

GMSR Report

November 1989



INFORMATION RESOURCES MANAGEMENT

NASA PERSONNEL/PAYROLL SYSTEM (NPPS) BUDGET SITUATION

STATUS

- DEVELOPMENT PROBLEMS HAVE CAUSED:
 - COST OVERRUN OF \$1.2M
 - SCHEDULE STRETCHOUT OF 8 MONTHS
- DEVELOPMENT OVERRUN
 - WILL BE FUNDED FROM NPPS MAINTENANCE FUNDS NO LONGER REQUIRED DUE TO SCHEDULE SLIP
 - HAS NOT IMPACTED OTHER AIM PROJECT FUNDING IN FY 1990

CONCERNS

- FUNDING LEVEL UNKNOWN FOR FY 1990
- CAPPS PROJECT REMAINS SUSPENDED
- FUNDING DELAYS/INTERVENTIONS CONTINUE TO SAP INORDINATE AMOUNTS OF ENERGY

PLANS

- CONTINUE IMPLEMENTATION OF JSC CORRECTIVE ACTION PLAN.
- EVALUATE AIM PROGRAM ASSESSMENT BOARD RECOMMENDATIONS

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NASA PERSONNEL/PAYROLL SYSTEM (NPPS) BUDGET SITUATION

	(DOLLARS IN THOUSANDS)						DEVELOPMENT
	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	CONVERSION TOTALS
ORIGINAL PLAN							
DEVELOPMENT	\$1,500	\$2,000	\$1,300	\$800			\$5,600
CENTER CONVERSION	Ψ.,505	\$2,000	\$1,200	\$1.200	_		\$2,400
MAINTENANCE	_	_		<u> </u>	\$1,000	\$1,000	92,400
CAPPS					4.,000	4 1,000	
DEVELOPMENT	_	_	_	_	\$1,000	\$1,000	\$2,000
							\$10,000
AMOUNTS RECEIVED	\$1,500	\$2,000	\$1,247	\$2,000	\$1,000 ²	\$1,000 ²	\$8,747 ³
CURRENT PLAN 4, 5							
NPPS							(\$300
DEVELOPMENT	\$1,400	\$1,700	\$747	\$2,064	\$679		\$6,590 APA
CENTER CONVERSION	_	\$300	_	\$522	\$1,000		\$1,822
MAINTENANCE CAPPS	_	_	-	_	\$321	\$1,400	_
DEVELOPMENT	\$100		\$300	\$300		e+ 000	64 700
DEVELOT MENT	\$100		\$300	\$300	_	\$1,000	\$1,700
							\$10,112

- 1 \$1,253 DIVERTED IN FY 88
- 3 SHORTFALL PROVIDED FROM CODE NT BUDGET
- 4 ACTUALS THROUGH FY 89
- 5 ASSUME \$679 DIVERTED IN FY 90 IS RECOVERED

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LOGISTICS AND SECURITY OFFICE

NRP AT KSC

BACKGROUND

- · ORIGINAL COST ESTIMATES FOR FY89 WERE UNDERESTIMATED:
 - SOME OF ORIGINAL COFF COSTS WERE CARRIED AS R&PM
 - UNABLE TO USE EXISTING EMERGENCY POWER SUBSTATION AS ORIGINALLY PLANNED
 - PRELIMINARY ENGINEERING REPORT (JUNE 9, 1989) REFLECTS INCREASED CCTV LIGHTING LEVEL REQUIREMENT
 - -- INSTALLATION OF FENCING, GUARD HOUSES AND PERIMETER LIGHTING FOR PAD "A" NOT IN BUDGET WRITE-UPS

CURRENT STATUS

- FY89 & FY90 COFF FUNDING (\$4.2M) APPEARS SUFFICIENT FOR PADS "A" & "B"
 HQ/KSC MEETING (SEPTEMBER 28, 1989) DESIGNATED PADS AS PRIORITY
- DESIGN PHASE OF IMPLEMENTATION PLAN FOR PADS STARTED OCTOBER 1989
- REMAINING PROJECTS IN JEOPARDY

CONCERNS

- REMAINING PROJECTS MUST BE DEFERRED.
- FUNDED PAD PROJECTS IN JEOPARDY FROM FY90 COFF BUDGET REDUCTIONS

PLANS

KSC HAS SUBMITTED A FY92 COFF PROJECT FOR BALANCE OF THE WORK

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INFORMATION RESOURCES MANAGEMENT

SPACE PHYSICS ANALYSIS NETWORK (SPAN) WORM INCIDENT

BACKGROUND ON SPAN

- CREATED IN 1981 FOR OPEN EXCHANGE OF SCIENTIFIC INFORMATION BY RESEARCHERS
- COMPOSED OF INTERNATIONAL NETWORK OF APPROXIMATELY 6,000 NODES SERVING APPROXIMATELY 100,000 USERS:
 - GOVERNMENT (APPROXIMATELY 600 NASA MANAGED)
 - PRIVATE INDUSTRY
 - UNIVERSITY
- CAN BE ACCESSED FROM ALMOST ANYWHERE IN WORLD USING A PERSONAL COMPUTER AND TELEPHONE

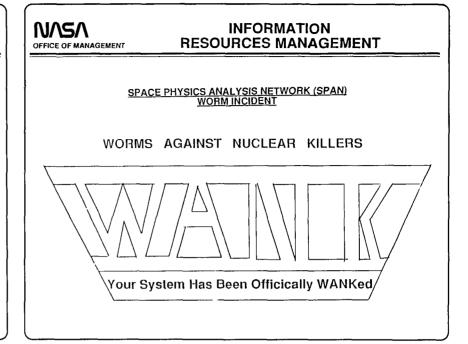


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SPACE PHYSICS ANALYSIS NETWORK (SPAN) WORM INCIDENT

DESCRIPTION OF ATTACK

- · ORIGIN TRACED TO FRANCE
- WORM CODE:
 - EXPLOITS POOR PASSWORD MANAGEMENT PRACTICES
 NASA VICTIMS FAILED TO FOLLOW PUBLISHED AGENCY POLICIES
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 AND PROCEDURES
 - CAUSES
 - DISRUPTION AND DENIAL OF SERVICE
 - EXPENDITURE OF RESOURCES TO TECHNICALLY DIAGNOSE
 - AND DISINFECT AFFECTED SYSTEMS
 - DISPLAY OF BANNER ON USER SCREENS
- TWO PHASED ATTACK
 - OCT 16 ATTACK AFFECTED APPROXIMATELY 90 NODES
 - OCT 29 ATTACK AFFECTED OVER 500 NODES
 - USED IMPROVED VERSION TO EXPLOIT ADDITIONAL PASSWORDS
- · ATTACK IS STILL ACTIVE



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SPACE PHYSICS ANALYSIS NETWORK (SPAN) WORM INCIDENT

EFFORTS TO REDUCE FUTURE RISK EXPOSURE

- INSTRUCTIONS BEING REISSUED TO ALL NODE MANAGERS TO STRENGTHEN PASSWORD MANAGEMENT PRACTICES
- SELECTED NETWORK NODES (NASA AND NON-NASA) WILL BE AUDITED TO ASSURE COMPLIANCE WITH PASSWORD MANAGEMENT INSTRUCTIONS
- · NASA/IG AND FBI ARE INVESTIGATING FOR PROSECUTION

HOWEVER

 OPEN INTERNATIONAL NETWORKS WILL ALWAYS HAVE A CERTAIN LEVEL OF VULNERABILITY

NASA

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AFFIRMATIVE ACTION PROGRESS REPORT FISCAL YEAR 1990

FY 1990-1992 COMMITMENT/TARGET

- . ESTABLISH OFFICE OF MANAGEMENT EQUALITY CIRCLE
- SEPERATE EQUAL OPPORTUNITY AND MULTI-CULTURAL EDUCATION PROGRAM TRAINING FOR ALL EMPLOYEES
- AVERAGE 1 PROFESSIONAL DEVELOPMENT TRAINING INCIDENT PER EMPLOYEE PER YEAR
- DEVELOP CAREER COMPETENCY DEVELOPMENT PROGRAM PILOT PROJECT
- MEET OR EXCEED 20% MINORITY MALE AND FEMALE PROFESSIONAL WORKFORCE (FTE, CO-OP, AND PMI) REPRESENTATION GOAL ESTABLISHED AS A RESULT OF THE MEAN AGREEMENT
- INCREASE NUMBER OF MINORITY FEMALE EMPLOYEES AT OR ABOVE GS-14 FROM 0 TO 3

ACTION PLAN/ TARGET/DATE

- FIRST MEETING SCHEDULED DECEMBER 5, 1989
- HAVE REQUESTED PROGRAM DEVELOPMENT DISCUSSIONS WITH CODE DP TO START BY EARLY DECEMBER 1989
- DEVELOP PROACTIVE CODE N STRATEGY FOR MINORITY RECRUITMENT BY JANUA 1Y 31, 1990