

SCHEDULE A - STATEMENT OF WORKI. SCOPE OF WORK

The subcontractor will provide material and services to design, manufacture, fabricate, test, and deliver the following panels in accordance with ESSCO's proposal for millimeter wave telescope panels submitted in response to the National Radio Astronomy Observatory (NRAO) Request for Proposal #228.

A. Inner Panels

(1) Twenty (20) inner panels shall have an RMS deviation from the specified parabolic shape of less than or equal to forty-five (45) micrometers.

(2) Six (6) inner panels shall have an RMS deviation from the specified parabolic shape of less than or equal to sixty (60) micrometers.

B. Outer Panels

(1) Forty-Four (44) outer panels shall have an RMS deviation from the specified parabolic shape of less than or equal to forty-five (45) micrometers.

(2) Four (4) outer panels shall have an RMS deviation from the specified parabolic shape of less than or equal to sixty-five (65) micrometers.

(3) Two (2) outer panels shall have an RMS deviation from the specified parabolic shape of less than or equal to sixty (60) micrometers.

C. Subcontractor shall not provide targets, target holes, or cut-outs for spar attachments for panels set forth in A and B, above.

D. Drawings

Subcontractor shall provide reproducible dimensional drawings of the inner and outer panels. These drawings shall be limited to use by the National Radio Astronomy Observatory.

II. INSPECTION

A. Subcontractor will provide printouts of raw measurement data from the CMM for each panel to Dr. John Findlay, NRAO, Edgemont Road, Charlottesville, Virginia, 22901, and a copy of the transmittal letter for the raw measurement data to J. Marymor at the same address.

B. Panels that deviate from the theoretical parabolic shape by any amount in excess of the RMS shown in Paragraph I, A and B, above, shall not be presented for reinspection or delivery under this subcontract.

C. Subcontractor shall advise Dr. John Findlay at least ten (10) days prior to the measurements of any panel or panels and the National Radio Astronomy Observatory may elect to have a member of its technical staff witness the measurements or the inspection of each panel manufactured by the subcontractor.

D. Acceptance of panels shall be per the written approval of Dr. John Findlay or his designee.

III. DELIVERY

A. Delivery of items listed above in I A, B, and D shall be completed on or before January 15, 1982.

B. All shipments shall be made F.O.B. the subcontractor's plant, Concord, Massachusetts.

C. Shipping instructions shall be mutually agreed upon between the NRAO and the subcontractor.

D. Packing and Packaging

Subcontractor shall provide packing crates for shipment of the seventy-six (76) panels and shall coordinate the dimensions and tie-down methods with the NRAO.

IV. COMPENSATION

In consideration of the subcontractor's undertaking hereunder, sub-

contractor shall receive the fixed sum of \$165,822.52 for all items required by this subcontract.

V. PAYMENT

A. The subcontractor shall be paid the sum of \$2,181.88 for each panel accepted and delivered, F.O.B. subcontractor's dock, Concord, Massachusetts.

B. Invoices shall be sent to the attention of J. Marymor at the NRAO, Edgemont Road, Charlottesville, Virginia, 22901, with a copy to the NRAO, Fiscal Division, Post Office Box 2, Green Bank, West Virginia, 24944.

VI. WARRANTY

A. Notwithstanding the provisions of Schedule B, Article 2, Inspection, the subcontractor warrants that the material provided hereunder shall be free of defects in workmanship and materials for the period of one (1) year from the date of acceptance at the subcontractor's dock. All defective items shall be returned to the subcontractor, freight prepaid, within a reasonable time after the discovery of the defects in the item. This warranty supercedes any other warranty, express or implied, in connection with the items delivered in accordance with the terms of this subcontract.

B. Subcontractor warrants that it will maintain the ability to produce panels of the same dimensions and quality for a period of five (5) years after completion of deliveries under this subcontract.

VII. IDENTIFICATION AND MARKING

A. Each panel shall be identified with a unique serial number which will also be referred to on the raw CMM taken from the panel.

B. Serial numbers shall be permanently applied to each panel at approximately the same location and in a legible manner.