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 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light Co 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light Co 05000251
 AUTH. NAME: UHRIG, R.E. AUTHOR AFFILIATION: Florida Power & Light Co.
 RECIP. NAME: EISENHUT, D.G. RECIPIENT AFFILIATION: Division of Licensing

SUBJECT: Advises that Dolan Farm radiological sample shed will be moved approx 200 yards southeast. Present location has left shed vulnerable to repeated acts of vandalism. New location will be within Weyerhaeuser Corp security area.

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AUG 24 1981

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THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5800 S. UNIVERSITY AVENUE
CHICAGO, ILLINOIS 60637

RECEIVED
JAN 15 1964
FROM
DR. J. H. SCHUBERT
SUBJECT
POLYMERIZATION OF VINYL MONOMERS

1. INTRODUCTION
2. EXPERIMENTAL
3. RESULTS AND DISCUSSION
4. CONCLUSIONS
5. REFERENCES

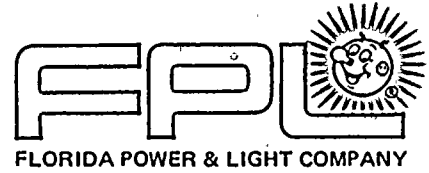
1. INTRODUCTION
The polymerization of vinyl monomers is a process of great importance in the chemical industry. The study of the mechanism of this reaction has been the subject of many investigations. The present work is a contribution to the understanding of the mechanism of the polymerization of vinyl monomers. The results of the present work are compared with those of other workers in the field. The following is a summary of the results of the present work.

2. EXPERIMENTAL
The polymerizations were carried out in a stirred reactor at various temperatures and times. The monomer concentration was varied in order to determine the effect of monomer concentration on the rate of polymerization. The initiator concentration was also varied in order to determine the effect of initiator concentration on the rate of polymerization. The polymerization was carried out in the presence of various inhibitors in order to determine the effect of inhibitors on the rate of polymerization. The molecular weight of the polymer was determined by gel permeation chromatography. The inherent viscosity of the polymer was determined by the method of Mark and Mandelkern.

3. RESULTS AND DISCUSSION
The rate of polymerization was found to be first order with respect to the monomer concentration and first order with respect to the initiator concentration. The rate of polymerization was found to be independent of the temperature. The rate of polymerization was found to be independent of the time of polymerization. The rate of polymerization was found to be independent of the concentration of the inhibitor. The molecular weight of the polymer was found to be independent of the monomer concentration and independent of the initiator concentration. The inherent viscosity of the polymer was found to be independent of the monomer concentration and independent of the initiator concentration.

4. CONCLUSIONS
The results of the present work indicate that the polymerization of vinyl monomers is a first order reaction with respect to the monomer concentration and first order with respect to the initiator concentration. The rate of polymerization is independent of the temperature, the time of polymerization, and the concentration of the inhibitor. The molecular weight of the polymer is independent of the monomer concentration and independent of the initiator concentration. The inherent viscosity of the polymer is independent of the monomer concentration and independent of the initiator concentration.

5. REFERENCES
1. J. H. Schubert, J. Polym. Sci., 13, 1 (1954).
2. J. H. Schubert, J. Polym. Sci., 13, 2 (1954).
3. J. H. Schubert, J. Polym. Sci., 13, 3 (1954).
4. J. H. Schubert, J. Polym. Sci., 13, 4 (1954).
5. J. H. Schubert, J. Polym. Sci., 13, 5 (1954).



August 11, 1981
L-81-349

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Eisenhut:

Re: Turkey Point Units 3 & 4
Docket No. 50-250 and 50-251
Environmental Technical Specification

This is to advise you that we are planning to move the Dolan's Farm (sample location T-57) radiological sample shed approximately 200 yards to the southeast. This sample shed contains the equipment necessary to collect the samples for air particulates, direct radiation and precipitation. The move is currently anticipated during the month of August.

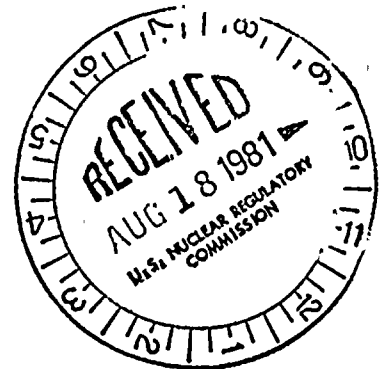
At its present location, the Dolan's Farm sample station has been subject to repeated acts of vandalism (e.g shooting, theft of equipment) resulting in a potential for violations of Turkey Point 3 & 4 Technical Specifications. The new location for the sample shed will be across the street from Dolan's Farm and inside the security area of the Weyerhaeuser Corporation site located on King's highway. This move will have no impact on the results or trends associated with the Dolan's Farm sampling location.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/JEM/mbd

cc: Mr. J. P. O'Reilly, Region II
Harold F. Reis, Esquire



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