

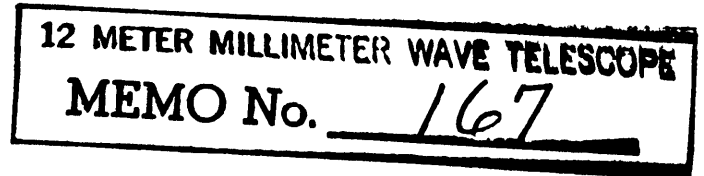


NATIONAL RADIO ASTRONOMY OBSERVATORY

SUITE 100, 2010 NORTH FORBES BOULEVARD TUCSON, ARIZONA 85705
TELEPHONE 602 882 8250

May 6, 1982

Regarding RFQ 5-1982



Dear

Thank you for attending our preproposal conference and site survey. I have attached the information regarding additions or changes to our RFQ which resulted from the preproposal conference and site survey meeting. I believe this covers all of the items which we discussed. If there are further questions, please contact me so that I may get appropriate responses to each of you.

We look forward to receiving your proposals.

Sincerely,

Dale A. Webb
Business Manager
Arizona Operations

cc: P. J. Rhodes

May 6, 1982

Additions or Changes to RFQ 5-1982 Resulting
From Preproposal Conference and Site Survey

Work to be Performed by NRAO
Personnel Starting July 15, 1982

1. All cables leading to the telescope, including power cables will be removed and placed near the telescope out of the way from the control enclosure. These cables will later be replaced by NRAO personnel.
2. The computer will be disconnected and removed from the computer enclosure area.
3. The control console along the south wall and into the center of the room will be removed.
4. All electronic equipment on the east and west wall of the control enclosure will be removed. The electronic equipment along the north wall will stay in place and must be protected by the contractor.
5. The telephone equipment on the wall of the computer enclosure will be removed by Telephone personnel at the request of NRAO personnel.
6. All emergency lights in the enclosure modification area will be removed and later replaced by NRAO personnel.
7. The cable trays inside and outside the control enclosure will be removed and later replaced by NRAO personnel.
8. The fire extinguishers and intercom system will be removed and replaced by NRAO.
9. The service tower will be removed with only the bottom steel supports left on the roof.
10. The helium bag and piping will be removed from the roof as well as associated piping for the bag.

General Items

1. A question was asked about Liability Insurance. Attachment "A" to this document should answer that question as it contains Article 0A2 of the Terms and Conditions which will be a part of this contract.

2. To be considered responsive, the contractor must state the type of flashing and roof materials which will be used to achieve a waterproof roof.
3. To be considered responsive, the contractor must submit detail sketches showing how the existing structures will be supported, how the beams and new structure is attached, the type and placement of columns, and how the columns will be supported on the existing 6" concrete floor.
4. The contractor must take all necessary precautions to protect remaining equipment from dust, debris, and damage.
5. Access openings between the control enclosure and computer enclosure, and the computer enclosure and observer enclosure shall be a minimum of 42" wide and 6' 8" high. Doors are not required.
6. The contractor is to provide an optional firm fixed price for reroofing the entire modified enclosure area. This includes removing the base frame of the (removed) service tower, removing and (after reroofing), replacing all HVAC equipment and associated electrical equipment and ducts.
7. For your convenience, Attachment "B" and "C" have been attached to give more detail on the major electrical and bathroom work to be performed. Please note that Attachment "C" states that a new sink will be installed in the bathroom. This item was discussed at the site survey.
8. The glass panels specified at the site survey for the south wall of the control enclosure are:

LAB TEMP ½" U
Tempered Safety Glass
ANSI Z97.1 1975
16 CFR 12011.11

They are reported to be available from Aztec Glass at approximately \$600.00 for 2 ea. for a 6' x 5' in Aluminum frame. These are double pane windows.

ATTACHMENT "A"

To Addition or Change Memo on RFQ 5-1982

ARTICLE OA2. INSURANCE Dated May 6, 1982

(a) The Subcontractor will, at no cost to AUI, maintain policies providing the following insurance protection for the Subcontractor, which insurance shall apply to all operations of the Subcontractor under this subcontract and employees of the Subcontractor engaged therein.

(i) WORKMEN'S COMPENSATION - Coverage, as provided in the Workman's Compensation Law, included occupational disease coverage, by the law of the State where the work is performed. Where all or any portion of this subcontract is performed in more than one State, Workmen's Compensation coverage shall not be less than that of the State requiring the highest limits.

(ii) GENERAL LIABILITY - Insurance with limits of \$500,000/\$1,000,000 for bodily injury liability and \$50,000 property damage in the comprehensive policy form. If elsewhere herein provided the Subcontractor shall furnish contract liability insurance in the amounts therein stated.

(iii) AUTOMOBILE PUBLIC LIABILITY AND PROPERTY DAMAGE - Insurance with limits of \$500,000/\$1,000,000 for bodily injury liability and \$100,000 for property damage liability on the comprehensive policy form covering all owned, non-owned and hired automobiles which will be used in connection with the work to be done under this subcontract, and which are not for use exclusively on the premises at which the work under this subcontract is performed.

b) The Subcontractor may purchase at its own expense such additional or other insurance protection as it may deem necessary. AUI may restrict access to the site of the work to such personnel of any insurance carrier providing additional or other insurance coverage to that referred to in the foregoing paragraph (a) as AUI may deem necessary for the proper servicing of such insurance.

c) The Subcontractor shall furnish a certificate of insurance with one extra copy to show compliance with subparagraph (a) above.

ATTACHMENT "B"

To Addition or Change Memo on
RFQ 5-1982
Dated May 6, 1982

Major electrical work on east wall to be performed by contractor except as noted.

1. Move PTUA/UPS Transfer Switch.
2. Move RVP Panelboard.
3. Move Double Duplex Outlets.
4. Move Light Switch for Computer Room.
5. Move Heater Contactors for Lounge Area.
6. Remove 6 x 6 and 4 x 4 Wire Ways Containing the following Wires:

6 x 6 Wire Way

NRAO -	4 ea. #12	Orange	From MDP	480V to Bearing Heat
NRAO -	4 ea. # 2/0	Black	From MDP	LPG on Telescope
	2 ea. # 2	Black	From UPS	PTUA/UPS Sw.
NRAO -	2 ea. # 6/2	SO	From MG Rm	Torgue Motors
NRAO -	1 ea. #18/28	SO	From MG Rm	Teledyne J-Boxes

4 x 4 Wire Way

	1 ea. #16/3		From RVP	Encoder Reg Ac
	2 ea. # 2		From MDP	PTVA/UPS Sw.
NRAO	1 ea. #30/7		Intercom	Intercom J-Box
NRAO	1 ea. Grey Belden		?	Service Tower??
	2 ea. #12	Orange	LPI	Control Rm Heat-East Wall *
	2 ea. #12	Blue/Red	LPI	Control Rm Heat

* Heater on east wall to be removed and discarded.

Cut cable tray in floor toward north wall as far as necessary to replace 4 x 4 and 6 x 6 wireways.

Note: The contractor will be responsible for relocating receptacles, lights, conduits, fans and miscellaneous wiring as required to perform the modification.

ATTACHMENT "C"

To Addition or Change Memo on
RFQ 5-1982
Dated May 6, 1982

Major bathroom work to be performed.

1. Move drinking fountain, supply and drain to new location near new bathroom.
2. Move Comode and associated piping.
3. Replace sink and trim with new sink and trim similar to existing equipment.
4. Remove walls and door and erect new or same in new location.
5. Move vent fan, receptacles, light, and bathroom accessories to new location.
6. Maintain support for 4 x 4 wire way and 2" rigid conduit through bathroom to moinitor panels.
7. Remove and discard cost closet and shelves in work room to make room for new bathroom.
8. Conduits to LP2 feeding control room have to be rerouted.
9. Cut floor for sewer pipe extension; check vent location.