GPU Nuclear

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, October 22, 1992
C321-92-2280

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Dear Sir:

Subject: Oyster Creek Nuclear Generating Station
Docket No. 50-219
Station Blackout

Reference: GPU Nuclear Letter C321-92-2192, dated July 14, 1992
Response to Supplemental Safety Evaluation
Report - Station Blackout

In the above reference, GPU Nuclear committed to revise the control room heat-up analysis for a loss of ventilation condition during a station blackout (SBO) event. The purpose was to demonstrate, under certain assumed initial conditions, that the control room temperature would be 120°F or less at the end of the first hour into the SBO event. This, together with the availability of AAC within 1 hour, would obviate the need to open control room cabinet doors during the first 30 minutes of the event, or to procedurally monitor the control room temperature during normal operation to ensure it does not exceed 75°F.

The revised control room heat-up analysis used five different initial control room temperatures. These varied between 75°F and 95°F, at 5°F intervals. For each of these, the outdoor temperature was assumed to be 89°F (plant design basis) and 106°F (maximum recorded temperature). The surrounding room temperatures for all cases varied between 104°F and 120°F. The analysis also assumed normal control room heat loads during plant operation, which is conservative during an SBO, and one-half the control room lights off.

The results of the revised analysis indicate that at the end of the first hour, with an initial control room temperature of 95°F and an outdoor temperature of 106°F, the temperature in the control room is 112°F.

This calculated 112°F is considered conservative for the following reasons:

1. The control room temperature is normally maintained at 75 ± 5°F.

2. The 106°F assumed outdoor temperature rarely occurs.

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3. The control room heat loads would be significantly reduced during an SBO event.

Since the control room temperature at the end of the first hour into the SBO event has been conservatively established to be below 120°F, there is no need for GPU Nuclear to open control room cabinet doors during the SBO event or to procedurally ensure that the control room temperature does not exceed 75°F during normal operation.

It is our understanding that this letter serves to close out the NRC open issue related to the control room loss of ventilation.

Sincerely,

for J. J. Barton
Director, Oyster Creek

JJB/EP:lqa

cc: Administrator, Region I
Senior Resident Inspector
Oyster Creek NRC Project Manager