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October 7, 1982  
 NRC/TMI-82-058

Docket No. 50-320

Mr. B.K. Kanga  
 Director, TMI-2  
 GPU Nuclear Corporation  
 P.O. Box 480  
 Middletown, PA 17057

Dear Mr. Kanga:

Subject: Recovery Operations Plan Change No. 17 (Recovery Operations Plan Change Requests Nos. 16 and 18)

- References: (a) Letter from B.K. Kanga to L.H. Barrett, re. Recovery Operations Plan Change Request No. 16, dated September 3, 1982, (4400-82-L-0129).
- (b) Letters from B.K. Kanga to L.H. Barrett, re. Recovery Operations Plan Change Request No. 18, dated September 18, 1982, (4410-82-L-0006) and October 6, 1982 (4410-82-L-0023).

The Nuclear Regulatory Commission Staff has reviewed your Recovery Operations Plan Change Requests Nos. 16 and 18 forwarded in references (a) and (b). Change Request No. 16 is an additional surveillance requirement: a mechanical operability check of each containment personnel airlock, performed at least once every three months. This check is designed to insure safe operation of the airlock doors, by cycling the doors through open and closed positions, inspecting lock components, and applying lubrication where necessary. Change Request No. 18 is to permit the temporary simultaneous opening of both airlock doors in the equipment hatch, to allow the passage of certain tools and equipment too long to transport through personnel airlock number 2. You have committed to adequate radiological, mechanical and security surveillance of the area whenever both doors are open. You have also committed to minimize any activities that could cause a fire within the containment building (and potentially result in an increase in airborne radioactivity) during the time both airlock doors are open.

Our review has determined that:

1. The doors will only be open for a limited duration,
2. Any air flow out of the building will be restricted,
3. The preoperability checks will verify that the doors are mechanically operable,

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- 4. Local radiological monitoring instrumentation will be operating in the immediate area of the airlocks,
- 5. Personnel are present to immediately close both doors in the event of any abnormal conditions, and
- 6. The simultaneous opening of both airlock doors will be accomplished by written NRC approved procedures.

Based on the above, we conclude that this operation will maintain the public health and safety and consequently approve your request as indicated in the enclosed amended sections to the Recovery Operations Plan (Change No. 17).

- 5 -

Lake H. Barrett  
 Deputy Program Director  
 TMI Program Office

Enclosure: As stated

cc: J. Barton  
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## SURVEILLANCE REQUIREMENTS

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### 4.6 CONTAINMENT SYSTEMS

#### 4.6.1 PRIMARY CONTAINMENT

##### CONTAINMENT INTEGRITY

4.6.1.1 Primary CONTAINMENT INTEGRITY shall be demonstrated:

- a. At least once per 31 days by verifying that:
  1. All accessible (per occupational exposure considerations) penetrations not required to be open per approved procedures during RECOVERY MODE are closed by valves, blind flanges, or deactivated automatic valves secured in their positions.
  2. The equipment hatch is closed and sealed.
- b. By verifying that each containment airlock is OPERABLE per Specification 3.6.1.3.

##### CONTAINMENT AIRLOCKS

4.6.1.3 Each containment air lock shall be demonstrated OPERABLE:

- a. After each opening, except when the airlock is being used for multiple entries, then at least once per 72 hours, by verifying less than or equal to 0.01 L<sub>a</sub> seal leakage when the volume between the door seals is stabilized to a pressure to 10 psig.
- b. At least once per three months by performing a mechanical operability check of each airlock, including a visual inspection of the components and lubrication if necessary.
- c. At least once per six months by conducting an overall airlock leakage test at P<sub>a</sub>, 56.2 psig, and by verifying that the overall airlock leakage rate is within its limit. (Per occupational exposure considerations.)

4.6.1.3.1 When both equipment hatch personnel airlock doors are opened simultaneously, verify the following conditions:

- a. The capability exists to expeditiously close at least one airlock door.
- b. The airlock doors and containment purge are configured to restrict the outflow of air in accordance with procedures approved pursuant to Tech Spec 6.8.2.

- c. The airlock doors are cycled to ensure mechanical operability within seven days prior to opening both doors.

#### Internal Pressure

- 4.6.1.4 The primary containment internal pressure shall be determined to within the limits at least once per 12 hours.

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