September 6, 1984

Docket No. 50-289

Mr. Al Manick 919 Hoffer Street Middletown, Pennsylvania 17057

Dear Mr. Manick:

At the limited appearance session for the Three Mile Island Unit 1 steam generator hearing which was held in Middletown on July 16 and 17, 1984, you raised three questions. Your paraphrased questions, and the NRC Staff's answers, are attached.

I trust this letter is responsive to your questions.

Sincerely,

"ORIGINAL SIGNED BY:"

Mary E. Wagner Counsel for NRC Staff

Attachment: As stated

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What prevents the corrosion which was identified in the steam generators from spreading to other parts of the Unit?

The source of the reduced form of sulfur which has been identified as the causative agent in the steam generator corrosion has been eliminated. Therefore, reasonable assurance exists that corrosion will not spread to other parts of the Unit. Additionally, extensive examinations have been conducted in other systems which were initially exposed to the reduced sulfur. Corrosion was identified in two systems other than the steam generators and repairs were conducted. These issues are discussed in more detail if NUREG-1019 and Supplement No. 1 to NUREG-1019 which are available in the Local Public Document Room.

What is the tolerance between the old tubes and the new tubes and what would prevent the original tubes from stretching due to the kinetic expansion repair?

The kinetic expansion process was conducted by expanding a six-inch long defect-free portion of the original tubes within the original 22-inch tubesheet hole where it is located. This process results in establishing a tight seal. The repair process does not rely on the installation of new tubes. The kinetic expansion repair process and its qualification program are discussed in detail in NUREG-1019 and NUREG-1019 Supplement No. 1.

3. Will vibration of the steam generator tubes result in leaks?

An integral part of the repair program included removing from service tubes which were corroded to such an extent that vibration would be predicted to result in tube leaks. Vibrational considerations of the repair program are discussed in NUREG-1019 and NUREG-1019 Supplement No. 1.

Mr. R. J. Toole 0&M Director, TMI-1 GPU Nuclear Corporation P. O. Box 480 Middletown, Pennsylvania 17057

Board of Directors
P. A. N. E.
P. O. Box 268
Middletown, Pennsylvania 17057

Docketing and Service Section U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Chauncey Kepford
Judith H. Johnsrud
Environmental Coalition on Nuclear Power
433 Orlando Avenue
State College, Pennsylvania 16801

Judge Reginald L. Gotchy Atomic Safety & Licensing Appeal Board U.S. Nuclear Regulatory Commission Washington, DC 20555 Jordan D. Cunningham, Esq. Fox, Farr and Cunningham 2320 North 2nd Street Harrisburg, Pennsylvania 17110

Ms. Louise Bradford TMIA 1011 Green Street Harrisburg, Pennsylvania 17102

Ms. Marjorie M. Aamodt R. D. #5 Coatesville, Pennsylvania 19320

Earl B. Hoffman
Dauphin County Commissioner
Dauphin County Courthouse
Front and Market Streets
Harrisburg, Pennsylvania 17101

Ellyn R. Weiss Harmon, Weiss & Jordan 20001 S Street Suite 430 Washington, D.C. 20009

Ivan W. Smith, Esq., Chairman Atomic Safety and Licensing Board U.S. Nuclear Regulatory Commission or Washington, D.C. 20555

Mr. Thomas E. Murley, Regional Administrator Washington, D.C. 20555 U. S. N. R. C., Region I 631 Park Avenue King of Prussia, Pennsylvania 19406

ANGRY/TMI PIRC 1037 Maclay Street Harrisburg, Pennsylvania 17103

John Levin, Esq.
Pennsylvania Public Utilities
Commission
Box 3265
Harrisburg, Pennsylvania 17120

Gary J. Edles, Chairman Atomic Safety & Licensing Appeal Board U.S. Nuclear Regulatory Commission Washington, DC 20555

Dr. John H. Buck Atomic Safety & Licensing Appeal Board U.S. Nuclear Kegulatory Commission Washington, DC 20555 - 2 -

Mr. Thomas M. Gerusky, Director Bureau of Radiation Protection Pennsylvania Department of Environmental Resources P. O. Box 2063 Harrisburg, Pennsylvania 17120

Marvin I. Lewis 6504 Bradford Terrace Philadelphia, Pennsylvania 19149

G. F. Trowbridge, Esq. Shaw, Pittman, Potts & Trowbridge 1800 M Street, N.W. Washington, D. C. 20036

J. S. Wetmore
Manager, PWR Licensing
GPU Nuclear Corporation
100 Interpace Parkway
Parsippany, New Jersey 07054

Ms. Virginia Southard, Chairman Citizens for a Safe Environment 264 Walton Street Lemoyne, Pennsylvania 17043

Dr. David Hetrick Professor of Nuclear Energy University of Arizona Tucson, Arizona 85721

Mr. David D. Maxwell, Chairman Board of Supervisors Londonderry Township RFD#1 - Geyers Church Road Middletown, Pennsylvania 17057

Regional Radiation Representative EPA Region III Curtis Building (Sixth Floor) 6th and Walnut Streets Philadelphia, Pennsylvania 19106

Mr. Richard Conte Senior Resident Inspector (TMI-1) U.S.N.R.C. P. O. Box 311 Middletown, Pennsylvania 17057 General Counsel
Federal Emergency Management Agency
ATTN: Docket Clerk
1725 I Street, NW
Washington, DC 20472

Karin W. Carter, Esq. 505 Executive House P. O. Box 2357 Harrisburg, Pennsylvania 17120

Dr. James Lamb 313 Woodhaven Road Chapel Hill., North Carolina 27514

Dauphin County Office Emergency Preparedness Court House, Room 7 Front & Market Streets Harrisburg, Pennsylvania 17101

Christine N. Kohl, Esq.
Atomic Safety & Licensing Appeal
Board
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Ms. Lennie Prough
U. S. N. R. C. - TMI Site
P. O. Box 311
Middletown, Pennsylvania 17057

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Generation Division
Suite 220, 7910 Woodmont Avenue
Bethesda, Maryland 20814

Mr. Gustave A. Linenberger, Jr. Atomic Safety and Licensing Board U.S. Nuclear Regulatory Commission Washington, D.C. 20555

Mr. C. W. Smyth
TMI-1 Licensing Manager
GPU Nuclear Corporation
P. O. Box 480
Middletown, Pennsylvania 17057

Governor's Office of State Planning and Development ATTN: Coordinator, Pennsylvania State Clearinghouse

P. O. Box 1323 Harrisburg, Pennsylvania 17120 Sheldon J. Wolfe, Esq., Chairman Atomic Safety & Licensing Board Washington, D.C. 20555

Ms. Jane Perkins City Government Center 10 North Market Square Harrisburg, Pennsylvania 17101

Jane Lee 183 Valley Road Etters, Pennsylvania 17319

Bruce Molholt Haverford College Haverford, Pennsylvania 19041

Norman Aamodt R. D. #5, Box 428 Coatesville, Pennsylvania 19320

Michael McBride, Esq. LeBoeuf, Lamb, Leiby & McRae Suite 1100 1333 New Hampshire Avenue, N.W. Washington, D.C. 20036