

Interoffice

National Radio Astronomy Observatory

Charlottesville, Virginia

August 10, 1982

To: 12-m Working Group

From: H. Hvatum

Subject: 12-m Work Schedule on Kitt Peak (copy attached)

12 METER MILLIMETER WAVE TELESCOPE MEMO No. <u>181</u>
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John Findlay has given this to me for distribution. Please be prepared to discuss this at the next meeting.

Attachment

DATE	PRINCIPAL TASK	DONE BY	SECONDARY TASKS	REMARKS
August 4	FIRST STEEL ARRIVED	-		Secondary tasks are those which can be done in parallel with the primary task. Initials (PJR, JMP, WGH, JWF, etc.) shows task leader--if known.
August 9-20	Unload steel. Assemble BUS on ground in bolted form. No feed legs or R <sub>x</sub> mounts yet in place.	WGH* & VLA crew	We should start procurement of R <sub>x</sub> mounting steel as soon as possible (JMP).	*WGH arrives to start on August 16
August 23	Check BUS shape and edge alignment.	JNR*		*JNR arrives Tucson August 22, can stay 'till September 3.
August 23-25	Weld all joints on BUS.	WGH & VLA	Plan and test a template transport system by this date (PJR).	Two schemes for template transport are proposed--use the cherry-picker (PJR) or hang from dome (JWF, JMP). PJR should make final choice.
August 26	Paint BUS.			
August 30	Crane available. Remove old feed legs.	WGH & VLA crew	Probably wise to restrict other activities during this critical phase of the erection.	
August 31	Rig old dish for removal.			
September 1	Remove old dish.			
September 2	Place new BUS in position. Crane still attached. Make connections.		But the September 6-7 activities need an instrument at the dish center, observers platform and an access route (PJR).	
September 3	Install feed legs.*			*VLA crew returns to N. Mexico September 3.
September 6-7*	Level the dish, collimate, install and align the Sterling mount.	WGH, JMP, etc.	Start erection of control center on yellow elevator (PJR). Build dish-edge work place (PJR).	*September 6 is Labor Day. Needs an instrument man, and his platform and access.

12-m WORK SCHEDULE ON KITT PEAK

DATE	PRINCIPAL TASK	DONE BY	SECONDARY TASKS	REMARKS
September 7	Ship all remaining measuring equipment from Green Bank to Kitt Peak.	G.R. Peery	Prepare mount for Reference Jig in a tilted position (PJR).	It may be possible to ship somewhat earlier. JWF will keep GRP informed.
September 7-10	Install the receiver mounting steel into the BUS.	WGH, PJR		WGH using Tucson labor
September 10 or 11	W. G. Horne leaves Tucson*.			*WGH returns to Tucson on September 27.
September 10-27	Set all 144 edge balls. Measure elevations. Conduct thermal tests of BUS.	JWF, JMP, S. Smith*	Mount Reference Jig. Hang and test template and its transfer system (PJR).	*S. Smith should be in Tucson by September 10. The telescope will be fixed (stow pin) in elevation. Rotate by hand.
September 27 - October 11	Install all (perhaps all but one) panels.	WGH & Tucson crew	Continue telescope cabling. Work on drives, brakes, control system (PJR)	WGH could use perhaps two technicians from electronics + one or two operators. S. Sullivan might be in there!
October 11	Start first-look panel setting.	JWF, JMP	This may be a night time task. If so, use the days to work on the total system.	When setting is complete, we hope to take a "first-look". For this we need the drives, brakes, computer control, Sterling mount control and continuum observing package.