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CONFIDENCE

7590-01

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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DOCKET
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REG. DIV.
NRC
COMM. & SERVICE
DIVISION

In the Matter of)
PENNSYLVANIA POWER AND LIGHT CO.)
(Susquehanna Steam Electric)
Station, Unit 2))

Docket No. 50-388
License No. NPF-22
EA 84-77

CONFIRMATORY ORDER

Pennsylvania Power and Light Co. is the holder of Facility Operating License No. NPF-22 issued March 23, 1984, which authorizes the licensee to operate the Susquehanna Steam Electric Station, Unit 2, in Salem Township, Pennsylvania.

II

On July 26, 1984, while conducting a planned loss of turbine generator and offsite power startup test from 30% reactor power, the reactor automatically scrammed as a part of the test when AC power was lost on Unit 2 for approximately eleven minutes. As a result of the incorrect positioning of four DC control power switches, the four diesel generators failed to receive an emergency start signal and therefore failed to start. Unit 2 AC power was restored by manually re-energizing the AC buses from the offsite supply and no emergency core cooling actuation occurred. All plant systems appear to have functioned

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normally following the loss of power and reactor scram, with the exception of the emergency diesel generator electrical lineup problems. This event is of concern because of the unnecessary loss of a safety backup system as a result of personnel error during a planned test. Consequently, I have determined that certain actions are required in the interest of public health and safety.

By telephone discussion between Mr. J. Calhoun, Senior Vice President - Nuclear, Pennsylvania Power and Light, Co., and Dr. Thomas E. Murley, Regional Administrator, Region I, the licensee agreed that Unit 2: (1) would immediately be taken to cold shutdown and (2) would not restart until:

- (a) a thorough investigation into the causes and implications of the July 26, 1984 loss of AC power event is completed;
- (b) corrective action is planned or taken, as appropriate, to correct deficiencies identified during the investigation;
- (c) the Regional Administrator, or his designee, is briefed on the results of the investigation and the corrective actions taken or planned; and

- (d) the licensee obtains the approval of the Regional Administrator, or his designee, prior to restarting Unit 2.

These commitments were recited in a Confirmatory Action Letter dated July 26, 1984 (CAL 84-14)

In view of the importance of a thorough investigation to identify the causes of the AC power loss and the relationship to safe plant operations, I have determined that the commitments of July 26, 1984 are required by the public health, safety, and interest and, therefore, should be confirmed by an immediately effective order.

III

In view of the foregoing, pursuant to Sections 103, 161(i), 161(o) and 182 of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Parts 2 and 50, IT IS HEREBY ORDERED, EFFECTIVE IMMEDIATELY, that:

- (1) Unit 2 shall immediately be taken to cold shutdown, and
- (2) Unit 2 shall remain in cold shutdown until:

- (a) a thorough investigation is completed into the causes and implications of the loss of AC power event;
- (b) corrective action is planned or taken, as appropriate, to correct deficiencies identified as a result of the investigation;
- (c) the Regional Administrator, or his designee, is briefed on the results of the investigation and the corrective actions taken or planned; and
- (d) the Regional Administrator, or his designee, approves restart of Unit 2.

IV

The licensee, or any other person whose interest is adversely affected by this Order, may request a hearing on this Order. Any request for hearing shall be submitted to the Director, Office of Inspection and Enforcement, U. S. Nuclear Regulatory Commission, Washington, DC 20555 within 30 days of this Order. Copies of the request shall also be sent to the Executive Legal Director at the same address and to the Regional Administrator, Region I, 631 Park Avenue, King of Prussia, PA 19406. A REQUEST FOR HEARING SHALL NOT STAY THE EFFECTIVENESS OF THIS ORDER.

If a hearing is to be held concerning this Order, the Commission will issue an Order designating the time and place of hearing. If a hearing is held, the issue to be considered at such hearing shall be whether this Order shall be sustained.

FOR THE NUCLEAR REGULATORY COMMISSION



Richard C. DeYoung, Director
Office of Inspection and Enforcement

Dated at Bethesda, Maryland
this *17th* day of July 1984

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