

VLBA CC Memo No. 4

BBB16
30913.16

LBA COST ESTIMATE SUMMARY (ACCOUNTS 13400-13450)

	1984			1985			1986			1987			1988			ALL YRS		
	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT
D. ANT. STARTS				3			4			3								
ITES	0	100	100	0	2300	2300	0	2150	2150	0	1150	1150	0	0	0	0	5700	5700
ANTENNAS	165	785	950	230	8870	9100	260	5440	5700	280	1220	1500	200	0	200	1135	16315	17450
ELECTRONICS	200	289	489	710	3134	3844	709	2470	3179	697	1755	2452	380	348	728	2696	7996	10692
DATA RECORDING	200	95	295	94	288	382	282	964	1246	94	638	732	0	0	0	670	1985	2655
MONITOR, CONTROL	120	45	165	220	300	520	255	325	580	255	250	505	200	20	220	1050	940	1990
PROCESSOR	250	40	290	315	730	1045	290	1032	1322	290	598	888	75	0	75	1220	2400	3620
DST PROCESSING	0	0	0	90	100	190	135	1100	1235	175	1450	1625	50	0	50	450	2650	3100
DISC. SYSTEMS	0	0	0	25	50	75	25	1225	1250	25	1300	1325	25	25	50	100	2600	2700
PROJECT MAN.	75	60	135	350	160	510	350	160	510	350	160	510	275	85	360	1400	625	2025
TOTAL	1010	1414		2034	15932		2306	14866		2166	8521		1205	478		8721	41211	
TOTAL FOR YEAR			2424			17966			17172			10687			1683			49932
CONTINGENCY			76			134			528			5613			-1683			4668
PERCENT CONT.																		9.3
EXPECTED FUNDING			2500			18100			17700			16300			0			54600

ITES **PM 11000 SERIES**

	1984			1985			1986			1987			1988			ALL YRS		
	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT
CENTRAL SITE	0	50	50	0	1150	1150	0	600	600	0	0	0	0	0	0	0	1800	1800
ANTENNA SITES	0	50	50	0	1150	1150	0	1550	1550	0	1150	1150	0	0	0	0	3900	3900
ISC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	100		0	2300		0	2150		0	1150		0	0		0	5700	
TOTAL FOR YEAR			100			2300			2150			1150			0			5700

ANTENNAS

PN 12000 SERIES

	1984			1985			1986			1987			1988			ALL YRS		
	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT
ANTENNA STRUCTURE	0	0	0	0	6000	6000	0	1910	1910	0	490	490	0	0	0	0	8400	8400
DESIGN	165	785	950	140	0	140	0	0	0	0	0	0	0	0	0	305	785	1090
SERVO	0	0	0	0	480	480	0	520	520	0	110	110	0	0	0	0	1110	1110
MECHANICAL	0	0	0	0	650	650	0	680	680	0	140	140	0	0	0	0	1470	1470
AUX. EQUIPMENT	0	0	0	0	425	425	0	380	380	0	105	105	0	0	0	0	910	910
MISC.	0	0	0	90	1315	1405	260	1950	2210	280	375	655	200	0	200	830	3640	4470
TOTAL	165	785		230	8870		260	5440		280	1220		200	0		1135	16315	
TOTAL FOR YEAR			950			9100			5700			1500		200				17450

ELECTRONICS

PN 13000 SERIES

	1984			1985			1986			1987			1988			ALL YRS		
	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT
FEEDS	70	119	189	150	514	664	110	466	576	150	68	218	64	40	104	544	1207	1751
FRONT ENDS	90	110	200	400	1500	1900	439	859	1298	400	385	785	272	108	380	1601	2962	4563
SEC LO, PHASE CAL	40	50	90	110	370	480	136	295	431	123	102	225	20	0	20	429	817	1246
FREQ. STANDARD	0	10	10	50	750	800	24	750	774	24	1000	1024	24	0	24	122	2510	2632
WATER VAPOR RX			0			0		100	100		200	200		200	200	0	500	500
MISC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	200	289		710	3134		709	2470		697	1755		380	348		2696	7996	
TOTAL FOR YEAR			489			3844			3179			2452		728				10692

DATA RECORDING

PN 14000 SERIES

	1984			1985			1986			1987			1988			ALL YRS		
	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT
ELECTRONICS	100	60	160	80	170	250	240	510	750	80	170	250	0	0	0	500	910	1410
RECORDERS	100	35	135	14	118	132	42	354	396	14	118	132	0	0	0	170	625	795
MISC.	0	0	0	0	0	0	0	100	100	0	350	350	0		0	0	450	450
TOTAL	200	95		94	288		282	964		94	638		0	0		670	1985	
TOTAL FOR YEAR			295			382			1246			732		0				2655

MONITOR AND CONTROL

PN 15000 SERIES

	1984			1985			1986			1987			1988			ALL YRS		
	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT
CENTRAL COMPUTER	0	0	0	0	150	150	0	80	80	0	0	0	0	0	0	0	230	230
ANTENNA COMPUTERS	0	20	20	0	50	50	0	100	100	0	80	80	0	0	0	0	250	250
ANTENNA ELECTRONICS	75	25	100	130	65	195	75	45	120	75	45	120	75	20	95	430	200	630
COMMUNICATIONS	0	0	0	0	35	35	0	50	50	0	75	75	0	0	0	0	160	160
SOFTWARE	45	0	45	90	0	90	180	50	230	180	50	230	125	0	125	620	100	720
MISC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	120	45		220	300		255	325		255	250		200	20		1050	940	
TOTAL FOR YEAR			165			520			580			505		220				1990

PROCESSOR

PN 16000 SERIES

	1984			1985			1986			1987			1988			ALL YRS		
	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT
DESIGN, PROTOTYPE	250	40	290	170	40	210	0	0	0	0	0	0	0	0	0	420	80	500
STATION ELECTRONICS	0	0	0	50	125	175	50	200	250	50	150	200	0	0	0	150	475	625
CORRELATOR ELECTRONICS	0	0	0	30	175	205	30	200	230	30	178	208	15	0	15	105	553	658
BACK RECORDERS	0	0	0	0	130	130	0	270	270	0	270	270	0	0	0	0	670	670
CONTROL COMPUTER	0	0	0	15	250	265	15	222	237	0	0	0	0	0	0	30	472	502
SOFTWARE	0	0	0	50	10	60	115	10	125	130	0	130	30	0	30	325	20	345
MISC.	0	0	0	0	0	0	80	130	210	80	0	80	30	0	30	190	130	320
TOTAL	250	40		315	730		290	1032		290	598		75	0		1220	2400	
TOTAL FOR YEAR			290			1045			1322			888		75				3620

POST PROCESSING

PN 17000 SERIES

	1984			1985			1986			1987			1988			ALL YRS		
	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT
HARDWARE	0	0	0	0	100	100	0	1100	1100	0	1450	1450	0	0	0	0	2650	2650
SOFTWARE	0	0	0	90	0	90	135	0	135	175	0	175	50	0	50	450	0	450
MISC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0		90	100		135	1100		175	1450		50	0		450	2650	
TOTAL FOR YEAR			0			190			1235			1625		50		50		3100

MISC. AND SPARES

PN 18000 SERIES

	1984			1985			1986			1987			1988			ALL YRS		
	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT
SPARES	0	0	0	25	25	50	0	1200	1200	0	1275	1275	0	0	0	0	2500	2500
MISC.	0	0	0	25	25	50	25	25	50	25	25	50	25	25	50	100	100	200
TOTAL	0	0	0	25	50	75	25	1225	1250	25	1300	1325	25	25	50	100	2600	2700
TOTAL FOR YEAR			0			75			1250			1325			50			2700

PROJECT MANAGEMENT

PN 19000 SERIES

	1984			1985			1986			1987			1988			ALL YRS		
	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT	LBR	MAT	TOT
PROJECT OFFICE	75	25	100	350	100	450	350	100	450	350	100	450	275	50	325	1400	375	1775
TRAVEL	0	25	25	0	50	50	0	50	50	0	50	50	0	25	25	0	200	200
MISC.	0	10	10	0	10	10	0	10	10	0	10	10	0	10	10	0	50	50
TOTAL	75	60	135	350	160	510	350	160	510	350	160	510	275	85	360	1400	625	2025
TOTAL FOR YEAR			135			510			510			510			360			2025