

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-261 H. B. Robinson Plant, Unit 2, Carolina Power and Light 05000261  
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SUBJECT: Responds to open items in Sections 2.1.5 & 2.1.8 of draft technical evaluation report re control of heavy loads, in response to NRC 840229 request. Open items concern turbine lifting beam & solid waste handling crane.

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Carolina Power & Light Company

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SERIAL: NLS-84-139

Director of Nuclear Reactor Regulation  
Attention: Mr. Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing  
United States Nuclear Regulatory Commission  
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-261/LICENSE NO. DPR-23  
CONTROL OF HEAVY LOADS

Dear Mr. Varga:

SUMMARY

Carolina Power & Light Company (CP&L) recently received a copy of a draft Technical Evaluation Report (TER) concerning Control of Heavy Loads for the H. B. Robinson Steam Electric Plant Unit No. 2 (HBR2). A telephone conference call was held between members of NRC staff and CP&L on February 29, 1984 to discuss the two open items listed in the TER. The purpose of this letter is to provide the information requested in the conference call concerning the open items.

DETAILS

The open items concern the turbine lifting beam and the solid waste handling crane. They are discussed in Section 2.1.5 and 2.1.8, respectively, of the TER. The details for each are listed below.

2.1.5 Special Lifting Devices (Guideline 4, NUREG-0612, Section 5.1.1(4)1)  
Turbine Lifting Beam

TER Recommendation

The licensee should evaluate the turbine lifting beam for compliance with ANSI N14.6-1978<sup>1</sup>.

CP&L Response

Correspondence from the Turbine Lifting Beam Supplier (Westinghouse) verifies this lifting device has a minimum safety factor of 3 based on yield strength. As discussed in the conference call, the lifting device has been excluded from evaluation since the only equipment of concern for this lifting device are the non-safety related 4160V/480V power supplies which are located directly below the operating deck.

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Carolina Power & Light Company believes that this information, in addition to that in CP&L's previous submittals, shows that the turbine lifting beam meets the intent of Guideline 4 of NUREG-0612<sup>6</sup>.

2.1.8 Crane Design (Guideline 7, NUREG-0612, Section 5.1.1(7)1)  
Solid Waste Handling Crane

TER Recommendation

The licensee must evaluate the solid waste handling crane for compliance with CMAA-70<sup>2</sup> and ANSI B30.2-1976<sup>3</sup> or other appropriate standards.

CP&L Response

This crane consists of a single bridge girder and underhung monorail. Discussions with the manufacturers of the bridge assembly and the hoist have indicated:

- (1) The bridge was designed in accordance with accepted industry standards prior to the existence of CMAA-70 and ANSI B30. Maximum design stresses were limited to 16,000 psi.
- (2) The Philadelphia Tramrail Company (P&H) five (5) ton capacity hoist is the manufacturer's standard (not specifically designed) and meets or exceeds current requirements of HMI-100<sup>4</sup> and/or ANSI B30.16<sup>5</sup>. The hoist is protected by two upper limit switches and one lower limit switch. The upper limit switches consist of one gear type and one paddle type. The paddle type also provides for reverse plugging. The hoist has a minimum safety factor of 5 based on ultimate strength of material.

Carolina Power & Light Company believes that this information, in addition to that in CP&L's previous submittals, shows that the solid waste handling crane meets the intent of Guideline 7 of NUREG-0612<sup>6</sup>.

If you have any further questions on this subject, please contact a member of our Nuclear Licensing staff.

Yours very truly,



S. R. Zimmerman  
Manager

Nuclear Licensing Section

ONH/pgp (97700NH)

cc: Mr. J. P. O'Reilly (NRC-RII)  
Mr. G. Requa (NRC)  
Mr. Steve Weise (NRC-HBR)

#### References

1. ANSI N14.6-1978, "Standard for Special Lifting Devices for Shipping Containers Weighing 10,000 Pounds (4500 kgs) or more for Nuclear Materials."
2. CMAA-70, "Specifications for Electric Overhead Traveling Cranes."
3. ANSI B30.2-1976, "Overhead and Gantry Cranes."
4. HMI-100, "Specification for Electric Wire Rope Hoists."
5. ANSI B30.16, "Overhead Hoists."
6. NUREG-0612, "Control of Heavy Loads at Nuclear Power Plants."