

ENVIRONMENTAL ACCEPTANCE

TESTING Program

ORBITER PROJECT

ENVIRONMENTAL ACCEPTANCE TESTING PROGRAM

• CURRENT ORBITER PROGRAM

- ALL FLIGHT HARDWARE REQUIRING CERTIFICATION ^{ARE} IS CONSIDERED FOR EAT.
- REQUIREMENT TO TEST OR NOT TO TEST IS SPECIFIED IN PROCUREMENTS BASED ON PAST EXPERIENCE WITH LIKE HARDWARE.
- IDENTIFICATION OF COMPONENT EAT REQUIREMENTS ^{WILL BE} ~~IS~~ REFLECTED IN CERTIFICATION PLANS (CURRENTLY SHOWN IN RDD'S).

• POTENTIAL PROBLEMS

- REQUIREMENTS ARE NOT BASED ON DESIGN EVALUATION DUE TO HARDWARE STATUS.
- REQUIREMENTS ARE BEING INTERPRETED BY NUMEROUS INDIVIDUALS RESPONSIBLE FOR VARIOUS DESIGNS, HENCE A NON-UNIFORM APPLICATION OF THE CRITERIA CAN BE EXPECTED.

- RECOMMENDATION

- ESTABLISH A NASA/CONTRACTOR ENVIRONMENTAL ACCEPTANCE TEST TEAM TO REVIEW DESIGNS AS THEY BECOME MATURE AND DETERMINE ACCEPTABILITY OF THE PREVIOUSLY DEFINED EAT REQUIREMENTS. ~~PROGRAM/PROJECT~~ ~~CHANGES TO~~ IMPACTS RESULTING FROM THE REVIEW ACTIVITY WOULD BE HANDLED AS CHANGES TO THE BASELINE AND SUBMITTED FOR PROGRAM/PROJECT MANAGER APPROVAL. TEAM ACTIVITY WOULD BE INITIATED AT PDR AND BE COMPLETED BY CDR.

- TEAM MEMBERSHIP (DISCIPLINES)
 - FULL TIME WORKING MEMBERS~~SHIP~~
 - EAT REQUIREMENTS & OBJECTIVES
 - MANUFACTURING PROCESSES
 - IN-PROCESS INSPECTION (QA)
 - RELIABILITY AND QUALITY ASSURANCE
 - PART TIME MEMBERS (AS REQUIRED)
 - THERMAL
 - DYNAMICS
 - SUBSYSTEM MANAGER
 - PROJECT ENGINEERING/MANUFACTURING & TEST