

MICHIGAN STATE UNIVERSITY

COLLEGE OF ENGINEERING • DIVISION OF ENGINEERING RESEARCH

EAST LANSING • MICHIGAN • 48824

July 12, 1982

Director of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Docket No.: 50-294

Michigan State University TRIGA Reactor  
License R-114  
Annual Report

Dear Sir:

Pursuant to 10CFR50.59 the following report is submitted:

1. During the operating period of January to December 31, 1981, the following experiments were performed:
  - a. 53 central thimble irradiations
  - b. 1317 rotary specimen rack irradiations
  - c. total operation of 1.653 megawatt-days
2.  $^{41}\text{Ar}$  release totaled 2329.6  $\mu\text{Ci}$  or an average release rate of  $2.01 \times 10^{-10}$   $\mu\text{Ci/ml}$ .
3. There have been no apparent changes in the tank bottom deflection.
4. During the reporting period there were 37 unscheduled SCRAMS:
  - 28 linear recorder scrams caused by noise transients
  - 4 linear recorder scrams attributable to operator error
  - 2 period scrams caused by noise transients
  - 3 period scrams caused by operator error
5. There are currently four students being trained as operators.

Sincerely,

*James Carrick*

James Carrick  
Reactor Supervisor

JC:kk

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