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Version 2.1
Date: June 15, 2009

Project Statement
Board Assembly TIG
iNEMI Characterization of Pb-Free Alloy Alternatives Project

_____ ("Participating Member") agrees to participate in the
Enter Company Name
iNEMI project entitled Characterization of Pb-Free Alloy Alternatives[1] pursuant to and as defined in the iNEMI Project Participation Agreement and to carry out the tasks as assigned and agreed to in the Characterization of Pb-Free Alloy Alternatives Project Statement of Work[2] and any approved addendum to this Project Statement. Pursuant to the iNEMI Intellectual Property Policy, the participating member

does ☐ does not ☐ (check one)

have any intellectual property or background technology to disclose in conjunction with this project.[3&4]

Approval of this Project Statement is a three step process. The first signature verifies company participation, while the second approval acknowledges agreement to the specific tasks and contributions required from each participant. The third signature is the acknowledgement and acceptance of the submitted Project Statement by the iNEMI Vice President of Global Operations.

[1] A majority of Characterization of Pb-Free Alloy Alternatives Project participants must be in favor of admitting new companies after the initial enrollment period is over.

[2] iNEMI Characterization of Pb-Free Alloy Alternatives Project Statement of Work (SOW), Version 2.1; June 15, 2009.

[3] As provided for in the iNEMI Intellectual Property Policy, if background technology or intellectual property is claimed, a Declaration of same must be provided, in writing, to the iNEMI Secretariat within 45 days of signing this agreement.

[4] Intellectual property or background technology disclosed in a declaration can only be used by the project participants for the purpose of research in connection with this project, and not for commercial purposes.

The iNEMI Characterization of Pb-Free Alloy Alternatives Project requires each participating company to commit to the first five (5) items and at least one additional item from the two remaining items which follow (please check those tasks that your firm plans to participate in):

1. [X] Provide at least one man-month or equivalent in-kind support (e.g., materials, test samples, equipment, etc.) annually.
    a. Final resource and time commitments will be defined in a task list generated after the final Project Team is formed.
    b. This includes the agreement to commit appropriate resources (possibly more than 1 man month) to meet accelerated project timeline and targeted end dates. The second signature below indicates acknowledgement and agreement to fulfill all current and future obligations defined by the project team.
2. [X] In the event project expenses are incurred, the costs will be shared among participants. The initial cost projection for this project is US$20,000. The maximum cost exposure for any single company will be US$5,000. Cost allocation by iNEMI staff will take into consideration the existing allocation of resources (both human and materials) so that no member firm is unfairly burdened. An amendment to the Statement of Work and Project Statement with the detailed breakdown of the project expenses will be submitted, by the Project Team, to iNEMI VP of Global Operations for review and approval prior to commencement of the work.
3. [X] Agree that the project team will provide technical support within its membership in sharing knowledge, information and data collected regarding
    a. Identifiable root cause of any failures observed or recorded during the execution of this project.
    b. Assembly related defects.
    c. Impact of Ag concentration on thermal fatigue resistance.
    d. Impact of commercially common dopants, such as Ni, on thermal fatigue performance.
    e. Assessment on how alloy composition affects the acceleration behavior.
    f. Basic thermal fatigue data for several of the most common alternate alloys on the market today, benchmarking them against eutectic Sn-Pb and SAC305.
4. [X] Collaborate on input to final report. Document results and publish findings to iNEMI members.
5. [X] Provide recommendations for industry standards to IPC / SPVC to assist in the generation and publication of an acceptable industry test method for the characterization of alternative Pb-free solder alloys.
6. [ ] Agree to provide materials, components, Test Vehicles, PCB fabrication, PCB assembly, Test capability, Modeling capability, FA capability as required by the Test Plan. A detailed work breakdown will be submitted, by the Project Team, to iNEMI VP of Global Operations for review and approval prior to commencement of the work.
7. [ ] Assemble test samples for evaluation, and/or carry out tests and evaluations as negotiated and agreed to, with other members of the project, to fulfill the Statement of Work. A detailed work breakdown will be submitted, by the Project Team, to iNEMI VP of Global Operations for review and approval prior to commencement of the work.

The iNEMI Characterization of Pb-Free Alloy Alternatives Project requires iNEMI membership.

The data generated and/or collected during the execution of this project will be controlled by the iNEMI Members, and distribution of any data collected must be agreed to by a majority vote of the official project participants.

The project will adhere to the terms of the iNEMI Intellectual Property Policy for declaring, identifying, and disclosing background (confidential) technical information and background intellectual property.

The data, information, and conclusions developed during this project will be available only to participating members of iNEMI who have formally joined this project. All iNEMI members will be eligible to receive status reports (e.g., at member council meetings) as well as a summary report once it is released at the end of the project. The status reports as well as the summary report will not contain data that the participants determine[5] should only be shared within the project.

If iNEMI or one individual would like to present data or information gained in this project to another company or companies, in technical paper(s), or in article(s), every member of the project team must be informed and a simple majority is required for approval.

Responsibility for the distribution of data collected during the Characterization of Pb-Free Alloy Alternatives Project will transfer to iNEMI 12 months after the conclusion of the project. This control will include decisions on how data collected and generated during the course of the project will be distributed and used. This also includes the use of any test vehicle designs for use and/or distribution outside a participating member's company. Any company wishing to publish independent analysis or summary of the data collected and/or generated will be required to get approval prior to submitting the work for external publication and/or presentation.

Ownership and control of the data and information gathered during the execution of this project will transfer to the iNEMI Secretariat 12 months after the conclusion of the project. After that period all requests for publication or transmission of data collected must be reviewed and approved by iNEMI.

[5] The data not included in the status reports or summary report will be determined by majority vote of the participants.

Project Participant Verification

Print or type Name & Title

Company

Signature | Date | Email

Management Approval and Commitment of Resources for Current and Future Tasks

Print or type Name & Title

Company

Signature | Date | Email

iNEMI Acceptance

Robert C. Pfahl | Vice President of Global Operations

Print or type Name & Title

iNEMI

Company

bob.pfahl@inemi.org

Signature | Date | Email