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## UNIVERSITY OF CALIFORNIA LAWRENCE RADIATION LABORATORY

## APPENDIX B TO PURCHASE ORDER 4714103

with

MONSANTO RESEARCH CORPORATION

INTRODUCTION

As approved and directed by the University, Subcontractor shall, on a best efforts basis, provide approximately 2,300 man hours of total effort directed toward the evaluation of materials for injection molding.

In accordance with ARTICLE VII - CHANGES, the Business Manager of the University of California Lawrence Radiation Laboratory, or his designee, may direct, in writing, changes in this Scope of Work.

I - TECHNICAL SCOPE OF WORK

As requested and directed by the University's Technical Coordinator, Subcontractor shall perform the following tasks:

A - Polymer Selection

Compile information on and obtain samples of various new polymers with appropriate combinations of the following properties and characteristics:

1. Heat distortion
2. Optical clarity
3. Low density
4. Low creep
5. Chemical stability
6. Uniform and low thermal coefficient of expansion
7. Reasonable availability

B - Polymer Flow Studies

Flow properties of various polymers shall be studied to determine moldability.

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C - Molding Studies

Molding studies shall be conducted to determine the molding characteristics of each polymer. These studies shall define the operating variables to minimize mold shrinkage and distortion of the molded parts upon machining and thermal cycling. When requested by the University's Technical Coordinator, Subcontractor shall furnish suitable physical test specimens to the University.

D - Supplemental Development

If requested by the University, selected polymers shall be studied for more complete characterization.

II - LEVEL OF EFFORT

In performance of this Scope of Work, Subcontractor shall supply effort as follows:

<u>Type of Effort</u>	<u>Approx. Man Hours</u>
Research Manager	100
Research Specialist	200
Research Chemical Engineer	1800
Research Technician	<u>200</u>
Total --	2300

III - COORDINATION AND ADMINISTRATION

- A - The University's Contract Administrator is Mr. C. L. Blue, his designee or successor.
- B - The University's Technical Coordinator is Mr. L. E. Peck, his designee or successor.
- C - The Subcontractor's Technical Coordinator is Dr. I. O. Salyer, his designee or successor.

IV - ASSIGNMENT OF PERSONNEL

Any substitution, reassignment, replacement or other change involving Subcontractor's key technical personnel assigned to this work shall be made only with persons of equal ability and qualifications. Any such change shall be subject to prior University approval.

V - EQUIPMENT

University shall furnish and install the following equipment for use under this Subcontract:

1 each - Injection Molding Machine  
New Britain Ankerwork, Model 75

VI - REPORTS

Subcontractor shall prepare and submit complete and/or technically competent reports as follows:

A - Progress Reports shall be submitted by the 15th of each month and shall contain a description of work performed during the previous month.

B - Final Report shall be submitted upon completion of the work. This report shall contain a comprehensive summary covering work results and conclusions, and must be submitted for University approval prior to distribution.

C - Financial Reports shall be submitted by the 15th of each month and shall contain an expenditure analysis of all work performed since commencement of this Subcontract.

D - Distribution of Reports

Formal reports shall be separately addressed and mailed as follows:

University of California  
Lawrence Radiation Laboratory  
Post Office Box 808  
Livermore, California 94551

<u>No. of Copies</u>	<u>Types of Reports</u>	<u>Attention</u>
1	A, B, C	B. Rubin, L-436
1	A, B, C	B. L. Garner, L-421
4	A, B	Technical Information L-3
1	A, B	Director's Office, L-1
1	A, B, C	Procurement Dept., L-127
7	A, B, C.	L. E. Peck, L-421

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E - Interim Reports

It is understood that from time to time there will be other information exchanged between the parties. These data may be exchanged directly between the parties concerned. Formal report form and distribution is not required in these instances.

ACCEPTED:

MONSANTO RESEARCH CORPORATION

By /s/ K. Warren Easley

Vice President

Title Dir. of Govt. Relations

Date 10/29/65

AUTHORIZED:

UNIVERSITY OF CALIFORNIA  
LAWRENCE RADIATION LABORATORY

By /s/ C. L. Blue

C. L. Blue

Title Procurement Manager

Lawrence Radiation Laboratory

Date Oct. 21, 1965

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