U-601410
L30-89(04-04)-LP
1A.120

ILLINOIS POWER COMPANY

CLINTON POWER STATION, P.O. BOX 678, CLINTON, ILLINOIS 61727

April 4, 1989

10CFR50.36

Docket No. 50-461

Document Control Desk
Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Clinton Power Station Report on Containment Purge Operational Data Gathering and Evaluation Program and Proposed Containment Purge Criteria

Dear Sir:

Attached is Illinois Power Company's (IP) report which presents the results of the Containment Purge Operational Data Gathering and Evaluation Program and the proposed containment purge criteria for the Clinton Power Station (CPS). This report satisfies the requirement in Section 6.2.4.1 of Supplement 5 to the Clinton Safety Evaluation Report (NUREG-0853) (SSER 5). Section 6.2.4.1 requires IP to provide the NRC staff, before startup after the first refueling outage, with a reevaluation of the need to use the containment purge systems during plant operational modes 1, 2, and 3 and with criteria for purge operation which will be used for the remainder of the plant life.

Data on plant operation related to containment purging were gathered through the first fuel cycle. IP believes that the data collected support purging operation as follows:

No containment ventilation or purge isolation valves shall be open while purging the drywell.

The large (36-inch) containment building ventilation system and the small (12-inch) continuous containment purge system shall not be operated simultaneously.

The large (36-inch) containment building ventilation system shall not be operated over 250 hours per year in modes 1, 2, or 3.

There are no other restrictions on operation of the small (12-inch) continuous containment purge system.

A034
1/1

U-601410
L30-89(04-04)-LP
1A.120

These proposed containment purge criteria are based on ALARA savings of 160 man-REM over the life of the plant with minimal risk to the health and safety of the public. These proposed criteria also result in optimum reliability of the purge valves because of reduced cycling for containment pressure control. A more detailed justification is attached.

CPS will begin to implement the new criteria at the start of the second fuel cycle. Please contact me if there are any questions or comments regarding this information.

Sincerely yours,

D. L. Holtzscher

D. L. Holtzscher
Acting Manager -
Licensing and Safety

PEW/pgc

Attachments

cc: NRC Resident Office
NRC Region III, Regional Administrator
NRC Clinton Licensing Project Manager
Illinois Department of Nuclear Safety