Interoffice

12 METER MILLIMETER WAVE TELESCOPE
MEMO No. 94

National Radio Astronomy Observatory

Charlottesville, Virginia

November 4, 1981

To: 12-m File

From: J. Payne

Subject: Machine Shop Time

The electronics for the 12-m antenna is going to require a considerable amount of machine shop time. This list of projects assumes that we start operation with a new 200-300 GHz receiver and a repackaged He_3 bolometer with higher frequency filters to take advantage of the usable submillimeter performance of the new surface.

The time estimates are mainly my own and are probably in error in many cases. The list is intended as an aid to planning and is certainly not complete yet. If there is a problem with the time scale, we always have the option of installing the old receivers on the new back-up structure.

Attachment

GREEN BANK MACHINE SHOP PROJECTS FOR 12-m

PROJECT	TIME (man months)	COMPLETION DATE	COMMENTS
Inductosyn. housings	5.5	June '82	Design by T. Hamed
RX selection mirror		July '82	Design by T. Hamed
Calibration unit	1.0	July '82	Design by J. Payne
Receiver mounting	1.5	May '82	Design by D. Ross, T. Hamed and M. Hagstrom
Bolometer repackaging	2.0	Feb. '82	1 man-mon. machine shop 1 man-mon. welding & plumbing Design by J. Davis
New dewars (2)	2.0	Feb. '82	Design by M. Hagstrom
2 mm diplexer and image dropper	2.0	Nov. '82	Design by J. Payne
3 mm image dropper	1.0	Nov. '82	Design by J. Payne
1 mm image dropper	1.0	Aug. '82	Design by J. Payne