

PIONEER PROJECT											
FILE #	DRAWER #	ITEM	UFI #	SOURCE	REF #	REV.	DATE	KEY	SUBJECT	FROM	TO
12	1								EXPERIMENTS/EXPERIMENTERS/INSTRUMENTS		
				SBRC	3.4.1		27-Nov-68	RADIOMETER	PN F/G - TECH PROPOSAL - MEASURE NET THERMAL ENERGY FLUX & DETAILED THERMAL STRUCTURE OF JUPITER ATMOSPHERE		
				SBRC		1	26-May-69	RADIOMETER	PN F/G - MGMT PROPOSAL - MEASURE NET THERMAL ENERGY FLUX & DETAILED THERMAL STRUCTURE OF JUPITER ATMOSPHERE		
				SBRC			29-Sep-67	RADIOMETER	MARINER MARS '69 - INFRARED RADIOMETER- MONTHLY PROGRESS REPORT #9 15AUG-15SEP67		
				SBRC	3.4.1		27-Nov-68	RADIOMETER	PN F/G - MGMT PROPOSAL - MEASURE THE NET THERMAL ENERGY FLUX AND DETAILED THERMAL STRUCTURE OF JUPITER ATMOSPHERE		
				SBRC	NAS2-5607		14-Jan-70	RADIOMETER	PN F/G - INSTRUMENT DEV PLAN - FOR JUPITER PIONEER F/G		
				SBRC		1	26-May-69	RADIOMETER	PN F/G - TECH PROPOSAL - MEASURE NET THERMAL ENERGY FLUX & DETAILED THERMAL STRUCTURE OF JUPITER ATMOSPHERE		
							1968-1969	RADIOMETER	MISC - CORRESPONDENCE		
				ATC/USC	69-234		23-May-69	PHOTOMETER	PN F/G - TECH & MGMT - PROPOSAL FOR EXTREME UV FILTER (XUV) EXPERIMENT		
				ATC/USC	69-234		23-May-69	PHOTOMETER	PN F/G - BUS MGMT & COST - PROPOSAL FOR EXTREME UV FILTER (XUV) EXPERIMENT		
				ATC/USC	69-234		3-Jul-69	PHOTOMETER	PN F/G - SUPPLEMENT - PROPOSAL FOR EXTREME UV FILTER (XUV) EXPERIMENT		
				USC/PHYSICS			29-Nov-68	PHOTOMETER	PN F/G - PHOTOMETRIC MEASUREMENTS PROPOSAL (XUV) - JUDGE/CARLSON		
				ATC/USC	NAS2-5608		31-Dec-69	PHOTOMETER	PN F/G - PRELIM DESIGN REVIEW DATA PKG - USC/XUV FILTER PHOTOMETER INSTRUMENT		
				GEMSD/SSL	GE N-11031		Nov-68	SOBERMAN	PN F/G - MGMT PROPOSAL - METEOROID/ASTEROID ASTRONOMY - VOL II		
				GEMSD/SSL	GE N-11031		Nov-68	SOBERMAN	PN F/G - TECH PROPOSAL - METEOROID/ASTEROID ASTRONOMY VOL I		
				GEMSD/SSL	GE N-11031 (REV)		Jul-69	SOBERMAN	PN F/G - MGMT PROPOSAL - METEOROID/ASTEROID ASTRONOMY - VOL II		
				GEMSD/SSL	GE N-11031 (REV)		Jul-69	SOBERMAN	PN F/G - TECH PROPOSAL - METEOROID/ASTEROID ASTRONOMY VOL I		
					N-11263		18-Jan-71	SOBERMAN	PN F/G - COMBINED ZODIACAL MEASUREMENT FOR GRAND TOUR MISSIONS TO OUTER SOLAR SYSTEM		
							1968-1971	SOBERMAN	PN F/G - MISC		
							29-Mar-71	SOBERMAN	PN F/G - ASTEROID DETECTION FROM PN F/G		
				GESD/SSL	NAS2-6559		Jun-76	SOBERMAN	PN F/G - DATA ANALYSIS ASTEROID/METEOROID ASTRONOMY EXPERIMENT - FINAL REPORT		
				MMCCD	P75-48133-1		Feb-75	RADIOMETER	PV - TECHNICAL PROPOSAL - INFRARED RADIOMETER (ARC/LIR)		
				GESD/SSL			1NOV-30NOV74	SOBERMAN	PN F/G - DATA ANALYSIS - ASTEROID/METEOROID ASTRONOMY EXPERIMENT		
				GSFC			4-Sep-73	SISYPHUS CRITIQUE	PN 10 - ASTEROID/METEOROID RESULTS SISYPHUS CRITIQUE AUER/NORTHROP		
				U/AZ	OSC-79-040		31-Jan-79	PHOTOPOLARIMETER	PN 11 - PROPOSAL - IMAGING PHOTOPOLARIMETER EXPERIMENT PN 11 S/C MODES 3 & 4, SATURN MISSION		
				U/AZ			30-Aug-76	PHOTOPOLARIMETER	PN 11 - IMAGING EXPERIMENT OF JUPITER SWINDELL/FOUNTAIN		
				U/AZ	NAS2-7476		10-Jan-74	IMAGE CONVERTER	PN 10 - PIONEER IMAGE CONVERTER SYSTEM - FINAL REPORT		
				GSFC			Mar-73	PLANET ATMOSPHERES	POLARIZATION STUDIES OF PLANETARY ATMOSPHERES COFFEN/HANSEN		
				U/AZ	74019		17-Jul-74	JUPITER ATMOSPHERE	THE CONVECTIVELY UNSTABLE ATMOSPHERE OF JUPITER		
				U/AZ	NAS2-6265		15-Jun-74	PHOTOPOLARIMETER	PN 10 - IMAGING PHOTOPOLARIMETER EXPERIMENT MODES 3 & 4 GEHRELS		
							1973	PHOTOPOLARIMETER	IMAGING PHOTOPOLARIMETER - MISC		
				JPL				CELESTIAL MECHANICS	PN F/G - TECHNICAL PROPOSAL - CELESTIAL MECHANICS EXPERIMENT ANDERSON		
				JPL			17-Jan-69	S-BAND OCCULTATION	PN F/G - PROPOSAL S-BAND OCCULTATION EXPERIMENT		
				NASA/LRC			2-Dec-68	ASTEROID BELT	PN F/G - TECHNICAL & MGMT PROPOSALS FOR ASTEROID BELT METEOROID EXPERIMENT KINNARD		
				SBRC / DUDLEY			27-Nov-68	POLAR-PHOTO-IMAG	PN F/G - TECH PROPOSAL - POLARIMETRY, PHOTOMETRY AND IMAGING EXPERIMENT ASTEROID - JUPITER MISSIONS		
				SBRC / DUDLEY		1	29-May-69	POLAR-PHOTO-IMAG	PN F/G - TECH PROPOSAL - POLARIMETRY, PHOTOMETRY AND IMAGING EXPERIMENT ASTEROID - JUPITER MISSIONS		
				SBRC / DUDLEY			27-Nov-68	POLAR-PHOTO-IMAG	PN F/G - MGMT PROPOSAL - POLARIMETRY, PHOTOMETRY AND IMAGING EXPERIMENT ASTEROID - JUPITER MISSIONS		
				SBRC / DUDLEY		1	29-May-69	POLAR-PHOTO-IMAG	PN F/G - MGMT PROPOSAL - POLARIMETRY, PHOTOMETRY AND IMAGING EXPERIMENT ASTEROID - JUPITER MISSIONS		
				SBRC/DUDLEY			27-Nov-68	POLAR-PHOTO-IMAG	PN F/G - APPENDICES - POLARIMETER, PHOTOMETRY AND IMAGING EXPERIMENT		
				U/AZ			12-Dec-72	PHOTOPOLARIMETER	PN F/G (10/11) PROPOSAL FOR ACQUISITION, DISPLAY AND ANALYSIS OF SCIENTIFIC DATA MODES 3& 4 IMAGING POLARIMETER EXPERIMENT		
				SBRC			1-Oct-71	PHOTOPOLARIMETER	PN F/G IMAGING PHOTOPOLARIMETER INSTRUMENT - DETAILED INSTRUMENT DESCRIPTION		

12	1		SBRC			10-Aug-73	PHOTOPOLARIMETER	PN F/G IMAGING PHOTOPOLARIMETER INSTRUMENT - FINAL TECHNICAL REPORT	
12	2							EXPERIMENTS/EXPERIMENTERS/INSTRUMENTS	
12	2		U/AZ	NAS2-6265		20-Sep-71	PHOTOPOLARIMETER	PN F/G - IMAGING PHOTOPOLARIMETER TASK 3.9 SCI DATA COMMAND AND CONTROL PLANNING, MODE 3 INTERPLANETARY PHASE	
12	2		DUDLEY	NAG-676		1JUN-31OCT68	NIGHTGLOW	A PHOTOELECTRIC STUDY OF THE NIGHTGLOW - FINAL REPORT WEINBERG	
12	2		SBRC/DUDLEY				POLAR-PHOTO-IMAG	PN F/G - TECH PROPOSAL, SUPPLEMENTAL - POLARIMETRY, PHOTOMETREY AND IMAGING EXPERIMENT ASTEROID - JUPITER MISSIONS	
12	2		U/TX-DALLAS	NAS2-8802		12MAY-31AUG78	NMS	PV - LARGE PROBE NMS - FINAL REPORT HOFFMAN	
12	2		USC/PHYSICS			8-Aug-75	ROCKET INSTRUMENT	ROCKET INSTRUMENT FOR MEASUREMENT OF THE SOLAR LINEWIDTH EXPERIMENT MALOY, CARLSON,HARTMANN, JUDGE	
12	2		U/IA			Aug-74	GEIGER TUBE TELESCOPE	PN F/G - FINAL TECH REPORT - GEIGER TUBE TELESCOPE EXPERIMENT	
12	2		U/IA			May-70	GEIGER TUBE TELESCOPE	PN F/G - GEIGER TUBE TELESCOPE EXPERIMENT	
12	2		U/IA			Sep-69	GEIGER TUBE TELESCOPE	PN F/G - INSTRUMENT DEVELOPMENT PLAN	
12	2		U/IA	NAS2-5603		13-Mar-72	GTT/SSD	PN G - SCIENTIFIC OBJECTIVES, DESIGN & QUALIFICATION TESTING OF GTT/SSD	
12	2		U/IA	NAS2-5603		Oct-69	GEIGER TUBE TELESCOPE	PN F/G - PERFORMANCE ASSURANCE PLAN GEIGER TUBE TELESCOPE EXPERIMENT	
12	2		U/IA			26-Nov-68	CHARGED PARTICLE EXP	PN F/G - SCIENTIFIC & TECH PROPOSAL ENERGETIC CHARGED PARTICLE EXP FOR ASTEROID/JUPITER MISSIONS	
12	2		U/IA			26-Nov-68	CHARGED PARTICLE EXP	PN F/G - MANAGEMENT PROPOSAL ENERGETIC CHARGED PARTICLE EXP FOR ASTEROID/JUPITER MISSIONS	
12	2		U/IA		1	19-Sep-69	CHARGED PARTICLE EXP	PN F/G - SCIENTIFIC & TECH PROPOSAL ENERGETIC CHARGED PARTICLE EXP FOR ASTEROID/JUPITER MISSIONS	
12	2		U/IA		1	21-May-69	CHARGED PARTICLE EXP	PN F/G - MANAGEMENT PROPOSAL ENERGETIC CHARGED PARTICLE EXP FOR ASTEROID/JUPITER MISSIONS	
12	2		U/CHI			26-Nov-68	CHARGED PARTICLE EXP	PN F/G - TECH PROPOSAL - CP EXPERIMENTS GALACTIC PROBES	
12	2		U/CHI			25-Nov-86	CHARGED PARTICLE EXP	PN F/G - MGMT PROPOSAL - CP EXPERIMENTS GALACTIC PROBES	
12	2		U/CHI			24-Feb-69	CHARGED PARTICLE EXP	PN F/G - SUPPLEMENTAL PROPOSAL - CP EXPERIMENTS GALACTIC PROBES	
12	2		U/CHI			28-Apr-69	CHARGED PARTICLE EXP	PN F/G - INSTRUMENT CHARACTERISTICS FOR EXPERIMENT	
12	2		U/CHI			14-May-69	CHARGED PARTICLE EXP	PN F/G - REVISED PROPOSAL - CPE	
12	2		U/CHI	NAS2-5601		13-Oct-69	CHARGED PARTICLE INSTRUMENT	PN 10/11 - FINAL TECH REPORT - DESIGN, DEVELOPMENT, FABRICATION TEST AND LAUNCH OF CP INSTRUMENT	
12	2		STANFORD			Dec-75	ORPA	PV - ORPA	
12	2		JPL	616-48		1-Nov-73	MAGNETIC FIELD EXP	PIONEER - JUPITER MAGNETIC FIELD INVESTIGATION SMITH	
12	2		JPL			23-Dec-68	MAGNETIC FIELD EXP	PN F/G - TECH PROPOSAL - MAGNETIC FIELD EXPERIMENT	
12	2		JPL			23-Dec-68	MAGNETIC FIELD EXP	PN F/G - MGMT PROPOSAL - MAGNETIC FIELD EXPERIMENT	
12	2		JPL			23-Dec-68	MAGNETIC FIELD EXP	PN F/G - MGMT PROPOSAL- REVISED - MAGNETIC FIELD EXPERIMENT	
12	2		NASA/ARC			25-Nov-68	PLASMA & LOW ENERGY PARTICLES	PN F/G - MGMT PROPOSAL INVESTIGATION OF PLASMA AND LOW ENERGY PARTICLE CHARACTERISTICS IN THE INTERPLANETARY MEDIUM BETWEEN 1 AU AND 5 AU IN THE VICINITY OF JUPITER	
12	2		U/IA			18-Nov-68	PLASMA & LOW ENERGY PARTICLES	PN F/G - MGMT PROPOSAL INVESTIGATION OF PLASMA AND LOW ENERGY PARTICLE CHARACTERISTICS IN THE INTERPLANETARY MEDIUM BETWEEN 1 AU AND 5 AU IN THE VICINITY OF JUPITER	
12	2		NASA/ARC				PLASMA & LOW ENERGY PARTICLES	PN F/G - TECH PROPOSAL INVESTIGATION OF PLASMA AND LOW ENERGY PARTICLE CHARACTERISTICS IN THE INTERPLANETARY MEDIUM BETWEEN 1 AU AND 5 AU IN THE VICINITY OF JUPITER	
12	2					9-May-69	TECH OBJECTIVES	WOLFE PRESENTATION - PLASMA	
12	2								
12	2						PUBLICATIONS	PN 10/11 - PUBLICATIONS BY VAN ALLEN, JA - PESSES, ME - GOERTZ, CK - THOMPSON, MF - BAKER, DN - FRANK, LA - WOLFE, JH - ACKERSON, KL - MIHALOV, JD - SENTMAN, DD - NORTHRUP, TG - BIRMINGHAM, TJ - RANDALL, RF - FLINDT, HR - AND OTHERS	
12	2		GSFC/U/NH		1	Feb-69	COSMIC RAY DETECTOR SYS	PN F/G - MGMT PROPOSAL COSMIC RAY DETECTOR SYSTEM	
12	2		GSFC/U/NH		1	Feb-69	COSMIC RAY DETECTOR SYS	PN F/G - TECH PROPOSAL - COSMIC RAY DETECTOR SYSTEM	
12	2		GSFC/U/NH		2	Jun-69	COSMIC RAY DETECTOR SYS	PN F/G - TECH PROPOSAL - COSMIC RAY DETECTOR SYSTEM	
12	2		GSFC/U/NH		1	Jul-69	COSMIC RAY DETECTOR SYS	PN F/G - MGMT PROPOSAL COSMIC RAY DETECTOR SYSTEM	
12	2		UCSD	UCSD 2851-1		12-Jun-69	TRAPPED RADIATION EXP	PN F/G - MGMT PROPOSAL - TRAPPED RADIATION EXPERIMENT	
12	2		UCSD	UCSD 2851-1		12-Jun-69	TRAPPED RADIATION EXP	PN F/G - TECH PROPOSAL - TRAPPED RADIATION EXPERIMENT	
12	2		UCSD	NAS2-5602		14-Feb-75	TRAPPED RADIATION	PN F/G - TRAPPED RADIATION - FINAL TECH REPORT	
12	2		UCSD			3-Feb-69	TRAPPED RADIATION EXP	PN F/G - REVISED PROPOSAL - TRAPPED RADIATION EXPERIMENT	
12	2		LMSC	NAS2-8811		Oct-77	ORPA	PV - DETAILED INSTRUMENT DESCRIPTION OF ORBITING RETARDING POTENTIAL ANALYSER	

12	2		PARL	NAS2-8811		Jun-78	RPA	PV - DESIGN AND DEVELOPMENT OF RETARDING POTENTIAL ANALYSER FINAL REPORT, VOL I & II		
12	2		PARL	NAS2-8811		Jun-78	RPA			
12	2		HAC	NAS2-8801		Dec-77	ORAD	PV - ORBITER RADAR MAPPER (ORAD) USER'S MANUAL		
12	2		ERI/MI	118900-1-F		Jun-76	RADAR MAPPER	PV - RADAR MAPPER TECHNICAL CONSULTATION - FINAL REPORT		
12	2		HAC			1977	RADAR MAPPER	PV - RADAR MAPPER - DWGS, TEST SPECS, SPEC CHANGE NOTICES		
12	2		NASA/ARC			1989-1992	ORBITER RADIO OCCULTATION	PV - RADIO OCCULTATION - CORRESPONDENCE, MISC - KLIORÉ		
12	2		NASA/ARC			1988-1990	ORPA	PV - ORBITER RETARDING POTENTIAL ANALYSER - CORRESPONDENCE, MISC - KNUDSEN		
12	2		NASA/ARC			1990-1993	OUVS	PV - ORBITER ULTRAVIOLET SPECTROMETER - CORRESPONDENCE, MISC - STEWART		
12	2		NASA/ARC			1988-1991	NAVIGATION MEETING	PN PROJECT NAVIGATION MEETING - CORRESPONDENCE AND MISC		
12	2		NASA/ARC			1989-1991	OMOP	PV - ORBITER MISSION OPERATIONS PLANNING COMMITTEE - CORRESPONDENCE AND MISC		
12	2		NASA/ARC			1989	INSTRUMENT OPERATION	PV - OPERATIONS OF INSTRUMENTS - CORRESPONDENCE AND MISC		
12	2		NASA/ARC			1990-1993	OAD	PV - ORBITER ATMOSPHERIC DRAG - CORRESPONDENCE AND MISC - KEATING		
12	2		NASA/ARC			1988-1993	OCPP	PV - ORBITER CLOUD PHOTOPOLARIMETER - CORRESPONDENCE AND MISC - TRAVIS		
12	2		NASA/ARC			1991-1993	OEFD	PV - ORBITER ELECTRON FIELD DETECTOR - CORRESPONDENCE AND MISC - STRANGEMAN		
12	2		NASA/ARC			1988-1993	OETP	PV - ORBITER RETP - CORRESPONDENCE AND MISC - BRACE		
								PV - ORBITER GAMMA RAY BURST DETECTOR - CORRESPONDENCE AND MISC - KLEBESADEL		
12	2		NASA/ARC			1989-1992	OGBD			
12	2		NASA/ARC			1987-1993	OMAG	PV - ORBITER MAGNETOMETER - CORRESPONDENCE AND MISC - RUSSELL		
12	2		NASA/ARC			1988-1990	ORAD	PV - ORBITER RADAR MAPPER - CORRESPONDENCE AND MISC - PETTINGILL		
12	2		NASA/ARC			1988-1993	ONMS	PV - ORBITER NEUTRAL MASS SPECTROMETER - CORRESPONDENCE AND MISC - NIEMAN		
								PV - ORBITER PLASMA ANALYSER - CORRESPONDENCE AND MISC - BARNES & INTRILLIGATOR		
12	2		NASA/ARC			1990-1993	OPA	PV - ORBITER ION MASS SPECTROMETER - CORRESPONDENCE AND MISC - CLOUTIER (TAYLOR)		
12	2		NASA/ARC			1988-1992	IDS	PV - IDS - CORRESPONDENCE AND MISC - DONAHUE		
12	2		NASA/ARC			1989-1990	IDS	PV - IDS - CORRESPONDENCE AND MISC - HUNTEN		
12	2		NASA/ARC			1988	IDS	PV - IDS - CORRESPONDENCE AND MISC - MASURSKY		
12	2		NASA/ARC			1989-1994	IDS	PV - IDS - CORRESPONDENCE AND MISC - NAGY		
12	3							PIONEER VENUS - ASSORTED DATA		
12	3		HAC	HS507-1053	1	Oct-74	PV PROGRAM DEV PLAN	PV PROGRAM DEVELOPMENT PLAN		
12	3		NASA/ARC			1977	ORGEOM SUPPORT	ORGEOM SUPPORT		
								PV - S/C SYS - COST PROPOSAL - CHANGE PROPOSAL 2 - DIRECTED CHANGES TO PV S/C SYS		
12	3		HAC	HS507-0082-387		15-Apr-75	S/C SYS-COST PROPOSAL			
								13AUG76PV - OPERATIONAL CHARACTERISTICS DOCUMENTS / TECH & BUSINESS MGMT & COST PROPOSAL		
12	3		HAC	RFP 2-26048(JC)			OPERATIONAL CHARACTERISTICS			
								PV - S/C SYS - COST PROPOSAL - CHANGE PROPOSAL 5 - DIRECTED CHANGES TO PV S/C SYS HEATING RATE EXPERIMENT		
12	3		HAC	HS507-0082/733		19-Sep-75	S/C SYSTEM			
12	3		SOS	HS507-1850-42		9-Jun-77	PIN PULLER	PV - PIN PULLER P/N 33850559-100 - QUALIFICATION TEST REPORT		
12	3		NASA/ARC			1976-1977	EGSE - MLTPRB/ORB	PV - MULTIPROBE/ORBITER COMMENTS ON EGSE SPECS 450, 451, 452		
12	3		NASA/ARC			1978-1979	CONTRACT S/C	PV - S/C CONTRACT MODIFICATIONS OR CHANGES		
12	3		NASA/ARC			1979	NAS2-8300	PV - NAS2-8300 - COST AND FEES - CORRESPONDENCE		
12	3						OREGOM VAX & MICROVAX	ORGEOM VAX & MICROVAX USERS GUIDE 1 OF 2		
12	3						OREGOM VAX & MICROVAX	ORGEOM VAX & MICROVAX USERS GUIDE 2 OF 2		
12	3		NASA/ARC			1978-1979	ORB DESPUN ANTENNA	PV - ORBITER DESPUN ANTENNA IN-FLIGHT CALIBRATIONS		
12	3		NASA/ARC			16-Aug-76	DIRECTORS REVIEW	PV - DIRECTORS REVIEW VU-GRAPHS		
12	3		NASA/ARC			1974-1976	NAS2-8300	PV - NAS2-8300 CONTRACTOR CORRESPONDENCE		
12	3		NASA/ARC			1974-1976	NAS2-8300	PV - NAS2-8300 CONTRACTOR FIN. MGMT. REPORTS		
12	3		NASA/ARC			1974	CONTRACT & MODS	PV - AWARD OF CONTRACT & MODIFICATIONS		
12	4							PIONEER VENUS - ASSORTED DATA		
12	4		GE/TSE	9154-TDM-74-023		14-Dec-74	FREE FLIGHT	PV - HYPERVELOCITY FREE FLIGHT RANGE TESTS		
12	4		HAC				PV DWGS	PV - DRAWINGS (LARGE PROBE, S/C, FITTING TEE, RESISTOR, RESERVOIR ASSY)		
12	4		HAC	HS507-5163		Jun-76	MLTPRB/ORB DATA	PV - MULTIPROBE/ORBITER DATA BOOK		
12	4		GE/TSE	9154-TDM-74-022		24-Mar-75	BALLASTICS	PV - PRESSURIZED BALLASTIC RANGE TESTS		
12	4		GE/TSE	9154-TDM-74-015		16-Aug-74	SMALL PROBE	PV - SMALLPROBE SUBSONIC STABILITY TESTS		
12	4		NASA/ARC				OCCULTATION RECORDS	PV - OCCULTATION RECORDS - ORBITS 243 - 456		
12	4		NASA/ARC				OCCULTATION RECORDS	PV - OCCULTATION RECORDS - ORBITS 1 - 242		
12	4		NASA/ARC			5JUL-12DEC?	FLT OPS / MLTPRB	PV - MULTIPROBE JOURNAL - FLIGHT OPS RECORD		
12	4		NASA/ARC			30-Apr-81	DRPS & QDRPS	PV - ATTITUDE LOG FOR DRPS & QDRPS		

12	4		NASA/ARC		1980-1981	ATTITUDE ORB	PV - ORBITER ATTITUDE LOG - DRPS		
12	4		NASA/ARC		1981	ORBIT PREDICTION	PV - ORBIT PREDICTION UPDATE		
12	4		HAC	HS507-0082-388	15-Apr-75	JACKET	PV - S/C SYS - COST PROPOSAL - CHANGE PROPOSAL 3 - DIRECTED CHANGES		
12	4		NASA/ARC		1979-1991	JACKET	PVO - ORGEO		
12	4		NASA/ARC		1978	JACKET	PV - DESPUN ANTENNA POINTING LOG		
12	4		NASA/ARC		26-Jun-76	JACKET	PV - QUARTERLY REVIEW - VU-GRAPHS		
12	4		NASA/ARC		1976-1977	JACKET	NAS2-8817 - CORRESPONDENCE		
12	4		HAC	HS507-0082-148	16-Aug-74	S/C SYS - COST	PV S/C SYS - COST PROPOSAL FOR NASA DIRECTED CHANGES YO PV S/C SYS		