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DMB 016

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Docket File

Docket No. 50-312

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14410 Twin Cities Road  
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Dear Mr. Mattimoe:

SUBJECT: TOWER CRANE USE

Reference 1: SMUD 6-12-81 Letter to NRC  
Reference 2: SMUD 11-10-81 Letter to NRC  
Reference 3: SMUD 12-1-81 Letter to NRC

In the above Reference 1 letter, you indicated that the construction of the new Nuclear Service Electric Building (NSEB) at Rancho Seco required the erection of a tower crane. The crane is located in a position where loads could be carried over the auxiliary building and safe shutdown equipment, including the control room. To prevent movement of loads over safe shutdown equipment, you proposed to use administrative controls. SMUD recognized that this situation represents an unreviewed safety question, and thus requested NRC approval for use of the crane in this manner.

In performing our review, we identified inadequacies in the crane's seismic analysis. Subsequently, you proposed a guy wire restraint system (Reference 2) be attached to the crane to prevent damage to safe shutdown equipment if the crane should collapse during an earthquake. The Reference 3 letter supplied us with additional information on the restraint system analysis.

We have completed our review of your request and hereby approve the use of the tower crane for construction of the NSEB, provided the following conditions are met:

- 1) Upon completion of construction of the NSEB, the tower crane will be dismantled.
- 2) Guy wire restraints are installed on the tower crane in accordance with the design and recommended modifications of Bechtel Power Corporation's November 30, 1981 letter No. BSL-2185 to J. V. McColligan. This letter was transmitted to us via Reference 3.

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- 3) Administrative controls are placed upon crane operation to prohibit the carrying of loads over safe shutdown equipment (including control rod drive transformers and the security system CAS).
- 4) Crane operators will be trained, qualified and conduct themselves in accordance with Chapter 4-3 of ANSI B30.4-1973, "Portal, Tower and Pillar Cranes."
- 5) Load handling instructions will be developed and implemented.
- 6) Operating procedures that define safe load travel paths will be developed and implemented.

Enclosed is our Safety Evaluation Report in support of our conclusions. We request that you install the guy wire restraint system as soon as possible. Please address any questions you have to your NRC Project Manager.

Sincerely,

ORIGINAL SIGNED BY  
JOHN F. STOLZ

John F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing

Enclosure:  
SER

cc w/enclosures:  
See next page

OFFICE	ORB#4:DL	C ORB#4:DL					
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Sacramento Municipal Utility  
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Rancho Seco, Docket No. 50-312

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Sacramento Municipal Utility  
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