

208/23/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL

50-387,388

REC: GRIER B H
NRC

ORG: CURTIS N W
PA PWR & LIGHT

DOC DATE: 08/15/78
DATE RCVD: 08/22/78

DOCTYPE: LETTER NOTARIZED: NO

COPIES RECEIVED
LTR 1 ENCL 0

SUBJECT:
FURNISHING CORRECTIVE ACTIONS RE CONSTRUCTION DEFICIENCY INTERIM REPT
INVOLVING THE FAILURE OF CERTAIN TYPES OF ANCHOR/DARLING TILTING DISC CHECK
VALVES TO CLOSE BY GRAVITY WHEN SUCH VALVES ARE INSTALLED IN A VERTICAL RUN
OF PIPING.

PLANT NAME: SUSQUEHANNA - UNIT 1
SUSQUEHANNA - UNIT 2

REVIEWER INITIAL: XJM
DISTRIBUTER INITIAL: *[Signature]*

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

NOTES:

SEND I&E 3CYS FSAR & ALL AMDTS

CONSTRUCTION DEFICIENCY REPORT (10CFR50.55E)
(DISTRIBUTION CODE B019)

FOR ACTION: ASST DIR VASSALLO**LTR ONLY(1) BR CHIEF LWR#3 BC**LTR ONLY(1)
PROJ MGR MINER**LTR ONLY(1) LIC ASST LWR#3 LA**LTR ONLY(1)

INTERNAL: REG FILE**LTR ONLY(1) NRC PDR**LTR ONLY(1)
I & E**LTR ONLY(2) OELD**LTR ONLY(1)
GOSSICK & STAFF**LTR ONLY(1) MIPC**LTR ONLY(1)
DIRECTOR DPM**LTR ONLY(1) DEPUTY DIR DPM**LTR ONLY(1)
QAB**LTR ONLY(1) DIRECTOR DSS**LTR ONLY(1)
AD FOR ENG**LTR ONLY(1) AD FOR REAC SFTY**LTR ONLY(1)
AD FOR PLANT SYSTEMS**LTR ONLY(1) AD FOR SYS & PROJ**LTR ONLY(1)
SD**LTR ONLY(1) K SEYFRIT/IE**LTR ONLY(1)
FERD DREHER/IE**LTR ONLY(1)

EXTERNAL: LPDR'S
WILKES BARRE, PA**LTR ONLY(1)
TERA**LTR ONLY(1)
NSIC**LTR ONLY(1)
ACRS CAT B**LTR ONLY(16)

DISTRIBUTION: LTR 41 ENCL 0
SIZE: 2P

CONTROL NBR: 782340187

***** THE END *****

MA 1
SD

NORMAN W. CURTIS
Vice President-Engineering & Construction
821-5381

August 15, 1978

Mr. Boyce H. Grier
Director, Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

SUSQUEHANNA STEAM ELECTRIC STATION
FINAL REPORT OF REPORTABLE DEFICIENCY
REGARDING ANCHOR/DARLING TILTING DISK CHECK VALVES
DOCKET NOS: 50-387, 50-388
LICENSE NOS: CPPR-101, CPPR-102
ERs 100450/100508 FILE 840-4
PLA-280

Dear Mr. Grier:

This relates to a deficiency reportable under the provision of 10CFR50.55(e). The initial advisory was given to Mr. Ebnetter, NRC-Region I, by Mr. A. R. Sabol, PP&L, during a telephone conversation on July 12, 1978. The deficiency involves the failure of certain types of Anchor/Darling tilting disc check valves to close by gravity when such valves are installed in a vertical run of piping. The safety implications arise from a system's inability to meet established design criteria by virtue of the inability of such valves to consistently close and thereby perform their intended safety functions.

This condition was initially reported by Anchor/Darling under 10CFR Part 21 as a generic problem. The Anchor/Darling report was submitted to the Office of Inspection and Enforcement (Washington, D.C.) on May 23, 1978 and subsequently became the subject of NRC IE Circular No. 78-15.

An investigation was performed for the Susquehanna Project and it was determined that four (4) 3"-900# tilting disc check valves had the potential for exhibiting the above type of operating failure. These valves have been returned to Anchor/Darling for modifications. Following the successful completion of said modifications, they will be considered acceptable to meet their intended safety functions when installed in vertical piping runs.

782340187

*Borg
8/10*

August 15, 1978

To prevent recurrence, the following steps are being taken:

1. The field has been instructed to test all tilting disc check valves to verify that the disc closes properly when oriented for installation in a vertical pipeline, and
2. The Bechtel Standard Specification will be revised to require that valves will close by gravity when installed in lines with flow vertically upward.

The installation and testing timetable will be commensurate with construction activities.

Very truly yours,



N. W. Curtis
Vice President-Engineering & Construction

ARS:mcb

cc: Mr. J. G. Davis (15)
Acting Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. G. McDonald, Director (1)
Office of Management Information & Program Control
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555