full membership vote.

Changes to Joint Industry Guide

- Precious and semi-precious metals removed from Level B list – no longer required to be reported:
 - Gold
 - Silver
 - Palladium
 - Copper
 - Magnesium

Changes to Joint Industry Guide

- Negative declaration field added to reporting format.
 - Declaration that a material is not present
 - Potentially helpful for RoHS compliance
 - Optional field
- Minor changes made to text of standard to clarify intent.

Next Steps

- Sept 1 – Guide will be sent to EIA Voting Group for formal vote
- 30-day voting period
- Drafting committee to respond to “No” votes
- Standard to be published by end of 2004.

Recommendations

- Use JIG as basis for NEMI Data Exchange Project
 - Companies involved in drafting: 30+
 - Companies voting Sept 1: 100+
 - Geographies represented: Asia, North America, Europe
 - Time required to reach consensus: 3 years

Recommendations

- **Keep it simple**
 - Top priority: existing/future material bans
 - Resist urge to expand too soon
 - Regulatory deadlines fast approaching
 - Solution must be widely accepted across supply chain
 - Simplicity = acceptance

Conclusions

- JIG is a multi-year, international effort.
- Use JIG as basis for NEMI electronic data exchange

Keep it simple

Comments/Questions?

Back Up

Drafting Committee

Europe:

- Apple
- HP
- Lucent
- Siemens

Japan:

- Canon
- IBM
- NEC
- Sony

US:

- Agere
- Dell
- Intel
- Teradyne