

## 12 METER MILLIMETER WAVE TELESCOPE

MEMO No. 199

## National Radio Astronomy Observatory

12141/12141

12 Meter Resurfacing Project  
As of October 31, 1982

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<u>Description</u>	<u>Project Allocation</u>	<u>Commitments Made This Month</u>	<u>Total Expended &amp; Committed</u>	<u>Free Balance</u>
<u>Backup Structure</u>				
2.911.1 Design & Drafting	10,776		9,819	957
2.911.2 Material & Fabrication	74,000		73,960	40
2.911.3 Miscellaneous	4,000		875	3,125
Sub-Total	88,776		84,654	4,122
<u>Green Bank Assembly</u>				
2.912.1 Reflector Support	5,515		5,457	58
2.912.2 Panel Mounting Hardware	1,000		1,003	(3)
2.912.3 Miscellaneous	2,047		2,837	(790)
2.912.4 Shipping to Tucson	16,000		13,104	2,896
Sub-Total	24,562		22,401	2,161
<u>Surface Panels</u>				
2.913.1 Panel Material & Fabrication	166,000		165,824	176
2.913.2 Reference Jig	9,995		10,552	(557)
2.913.3 Measuring Template	9,985		6,969	3,016
2.913.4 Data System	5,080		2,075	3,005
2.913.5 Miscellaneous	2,947		2,324	623
2.913.6 Shipping	10,000		8,388	1,612
Sub-Total	204,007		196,132	7,875
<u>Site Installation</u>				
2.914.1 B.U.S. Assembly	6,000		6,075	(75)
2.914.2 Equipment Rental	23,000		4,459	18,541
2.914.3 Remove & Modify Existing Stru.	25,000		22,625	2,375
2.914.4 Install New Reflector	10,000		2,918	7,082
2.914.5 Install Panels	8,000		9,842	(1,842)
2.914.6 Adjust Panels	3,000		1,765	1,235
2.914.7 Recabling, Repainting, etc.	8,000		7,492	508
2.914.8 Holographic Measure	25,000	424	18,415	6,585
2.914.9 Miscellaneous	10,000		256	9,744
Sub-Total	118,000	424	73,847	44,153
Contingency	64,655			64,655
Total Project Budget	500,000	424	377,034	122,966
Less:				
Transferred to Capital in 1981	2,650			2,650
Statement Balance	497,350		377,034	120,316
Original Cost Estimate	450,000			
Contingency	14,655			

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Commitments Made Month of October 1982

<u>Date</u>	<u>Vendor</u>	<u>Project Number</u>	<u>Amount</u>	<u>Purchase Order No.</u>
10/12/82	Powell Electronics	2.914.8	110.84	G08944
10/22/82	Merrimac Industries	2.914.8	235.00	G08955
10/21/82	Burr Brown	2.914.8	77.82	G08967
Total			<u>423.66</u>	

Labor

<u>Project No.</u>	<u>Description</u>	<u>Amount</u>
2.912.0	Back-up Structure	13,014
2.913.0	Surface Panels	5,302
2.914.0	Site Installation	4,243
Total		<u>22,559</u>

Travel

2.911.1	Miscellaneous	875
2.912.3	Miscellaneous	982
2.914.1	B.U.S. Assembly	5,106
2.914.5	Install Panels	1,476
2.914.6	Adjust Panels	854
Total		<u>9,293</u>