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 AUTH.NAME AUTHOR AFFILIATION
 VAN BRUNT,E.E. Arizona Nuclear Power Project (formerly Arizona Public Serv
 RECIP.NAME RECIPIENT AFFILIATION
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SUBJECT: Forwards info re preliminary investigation of reactor
 coolant pump shaft.

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Arizona Nuclear Power Project

P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

161-00957-EEVB/JRP
April 20, 1988

Docket No. STN 50-529

U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

ATTN: Document Control Desk

Dear Sir:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 2
Reactor Coolant Pump Shaft - Preliminary Investigation
File: 88-001-419.1; 88-C-056-026

In a telephone call on April 18, 1988, Mr. E. A. Licitra of your staff requested ANPP provide preliminary results of ongoing investigations on the PVNGS Unit 2 Reactor Coolant Pumps (RCP) shafts. The Unit 2 RCP shafts were visually and wet fluorescent magnetic particle examined for evidence of cracks. The examinations were conducted by ANPP Engineering and Engineering Evaluations personnel. The methods are the same used in Unit 1 RCP shaft examinations.

Table 1 contains the operational hours and the preliminary inspection results of the Unit 2 RCP shafts. Figures 1 through 4 show the locations of the crack indications by use of magnetic particle examination. Please note that the information presented here is preliminary, the destructive examinations have not been completed on the RCP shafts and the crack indications depths are not exact.

Should you have any questions please call.

Very truly yours,

E. E. Van Brunt, Jr.
Executive Vice President
Project Director

EEVB/JRP/lr
Attachments

cc: J. G. Haynes all w/a
G. W. Knighton
E. A. Licitra
M. J. Davis
J. B. Martin
T. J. Polich

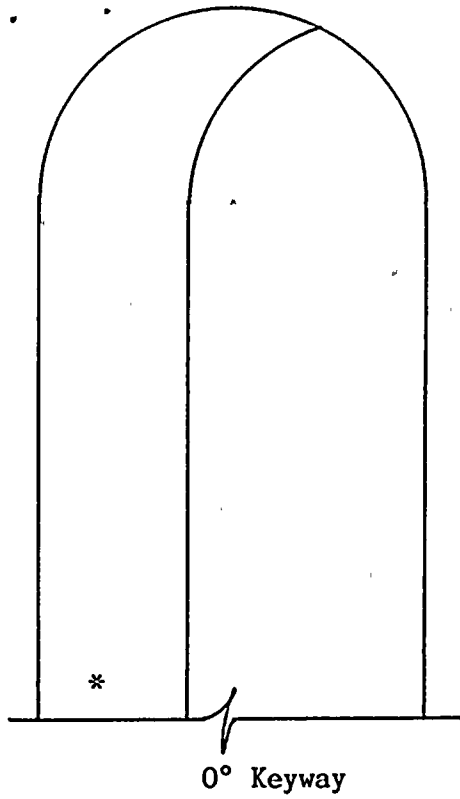
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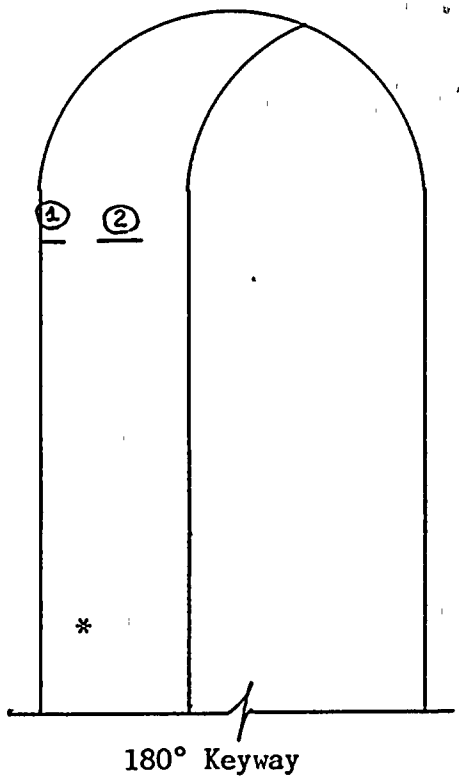
TABLE 1

Pump Number	Approximate Hours Operation	Keyway	Depth millimeters	Measurement Method
1A	15,900	0° 180°	0 1.6*	Wet fluorescent magnetic particle exam (MT) downside of keyway
1B	15,800	0° 180°	0 0	
2A	15,200	0° 180°	0 12.7	
2B	15,100	0° 180°	1.6 1.6	

* Dimension shown is the length of the indication along the side of the keyway.



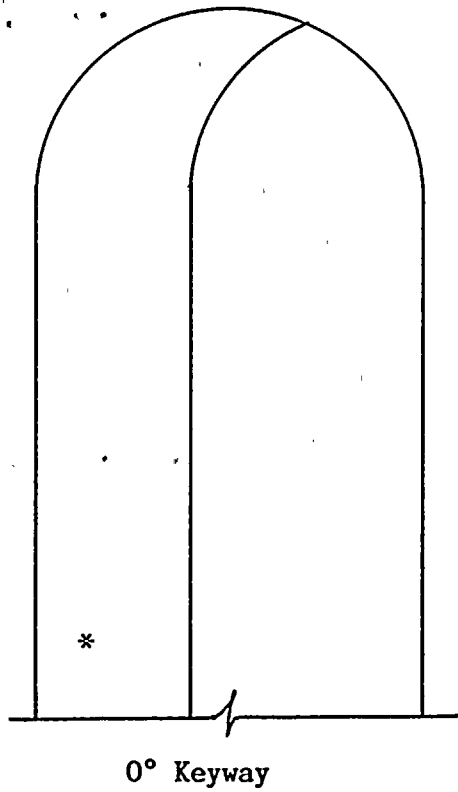
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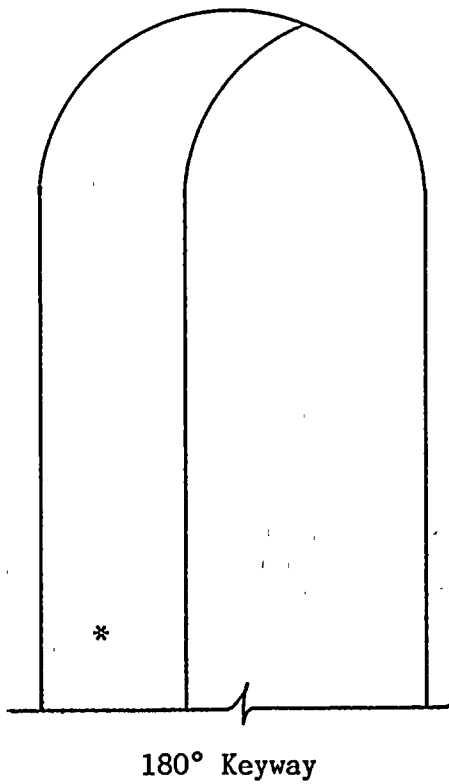
- #1 Length & Depth = $\frac{1}{64}$ "
Location = $1 \frac{1}{16}$ " from top of keyway
- #2 Length = $\frac{1}{16}$ "
Depth = $\frac{3}{16}$ " down
Location = $1 \frac{1}{16}$ " from top of keyway

Figure 1

* Indicates Loaded Side



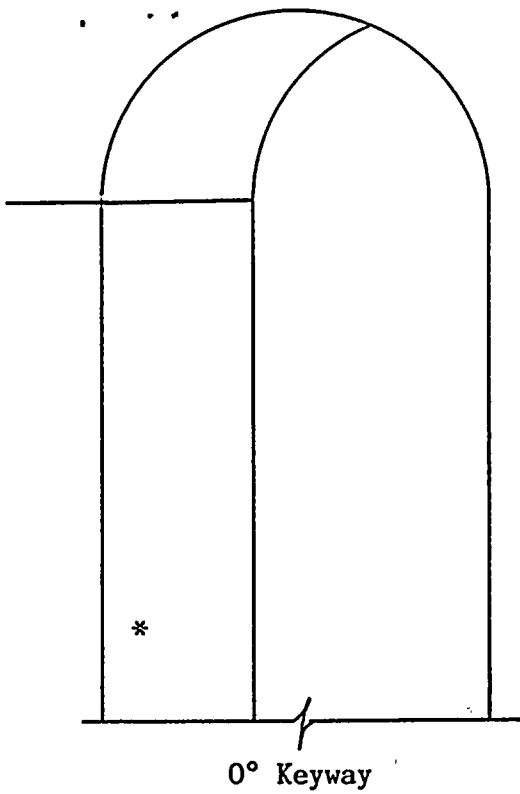
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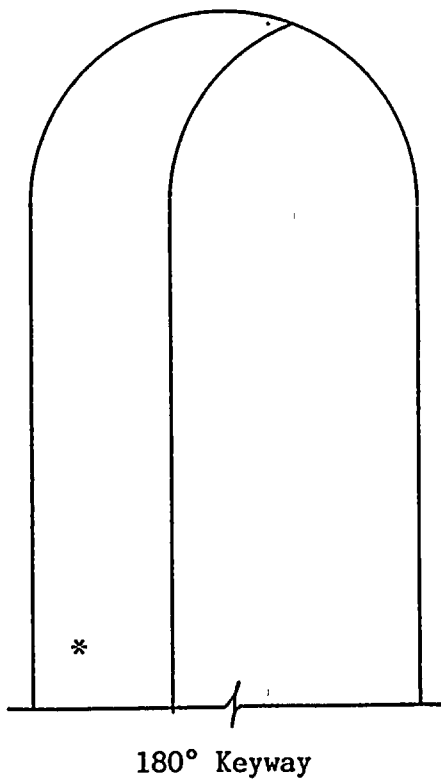
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Figure 2

* Indicates Loaded Side



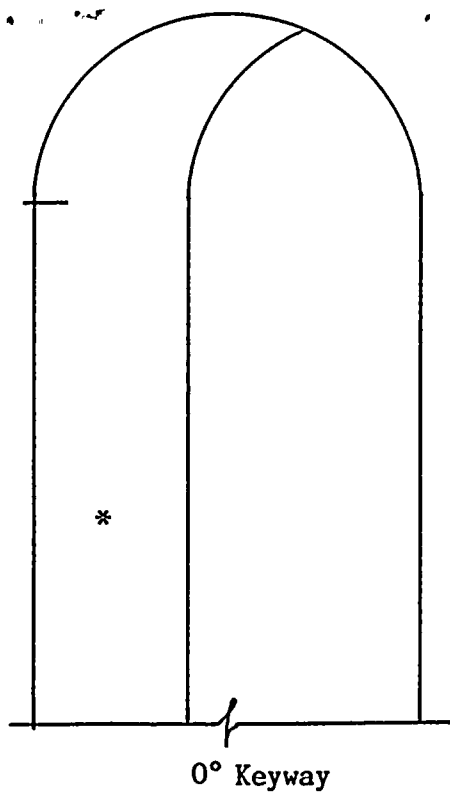
Length = 1"
Depth = to bottom of keyway
Location = 7/8" from top of keyway



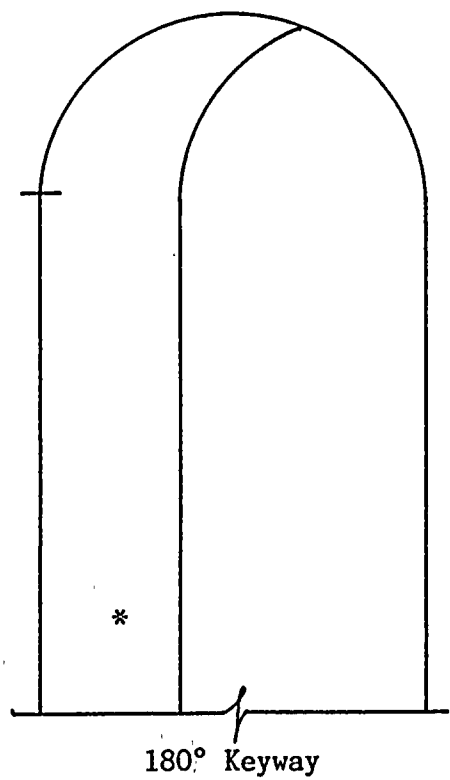
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Figure 3

* Indicates Loaded Side



Length = $1/8''$
 Depth = $1/16''$
 Location = $1 \frac{3}{16}''$ from top of keyway



Length = $5/16''$
 Depth = $1/16''$
 Location = $1 \frac{3}{16}''$ from top of keyway

Figure 4

* Indicates Loaded Side