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 AUTH. NAME: CURTIS, N.W. AUTHOR AFFILIATION: Pennsylvania Power & Light Co.
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Forwards addl info re valve accelerations per seismic qualification review team audit of util 811229 submittal.

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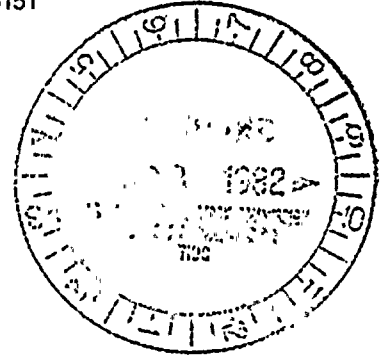
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Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215 / 770-5381

March 5, 1982

Mr. A. Schwencer, Chief
Licensing Branch No. 2
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Docket Nos. 50-387
50-388

SUSQUEHANNA STEAM ELECTRIC STATION
NRC SEISMIC QUALIFICATION REVIEW TEAM (SQRT)
PLANT SITE AUDIT - REQUEST FOR INFORMATION
ER 100450 FILE 841-2
PLA-1030

Dear Mr. Schwencer:

In response to a request from your Dr. Arnold Lee to our Mr. Ray McNamara for additional information concerning our submittal of December 29, 1981, Reference PLA-988, we are transmitting the attached, revised sheets to clarify our previous submittal.

If you have any additional questions, please contact us.

Very truly yours,

N. W. Curtis
Vice President-Engineering and Construction-Nuclear

RWM/mks

Attachment

cc: R. Perch - USNRC

A048
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1/1

SUMMARY OF VALVE ACCELERATIONS

CALCULATION NUMBER: 887-1 REV.1

△ Added OBE CONDITIONS
2-26-8.
ADDED LOAD COMBINATION

| DATA POINT | VALVE NUMBER | VALVE SIZE | VALVE DRAWING NUMBER | SKM # | LINE NUMBER | LOAD Δ COMBINATION | VALVE ACCELERATION | |
|--|--------------|------------|----------------------|-------|-------------|---|--------------------|-------------|
| | | | | | | | ACTUAL (g) # | ALLOW (g) # |
| 127 | HV-F073B | 6" | P12BC-59-5 | 887 | HRC-113 | (SSE ² +SRV ² +Loc ²) | 2.937 | 5.07 |
| 147 | HV-F075B | 6" | P12BC-47 | 887 | GBB-119 | " | 3.181 | 7.33 |
| △ ↓ 127 | HV-F073B | 6" | P12BC-59-5 | 887 | HRC-113 | (OBE ² +SRV ²) ^{1/2} | 2.433 | 3.0 |
| ↓ 147 | HV-F075B | 6" | P12BC-47 | 887 | GBB-119 | " | 2.861 | 3.0 |
| △ * ACTUAL g REPRESENTS WORST CASE DIRECTION ** ALLOWABLE g APPLIED IN EACH OF 3 DIRECTIONS | | | | | | | | |

ATTACHMENT - 1
Sheet 2 of 5
Rev. 1

SUMMARY OF VALVE ACCELERATIONS

CALCULATION NUMBER: 893-1 REV 1

Added OBE
CONDITIONS

2-26-82

ADD LOAD
COMBINATION

| DATA POINT | VALVE NUMBER | VALVE SIZE | VALVE DRAWING NUMBER | SKM # | LINE NUMBER | LOAD COMBINATION Δ | VALVE ACCELERATION | | |
|--|--------------|------------|----------------------|------------|-------------|---------------------------|--------------------|-----------|-----|
| | | | | | | | ACTUAL (A) | ALLOW (B) | |
| 127 | HV-F073A | 6" | P12BC-59-6 | 893 | HRC-113 | (SSE+SRV+Local) | 3.057 | 5.07 | |
| 147 | HV-F075A | 6" | P12BC-47-4 | 893 | G8B-119 | " | 2.856 | 7.33 | |
| Δ ↑ ↓ | 127 | HV-F073A | 6" | P12BC-59-6 | 893 | HRC-113 | (OBE+SRV) | 2.192 | 3.0 |
| | 147 | HV-F075A | 6" | P12BC-47-4 | 893 | G8B-119 | " | 2.175 | 3.0 |
| Δ * ACTUAL \updownarrow REPRESENTS WORST CASE DIRECTION **ALLOWABLE \updownarrow APPLIED IN EACH OF 3 DIRECTIONS | | | | | | | | | |

ATTACHMENT-1
Sheet 3 of 5
Rev. 1

REVISED

SUMMARY of VALVE ACCELERATIONS

Added OBE CONDITIONS

CALCULATION NUMBER: SMALL PIPE

ADDED LOAD COMBINATION

△

*ACTUAL Δ REPRESENTS WORST CASE DIRECTION,
 ALLOWABLE Δ APPLIED IN EACH OF 3 DIRECTIONS, *SEE ATTACHED GRAPH ON SH. 5

| PID | VALVE NUMBER | VALVE SIZE | VALVE DRAWING NUMBER | SKM # | LINE NUMBER | LOAD Δ COMBINATION | VALVE ACCELERATION | |
|-------|--------------|------------|-------------------------|-------|-------------|---|----------------------|----------------------|
| | | | | | | | ACTUAL (Δ)* | ALLOW (Δ)** |
| 126 | HU-12603 | 2" | P14BC (MOTOR OPER.) | 6071 | HCB-129 | (SSETS RV ² Loc ²) | 5.6 | 8 |
| 149 | HU-F025 | 1" | J69 (SOLENOID OPERATED) | 5543 | DBB-109 | | 4.919 | 6 |
| 149 | HU-F026 | 1" | " | 5543 | " | | 4.919 | 6 |
| 155 | HU-F028 | 1" | " | 5540 | DBB-114 | | 4.919 | 6 |
| 155 | HU-F029 | 1" | " | 5540 | " | | 4.919 | 6 |
| 126 | PSU-12643 | 1" | M-159 (RELIEF VALVE) | 5471 | HCC-140 | | 4.919 | 52*** |
| 126 | PSU-12648 | 1" | " | 5428 | HCC-139 | ↓ | 4.919 | 52 |
| △ 126 | HU-12603 | 2" | P14BC (MOTOR OPER.) | 6071 | HCB-129 | (OBE ² SRV ²) | 0.94 | 3 |

ATTACHMENT-1

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