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FOR DR. HERMANN. INFO MR. HILL AT	OMMIRNSA AT	
The state of the s	KF L	
SURJECT: FARRAH I BATTERY LIFE		
-REFERENCES: A. 0202, 42 FEB 84		

0374, 19 MAR 84 D. AT THE JANUARY 84 P989 QUARTERLY REVIEW, THE PRIME CONTRACTOR BRIEFED THE PRELIMINARY RESULTS OF A FARRAH-I BATTERY LIFE STUDY. THIS STUDY INDICATED THAT THE TASKING CAPABILITY REQUIRED BY THE FARRAH-I GENERAL SYSTEM SPECIFICATION. TOGETHER WITH THE INCREASE IN PAYLOAD POWER REQUIREMENTS BEYOND THE ORIGINAL PREDICTION. RESULTED IN A SUBSTANTIAL REDUCTION IN EXPECTED BATTERY LIFE. WHICH, IN TURN, REDUCED THE OVERALL SYSTEM MMD BELOW THE SPECI-THIS PROBLEM IS BEING RESOLVED BY SIGNIFICANTLY FIED 36 MONTHS. LOWERING THE BATTERY OPERATING TEMPERATURES THROUGH THE ADDITION OF OPTICAL SOLAR REFLECTORS AND WHITE PAINT TO VARIOUS VEHICLE WITH THESE MODIFICATIONS THE TAPE RECORDERS WILL SURFACES. REMAIN THE CONTROLLING FACTOR IN THE FARRAH-I MMD. THE FARRAH-I MMO WILL MEET OR EXCEED ITS SPECIFICATION OF 36 MONTHS. FARRAH WILL EXCEED ITS SPECIFICATION FOR BOTH MMD AND TASKING CAPABILITY, I.E., THE 208 MINUTE PER DAY SPECIFICATION TASKING HOWEVER, THE EXISTING FARRAH POWER SYSTEM WILL NOT MODEL. PERMIT FULL EXPLOITATION OF THE VEHICLE'S CAPABILITIES AGAINST CURRENT AND ANTICIPATED FUTURE REQUIREMENTS. DURING PERIODS WHEN THE SPACECRAFT OPERATES IN LESS THAN 400 PERCENT SUN. (ABOUT TWO THIRDS OF THE YEAR), THE POWER AVAILABLE ON CERTAIN PASSES IS INSUFFICIENT TO ACCOMPLISH THE DESIRED TASKING.

1854, 12 MAR 81

KUBISON 2423, 4 MAR 81

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С.

PRIMARY TASKING OBJECTIVE.

3. BASED ON THESE CONSIDERATIONS WE SHOULD ADD A THIRD BATTERY TO THE FARRAH SPACECRAFT. THIS ADDITION WOULD RELIEVE THE EXISTING POWER CONSTRAINTS AND PROVIDE IMPROVED FLEXIBILITY TO MEFT CURRENT AND PREDICTED FUTURE REQUIREMENTS SUCH AS INCREASED TI, CURRENT INTELLIGENCE, OCEAN SURVEILLANCE AND SUPPORT OF MULTIPLE VAN OPFRATIONS. TODAYS

THIS SITUATION OCCURS PRIMARILY IN PASSES OVER THE CENTRAL SOVIET

UNION AND EASTERH EUROPE WHERE TECHNICAL INTELLIGENCE IS A

MANDLE VIA ENTENAM

BARGLE SIA ESTE EST

ROGRAM 989 SYSTEM PROVIDES A COMBINATION OF ONE RAQUEL AND TWO URSALA VEHICLES TO SATISFY THESE REQUIREMENTS. AFTER 1982 WE MIGHT BE TOTALLY DEPENDENT ON FARRAH-I.

CONTROL SYSTEM

4. THE COST OF ADDING A THIRD BATTERY TO BOTH FARRAH-I AND FARRAH-II IS \$4.2M. ADDITION OF A THIRD BATTERY TO FARRAH-I, ALONG WITH CURRENT PAYLOAD PROBLEMS, WILL SLIP ITS AVAILABILITY TO DECEMBER 4984. CONFLICTS WITH TEST EQUIPMENT AND OTHER RESOURCES WILL RESULT IN A FARRAH-II AVAILABILITY IN AUGUST 4983. I DESCRIBED THE FINANCIAL IMPACT OF THESE SLIPS IN REFERENCE B. IF FARRAH-II AVAILABILITY IS SLIPPED TO DECEMBER 4983. WE CAN CREATE A FUND REQUIREMENTS PROFILE WHICH COVERS BOTH FARRAH-I AND II SLIPS AND THE BATTERY ADDITIONS AS FOLLOWS:

FY 82

FY 83

FY 84

2.0 8.3

FURTHER DELAY OF FARRAH-II WOULD NOT RESULT IN ANY FURTHER SIGNIFICANT SAVINGS AND WOULD BE COUNTERPRODUCTIVE TO OUR GOAL OF INCREASING OPERATIONAL CAPABILITY.

5. I NEED TO KNOW IF THE FUND REQUIREMENT CAN BE SATISFIED IN ORDER TO DIRECT THE CONTRACTOR TO PROCEED WITH THE BATTERY ADDITION BY 45 APRIL. A BRIEFING ON THE OPERATIONAL IMPACT OF NOT MAKING THE MODIFICATION IS AVAILABLE.

REVW: 25 MAR 2001

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HANDLE VIA BYERAK CONTROL SYSTEM

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KWBISON FOR GEN KULPA/COL FOLEY: FROM HILL	RF
SUBJECT: FARRAH I REFERENCE: A. KWBISON 4259, Ø82236Z FES 84 B. PROGRAM REVIEW BRIEFINGS ON F-I POWER SUBS'	YSTEM
STATUS 4. REQUEST YOU DEVELOP A RECOVERY OPTION TO CORRECT THE MARKAM OMNI-P SENSITIVITY ANOMALY DESCRIBED IN REFERENCE A. FOR PLANNING PURPOSES, YOU CAN ASSUME A FARRAM I LAUNCH DATOF MARCH 4982, SCHEDULE AND COST IMPACTS SHOULD BE IDENTIFY OF MARCH AS A MORE DETAILED ASSESSMENT OF THE TECHNICAL, MARTURING AND MISSION IMPLICATIONS OF CORRECTING OR NOT CORRECTING ANOMALY. IN ADDITION TO PROVIDING OPTIONS AND RATIONS A BRIEFING ON THE SUBJECT SHOULD BE PREPARED TO ASSIST LATER AND THE DCI'S SIGINT COMMITTEE.	TE FIED NUFAC- CTING ALE, ER
2. AT THE RECENT P-989 PROGRAM REVIEW (REFERENCE B), THE PRIME CONTRACTOR DESCRIBED A POTENTIALLY SERIOUS FARRAM I BATTERY/POWER SUBSYSTEM PROBLEM. REQUEST YOUR ASSESSMENT OF THIS PROBLEM AND IF IT IS IN FACT SERIOUS, REQUEST RECOUPTIONS BE DEVELOPED AS FOR THE OMNI-P SENSITIVITY ANOMALY	ESCRIBE

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PPS FOR HERMANN/HILL, BISON FOR KULPA/FOLEY, FALCON FO	R GOVERNMENT
EYES ONLY: FROM INMAN	in the same of the same of the interest of the
SUBJECT: FARRAH-I PERFORMANCE	
RFF 0202, 121854Z FER 81 1. 1870) There continues to be great reliance on p-989	your york, god,
-1. IS/0) THERE CONTINUES TO BE GREAT RELIANCE ON P-989 AND UNIQUE CONTRIBUTIONS TO OUR SIGINT MISSION. IN PARTI	· · · · · · · · · · · · · · · · · · ·
	ATISFACTION
	PPING FUNC-
	HICLE POWER ERY CAPACTTY
	IRED OPERA-
TIONAL FLEXIBILITY WILL RESULT. WE STRONGLY SUPPORT A RE	COVERY
	DOITIONAL
BATTERY CAPACITY AND POWER SUBSYSTEM REWORK AS WOULD ALLE PROBLEM AND SUGGEST WORK BEGIN AS SOON AS POSSIBLE. IT I	VIATE THE S GUR HNDFR-
	THE LIKELY
LAUNCH SCHEDULES, AND WILL BE NEEDED IN ANY EVENT FOR FARI	RAH-II.
2. (S/B) I ALSO BELIEVE THAT THE UNIQUE MAINSEAM TI CAP	
OF THE MISSION 7300 PROGRAM IN THE 42-48 GHZ RANGE ARE SINHAMPERED BY THE FARRAH-I 4Y OMNI DOWNCONVERTER LOSS IN SE	
ALTHOUGH WE RECOGNIZE THERE IS RISK ASSOCIATED WITH REPAIR	
OF THE PROBABLE CAUSE CINTERMEDIATE FREQUENCY SOLID STATE	
WE NEVERTHELESS WANT TO EMPHASIZE THE IMPORTANCE OF THIS I MISSION TO OUR SIGINT NEEDS. IF ANY FIX IS POSSIBLE WITH	
RED LAUNCH SCHEDULE (FALL 84/SPRING 82) WE ENCOURAGE THIS	
BE RECTIFIED.	
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HANDLE VIA BYEMAN CHANNELS ONLY

FOR DR. HERMANN, INFO MR. HILL AT INFO FOR DIRNSA. INFO MR. STARK/MR. GENTILE AT FROM: GENERAL KULPA.

SUBJECT: FARRAH-I CAPABILITY LOSS

4. DURING REVIEW OF FINAL FARRAH-I PAYLOAD ACCEPTANCE TEST DATA, AN 8 DE REDUCTION IN GAIN IN ONE OF THE TWO OMNI RECEIVERS WAS DISCOVERED. THE PRIMARY FUNCTION OF THESE RECEIVERS IS MAINBEAM TECHNICAL INTELLIGENCE. WE HAVE DETERMINED THE FAILURE TO BE IN AN IF SWITCH MODULE AND HAVE TO ASSUME THAT COMPLETE LOSS OF THIS CIRCUIT WILL EVENTUALLY RESULT.

THE CONTRACTOR HAS DEVELOPED A REPAIR PLAN WHICH, ON-PAPER, SUPPORTS A DECEMBER OF 1981 LAUNCH. HE DOES NOT RECOMMEND REPAIR HOWEVER. I HAVE ASSESSED THE PROPOSED REPAIR PLAN AND BELIEVE THAT THE TIME ESTIMATED TO REPAIR THE PROBLEM IS OPTIMISTIC. THERE IS A MAJOR RISK TO OTHER SURSYSTEMS AND PAYLOAD WIRING DURING DISASSEMBLY REPAIR REASSEMBLY, AND ENVIRONMENTAL TESTING. THE MOST CRITICAL COMPONENT OF CONCERN IS THE 20-LAYER MOTHERBOARD USED IN THE DATA HANDLER SUBSYSTEM. IT IS A COMPLEX BOARD CON-SISTING OF HARD AND FLEXIBLE LAYERS INTERTWINED TO ENABLE A PORTION OF THE BOARD TO BE MOUNTED 90 DEGREES TO THE THE SUPPLIER HAS BEEN UNABLE TO PRODUCE A REMAINDER. SECOND BOARD IN MANY ATTEMPTS. A REDESIGNED BOARD WILL BE USED FOR FARRAH II. UTILIZING A HARD BOARD WITH POINT-TO-PGINT WIRING. THERE IS A HIGH PROBABILITY THAT THE FARRAH I BOARD WOULD BE DAMAGED DURING REWORK AND SUBSEQUENT PAYLOAD VIERATION. I WOULD THEN BE FORCED TO INCORPORATE THE FARRAH II DESIGN INTO FARRAH I REQUIRING FOUR TO SIX MONTHS ADDED EFFORT. THIS WOULD DELAY THE LAUNCH OF FARRAH I WELL BEYOND MARCH 1982. THE MINIMUM COST TO REPAIR IS \$5.4M AND THE RISKS I HAVE DESCRIBED WOULD REQUIRE ANOTHER \$6-7 MILLION TO COVER.

WE HAVE ASSESSED THE COLLECTION IMPACT CAUSED BY LOSS OF THIS CIRCUITRY AND BELIEVE THAT THE REDUCTION IN CAPABILITY DOES NOT JUSTIFY THE RISK OF REPAIR. REMAINING RECEIVER/ANTENNA CAPABILITIES OVERLAP THE FAILED UNIT CONSIDERABLY. A MESSAGE DESCRIBING DETAILS OF THIS IMPACT HAS BEEN TRANSMITTED TO INTERESTED ELEMENTS OF THE A BRIEFING ON THE SUBJECT IS AVAILABLE TO ASSIST COMMUNITY.

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YOU IN MAKING A FINAL DETERMINATION ON THIS ISSUE.
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C R E T 041930Z MAR 81 CITE BISON 2423 INFO LAGOON.

HANDLE VIA BYEMAN CHANNELS ONLY

HEXAGON/BUDGET

FOR: J. HILL INFO: R. PAULSON FM: GEN KULPA SUBJECT: P989 TEST PROBLEMS AND LAUNCH DELAY IMPACTS 4. THE P989 PROGRAM IS UNDER A FINANCIAL STRAIN DUE TO DIFFICULTIES ENCOUNTERED IN THE PAYLOAD AND SYSTEM TEST PHASES, AND THE ANTICIPATED LAUNCH SLIP OF THE H-47 HOST VEHICLE TO FEB/MAR 82.

DIFFICULTIES IN PAYLOAD TESTING, AS BRIEFED TO MR HILL RF ON 47 SEP 80, CAUSED THE FARRAH 4 PAYLOAD DELIVERY TO SHIFT FROM OCT TO LATE DEC 80. FURTHER PROBLEMS IN PAYLOAD COMPATIBILITY TESTS-HAVE REQUIRED REWORK OF SELECTED COMPONENTS AND DELAY OF READY FOR MATE STATUS TO JUN 81. THESE DELAYS AND REWORK OPERATIONS HAVE COMBINED TO SEVERELY TAX THE P989 FY 84 PROGRAM, FOR THIS REASON, REQUEST YOUR CONCURRENCE IN P989'S REQUIREMENT FOR \$4.99M IN FY 84 REPROGRAMMING FOR FARRAH 4 AT THE EARLIEST OPPORTUNITY. I AM WORKING TO IDENTIFY A SOURCE FOR THIS REPROGRAMMING.

3. AN F-4 LAUNCH DELAY TO EARLY 82 IS IN ALL PROBABILITY THE NEW P989 BASELINE. P989 COSTS ASSOCIATED WITH THIS WERE DETAILED IN ALT 3 OF THE SEP 80 HEXAGON BUDGET REVISION. DUE TO STORAGE AND RETEST OF F-1, AND F4/F2 SYSTEM TEST CONFLICTS, THESE COSTS WERE ESTIMATED AT .4M IN FY 84 ANO 7.3M IN FY 82. THESE COST IMPACTS ARE STILL VALID, WITH THE EXCEPTION THAT 3.0M IS NOW FORECAST TO BE NEEDED IN FY 83, THEREBY REDUCING THE FY 82 IMPACT TO 4.3M. REQUEST YOU TAKE APPROPRIATE ACTION TO INCLUDE THE ADDITIONAL \$4.3M IN FY 82 AND \$3.0M IN FY 83 A5 THE NEW P989 BASELING PROGRAM.

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DEMURE. FALCON.
HANDLE VIA BYEMAN CHANNELS ONLY
The state of the second
EUS
FROM RISON/FOLEY/
SUBJECT: PARTIAL LOSS OF MAINBEAM OMNI-P SENSITIVITY ON
FARRAH I IN BANDS 6-8 (42-48 GHZ).
4. SUBSEQUENT TO FINAL PAYLOAD TESTING AT MOTOROLA, AN 808
· · · · · · · · · · · · · · · · · · ·
REDUCTION IN OMNI-P SENSITIVITY WAS DISCOVERED DURING A PRE-
SHIPMENT TEST SIGNAL GENERATOR (TSG) VERIFICATION.
INVESTIGATION REVEALED THE CAUSE TO BE A FAULTY DOWN-
CONVERTER IF SWITCH MODULE. I HAVE REVIEWED THE TECHNICAL
RISK OF REPAIRING THE FAILED UNIT US ACCEPTING AS IS.
THE REPAIR REQUIRES REMOVAL OF THE DOWNCONVERTER FROM THE
"B" BOX, DISASSEMBLY OF THE DOWNCONVERTER, REPAIR AND
TEST OF THE IF SWITCH MODULE, REASSEMBLY OF THE DOWN-
CONVERTER. FULL SUBSYSTEM TEST, REINSTALLATION INTO THE
"B" BOX. FULL ENVIRONMENTAL AND FUNCTIONAL TEST OF THE
"B" COX AND REPEAT OF PAYLOAD CALIBRATION.
2. THE FAULTY OUTPUT IS CONNECTED TO THE OMNI-P (PLUS)
CW. PULSE, AND TI RECEIVERS. THE LATTER TWO ARE UN-
AFFECTED SINCE EACH HAS AN AGC WITH AN 8 DE DYNAMIC
RANGE CAPABLE OF CORRECTING FOR THE LOST SENSITIVITY.
HOWEVER, THERE IS A POTENTIAL FOR COMPLETE IF SWITCH
MODULE FAILURE IN WHICH CASE ALL THREE SUBSYSTEMS WILL
BE AFFECTED WHEN CONNECTED TO THE OMNI-P OUTPUT. THERE
IS AN OMNI-M (MINUS) SUBSYSTEM WHICH IS OPERATING
CORRECTLY. IN MOST CASES, IT WILL RECEIVE SIGNALS FROM
THE AREAS NORMALLY COVERED BY THE OMNI-P BUT WITH
SLIGHTLY LESS SENSITIVITY. THE OPERATIONAL IMPACT OF THE
CURPENT 8 DB SENSITIVITY LOSS AND FULL SENSITIVITY LOSS
3. IF THE FAULURE REMAINS LIMITED TO THE 8 DE SENSITIVITY
LOSS IN THE OMNI-P OW RECEIVER CHANNELS. THE IMPACT ON

FOR LOW POWER FIXED BEAM EMITTERS LOCATED IN THE NORTHERN HEMISPHERE THAT ARE ORIENTED GENERALLY IN AN EASTERLY OR WESTERLY DIRECTION. THE OMNI-M CHANNELS ALONE PROVIDES SUFFICIENT COVERAGE. HOWEVER, THE COVERAGE OF SOUTHERLY POINTING BEAMS IS RESTRICTED BY THE DEGRADATION

MISSION SUCCESS WILL BE SMALL EXCEPT IN THE AREA OF WEAK

NON-SCANNING CW SIGNAL SEARCH AND TI.

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18 18 OR LOSS OF SENSITIVITY IN THE OMNI-P CHANNELS WHEN THE COLLECTOR IS BELOW APPROXIMATELY 65 DEGREE N AND 25 DEGREE N. BELOW 25 DEGREE N. THE COVERAGE IS RESTRICTED FROM FIXED BEAMS POINTING IN A ESE OR WSW DIRECTIONS.
IN CONTRAST. FOR EMITTERS EMPLOYING A LARGE SCAN VOLUME OR CIRCULAR SCAN THE DECREASED FIELD-OF-VIEW AND RESTRICTED COLLECTION GEOMETRY IS EXPECTED TO ONLY CAUSE A REDUCTION IN THE AVERAGE INTERCEPT DURATION BUT NOT IN THE PROBABILITY OF INTERCEPT. UNLESS THE EMITTER HAS A RELATIVELY SHORT ON-TIME.

FOR SIGNALS THAT WORMALLY EXCEED THE SYSTEM THRESHOLD BY MORE THAN 40 DB. THERE WILL BE ESSENTIALLY NO LOSS IN NUMBERS OF SIGNALS DETECTED, BUT LESS DATA WILL BE GATHERED DURING THE AVERAGE INTERCEPT.

IF COMPLETE FAILURE OCCURS. ALL THREE RECEIVERS CONNECTED TO THE OMNI-P CHANNELS WILL BE AFFECTED. HOWEVER. THE CHNI-M ANTENNA GAIN IN THE REGION NORMALLY COVERED BY THE OHNI-P CHANNEL ANTENNA IS NOMINALLY ONLY ABOUT 12 DB DOWN FROM THE PEAK GAIN OVER MOST OF THE POTENTIAL ANGLES OF ARRIVAL (THOUGH THIS VALLUE AT A SPECIFIC ANGLE OF ARRIVAL IS QUITE DEPENDENT ON POLARIZATION). THIS ALLOWS THE OHNI-M ANTENNA TO PROVIDE FAIRLY GOOD SYSTEM SENSITIVITY AT NEARLY ALL RECEIVE ANGLES OF ARRIVAL, AND PROVIDE FAIR TO GOOD SYSTEM SENSITIVITY OVER MOST OF THE RECEIVE ANGLES OF ARRIVAL TYPICALLY EXPECTED FOR THE EMITTERS OF INTEREST.

A. CONSIDERING THE MISSION IMPACT AS STATED ABOVE AND THE RISK TO UNRELATED CRITICAL SYSTEMS (SUCH AS THE DATA HANDLER) DURING REPAIR AND RETEST. IT IS MY INTENT TO ACCEPT THE SYSTEM OPERATION AS IS. I WILL DISCUSS THE ISSUE IN DEPTH. IF DESIRED. AT YOUR COVENIENCE. REVW 03 FEB 04

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