

THREE MILE ISLAND AQUATIC STUDY  
MONTHLY PROGRESS REPORT: JANUARY THROUGH MARCH 1987

Prepared For

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## INTRODUCTION

The objective of this report is to document the activities performed prior to the initiation of the 1987 Three Mile Island Aquatic study. The study part of the Environmental Technical Specifications (ETS) for the Three Mile Island Nuclear Station (TMINS) are being conducted under a contract with GPU Nuclear Corporation. The purpose of these studies is to obtain a database sufficient to establish the natural fluctuations within the ecosystem and identify any significant biological alterations resulting from the TMINS.

### Water Quality Analysis

Objective: To measure select physical and chemical parameters of the Susquehanna River near the TMINS concurrent with General Ecological Survey samples.

Progress: All gear for the program was either purchased, or received from GPU Environmental Controls in February 1987. All gear was inspected and repaired/replaced if necessary. Appropriate monthly and quarterly instrument calibrations were completed per procedure 9420-OPS-4513.01 (Instrument Calibration-ETS). Preparatory site visitations were conducted in March 1987 to identify station locations and affix markings where appropriate.

### Benthic Macroinvertebrates

Objective: To assess the abundance, distribution, and diversity of benthic macroinvertebrates at three stations near the TMINS.

Progress: All gear for the program was either purchased, or received from GPU Environmental Controls in February 1987. All gear was inspected and repaired/replaced if necessary. Appropriate monthly and quarterly instrument calibrations were completed per procedure 9420-OPS-4513.01 (Instrument Calibration-ETS). Preparatory site visitations were conducted in March 1987 to identify station locations and affix markings where appropriate.

### Ichthyoplankton

Objective: To determine species composition, relative abundance, density, and seasonal and spatial distribution of ichthyoplankton at eight stations near the TMINS.

Progress: All gear for the program was either purchased, or received from GPU Environmental Controls in February 1987. All gear was inspected and repaired/replaced if necessary. Appropriate monthly and quarterly instrument calibrations were completed per procedure 9420-OPS-4513.01 (Instrument Calibration-ETS). Preparatory site visitations were conducted in March 1987 to identify station locations and affix markings where appropriate.

### Seine

Objective: To assess species composition, relative abundance, seasonal, and spatial distribution, condition factor, occurrence of parasites, anomalies and fish kills, and species diversity of fishes vulnerable to seine capture at six stations near the TMINS.

Progress: All gear for the program was either purchased, or received from GPU Environmental Controls in February 1987. All gear was inspected and repaired/replaced if necessary. Appropriate monthly and quarterly instrument calibrations were completed per procedure 9420-OPS-4513.01 (Instrument Calibration-ETS). Preparatory site visitations were conducted in March 1987 to identify station locations and affix markings where appropriate.

### Electrofishing

Objective: To assess species composition, relative abundance, occurrence of parasites, anomalies, and species diversity of fishes vulnerable to electrofisher capture at six stations near the TMINS.



Progress: All gear for the program was either purchased, or received from GPU Environmental Controls in February 1987. All gear was inspected and repaired/replaced if necessary. Appropriate monthly and quarterly instrument calibrations were completed per procedure 9420-OPS-4513.01 (Instrument Calibration-ETS). Preparatory site visitations were conducted in March 1987 to identify station locations and affix markings where appropriate.

Creel Survey

Objective: To investigate the extent of success of sport fishing, and determine angler residence and use of catch, in the Susquehanna River near TMINS.

Progress: All gear for the program was either purchased, or received from GPU Environmental Controls in February 1987. All gear was inspected and repaired/replaced if necessary. Appropriate monthly and quarterly instrument calibrations were completed per procedure 9420-OPS-4513.01 (Instrument Calibration-ETS). Preparatory site visitations were conducted in March 1987 to identify station locations and affix markings where appropriate.