JPL CAD Criteria

5/6/97.

Pro-E Propulsion

"How to model shrinkage of tubes when welded"

Logistics problems shrink 6/100th

① 3D Models - ART-TO-PART

Design Process

② Need to move sketchs to 3D wire → SOLID

Mars Ascent Vehicle

Pro-E designers. Larry Lee

Yuki

Jim French

Jack stocky.

③ Minimize key strokes/time to perform a task.

④ Work groups on assemblies → collaborative detail design

⑤ Scalability
- Parametric Models
- Load times (Regen Times)
- Disk storage requirements

⑥ Neutral output
- Assemblies
- Detailing

Problem #1: w/ PRO-E

HUGE REGEN TIMES ON LARGE ASSEMBLIES

Lockheed Martin/Denver - converting to Pro-E.

Lockheed Martin Missiles Florida

Question:

Simplified Reps. — "are they a crutch?"

TESS — small scale project

IPEX — mid-range DS1

DS1 — large scale

"Underlying assumptions of parametric models at above the sub assembly level is problematic."

— E. Chow

IRC Chat Channel → EIS Pallmeier / Galileo G. Earl