

12 METER MILLIMETER WAVE TELESCOPE

National Radio Astronomy Observatory

MEMO No. 191

12141/13141

12 Meter Resurfacing Project
As of August 31, 1982

<u>Description</u>	<u>Project Allocation</u>	<u>Commitments Made This Month</u>	<u>Total Expended & 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		73,959	41
2.911.3 Miscellaneous	4,000			4,000
Sub-Total	88,776		83,778	4,998
<u>Green Bank Assembly</u>				
2.912.1 Reflector Support	5,515		5,457	58
2.912.2 Panel Mounting Hardware	1,000		983	17
2.912.3 Miscellaneous	2,047		1,950	97
2.912.4 Shipping to Tucson	16,000		13,104	2,896
Sub-Total	24,562		21,494	3,068
<u>Surface Panels</u>				
2.913.1 Panel Material & Fabrication	166,000		165,824	176
2.913.2 Reference Jig	9,995		10,568	(573)
2.913.3 Measuring Template	9,985		6,798	3,187
2.913.4 Data System	5,080		1,361	3,719
2.913.5 Miscellaneous	2,947		2,324	623
2.913.6 Shipping	10,000		8,145	1,855
Sub-Total	204,007		195,020	8,987
<u>Site Installation</u>				
2.914.1 B.U.S. Assembly	6,000		628	5,372
2.914.2 Equipment Rental	23,000	8,978	8,978	14,022
2.914.3 Remove and Modify Existing Stru.	25,000		11,350	13,650
2.914.4 Install New Reflector	10,000			10,000
2.914.5 Install Panels	8,000	2,227	2,727	5,273
2.914.6 Adjust Panels	3,000			3,000
2.914.7 Recabling, Repainting, etc.	8,000	3,093	4,078	3,922
2.914.8 Holographic Measure	25,000	14,439	15,342	9,658
2.914.9 Miscellaneous	10,000			10,000
Sub-Total	118,000	28,737	43,103	74,897
Contingency	64,655			64,655
Total Project Budget	500,000	28,737	343,395	156,605
Original Cost Estimate	450,000			
Contingency	14,655			

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Commitments Made Month of August 1982

<u>Date</u>	<u>Vendor</u>	<u>Project Number</u>	<u>Amount</u>	<u>Purchase Order No.</u>
7/27/82	Tucson Warehouse	2.914.2	8,978.00	T03125
8/23/82	Cordem Corp.	2.914.5	2,227.00	T03160
8/25/82	P. & S Enterprises	2.914.5	-0-	T03168
8/05/82	Graybar	2.914.7	292.74	T03135
8/06/82	Sherwin Williams	2.914.7	667.89	T03140
8/20/82	Hamilton Avnet	2.914.7	632.63	T03157
8/24/82	Sewell Painting	2.914.7	1,500.00	T03164
7/29/82	Central Microwave	2.914.8	1,800.00	G08708
8/11/82	Merrimac Industries	2.914.8	348.00	G08724
8/04/82	M Lader and Co.	2.914.8	314.80	G08725
8/04/82	Reactel, Inc.	2.914.8	476.00	G08726
8/05/82	JFW Industries	2.914.8	520.00	G08727
8/03/82	Spacek Labs., Inc.	2.914.8	6,400.00	G08729
8/03/82	Alpha Industries	2.914.8	2,355.00	G08731
8/03/82	Texscan Corporation	2.914.8	368.00	G08744
8/17/82	Sonoma Engineering	2.914.8	1,140.00	G08775
8/31/82	Narda Microwave	2.914.8	378.40	G08796
8/24/82	Newark Electronics	2.914.8	339.00	G08798
Total			<u>28,737.46</u>	