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April 23, 1982

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555



Dear Mr. Denton:

As a result of R. C. Arnold's discussions with you on April 22, 1982, regarding the TMI Steam Generator Program, he asked me to forward to you the charter and the composition of the Independent Third Party Review Group which we have established. These documents are attached; the group has had its initial meeting on April 23, 1982.

Very truly yours,

R. F. Wilson  
Vice President  
Technical Functions

RFW/al  
ATT

cc: R. C. Arnold

*Adol  
5/11*

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## ATTACHMENT 1

### THIRD PARTY REVIEW OF TMI-1 OTSG REPAIR PROGRAM

#### CHARTER

##### I. PURPOSE

It is the intended purpose of this "Third Party Review" (TPR) to provide a timely, independent, objective, safety evaluation of all activities defined in this charter for conformance to: 1) the NRC rules & regulations governing the operation of TMI-1; and 2) the adequacy of the steam generator repair program that will allow safe operation of the nuclear unit.

##### II. SCOPE

The scope of this review is generally limited to activities associated with the identification of failure mechanisms and repairs of the TMI-1 Once Through Steam Generators (OTSG's). The specific task areas to be reviewed are described in more detail in Section IV of this charter. It is the intent of GPUN Management to fully develop and implement repairs to the TMI-1 OTSG's within the provisions of 10CFR50.59. It is expected that the TPR will promptly notify GPUN Management of any circumstance not already identified by GPUN, that fails to meet these standards.

##### III. MEMBERSHIP

The membership of the TPR body shall include individuals with expertise in the following specialty areas:

- |   |            |
|---|------------|
| A. Steam Generator Design and Performance | - 1 member |
| B. Chemistry                              | - 1 member |
| C. Materials                              | - 1 member |
| D. Stress Analysis                        | - 1 member |
| E. Safety Analysis                        | - 1 member |
| F. Plant Operations                       | - 1 member |
| G. Non-Destructive Examination            | - 1 member |

The TPR shall have a GPUN individual assigned as Secretary for the review. He will be the general interface for the TPR membership and GPUN. A Chairman will be elected and report the results of the review directly to the Vice President - Technical Functions in this assignment. The Secretary will arrange for all review material, meetings and recordkeeping for the team. Any specific information requests within the scope of the TPR should be to the Secretary. The Secretary will be a non-voting member in any matters of the TPR seeking consensus opinions.

Members of the TPR will either be from outside the GPUN organization or from the portion of GPUN not responsible for the steam generator repair or TMI-1 operations.

#### IV. SPECIFIC REVIEW AREAS

##### A. Failure Analysis Program

This program is intended to identify the cause of tube cracking and means to arrest it.

##### B. Eddy Current Examination Program

This program is to develop and implement an eddy current examination method to identify the extent of the tube cracking problem.

##### C. OTSG Performance Evaluation

It is the object of this effort to evaluate the impact of the repair procedures on the performance of the steam generators, especially in the area of safety analysis.

##### D. Repair Criteria

This program is intended to provide guidance concerning the type of repair to be done on the damaged tubes.

##### E. OTSG Repair Program

This program covers the actual repair of the steam generators.

#### V. MEETING FREQUENCY

The TPR shall initially meet to receive a presentation by GPUN and its consultants on the current status and direction of the OTSG Repair Program. At that meeting, they will be presented with initial reference material that will enable them to assess products then available.

A second meeting will be scheduled by GPUN to make a final presentation to the TPR prior to initiation of the final production repairs.

Other meetings may be held at the discretion of the TPR.

#### VI. RECORDS

The Secretary shall maintain records of all meetings of the TPR. The Secretary shall also maintain a record of all documents reviewed by the membership. Portions of the material may be proprietary in nature. Appropriate arrangements shall be made to protect proprietary information when it is used.

Transcripts may be taken of the final review meeting and used as part of the documentation package available to the NRC in support of the OTSG Repair Program.

A final report will be prepared by the review team which summarizes its findings and conclusions regarding the safety adequacy of the repair program. The report should make an explicit finding that the approach proposed by GPUN is adequate if that is the conclusion of the review.

MEMBERS, TMI-1 Third Party Review

- STEAM GENERATOR DESIGN AND PERFORMANCE  
ED J. WAGNER - Director, Engineering and Design,  
Breeder Reactor Division, Burns and Roe, Inc.
- CHEMISTRY  
DAVID J. MORGAN - Nuclear Analyst, Plant Systems Analysis  
Section, P.P. & L.
- MATERIALS  
DR. R. W. WEEKS - Associate Director Materials Science  
Division, Argonne National Laboratory
- STRESS ANALYSIS  
DR. ARTURS KALNINS - Professor of Mechanics,  
Lehigh University
- SAFETY ANALYSIS  
WILLIAM LAYMAN - Department Manager, Generic Safety Analysis  
Electric Power Research Institute
- PLANT OPERATIONS  
STAN HOLLAND - System Production Engineer - Duke Power Co.
- NON-DESTRUCTIVE EXAMINATION  
STEPHEN BROWN - Principal Engineer - Inspection,  
Electric Power Research Institute
- SECRETARY  
ED WALLACE - Manager, PWR Licensing, GPU Nuclear