

WOLF CREEK

NUCLEAR OPERATING CORPORATION

Bart D. Withers
President and
Chief Executive Officer

September 1, 1988

W. 88-0214

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-137
Washington, D. C. 20555

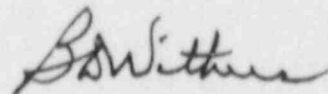
Reference: Letter dated August 15, 1988 from P. W. O'Connor, NRC,
to B. D. Withers, WCNOG
Subject: Docket No. 50-482: Pump and Valve Inservice Testing
Program Relief Request

Gentlemer:

The purpose of this letter is to provide the additional information requested in the Reference. This information was requested to support the Staff review of the Pump and Valve Inservice Testing Program Relief Request No. 11.

A copy of this response is also being provided to Mr. H. C. Rockhold of EG&G Idaho, Inc. If you have any questions concerning this submittal, please contact me or Mr. O. L. Maynard of my staff.

Very truly yours,



Bart D. Withers
President and
Chief Executive Officer

8809070338 880901
PDR ADOCK 05000482
P PNU

BDW/jad

Attachments (4)

cc: B. L. Bartlett (NRC), w/a
D. D. Chamberlain (NRC), w/a
R. D. Martin (NRC), w/a
T. K. McLellan (NRC), w/a
P. W. O'Connor (NRC), w/a (2)
H. C. Rockhold (EG&G), w/a

**RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
RELATED TO RELIEF REQUEST PR-11**

1. Attachment 2 provides the manufacturer's pump curve for fuel pool cooling pump 01A. The manufacturer's pump curve for fuel pool cooling pump 01B is identical.
2. Attachment 3 provides in table format the reference differential pressure (d/p) versus actual d/p data which is used to trend the pump test data. The reference d/p is obtained during surveillance testing by measuring the flow rate then obtaining the d/p from the WCGS fuel pool cooling pump curves in Attachment 4.

The pump curves in Attachment 4 were the curves used to obtain the reference values provided in Attachment 3 and the table below. The pump curve for PEC01A was recently revised to more closely reflect the actual pump performance. The pump curve for PEC01B was recently revised as a result of replacement of the pump impeller.

3. The design flow value of 32,500 gpm given in letter dated June 29, 1988 was a typographical error. The correct value is 3,250 gpm.
4. Attachment 4 provides the WCGS specific fuel pool cooling pump curves. These curves are the sets of values which are used to determine the reference value when surveillance testing is conducted on these pumps. The following provides the specific testing conditions during the surveillance testing of these pumps.

PEC01A

<u>Date of Test</u>	<u>Flow (gpm)</u>	<u>Head (psid)</u>	<u>d/p Reference Value</u>	<u>Minimum/Maximum Limits</u>	<u>Proposed Limits</u>
8/26/86	3140	57.8	55.8	50.2/57.5	60.3
11/25/85	3200	58.0	55.3	49.8/57.0	59.7
2/24/87	3040	57.7	56.8	51.1/58.5	61.3
5/25/87	3160	56.7	55.7	50.1/57.4	60.2
8/26/87	3180	59.0	55.4	49.9/57.1	59.8
10/20/87	3220	56.6	54.9	49.4/56.6	59.3
1/19/88	3170	56.5	55.5	50.0/57.2	60.0
4/19/88	3160	57.0	56.0	50.4/57.7	60.5

PEC01B

<u>Date of Test</u>	<u>Flow (gpm)</u>	<u>Head (psid)</u>	<u>d/p Reference Value</u>	<u>Minimum/Maximum Limits</u>	<u>Proposed Limits</u>
8/29/86	3200	57.7	56.2	50.4/57.9	60.5
10/10/86	3140	60.3	57.4	51.7/59.1	62.0
1/09/87	3200	58.5	56.2	50.6/57.9	60.7
4/11/87	3080	58.3	58.4	52.6/60.2	63.1
7/11/87	3220	57.5	55.7	50.1/57.4	60.2
10/30/87	3240	55.5	55.3	49.8/57.0	59.7
11/02/87	3160	59.0	57.2	51.5/58.9	61.8
2/17/88	3100	58.2	58.0	52.2/59.7	62.6
5/13/88	3130	55.2	57.5	51.8/59.2	62.1

5.	<u>Pump Name</u>	<u>Flow (gpm)</u>	<u>Head (psid)</u>
	PEC01A	3250	54 (124 ft.)
	PEC01B	3250	54 (124 ft.)

The values above are the Fuel Pool Cooling pump design parameters provided in Table 9.1-5 of the Updated Safety Analysis Report.

10466-11-004-004-01

A-27735

CHARACTERISTIC CURVE
CERTIFIED TEST DATA
GOULDS PUMPS, INC.
SENECA FALLS, N.Y.

STANDARDIZED NUCLEAR UNIT
POWER PLANT SYSTEM
FUEL-COOL COOLING PUMP



GOULDS PUMPS, INC.
ENGINEERED PRODUCTS DIV.
SENECA FALLS, N.Y. 13148

J.R. Hill 8-22-80

W.E. Mitchell 8/22/80

CUSTOMER KANSAS GAS & ELECTRIC CO.

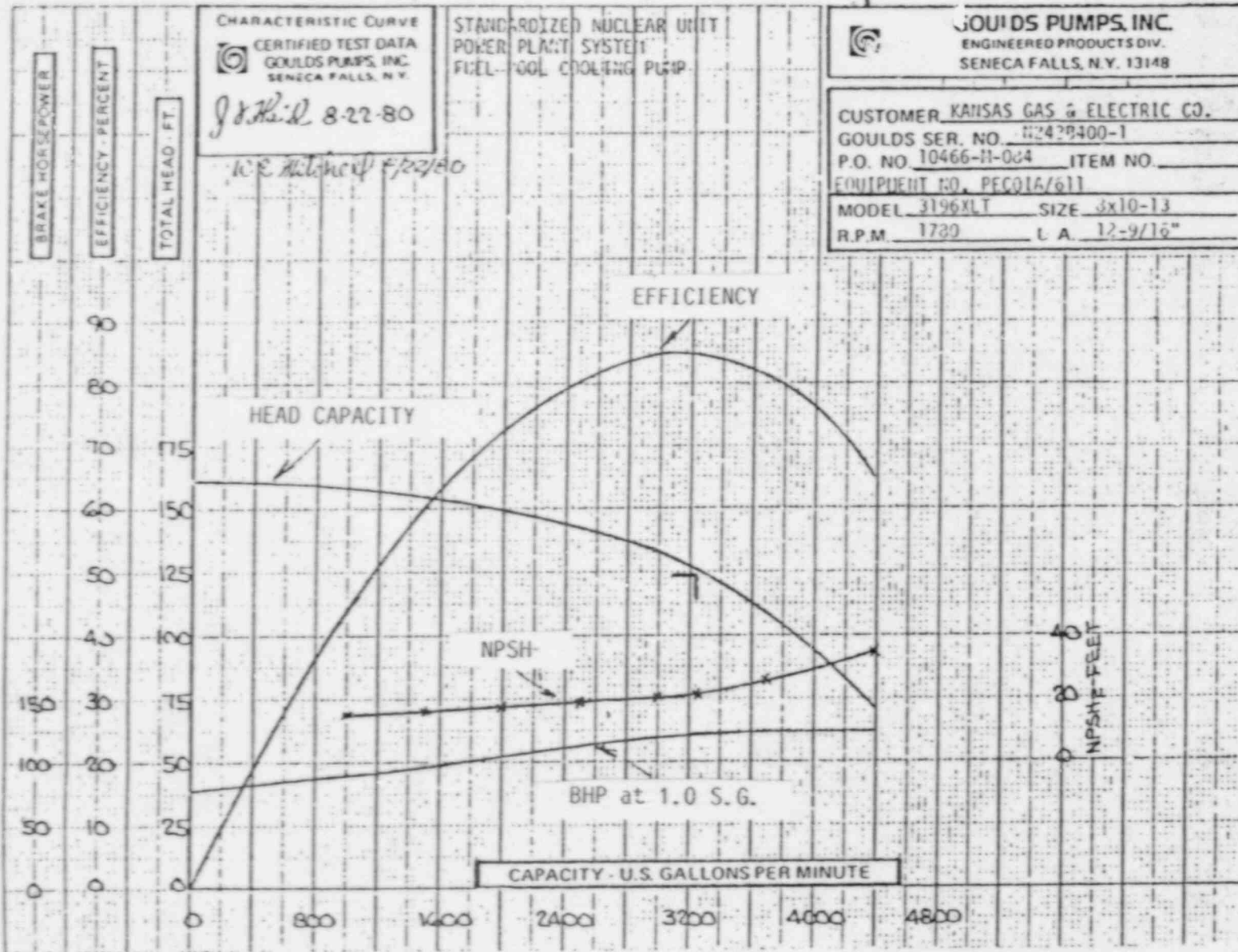
GOULDS SER. NO. 112429400-1

P.O. NO. 10466-11-004 ITEM NO. _____

EQUIPMENT NO. PEC01A/611

MODEL 3196XLT SIZE 3x10-13

R.P.M. 1730 L.A. 12-9/16"



SPENT FUEL POOL COOLING PUMP A (PEC01A)

Date of Test	Reference D/P	Actual D/P	% of Reference D/P
8-26-86	55.8	57.8	103.6%
11-25-86	55.3	58.0	104.9%
2-24-87	56.8	57.7	101.6%
5-25-87	55.7	56.7	101.8%
8-26-87	55.4	59.0	106.5%
10-20-87	54.9	56.6	103.1%
1-19-88	55.5	56.5	101.8%
4-19-88	56.0	57.0	101.7%

SPENT FUEL POOL COOLING PUMP B (PEC01B)

Date of Test	Reference D/P	Actual D/P	% of Reference D/P
8-29-86	56.2	57.7	102.7%
10-10-86	57.4	60.3	105.1%
1-09-87	56.2	58.5	104.1%
4-11-87	58.4	58.3	99.8%
7-11-87	55.7	57.5	103.2%
10-30-87	55.3	55.5	100.4%
11-02-87	57.2	59.0	103.1%
2-13-88	58.0	58.2	100.3%
5-13-88	57.5	55.2	96.2%

