

Georgia Power Company  
333 Piedmont Avenue  
Atlanta, Georgia 30308  
Telephone 404 526-6526

Mailing Address:  
Post Office Box 4545  
Atlanta, Georgia 30302

L. T. Gucwa  
Manager Nuclear Engineering  
and Chief Nuclear Engineer



the southern electric system  
NED-84-129

March 12, 1984

Director of Nuclear Reactor Regulation  
Attention: Mr. John F. Stolz, Chief  
Operating Reactors Branch No. 4  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

NRC DOCKETS 50-321, 50-366  
OPERATING LICENSES DPR-57, NPF-5  
EDWIN I. HATCH NUCLEAR PLANT UNITS 1, 2  
NUREG-0612, "CONTROL OF HEAVY LOADS AT NUCLEAR POWER PLANTS"

Gentlemen:

A telephone conference involving representatives of the NRC and Georgia Power Company (GPC) took place on February 29, 1984. The subject of the discussion was the design of certain overhead cranes at Plant Hatch relative to the guidelines of NUREG-0612. At the request of the NRC, additional action has been taken to verify certain aspects of overhead crane design at Plant Hatch.

Guideline 7 of NUREG-0612 specifies that the design of overhead cranes should comply with the intent of CMAA Specification 70, "Specifications for Electric Overhead Travelling Cranes". The Plant Hatch Units 1 and 2 (HNP-1&2) Reactor Building Overhead Cranes and the HNP-1 Turbine Building Overhead Crane, which were not designed to CMAA-70, were evaluated in our July 29, 1983 submittal with respect to the CMAA-70 requirements and shown to be equivalent in all areas where design data were available. Data were not available, however, to confirm that drum design, drum groove depth and pitch, and gearbox design met the requirements of CMAA-70. These three design aspects were the specific subjects of the February 29, 1984 discussion.

8403200005 840312  
PDR ADCK 05000321  
P PDR

A039  
1/10

Director of Nuclear Reactor Regulation  
Attention: Mr. John F. Stolz, Chief  
Operating Reactors Branch No. 4  
March 12, 1984  
Page Two

The following facts should remove any doubt as to the quality of the design of the components in question:

1. The cranes in question, including the drums and drum gearboxes, were manufactured in their entirety by P&H Harnischfeger, which is a leader in the industry. The manufacturer was closely involved in the development of CMAA-70.
2. A comparison of EOCI-61, the standard to which the cranes were designed and manufactured, with CMAA-70 showed that all other components evaluated on the cranes were of an equal or greater quality level than required by CMAA-70. Furthermore, the requirements for drum and gearbox design included in CMAA-70 were merely a codification of good engineering and industrial practices in place at the time the Hatch cranes were manufactured.
3. The cranes in question have been in use approximately nine to ten years with no significant problems. This provides strong assurance that the entire cranes were designed and manufactured to meet the required service conditions.

Based on the above, it is our position that the HNP-1&2 Reactor Building Overhead Cranes and the HNP-1 Turbine Building Overhead Crane comply with the intent of CMAA-70 and as such satisfy today's standards relative to crane safety and reliability.

Please contact this office if there are any questions.

Very truly yours,



L. T. Gucwa

JH/mb

xc: J. T. Beckham, Jr.  
H. C. Nix, Jr.  
P. D. Rice  
J. P. O'Reilly (NRC- Region II)  
Senior Resident Inspector