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SCHWENCER,A. Licensing Branch 2

SUBJECT: Informs of electrical safety features incorporated into design & maint of reactor bldg crane.

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July 21, 1983
G02-83-650

Docket No. 50-397

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2
REACTOR BUILDING CRANE -
ELECTRICAL SAFETY FEATURES

As discussed in the telephone conversation of July 15, 1983 between Mr. J. Stacks (Supply System Test & Startup Engineer), Mr. J. Hedges (Supply System Maintenance Engineer) and Mr. J. R. Ridgley of the NRC, the following electrical safety features are incorporated into the design and maintenance of the WNP-2 Reactor Building crane.

1) Loss of any single phase on the power supply to the crane motors (main hoist, auxiliary hoist, trolley & bridge) results in loss of power to the crane controls and automatic setting of the electrical brakes. This feature was successfully tested during the construction load tests.

2) The main load block has redundant lower limit travel switches, equalizer bar travel limit switch, an up travel geared limit switch, a weighted up travel limit switch, and a paddle type limit switch.

3) The auxiliary hoist has redundant up travel and down travel limit switches.

4) Both hoists have load cells with load limit switches.

5) All power to the crane is fused with thermal overloads on each phase.

6) The motor control center feeding the crane is located in the same secondary containment area as the crane.

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7) Whenever motor loads are lifted and reconnected, it is standard practice to "bump" the motor to assure the proper direction of rotation.

8) Plant Maintenance Procedure 10.25.11 requires functional testing of the electrical controls and travel limit switches. This procedure will be implemented prior to each refueling outage and after any significant electrical maintenance.

Should you have any questions, please contact Mr. P. L. Powell, WNP-2 Licensing.

Very truly yours,

GC Sorensen

G. C. Sorensen (Acting)
Manager, Nuclear Safety and Regulatory Programs

JWH/tmh

cc: R Auluck - NRC
JR Ridgley - NRC
WS Chin - BPA
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