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(11.2)

DAMON

OBJECTIVES

1. ESTABLISH PRECEDENCE OF USE OF THE STS FOR RECONNAISSANCE OPERATIONS
 - a. SHOWS GOVERNMENT COMMITMENT TO ORBITER AS RECONNAISSANCE PLATFORM
 - DOD/NRO/DCI
 - NASA
 - CONGRESS
 - b. WILL TEST PRIORITY IF CONGINGENCY ARISES
 - QUICK TURN AROUND
 - RESCHEDULE ORBITER
 - c. SHAKES DOWN SECURITY INTERFACE
2. DEVELOP TECHNICAL DATA INPUTS AND OPERATIONAL EXPERIENCE REQUIRED TO DEVELOP AND INTEGRATE OPERATIONAL RECONNAISSANCE SYSTEMS
 - a. DO WE NEED THE EXTRA INTEGRATION CONTRACTORS PAYLOAD INTEGRATION CONTRACTOR, ETC.
 - b. HOW MUCH DOES INTEGRATION HAVE TO COST?
 - c. WHAT DOCUMENTATION IS REALLY REQUIRED
 - d. WHAT IS THE MINIMUM INTEGRATION SCHEDULE?
 - e. CAN A COMPLEX CAMERA SURVIVE STS ENVIRONMENTS?
BE TURNED AROUND FOR REFLIGHT?

IN WHAT TIME? AT WHAT COST?

f. WILL STS DYNAMICS/ATTITUDE CONTROL ALLOW HEXAGON QUALITY PHOTOGRAPHY?

g. IS CONTAMINATION A PROBLEM? REENTRY SOAK-BACK?

3. ACQUIRE USEFUL PHOTOGRAPHIC INTELLIGENCE COMPARABLE TO CURRENT SEARCH QUALITY

a. ROUGHLY EQUIVALENT TO 1/4 HEXAGON

b. PROVIDES SURGE RESPONSE TO CRISIS

c. COULD LEAD TO ALT MC&G SOURCE - 1-2 MISSIONS/YEAR TO MEET DMA NEEDS WITH MINIMUM GROUND PROCESSING COSTS.

d. FREES RESOURCE FOR ECONOMIC/AGRICULTURAL INTEL:

COLOR,

e. SOUTHERN HEMISPHERE/3RD WORLD REQUIREMENTS EXPANDING PROVIDES EXPANDED CAPABILITY WITHOUT DETRACTING FROM HEXAGON

(b)(1)
(b)(3)

(b)(1)
(b)(3)

4. EVALUATE BENEFITS OF ORBITER SUPPORT SYSTEMS

a. CAN PAYLOAD BE CHEAPER BY USING STS:

- POWER -
- COMM
- TLM
- ADP
- THERMAL CONTROL
- ATTITUDE/POINTING

- b. WHAT IS INTEGRATION/AUTONOMOUS SYSTEM \$ TRADE?
5. DEVELOP A DATA SOURCE FOR OTHER SYSTEMS
- a. DOD IS PROVIDING \$2M TO GET DAMON'S DATA BASE OF ANSWERS TO ABOVE. SHOULD SAVE THE \$2M ON SHUTTLE EXPERIMENT SUPPORT EQUIPMENT UNDER DEVELOPMENT BY AIR FORCE.
6. EVALUATE MAN/SYSTEM INTERACTING IN MISSION ACCOMPLISHMENT
- a. SAVE \$?
 - b. MISSION EFFECTIVENESS?
 - c. DAMON INCLUDES A PAYLOAD SPEC ASTRONAUT
 - d. DAMON HAS MAN/MACHINE EXPERIMENTS TO ANSWER A & B.
 - e. NOTE THAT NASA HABIT IS "MAN ALONG FOR RIDE"