PRODUCT ASSURANCE TARGETED TO MEET MISSION OBJECTIVES

- DEMONSTRATED CAPABILITY FOR:
  - HIGH PROBABILITY OF SUCCESS
  - PAYLOAD CUSTOMER CONFIDENCE

PRODUCT ASSURANCE LEVEL OF EFFORT

COST EFFECTIVE OBJECTIVE

SYSTEM RELIABILITY
PRODUCT ASSURANCE BASED ON "VALUE ADDED" STRATEGIC APPROACH

PRODUCT ASSURANCE TOOLS AND SUPPORT

- Reliability Block Diagram Analysis
- Evaluation of Probability of Success
- Selective Redundancy Recommendations
- Design Evaluation
- MTBF Review
- Failure History and Trending
- Off-the-Shelf Vendor Matrices
  - Manufacturing Process Control
  - Certification Test Review
  - Inspection Adequacy

PROJECT GOALS

- Demonstrated Probability of Success
- Hardware Optimization
- Cost and Schedule Efficiency
PRODUCT ASSURANCE STRUCTURED FOR OPTIMAL PAYBACK

TASKS:
- CONTINUED SUPPORT OF ENGINEERING STUDY GROUP
- RELIABILITY ANALYSIS FOR CHOSEN EQUIPMENT
  - RELIABILITY BLOCK DIAGRAM ANALYSIS (RBDA) - MODELING TO VERIFY SYSTEM PERFORMANCE
- FAULT TOLERANCE ANALYSIS
- MTBF VERIFICATION
- FAILURE HISTORY REVIEW
- RELIABILITY IMPROVEMENT RECOMMENDATIONS
- VENDOR REVIEW
  - ASSURING GOOD PROCESS CONTROLS
  - TEST COMPARISON MATRIX
- SYSTEM INTEGRATION SUPPORT
  - RBDA - MODELING TO VERIFY INTEGRATED PERFORMANCE
  - SUPPORT IN DEVELOPMENT OF INTEGRATED TEST PLANS

GOAL: OPTIMAL PERFORMANCE AND RELIABILITY WITH COST AND SCHEDULE EFFICIENCY