

DEC 18 1985

MEMORANDUM FOR: Hugh L. Thompson, Jr., Director  
Division of PWR Licensing-A

FROM: Vincent S. Noonan, Director  
PWR Project Directorate #5  
Division of PWR Licensing-A

SUBJECT: SURVEY ON ESSENTIAL SERVICE WATER PUMPS  
(BYRON PROBLEM)

A survey of Westinghouse plants was conducted to determine if there were other plants with a service water system similar to Byron. The Byron service water system, having only two pumps per unit (Unit 2 is not yet operating) is the main contribution to a high melt frequency estimated from recent PRA studies.

The results of the survey are included in the enclosure. None of the Westinghouse operating plants has the immediate problem encountered on Byron. We are planning to request that IE send an Information Notice to all PWRs regarding this issue.

We are currently surveying the B & W and Combustion Engineering plants for the same purpose. Results of this survey will be reported in a future memorandum.

Vincent S. Noonan, Director  
PWR Project Directorate #5  
Division of PWR Licensing-A

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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*Vincent S. Noonan*  
Vincent S. Noonan, Director  
PWR Project Directorate #5  
Division of PWR Licensing-A

## RESULTS OF ESSENTIAL SERVICE WATER SYSTEM

### Plant

### Number of ESW Pumps

Diablo Canyon 1/2

Two per unit, cross-tie between units

Salem 1/2

Six per unit

Summer

Three

Cook 1/2

Two per unit plus shared swing pump

McGuire 1/2

Two per unit, cross-tie between units

Catawba 1/2

Two per unit, cross-tie between units

(Unit 2 pumps operable although Unit 2 not licensed)

Watts Bar 1/2

Four per unit

Sequoyah

Four per unit

Vogtle 1/2

Six per unit

Callaway 1/2

Three per unit (normal SW has two per unit)

Wolf Creek

Three (normal SW has two per unit)

Zion 1/2

Two per unit, cross-tie between units

Yankee Rowe

Two, backup from fire water system (but no RCP seals)

Ginna

Four

Point Beach 1/2

Three per unit

Prairie Island 1/2

Two per unit, cross-tie between units plus third swing pump

Kewaunee

Four

SONGS-1

Two, backup from screenwash pumps and aux. saltwater pump

Trojan

Three

Turkey point 1/2

Three per unit

Robinson 2

Four

Farley 1/2

Five per unit

Beaver Valley 1

Three

North Anna 1/2

Two per unit, cross-tie between units plus aux. SW pumps

Surry 1/2

Two per unit, cross-tie between units

Harris 1

Two plus emergency SW pumps

Indian Point 2/3

Six per unit

Braidwood 1/2

Two, same design as Byron

Comanche Peak 1/2

Two per unit, cross-tie between units

Millstone 3

Four

Seabrook 1/2

Four per unit

South Texas 1/2

Three per unit

Haddan Neck

Four