

DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

TELEPHONE: AREA 704  
373-4083

August 3, 1981

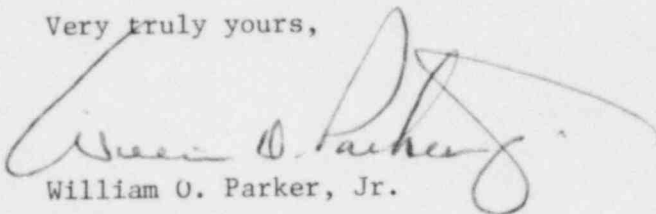
Mr. James P. O'Reilly, Director  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Re: Catawba Nuclear Station  
Unit 1  
Docket No. 50-413

Dear Mr. O'Reilly:

Pursuant to 10 CFR 50.55e, please find attached Significant Deficiency Report  
SD 413/81-15.

Very truly yours,



William O. Parker, Jr.

RWO/php  
Attachment

cc: Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Resident Inspector  
Nuclear Regulatory Commission  
Catawba Nuclear Station



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## CATAWBA NUCLEAR STATION

REPORT NUMBER: SD-413/81-15

REPORT DATE: August 3, 1981

FACILITY: Catawba Nuclear Station, Unit 1

### IDENTIFICATION OF DEFICIENCY:

Five unacceptable linear indications on the body of a Walworth valve.

### INITIAL REPORT:

On July 2, 1981, Mr. Art Johnson of NRC Region II, Atlanta, Georgia was notified of this deficiency by Mr. J. K. Berry, Mr. W. O. Henry, and Mr. M. G. Osteen of Duke Power Company, Charlotte, NC 28242.

### SUPPLIER AND/OR COMPONENT:

The valve in question is a six inch, carbon steel, active, ASME Class 3, electric motor operated gate valve manufactured by Walworth-Greensburg (Serial Number D-63779, Item 2B-235).

### DESCRIPTION OF DEFICIENCY:

During magnetic particle examination of Weld 1CA12-7, five linear indications approximately 3/8 inch long were discovered on the body of the subject valve. Per Walworth's instructions, Duke's Construction Department ground the metal around these indications down to the minimum wall thickness, afterwhich, indications still existed. Reference Nonconforming Item Report Serial Number 12012.

### ANALYSIS OF SAFETY IMPLICATIONS:

This valve passed Walworth's non-destructive examination and shell hydrostatic test. These linear indications became relevant as a result of welding this valve into the pipeline. There has not been a recurring problem with relevant indications on other Walworth valves; therefore, this deficiency is judged to be an isolated case and is not a generic problem. Since the Duke Construction Department has determined that these indications violated the minimum wall thickness, the pressure boundary of this valve is not assured.

### CORRECTIVE ACTION:

Valve Serial Number D-63779 has been replaced by another valve under Item 2B-235. Valve Serial Number D-63779 is presently in warehouse storage as a spare valve. One of the following two courses of action will be implemented prior to use:

1. The valve body will be scrapped and the remaining parts will be used as spare parts.
2. The valve body will be weld repaired per ASME Section III 1971 Edition through the Summer 1973 Addendum to restore the valve to as-new condition.