

May 17, 1985

AEOD/T504

MEMORANDUM FOR: Karl V. Seyfrit, Chief
Reactor Operations Analysis Branch
Office for Analysis and Evaluation
of Operational Data

FROM: Robert G. Freeman, Engineer
Reactor Systems Section 2
Reactor Operations Analysis Branch
Office for Analysis and Evaluation
of Operational Data

SUBJECT: TECHNICAL REVIEW REPORT: "LOSS OF INSTRUMENT AIR
AND SUBSEQUENT PRESSURE TRANSIENT"

Distribution

PDR* ✓ SRubin
ROAB SF MChiramal
ROAB CF KSeifrit
RFreeman TIPPOLITO
DZukor CHeltemes
RTripathi
HOrnstein
WLanning

The subject Technical Review Report is enclosed for your information.

On July 16, 1984, with Callaway Unit 1 in cold shutdown, a pressure transient occurred in the reactor coolant system (RCS) as a result of a loss of instrument air. The loss of instrument air caused the charging pump to fail to full speed, and isolated normal letdown. A review of the chemical and volume control system (CVCS) with respect to the loss of instrument air revealed that this is a design failure mode (i.e., maximum charging and isolated letdown) for most Westinghouse CVCS designs.

Because this is an analyzed event in Callaway's Final Safety Analysis Report and pressure mitigating systems were available and mitigated the event, it is concluded that adequate RCS pressure boundary protection was maintained during this event. Since this event involved a loss of instrument air which resulted in an adverse systems interaction during low temperature plant conditions, this event will be included as a part of the AEOD air systems study. No further action on this event is deemed necessary.

151

Robert G. Freeman, Engineer
Reactor Systems Section 2
Reactor Operations Analysis Branch
Office for Analysis and Evaluation
of Operational Data

Enclosure:
As stated

8506070530 850517
PDR ADDCK 05000483
S PDR

50-483

OFFICE	ROAB	SC:ROAB	C:ROAB	DD:AEOD			
SURNAME	RFreeman:jz	KSeifrit	WLanning	TIPPOLITO			
DATE	05/16/85	05/16/85	05/16/85	05/17/85			