SACRAMENTO MUNICIPAL UTILITY DISTRICT ☐ 6201 S Street, Box 15830, Sacramento, California 95813: (916) 452-

August 10, 1973

Mr. R. H. Engelken
Director of Regulatory Operations
U. S. Atomic Energy Commission
P. O. Box 1515
Berkeley, California 94701

Dear Mr. Engelken:

Bulletin No. 73-2 - Malfunction of Containment Purge Supply Valve Switch

A design review of the control circuit for the reactor building containment ventilation system isolation valves installed at Rancho Seco Nuclear Generating Station, Unit No. 1, has been performed. The review verified that the failure of a single control switch could not result in the simultaneous failure of the redundant supply valves or the redundant exhaust valves.

With respect to the containment purge valves, the design concept is to have a motor-operated valve (MOV) on the inside of the reactor building and a pneumatically-operated (air-to-open) valve on the outside of the reactor building. This design concept is utilized for both the purge inlet duct and the purge outlet duct. In addition, the internal MOV is electrically connected to bus "A" and the external pneumatically-operated valve is electrically connected to an independent 125-volt direct-current source. Each of the four valves is connected to and controlled by an independent switch.

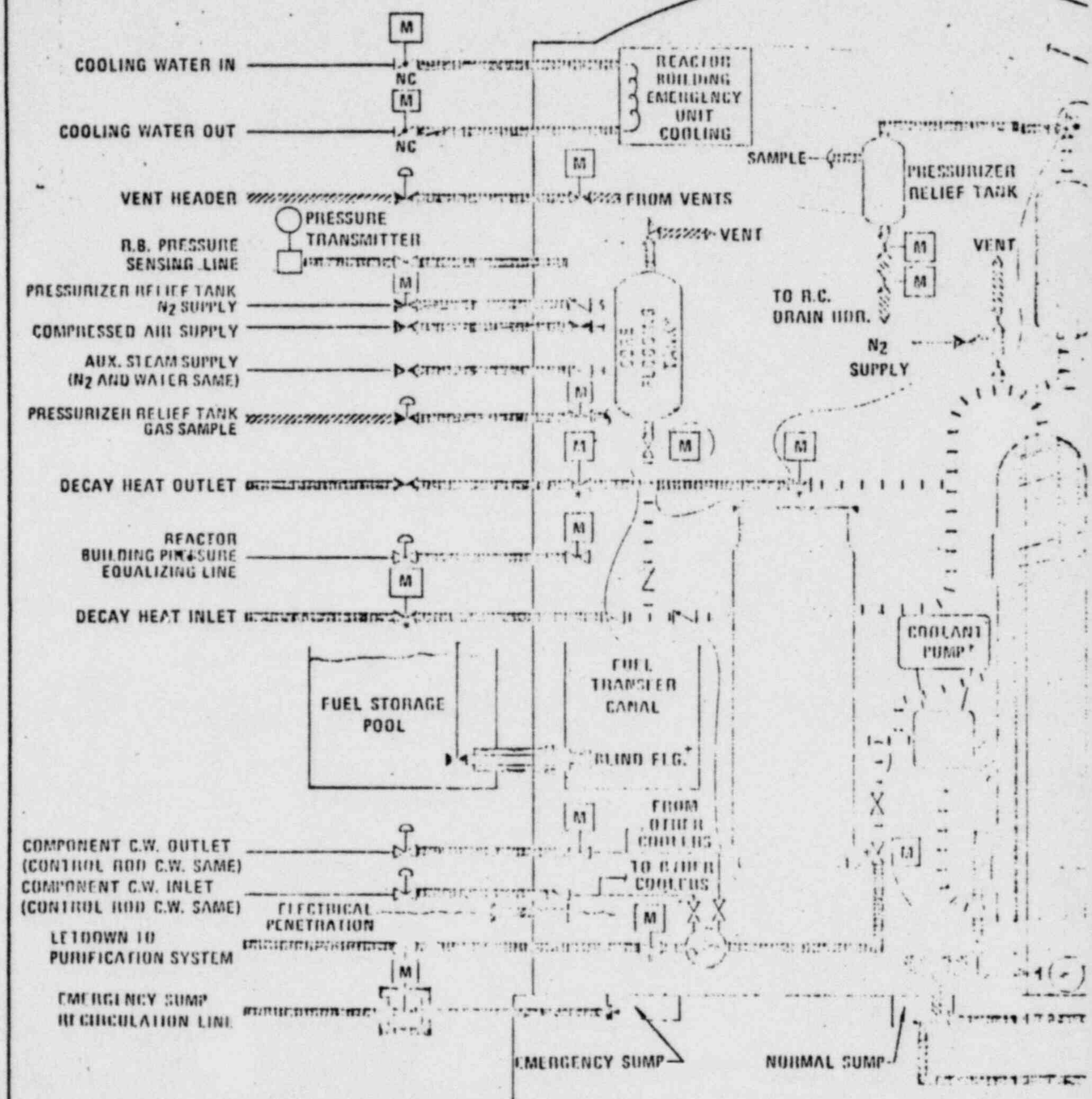
The attached Code Application Diagram is a good illustration of the Rancho Seco control circuit for the reactor building.

Very truly yours,

J. J. Mattimoe

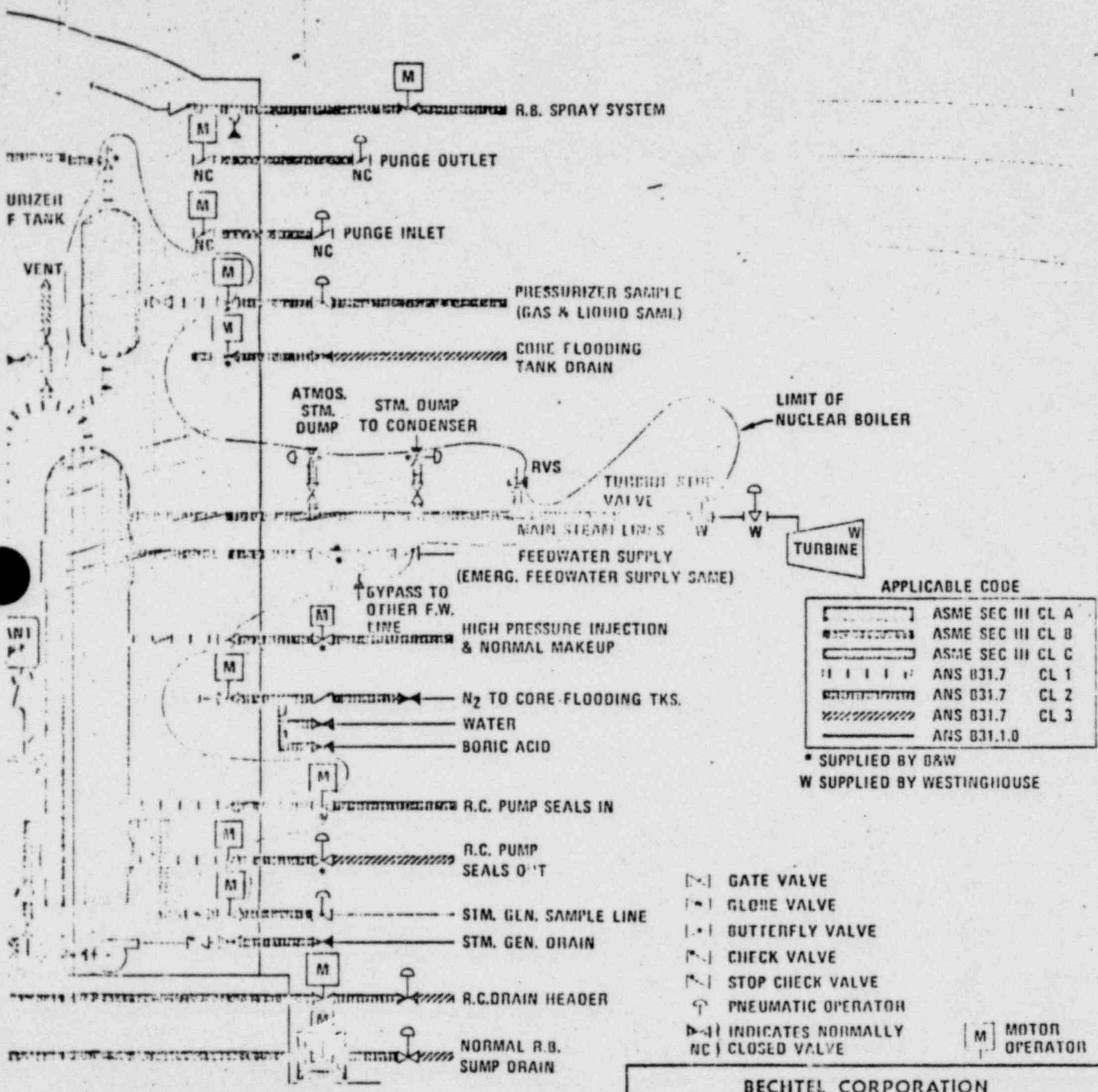
J. J. Mattimoe
Assistant General Manager
and Chief Engineer

8003 270 760



NOTE 1: WHERE THE CODE CHANGES AT A VALVE, THE MORE STRINGENT REQUIREMENT SHALL EXTEND THROUGH THE VALVE DISC. VALVES WHOSE MORE STRINGENT REQUIREMENT IS REFERRED TO ASME SECTION III CLASS A, B OR C OR TO B31.7 CLASS I, II OR III SHALL BE IN ACCORDANCE WITH THE DRAFT CODE FOR PUMPS AND VALVES FOR NUCLEAR POWER CLASS I, II OR III, RESPECTIVELY. SAFETY VALVES WILL BE AS REQUIRED BY THE APPLICABLE VESSEL CODE

NOTE 2: PUMPS AND VALVES WHICH WERE COMPLY WITH REQUIREMENTS OF T FOR NUCLEAR POWER. MIGHTS ST PROCURED WITH QA TO THE APPRO CLASSIFICATION



ES WHICH WERE PURCHASED PRIOR TO JAN., 1970 DO NOT
UIREMENTS OF THE ASME CODE FOR PUMPS AND VALVES
/FR. MIGH'S STANDARD PUMPS AND VALVES HAVE BEEN
A TO THE APPROPRIATE ASME III OR ANSI-B31.7

BECHTEL CORPORATION

LOS ANGELES — SAN FRANCISCO — NEW YORK

SACRAMENTO MUNICIPAL UTILITY DISTRICT
RANCHO SECO NUCLEAR STATION – UNIT 1

CODE APPLICATION DIAGRAM

REVISED		
REVISED		
ISSUED FOR INVITATION W/ ADDENDUM 2		
REVISIONS		

JOB – 6292-001

SK 6292-M-336

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