

The following four charts were shown in the Breakout Session for Repair Design and Processes on Friday May 11, 2007 in order to initiate discussions

(notes taken during the breakout session were collected in a separate file called: RepairDesign&ProcessBreakoutNotes.pdf)

Repair Design and Processes Breakout Session

Moderators

Peter Smith (Consultant)

Joe Hafenrichter (Boeing)

Mike Borgman (Spirit AeroSystems)

Discussion Categories

1. **PSE vs. Secondary Structures**
2. **Bonded vs. Bolted Repairs**
3. **Hybrid Bonded / Bolted Repairs**
4. **Necessity of Bonded Repairs**
5. **Off-Nominal Bonded Repair Processes**
6. **Permanent vs. Time Limited vs. Temporary Repairs**
7. **Inspectability**
8. **SRM**
9. **ADL's for all composite components**
10. **MRO's**
11. **Bonded Repair Integrity Validation**
12. **Safety Management**

PSE: Principal Structural Element

SRM: Structural Repair Manual
ADL: Allowable Damage Limit
MRO: Maintenance and Repair
Organizations

See RepairDesign&ProcessBreakoutNotes.pdf for notes collected in each of the twelve categories listed above and some additional comments

Safety Management

1. PSE vs. Secondary Structures
2. Bonded vs. Bolted Repairs
3. Hybrid Bonded / Bolted Repairs
4. Necessity of Bonded Repairs
5. Off-Nominal Bonded Repair Processes
6. Permanent vs. Time Limited vs. Temporary Repairs
7. Inspectability
8. SRM
9. ADL's for all composite components
10. MRO's
11. Bonded Repair Integrity Validation
- 12. Safety Management**

Safety Management

1. PSE vs. Secondary Structures
 - Sandwich and Monolithics Need different guidelines
 - Need Better Definition of Primary vs. Secondary
 - Cowls, Fore Flaps
2. Bonded vs. Bolted Repairs
3. Hybrid Bonded / Bolted Repairs
4. Necessity of Bonded Repairs
5. Off-Nominal Bonded Repair Processes
6. Permanent vs. Time Limited vs. Temporary Repairs
7. Inspectability
8. SRM
9. ADL's for all composite components
10. MRO's
11. Bonded Repair Integrity Validation

Safety Management considerations are appropriate for all other discussion categories addressed in the breakout session