

National Radio Astronomy Observatory  
12 Meter Resurfacing  
June 30, 1982

12 METER MILLIMETER WAVE TELESCOPE

MEMO No. 179

<u>Description</u>	<u>1982 Allocated</u>	<u>June Expended</u>	<u>Expended Year to Date</u>	<u>Unexpended Balance</u>	<u>Commitments</u>	<u>Uncommitted Balance</u>
<u>Backup Structure</u>						
2.911.1 Design & Drafting	1,000	6	43	957	-	957
2.911.2 Material & Fabrication	74,000	-	73,900	100	59	41
2.911.3 Miscellaneous	4,000	-	-	4,000	-	4,000
Sub-Total	79,000	6	73,943	5,057	59	4,998
<u>Green Bank Assembly</u>						
2.912.1 Reflector Support	4,000	55	3,942	58	-	58
2.912.2 Panel Mounting Hardware	1,000	105	802	198	-	198
2.912.3 Miscellaneous	2,000	19	1,660	340	95	245
2.912.4 Shipping to Tucson	16,000	-	-	16,000	-	16,000
Sub-Total	23,000	179	6,404	16,596	95	16,501
<u>Surface Panels</u>						
2.913.1 Panel Material & Fabrication	166,000	-	165,824	176	-	176
2.913.2 Reference Jig	9,500	313	9,627	(127)	215	(342)
2.913.3 Measuring Template	5,300	79	1,892	3,408	-	3,408
2.913.4 Data System	1,500	-	158	1,342	-	1,342
2.913.5 Miscellaneous	2,000	1	1,317	683	-	683
2.913.6 Shipping	10,000	-	1,593	8,407	-	8,407
Sub-Total	194,300	393	180,411	13,889	215	13,674
<u>Site Installation</u>						
2.914.1 B.U.S. Assembly	6,000	-	-	6,000	-	6,000
2.914.2 Equipment Rental	23,000	-	-	23,000	-	23,000
2.914.3 Remove & Modify Existing Structure	25,000	-	634	24,366	-	24,366
2.914.4 Install New Reflector	10,000	-	-	10,000	-	10,000
2.914.5 Install Panels	8,000	-	-	8,000	-	8,000
2.914.6 Adjust Panels	3,000	-	-	3,000	-	3,000
2.914.7 Recabling, Repainting, etc.	8,000	-	-	8,000	935	7,065
2.914.8 Holographic Measure	25,000	-	-	25,000	-	25,000
2.914.9 Miscellaneous	10,000	-	-	10,000	-	10,000
Sub-Total	118,000	-	634	117,366	935	116,431
<u>Contingency</u>						
Miscellaneous	64,655	-	-	64,655	-	64,655
Sub-Total	64,655	-	-	64,655	-	64,655
<u>Total Budgeted</u>	<u>478,955</u>	<u>578</u>	<u>261,392</u>	<u>217,563</u>	<u>1,304</u>	<u>216,259</u>

<u>Description</u>	<u>1982 Allocated</u>	<u>June Expended</u>	<u>Expended Year to Date</u>	<u>Unexpended Balance</u>	<u>Commitments</u>	<u>Uncommitted Balance</u>
<u>Labor</u>						
2.911.0 Backup Structure	-	-	-	-	-	-
2.912.0 Green Bank Assembly	-	4,086	9,044	-	-	-
2.913.0 Surface Panels	-	-	5,302	-	-	-
2.914.0 Site Installation	-	-	-	-	-	-
Total	-	4,086	14,346	-	-	-