Department of Aerospace Engineering
University of Kansas
AE 510 Aerospace Materials and Processes
Design Problem: High Performance Aircraft Wing Torque Box
Fall, 2003

Oral Report (20 pts)

Identification of preferred concepts and rationale for these concepts (5)	4
Identification of final preferred concept and rationale (5)	4
Individual contribution (5)	5
Format and unity of presentation (5)	5

ALL WEIGHTS !! (MOMENT.. (EVEN IN DETAILED SECTION)

Team Written Report (70 pts)

Executive summary (5)	5
Explanation of choice for three concepts from original ten (10)	6
Detailed process descriptions for alternative processes on the preferred concepts, including cost, weight and technical risk assessment (25)	19
Identification of preferred concept(s), and rationale for choice (10)	7
Integration of choices (10)	7
Design choices and documentation (5)	4
Appendices (time estimates to make fixtures …) (5)	4

- DESCRIBE RANKINGS: JUDGMENT NOT JUST CATEGORIES.
- YOU TALKED TO SOME ISSUES, BUT DIDN'T REALLY ADDRESS THEM.
- (INCOMPLETE COMPARISON)
- UNNECESSARY REPLIC. OF PROCESS DISCUSSION WITH LITTLE DEPTH
- INCONSISTENT CHOICES FOR SIMILAR PROCESSES.

Team Effectiveness (10 pts)

Team effectiveness and communication (5)	4
Notes from team meetings (2.5)	2.5
Schedule (2.5)	2.5
	79

Individual Effort (100 pts)

	STUDENT 1	STUDENT 2 ALUM.	STUDENT 3 UNDERGRAD	STUDENT 4 GRAPH / HONORS
All but integrator:				
Organization and flow (15)		15	15	15
Manufacturing processes (50) — detailed process description; time, cost and risk estimation		43	45	39
Tooling design (25) — detailed drawings; time, cost and risk estimation		20 22	20	20
Schedule (10) — accomplishment of tasks on time		10	10	9.0
		90	88	(COMMUN. W/ TEAM BEFORE THEY GO UP CHAIN) - RECOGNIZES OR REASON 83
Integrator:				
Organization and flow (25)		25		
Introduction (10)		9		
Summary (40)				
Manufacturing facility diagram (20)		16		
Parts flow diagram (10)		9		
Time, cost and risk summary by production rate (10)		8		
Minutes of meetings (25) — notes from team meetings; deliverables and accomplishments, by member		23		TALKED; TRACKING
		90		

NO REAL INDICATION OF MAGNITUDE OF ESTIMATES (INACCURATE).

Z-Staff.