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EXPOSURE TESTING AND EVALUATION
OF
SOLAR UTILIZATION MATERIALS

Quarterly Progress Report for the Period
Nov. 1, 1975 Through Jan. 31, 1976

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MASTER

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June 8, 1976

United States Energy Research and Development
Administration
Solar Energy Division
Solar Heating and Cooling Branch
20 Massachusetts Avenue N.W.
Washington, D.C. 20545

Attention: Dr. Stephen L. Sargent

Subject: IITRI Project No. C6342
ERDA Contract No. E(11-1)-2672
Quarterly Progress Report No. C6342-2

Dear Sir:

This is the quarterly report covering the period Nov. 1, 1975 through Jan. 31, 1976. The major activities during this period involved optical characterization of samples, mounting of samples on exposure racks and discussions with exposure site contractors and also with materials suppliers.

During this period six (6) materials suppliers forwarded fifteen (15) samples for exposure testing. As of Jan. 31, 1976, this brings the total number of materials suppliers to nineteen (19); the total number of individual samples to sixty-nine (69).

Preliminary optical measurements indicate that all of the materials examined thus far have initial transmittance values or reflectance values, as appropriate, in excess of minimum requirements.

It is anticipated that conventional exposure testing at all three (3) sites (Chicago, Miami, and Phoenix) will be initiated in late February, 1976. Accelerated testing (Phoenix site only) will be initiated one month later.

Discussion with suppliers and potential suppliers were very frequent during this period. Subjects of discussion

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Administration
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ranged from numerical sample requirements and specific or specialized properties to publication of test results and to IITRI's policy regarding the latter.

Respectfully submitted,
IIT RESEARCH INSTITUTE

J. E. Gilligan
Senior Engineer-Group Leader
Polymer Chemistry Research

Approved by

C. Giori
Manager
Polymer Chemistry Research

JG/jp

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