

A&AE 451 Aircraft Design Team Design Archive

Purposes of the Team Design Archive

To provide a single location for all data and analysis that were used in your design. This will help you as well as future students.

To illustrate the evolving or iterative nature of your design by giving a record of your preliminary results. The Critical Design Review (CDR) and Thiokol Final Design Report will document the final design but not the design process.

Your Team Design Archive should contain the following items..

All documents you turn in during this class (e.g., Team Concept Selection Document).

All Preliminary Design Reports (PDRs) and any background material that may have been used to generate the PDR.

All test results (e.g., preliminary test of the propulsion system or structure, flight test results).

Comparison between test results and theory.

All databases found, developed or used.

All or most individual trade studies done by your team.

Any internal documentation you think is important to the evolution of your design.

Significant results you learn from any source during this design activity (e.g. glue weight, balsa properties, structural effects of monokote).

Notes:

You do not have to duplicate information in the CDR or Thiokol Final Design Report as these documents will be part of your complete Team documentation.

The Team Design Archive will generally contain greater depth of information and detail than the CDR or Thiokol Final Design Report.

Hand written material is acceptable.

The Role of the Historian

To assemble the Team Design Archive.

To post the CDR documentation and the Thiokol Design Report on the World Wide Web on the class homepage (Jason will help with this).