

SNUPPS

Standardized Nuclear Unit
Power Plant System

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Nicholas A. Petrick
Executive Director

September 18, 1981

SLNRC 81-107 FILE: 0278
SUB: Pump and Valve Test Program

✓ Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555



Docket Nos. STN 50-482, STN 50-483, and STN 50-486

Ref: SLNRC 81-89, dated September 5, 1981, same subject

Dear Mr. Denton:

The referenced letter provided the Callaway Unit 1 pump and valve test program and explained the similarity to that for Wolf Creek. In discussions with the NRC's Mechanical Engineering Branch, it was learned that some changes to the program were required. The attachment to this letter provides revised pump relief request no. 2 and revised valve relief requests nos. 1, 6, 7, 8, and 9. In addition, a new page (128A) has been added to include four check valves in the compressed air system. These changes are applicable to both Callaway Unit 1 and Wolf Creek.

Very truly yours,

N. A. Petrick
Nicholas A. Petrick

RLS/jdk
Attachment

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PUMP RELIEF REQUEST NO. 2

SYSTEM: Emergency Fuel Oil System

COMPONENT: PJE01A & PJE01B

CLASS: 3

FUNCTION: To provide fuel oil to the standby diesel generators.

TEST REQUIREMENT: Measure bearing temperature and vibration and observe lubricant level.

BASIS FOR RELIEF: These pumps are immersable centrifugal sump pumps located in the emergency fuel oil storage tanks.

ALTERNATE TESTING: Vibration measurements will be made on the connecting piping quarterly.

VALVE RELIEF REQUEST NO. 1

SYSTEM: Auxiliary Feedwater

P&ID No: M-02AL01

COMPONENT: V006
V009
V012
V015

CATEGORY: C

CLASS: 3

FUNCTION: Valves open with differential pressure to provide flow paths from Essential Service Water System to Auxiliary Feedwater Pumps during a DBA. Normally closed.

TEST REQUIREMENT: Exercise the valves every three months.

BASIS FOR RELIEF: The testing of these valves would result in supplying chemically contaminated water to the steam generators and/or the condensate storage tank.

ALTERNATE TESTING: Valves will be cycled manually during refueling.

VALVE RELIEF REQUEST NO. 6

SYSTEM: Accumulator Safety Injection

P&ID NO: M-02EP01

COMPONENT: 8956A through 8956D

CATEGORY: C

CLASS: 1

FUNCTION: Opens with differential pressure to provide flow paths from the accumulators to the reactor coolant system cold legs and the reactor vessel. Normally closed.

TEST REQUIREMENT: Exercise valves once every three months.

BASIS FOR RELIEF: During normal operation, the safety injection system has insufficient head to overcome reactor coolant system pressure. Testing during shut-down increases the probability of a cold over-pressurization event to occur and is therefore in conflict with plant safety.

ALTERNATE TESTING: A partial stroke exercise of the valves will be performed during cool down for refueling.

VALVE RELIEF REQUEST NO. 7

SYSTEM: Containment Spray System

P&ID NO: M-02EN01

COMPONENT: V002
V008

CATEGORY: C

CLASS: 2

FUNCTION: Opens on differential pressure to supply containment spray water to the discharge nozzles in the recirculation mode.

TEST REQUIREMENT: Exercise valves once every three months.

BASIS FOR RELIEF: Valves can not be stroke exercised without violating the integrity of penetration numbers P-13 and P-16.

ALTERNATE TESTING: These valves will be cycled manually in conjunction with the system air test per Technical Specification.

VALVE RELIEF REQUEST NO. 8

SYSTEM: Containment Spray System

P&ID NO: M-02EN01

COMPONENT: V003
V004
V009
V010

CATEGORY: C

CLASS: 2

FUNCTION: Opens with differential pressure to provide flow paths for the containment spray system. normally closed.

TEST REQUIREMENT: Exercise valves once every three months.

BASIS FOR RELIEF: Pumps can only be tested at partial flow (per FSAR section 6.2.2.1.4). Therefore, valves in flowpath can only be tested at partial flow.

ALTERNATE TESTING: Partial flow test the check valves when the spray pumps are tested by recirculation flow back to the RWST.

VALVE RELIEF REQUEST NO. 9

SYSTL Containment Spray System

P&ID NO: M-02EN01

COMPONENT: V013
V017

CATEGORY: C

CLASS: 2

FUNCTION: Opens with differential pressure to provide flowpaths for the containment spray header. Normally closed.

TEST REQUIREMENT: Exercise valves once every three months.

BASIS FOR RELIEF: Normal flowpath cannot be used without discharging containment spray water from the nozzles.

ALTERNATE TESTING: These valves will be partial stroke tested by air flow during the system air test per Technical Specification.

