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**From:** Mahendra Shah  
**To:** Daniel Huang; Robert Shewmaker; Ron Parkhill  
**Date:** 9/18/02 11:17AM  
**Subject:** Consolidated Staff questions for Boeing

Attached please find the list of questions for Boeing. I have consolidated the inputs from Bob and Dan with the proposed staff questions sent earlier. If you have any comments, please let me know. Thanks.

Mahendra

**CC:** Bernard White; Jack Guttman

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**Staff Questions for Boeing: 9-18-2002**

1. Configuration of the fuselage and wings, including thickness of each component, materials and construction details
2. Details of connections between the wings and the fuselage
3. Locations of the hard components, such as the landing gears and the engines, on the aircraft
4. Configuration of the hard components, including materials and construction details
5. Details of connections of the hard components to the fuselage and/or wings
6. Maximum vertical dive velocity before loss of control, and what is the mode of the loss of control whether wing aerodynamics such as wing control surfaces or rear tail assembly components
7. Maximum vertical dive velocity before loss of wing assembly
8. Dynamic shear and moment capacities of wing to fuselage connection, and the engine mounts to the wing structure, for a horizontal frontal loading/attack orientation
9. Maximum achievable velocity at 1000' above sea level or at lower altitudes, under full load with horizontal flight under maximum power
10. Maximum performance envelopes for the aircraft, including associated margins of safety, for flights at cruise altitudes and at lower altitudes. For example, the maximum achievable speeds at various angles of attack without loss of control and structural integrity of the aircraft