

TIC

DUKE POWER COMPANY  
POWER BUILDING  
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

September 7, 1979

79 SEP 14 A 8 54  
USNRC REGION III  
ATLANTA, GA 30333  
TELEPHONE AREA 704 377-4083

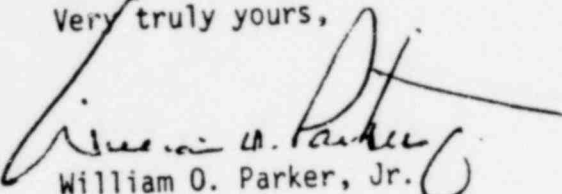
Director, Division of Reactor Construction Inspection  
United States Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Washington, DC 20555

Subject: Catawba Nuclear Station  
Docket Nos. 40-413 and 50-414  
IE Bulletin 79-15

Dear Sirs:

Enclosed is Duke Power's response to IE Bulletin 79-15 for the Catawba Nuclear Station.

Very truly yours,

  
William O. Parker, Jr.

ROS/sch

Enclosure

cc: Mr. J. P. O'Reilly, Director  
U.S. Nuclear Regulatory Commission  
101 Marietta Street, Suite 3100  
Atlanta, GA 30303



1126 269

7910050357  
Q

790127  
OFFICIAL COPY

CATAWBA NUCLEAR STATION  
Docket Nos. 50-413 & 50-414

Duke Power's Response to USNRC IE Bulletin 79-15

IE Bulletin 79-15 requested six items of information from all holders of Construction Permits. Duke's responses are as follow:

- (1) The number of deep draft pumps utilized in safety related applications in each facility.

There are four such pumps--two per unit--all of which are vertical turbine pumps similar in configuration to those shown in Figure 1 of the referenced Bulletin.

- (2) Manufacturer, model, capacity and plant application.

These pumps were manufactured by Bingham-Willamette, model number 30 x 44C-VTM. Each pump has a capacity of 20,900 GPM at 174' TDH and will be utilized as a Nuclear Service Water Pump.

- (3) Overall Dimensions.

The overall dimensions are 5' x 62'; the pump is 5' x 52' and the motor is 5' x 10'.

- (4) Summary of startup, testing and routine maintenance history.

These pumps have been installed in accordance with approved procedures under supervision of Bingham Field Service personnel. During September 1979, the pumps will be used to flush the Nuclear Service Water System. Subsequent to this, the pumps will be used to flush numerous other systems during plant construction. A detailed maintenance and operation log will be maintained during this period.

- (5) Operational problems and major repair efforts.

These pumps are not yet operational, therefore this information cannot be provided.

- (6) The longest interval that each pump has been available without corrective maintenance.

These pumps are not yet operational, therefore this information cannot be provided.

The following three items provide relevant, supplementary information concerning design and testing performed to improve the reliability of these pumps:

- (1) A witnessed performance test was conducted on each pump at Bingham's test facility prior to shipment. The results of the test, including vibrations, were in accordance with the requirements of the design specification and Hydraulic Institute Standards.
- (2) Supports between the pump and structure walls, which are seismically designed to assure rigid response of the pump assembly, restrain pump column and discharge head movement in two horizontal orthogonal directions.
- (3) Problems that might occur in the pump shaft and bushings have been avoided by isolating these components from the lake water with an enclosing tube within the pump column. A separate clean source of bearing flush and cooling water is introduced into the tube at the pump stuffing box. This water exhausts at the pump's suction.