



# Fax/Email

Joint Council on Aging Aircraft  
Joint Group on Pollution Prevention



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**Date:** January 7, 2004  
**No. Of Pages:** 3

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***Lead-Free Solder Working Group  
Teleconference Minutes  
December 16, 2003***

**Comments:**

Attached please find the December 16, 2003 Lead-Free Solder Working Group teleconference minutes. Please further distribute as necessary.

## MEMORANDUM FOR RECORD

**Subject: Teleconference Summary and Minutes – December 16, 2003**

**Next Teleconference:** 14 January, 11:00 a.m. EST

### **Minutes:**

Decisions arrived at by this meeting's participants → Recommendations for group-at-large.  
Meeting led by Brian Greene, Project Integrator.

#### 1. Reviews

- a. Solder Summary Table. Reviewed attachment 2, Solder Summary Table, dated 12/12/03. No changes were identified. The group approved the table as written
- b. Component Rework Table. Reviewed attachment 3, Component Rework Table, dated 12/12/03. No changes were identified and the group approved the table as written
- c. Option 5, Revision B. Reviewed attachment 4 & 5, Component Placement Option 5, Revision B, dated 12/12/03. Tom Woodrow will resend these tables to all stakeholders to ensure everyone has updated information. A brief discussion ensued concerning the use of data loggers to detect failures. This will meet the requirements of the JTP. Current component drawings will be to Lee Whiteman to confirm the number of inputs/outputs. Any questions will be handled offline with David Hillman.

2. Parts Ordering. When to order the parts and boards was discussed at length. Of major concern was the possibility of the schedule slipping. It was also realized that Lety Campuzano-Contreras' ability to perform the work has a limited timeframe. Due to the limitations placed on Lety, it was decided to order the parts and boards in parallel and order them before Christmas. In the worse case scenario, if Lety cannot build the boards, a fall back plan was discussed. Tom Woodrow, David Hillman, and Lee Whiteman will discuss the situation with their respective companies to see if other possibilities are available.

3. Air Force Funding. The question was raised as to the AF requirements on spending AF funds. The funds under discussion are two years monies. The Aging Aircraft Office is required by SAF/AQ to have 55% of funds expended by the end of the first fiscal year, regardless of when the money was received. By the end of the second fiscal year 35% of the money must be expended. The last 10% is used to closeout the project and finish the reporting process.

#### 4. Future Meeting

- a. Next teleconference 14 January 2004, 11:00 a.m. EST
- b. 5 February 04, larger group telecon, 11:00 a.m. EST
- c. 24 Feb 04, Dinner meeting at the APEX conference. Meet at conference registration at 6:00 p.m.
- d. Board building/kickoff at Boeing Irving Mar/Apr timeframe depending on when Lety Campuzano-Contreras is ready for us.

Attachment 1. Action Item Status

**Open Action Items**

**LFS.03.12.01**

***Date Due:*** 1/14/2004

***Responsibility:*** Lety Campuzano-Contreras

***Required Action:*** Provide David Hillman with all requirements and specifications for the stencils for the test boards, electro-migration boards, and SIR boards.

***Comments:***

**LFS.03.10.07**

***Date Due:*** 12/01/2003

***Responsibility:*** ITB

***Required Action:*** Solicit stakeholder interest in attending a tour of Boeing-Irving's assembly of the test vehicles, approximately 40 persons, March/April timeframe.

***Comments:*** Inputs received by B.Greene

**LFS.03.10.05**

***Date Due:*** 12/01/2003

***Responsibility:*** Lety Campuzano-Contreras

***Required Action:*** Report of results of Kaizen no-clean flux cleaning study

***Comments:*** 12/16/03 – Waiting to receive SnAgCuBi solder paste. Once the paste is received everything will be sent to Kaizen all at once.

**LFS.03.07.12**

***Date Due:*** 08/13/2003

***Responsibility:*** Brian Greene (NASA AP2/ITB)

***Required Action:*** (a) Contact Dave Locker, AMCOM, to ask if he could do some simple Coffin-Manson modeling, perhaps for just one component type (e.g., 44-pin or 20-pin LCCs) for inclusion in the project's Joint Test Report, and then (b) Contact Paul Vianco, Sandia Labs, to look for synergy with Sandia's prior LCC data

***Comments:*** 12/1/03 – Brian Greene to check into modeling that CALCE may be interested in doing using JCAA/JG-PP LFS test data.

08/05/03 - Dave Locker indicated that he could do some simple Coffin-Manson modeling for inclusion in the project's Joint Test Report