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Statement of Work

NEMI Lead Free Transition Task Group
Project: Component Supply Chain Working Group

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Purpose:

The objective of this sub team is to assess and influence readiness of the component supply chain to support RoHS product conversions

Background:

TBD

Scope of Work:

Scope is:

- Both RoHS content compliance and lead free process compatibility
- Both mainstream electronic and high reliability applications
- Board mounted components and PCB

Scope is not:

- Lead free assembly process
- Lead free part identification
- Material Declaration
- Non-board mounted components, software or packaging

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Deliverables:

Primary deliverables:

Define component compliance criteria

- Material content / RoHS compliance
 - Lead content <0.1% by weight at raw homogeneous material level
 - Cadmium content <0.01% by weight at raw homogeneous material level
 - Hexavalent chromium content <0.01% by weight at raw homogeneous material level
 - Mercury not intentionally added
 - PBB & PBDE not intentionally added
 - Inquire which surface finish (matte Sn) is being used? BGA/lead frame? What's been done for whisker evaluation?
- Lead free process compatible
 - Surface mount components compatible with size dependent peak temperatures defined in JEDEC J-STD-020B currently under revision, components to be rated a same MSL levels as current SnPb products
 - Wave soldered components capable of surviving one pass through 270°C solder bath for 5 seconds
 - Non-board mounted components do not have a temperature requirement
 - Solderability J-STD-002

Using compliance criteria, evaluate component supply chain readiness

- NEMI sponsored survey investigating availability of compliant materials
- Responses to be published for each segment in 2 ways:
 - NEMI team members see responses by company name
 - Non-NEMI team members see responses by commodity family

Secondary deliverables (to be delegated):

Compliance Validation Methodology (due diligence required to guarantee components are RoHS compliant, potential UL type approval, this item should be owned by Material Declaration Team)

Schedule:

- 1/21 Approve survey
- 1/22 Initiate web design
- 2/4 Compile list of supplier names
- 2/18 Ratify web design and supplier names
- 2/19 Send survey requests to suppliers
- 3/10 Terminate survey
- 3/17 Publish survey results

Specifications and Standards:

No new standards or specifications are expected

Roles and Responsibilities:

TBD – Can be defined as project progresses

Glossary of Terms:

RoHS	Restriction on Hazardous Substances
RoHS compliant	To be defined by RoHS Technical Adaptation Committee