Alabama Power Company 600 North 18th Street Post Office Box 2641 Birmingham, Alabama 35291 Telephone 205 323-5341

F. L. CLAYTON, JR. Senior Vice President Alabama Power

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the southern electric system

December 18, 1979

Docket Nos. 50-348 and 50-364 NRC IE Bulletin 79-15

Office of Inspection and Enforcement U. S. Nuclear Regulatory Commission Washington, D.C. 20555

Attn: Director, Division of Reactor Construction Inspection

Dear Sir:

In response to IE Bulletin 79-15, Deep Draft Pump Deficiencies, Alabama Power Company submitted a letter dated July 18, 1979. Our response stated that we did not have any of the pumps in use at Farley in the listed systems. Subsequent to that response, further review has determined that Farley Plant has deep draft pumps similar to those identified by the bulletin in safety related application. Attached is our supplemental response to IE Bulletin 79-15 addressing the items requested for these pumps.

Yours very truly,

F. L. Clayton Jr.

FLCJr/JGS:bhj

Attachment

cc: Mr. R. A. Thomas

Mr. G. F. Trowbridge

Mr. M. D. Hunt, Region II (w/Attachment)

Office of Inspection and Enforcement

Reactor Operations Inspection (w/Attachment)

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IE BULLETIN 79-15

 The number of deep draft pumps similar to those shown in Figures 1 and 2 utilized in safety related applications in each facility.

Response: 10 Unit 1

10 Unit 2 (Under Construction)

2. Manufacturer, model, capacity and plant application.

Response:

Unit 1 Unit 2

Manufacturer: Byron Jackson Johnson

Model: 30 KXE, Single Stage 30½ X 18 Type A, 2 Stage 27cc

Capacity: 9750 GPM @ 175 TDH 9750 GPM @ 175 TDH

Plant Application: River Water Makeup River Water Makeup To The

To the Cooling Pond Cooling Pond

Manufacturer: Byron Jackson Johnson

Model: 32 RXL-28 KXL, Two stage 30½ X 18 Type A, 2 Stage 27cc

Capacity: 9000 GPM @ 210 TDH 9000 GPM @ 210 TDH Plant Application: Plant Service Water Plant Service Water

3. Overall dimensions of PUmps.

Response:

	Byron Jackson		Johnson	
	River	Service	River	Service
Total Height:	51'-4 7/8"	45'-2 1/8"	51'-2"	45'-6 1/2"
Pump Height:	45'-9 5/8"	40'-2"		
Min. Submergence:	4'-6"	5'-0"	4'-6"	5'-0"
Pump length below			A T	
floor:	41'-7 5/8"	36'-0"	41'-415"	35'-9"
Dia. of Suction	THE RESERVE OF THE PARTY OF THE			
Bell:	2'-10"	2'-10"	2'-6"	2'-6"
Dia. of Pump				
Column:	20" O.D.	20" O.D.	20" O.D.	20" O.D.

4. Summary of startup, testing, and routine maintenance history.

Response:

Model 30 KXE - BJ River Water Pumps

1766 251

A. River Water Functional and Flush (Startup Preop)

- 1. Flush R.W. lines
- 2. Test Minimum Flow System
- 3. Test Operation of R.W. System
- 4. Test R.W. Pumps

- a. Pump Control Verification
- b. Pump lube and cooling system operation
- c. Pump normal operation
 - (1) Running current for each phase
 - (2) Bus voltage
 - (3) Discharge pressure
 - (4) Discharge flow
 - (5) Dead head pressure
 - (6) Pump vibration
 - (7) Bearing temperatures
 - (8) Motor Winding RTD readings
- 5. Calibration and loop checks
- B. FNP-1-STP-25.1 & 2 (Monthly) Inservice FNP-1-STP-25.3 & 4 (Annual) Inservice
 - 1. Monthly
 - a. Differential pressure measurement
 - b. Upper and lower motor oil reservoir levels
 - c. Mounting flange vibrations
 - 2. Annual
 - a. Differential pressure
 - b. Upper and lower motor oil reservoir levels
 - c. Mounting flange vibrations
 - d. Bearing temperatures
 - Test reviews (monthly)
 - #4 RWP vib. high 12/11/77, 1/11/78, 6/13/78, 9/13/78, 11/18/78, 6/19/79
 - #5 RWP vib. high 6/13/78
 - #2 RWP vib. high 12/15/78
 - #8 RWP vib. high 12/11/77, 12/27/77, 1/13/78, 4/11/78, 4/15/78, 10/2/78, 12/15/78
 - #9 RWP vib. high 6/13/78, 7/20/79, 7/22/79
 - #10 RWP vib. high 9/13/78, 10/17/78
 - 4. Test Reviews (Annual)
 - #8 RWP vib. high 4/15/78
- C. FNP-1-GMP-5.0 Vibration measurements
 FNP-1-GMP-9.0 General pump inspection
 FNP-1-GMP 21.0 Coupling Alignment

1766 252

D. Maintenance History

#4 RWP - packing adjustments & vibration problems

#5 RWP - packing adjustments

#8 RWP - packing adjustments & vibration problems

#9 RWP - packing adjustments
#10 RWP - packing adjustments & vibration problems

Model 32 RXL - 28 KXL - BJ Service Water Pumps

A. Service Water Preop

- 1. Verify pump minimum flow bypass
- 2. Verify design flows for Cold Shutdown conditions
- 3. Verify design flows for normal operation
- 4. Verify individual SW pump design and operation
 - a. Running current for each phase
 - b. Bus voltage
 - c. Discharge pressure
 - d. Pump vibration
 - e. Pump rpm
 - f. Bearing temperature
 - g. Dead head pressure
- 5. Pump lube and cooling system operation

B. FNP-1-STP-24.1 & 2 (Monthly) Inservice FNP-1-STP-24.3 & 4 (Annual) Inservice

1. Monthly

- a. Total Dynamic Head
- b. Upper and lower oil reservoir levels
- c. Flow rate
- d. Mounting flange vibration

2. Annual

- a. Total Dynamic Head
- b. Upper & lower oil reservoir levels
- c. Flow rate
- d. Mounting flange vibration
- e. Bearing temperature
- f. Discharge pressure
- Test reviews (monthly)
 - #1D SWP vib. high 11/18/78
 - #E SWP vib. high 11/18/78, 11/28/78

4. Test reviews (annual)

- No discrepancies
- C. FNP-1-GMP-5.0 Vibration Measurements FNP-1-GMP-9.0 General Pump Inspection FNP-1-GMP-21.0 Coupling Alignment

1766 253

D. Maintenance History

#1A SWP - packing adjustments, 1/18/79: Major inspection, lift setting

#1B SWP - packing adjustments, lift setting

#1C SWP - packing adjustments, lube/cooling flow, lift setting

#1D SWP - packing adjustments, minor vibration problem, lift setting #1E SWP - packing adjustments, minor vibration problem, lift setting

Model 30½ X 1B Type A, 2 stage - Johnson River Water and Service Water Pumps

These pumps have been operated some but the preoperation test has not yet been performed.

5. Operational problems and major repair efforts.

Response:

Unit 1

#10 RWP: 11/78 - Put on spare bowl and sent original bowl assembly to

BJ for repair.

#9 RWP: 12/78 - Repaired on site.

#4 RWP: 2/79 - Put repaired bowl from #10 RWP on and sent suction bell

to BJ.

#5 RWP: 9/79 - BJ has original bowl assembly, will return in ~ 2 weeks.

November, 1978 - #10 pump had high vibration. The pump was removed and disassembled. The suction bearing was seized to the shaft and had rotated in its housing. The line bearings were worn out of tolerance. The vanes on the impellor were cracked on the leading edge at the hub.

The bowl was replaced, all bearings were replaced and several shafts were replaced.

December, 1978 - #9 RW pump was disassembled due to high vibration and experience with #10.

Same general condition was observed. The wear ring clearances were satisfactory. Hence the bowl was not replaced. The impelior was replaced.

February, 1979 - #4 RW pump was disassembled due to experience with #9 and #10. Same general condition was observed. Bowl assembly was replaced.

August, 1979 - #5 RW pump was disassembled. Same general condition was observed. The impellor had experienced sever of tation at some time. The cracking in the vane area was again present. The impellor had been repaired at some time before - it showed signs of brazing, etc. The bowl assembly was replaced.

April, 1979 - 1A pump was disassembled based on experience with R.W.

Bearings were out of tolerance at the bottom. The
lubrication line to lower bearing was clogged 99%.

Bearings were replaced.

1766 254

Unit 2

Unit still under construction.

6. The longest interval that each pump has been available for operation without corrective maintenance. Identify the number of cycles of operation during this interval, the duration of each cycle and the operating model(s) (recirculation, rated flow, etc.). Identify the longest continuous operation at or near rated flow conditions for each pump and the status of the pump operability at the end of the run.

Response:

Unit 1

River Water Pumps

QSP25P004-B

Longest interval of availability: 12/6/77 to 2/21/79

Cycle	Duration	Mode
1	1 day, 4 hours	Rated Flow
2 3	2 days, 16 hours	".
	4 days, 16 hours	"
4	0 leys, 8 hours	
5	22 days, 8 hours	"-
6 7	0 days, 20 hours	"
7	0 days, 4 hours	"
8	0 days, 8 hours	"
9	0 days, 8 hours	
10	2 days, 12 hours	"
11	0 days, 8 hours	"
12	8 days, 4 hours	"
13	0 days, 8 hours	"
14	0 days, 4 hours	n n
15	0 days, 12 hours	
16	3 days, 4 hours	
17	1 day, 12 hours	
18	4 days, 20 hours	
19	11 days, 4 hours	
20	27 days, 4 hours	
21	5 days, 20 hours	
. 22	1 day, 4 hours	"
23	3 days, 20 hours	, ,
24	0 days, 16 hours	
25	0 days, 8 hours	11
26	2 days, 20 hours	1 m
27	0 days, 8 hours	11
28	0 days, 16 hours	
29	0 days, 16 hours	"
30	2 days, 4 hours	
31	4 days, 4 hours	
32	0 days, 12 hours	
33	0 days, 8 hours	

Cycle	Duration	Mode
34	1 day, 0 hours	Rated Flow
35	10 days, 4 hours	"
36	0 days, 8 hours	
37	5 days, 16 hours	
38	4 days, 16 hours	"
39	0 days, 16 hours	"
40	2 days, 0 hours	"
41	7 days, 12 hours	"
42	0 days, 8 hours	
43	2 days, 16 hours	"
44	41 days, 20 hours	"
45	0 days, 8 hours	
46	2 days, 12 hours	. "
47	0 days, 4 hours	
48	3 days, 20 hours	"
49	17 days, 8 hours	
50	3 days, 0 hours	
51	42 days, 0 hours	
52	0 days, 4 hours	
53	21 days, 0 hours	"
54	25 days, 8 hours	"
55	3 days, 12 hours	"

Pump S/D for major maintenance on the bowl assembly.

QSP25P005-B

Longest interval of availability: 12/8/77 to beyond 8/13/79

Cycle	Duration	Mode
1	2 days, 8 hours	Rated Flow
2	0 days, 20 hours	."
33	0 days, 8 hours	
4	1 day, 4 hours	
5	0 days, 16 hours	"
6	1 day, 4 hours	
7	3 days, 16 hours	
8	0 days, 4 hours	"
9	0 days, 4 hours	
10	10 days, 8 hours	n n
11	0 days, 8 hours	
12	0 days, 4 hours	
13	3 days, 12 hours	
14	2 days, 16 hours	
15	2 days, 8 hours	
16	5 days, 20 hours	"
17	1 day, 4 hours	
18	1 day, 0 hours	
19	2 days, 12 hours	
20	0 days, 20 hours	
21	0 days, 20 hours	
22	1 day, 12 hours	100

Cycle	Duration	Mode
23	1 day, 8 hours	Rated Flow
24	1 day, 0 hours	"
25	1 day, 20 hours	"
26	0 days, 20 hours	"
27	6 days, 20 hours	"
28	1 day, 0 hours	"
29	5 days, 4 hours	. "
30	0 days, 8 hours	"
31	50 days, 12 hours	"
32	0 days, 20 hours	"
33	1 day, 8 hours 21 days, 16 hours	"
34	21 days, 16 hours	"
35	5 days, 20 hours	"
36	1 day, 12 hours	
37	0 days, 20 hours	-"
38	1 day, 4 hours	. "
39	0 days, 16 hours	"
40	1 day, 8 hours	"
41	1 day, 4 hours	"
42	1 day, 8 hours	"
43	1 day, 4 hours	"
44	3 days, 20 hours	"
45	1 day, 0 hours	"
46	0 days, 16 hours	"
47	0 days, 8 hours	
48	0 days, 8 hours	
49	0 days, 4 hours	
50	0 days, 12 hours	"
51	0 days, 12 hours	"
52	0 days, 12 hours	
53	1 day, 0 hours	
54	14 days, 12 hours	
55	13 days, 20 hours	
56	3 days, 0 hours	11
57	1 day, 0 hours	
58	1 day, o hours	"
59	1 day, 8 hours	"
60	5 days, 4 hours	"
61		no see
62	2 days, 4 hours	
	2 days, 20 hours	
63	7 days, 16 hours	
64	1 day, 16 hours	
65	1 day, 20 hours	
66	0 days, 4 hours	
67	5 days, 0 hours	
68	2 days, 8 hours	,
69	2 days, 16 hours	
70	1 day, 20 hours	"
71	7 days, 16 hours	
.72	18 days, 8 hours	
. 73	0 days, 8 hours	"

Cycle	Duration	Mode
74	3 days, 4 hours	Rated Flow
75	0 days, 12 hours	
76	6 days, 20 hours	
77	0 days, 16 hours	
78	2 days, 12 hours	
79	0 days, 8 hours	
80	0 days, 4 hours	"
81	0 days, 8 hours	
82	1 day, 16 hours	. 11
83	1 day, 16 hours	"
84	0 days, 16 hours	
85	0 days, 4 hours	. "
86	1 day, 12 hours	
87	0 days, 20 hours	"
88	0 days, 12 hours	
89	0 days, 12 hours	
90	0 days, 12 hours	
91	8 days, 0 hours	"
92	1 day, 8 hours	"
93	4 days, 0 hours	" "
94	0 days, 4 hours	
95	9 days, 8 hours	. "
96	0 days, 12 hours	"
97	1 day, 4 hours	
98	0 days, 12 hours	
99	3 days, 4 hours	
100	3 days, 8 hours	
101	0 days, 16 hours	
102	0 days, 4 hours	
103	14 days, 8 hours	
104	11 days, 4 hours	"
105	5 days, 12 hours	"
106	2 days, 4 hours	
107/	1 day, 8 hours	
108	0 days, 20 hours	
109	35 days, 8 hours	
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8/13/79 is the cutoff for this research QSP25P008-A

Longest interval of availability: 12/1/77 to beyond 8/13/79

Cycle	Duration	Mode	
1	0 days, 4 hours	Rated Flow	
2	0 days, 8 hours		
3	1 day, 20 hours	13	
4	23 days, 0 hours		
5	0 days, 16 hours		
6	2 days, 0 hours	n _ n	
7	1 day, 16 hours		

Cycle	Duration	Mode
8	0 days, 4 hours	Rated Flow
9	0 days, 8 hours	
10	0 days, 20 hours	"
11	0 days, 12 hours	"
12	0 days, 16 hours	"
13	1 day, 4 hours	
14	0 days, 4 hours	
15	0 days, 4 hours	ii ii
16	23 days, 4 hours	,
17	18 days, 4 hours	
18	0 days, 8 hours	,
19	6 days, 12 hours	
20 21	0 days, 4 hours	11
22	6 days, 0 hours	
23	0 days, 12 hours	
24	0 days, 4 hours	
25	0 days, 12 hours	"
26	1 day, 0 hours 1 day, 8 hours	
27		
28	5 days, 16 hours 0 days, 16 hours	
29	1 day, 0 hours	
30	2 days, 8 hours	
31	6 days, 16 hours	
32	1 day, 4 hours	
33	1 day, 8 hours	
34	4 days, 0 hours	11
35	0 days, 8 hours	
36	0 days, 12 hours	
37	0 days, 16 hours	
38	0 days, 8 hours	
39	0 days, 8 hours	
40	0 days, 4 hours	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
41	0 days, 12 hours	
42	0 days, 12 hours	
43	2 days, 20 hours	
44	0 days, 12 hours	
45	7 days, 8 hours	n n
46	0 days, 16 hours	
47	0 days, 20 hours	"
48	1 day, 12 hours	
49	5 days, 16 hours	
50	1 day, 20 hours	
51	0 days, 4 hours	"
52	0 days, 16 hours	
53	0 days, 8 hours	도 및 존배 등
54	7 days, 12 hours	
55	2 days, 8 hours	
56	8 days, 0 hours	
57	1 day, 16 hours	
58	0 days, 4 hours	"
59	0 days, 4 hours	

Cycle	Duration	Mode
60	33 days, 0 hours	Rated Flow
61	5 days, 0 hours	
62	0 days, 12 hours	
63	0 days, 4 hours	
64	0 days, 16 hours	
65	0 days, 20 hours	
66	0 days, 8 hours	
67	0 days, 12 hours	ï,
68	0 days, 4 hours	
69	0 days, 12 hours	
70	0 days, 4 hours	
71	1 day, 0 hours	
72	0 days, 12 hours	
73	0 days, 16 hours	
74	0 days, 4 hours	
75	6 days, 12 hours	
76	2 days, 8 hours	
77	1 day, 16 hours	
78	2 days, 20 hours	"
79	1 day, 8 hours	- "
80	O days, 16 hours	"
81	1 day, 12 hours	"
82	0 days, 16 hours	
83	1 day, 4 hours	
84	0 days, 4 hours	
85	1 day, 0 hours	"
86	1 day, 16 hours	"
87	0 days, 8 hours	11
88	6 days, 0 hours	
89	0 days, 8 hours	"
90	0 days, 8 hours	"
91	3 days, 8 hours	
92	2 days, 4 hours	"
93	1 day, 4 hours	"
94	1 day, 0 hours	"
95	8 days, 16 hours	
96	2 days, 0 hours	n
97	1 day, 8 hours	"
98	2 days, 0 hours	
. 99	8 days, 0 hours	
100	1 day, 12 hours	
101	9 days, 12 hours	"
101	,, .,	

8/13/79 is the cutoff for this research.

QSP25P009-A

Longest interval of availability: 12/1/77 to 12/7/78

Cycle	Duration	Mode
1 2 3	10 days, 4 hours 0 days, 8 hours 0 days, 20 hours	Rated Flow

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Cycle	Duration	Mode		
4	1 day, 12 hours	Rated Flow		
	0 days, 4 hours	"		
5 6 7 8	0 days, 12 hours	n		
7	9 days, 12 hours	n n		
8	0 days, 4 hours			
9	0 days, 16 hours	"		
10	16 days, 4 hours			
11	34 days, 16 hours	"		
12	0 days, 8 hours	"		
13	2 days, 12 hours	**		
14	0 days, 16 hours	"		
15	0 days, 8 hours	"		
16	1 day, 12 hours	"		
17	0 days, 12 hours			
18	0 days, 4 hours	"		
19	0 days, 8 hours	"		
20	1 day, 0 hours	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
21	1 day, 0 hours	"		
22	0 days, 8 hours	"		
23	0 days, 8 hours			
-24	5 days, 16 hours			
25	1 day, 12 hours	"		
26	21 days, 20 hours	n		
27	2 days, 16 hours			
28	18 days, 20 hours	"		
29	3 days, 8 hours	"		
30	0 days, 16 hours			
31	0 days, 8 hours			
32	0 days, 8 hours	"		
33	0 days, 4 hours	"		
34	0 days, 12 hours	"		
35	0 days, 12 hours	"		
36	0 days, 4 hours	"		
37	1 day, 0 hours	" "		
38	0 days, 12 hours	n		
39	2 days, 12 hours			
40	0 days, 8 hours	"		
41	7 days, 8 hours	"		
42	0 days, 12 hours	"		
43	0 days, 12 hours			
44	0 days, 16 hours	11		
45	0 days, 20 hours			
46	0 days, 4 hours	"		
47	3 days, 12 hours	"		
48	1 day, 20 hours	"		
49	1 day, 0 hours	" - "		
50	1 day, 0 hours		1746	241
51	1 day, 4 hours	H	1/66	201
52	16 days, 0 hours			
53	14 days, 12 hours	n n		
54	3 days, 12 hours			

Pump S/D for major maintenance on the bowl assembly (repaired on site).

QSP25P010-A

Longest interval of availability: 12/1/77 to 11/25/78

Cycle	Duration	Mode
1	0 days, 4 hours	Rated Flow
2	4 days, 16 hours	
3	0 days, 8 hours	
3	1 day, 8 hours	"
5	0 days, 20 hours	"
6	0 days, 12 hours	"
7	0 days, 8 hours	11
8	21 days, 20 hours	"
9	0 days, 12 hours	"
10	0 days, 16 hours	"
11	1 day, 16 hours	"
12	0 days, 16 hours	
13	0 days, 8 hours	
14	2 days, 8 hours	
15	0 days, 8 hours	"
16	2 days, 12 hours	11
17	0 days, 4 hours	
18	0 days, 4 hours	"
19	0 days, 20 hours	
20	0 days, 12 hours	
21	1 day, 0 hours	
22	1 day, 4 hours	
23	1 day, 16 hours	"
24	6 days, 0 hours	11
25	0 days, 4 hours	11
26	43 days, 20 hours	
27	2 days, 8 hours	
28	1 day, 20 hours	
29	8 days, 20 hours	11
30	0 days, 4 hours	
31	2 days, 20 hours	
32	0 days, 16 hours	"
18.55	2 30,0, 20 110010	

Pump S/D for major maintenance on bowl assembly.

1766 262

Service Water Pumps

Q1P16P001-A

Longest interval of availability: 4/3/78 to 2/20/79

Cycle	Duration	Mode
1	8 days, 8 hours	Rated Flow
2	195 days, 4 hours	
3	32 days, 0 hours	n .
4	63 days, 12 hours	. "
	S/D to replace packing	

Q1P16P001-B

Longest interval of availability: 4/4/78 to 8/2/79

Cycle	Duration	Mode
1	9 days, 12 hours	Rated Flow
2	0 days, 16 hours	11
3	139 days, 0 hours	1)
4	9 days, 8 hours	***
5	114 days. 16 hours	n
6	44 days, 16 hours	"
7	48 days, 8 hours	
8	37 days, 16 hours	

S/D to check and adjust impeller list setting.

Q1P16P001-C

Longest interval of availability: 12/1/77 to 5/5/79

Cycle	Duration	Mode	
1	86 days, 20 hours	Rated Flow	
2 . 3 4 . 5 6 7	0 days, 20 hours		
4	0 days, 4 hours 0 days, 12 hours	"	
5		"	
5	0 days, 4 hours		
7	0 days, 8 hours	"	
8	1 day, 8 hours	.,	
9	34 days, 0 hours	"	
10	0 days, 8 hours	"	
	0 days, 8 hours		
11	1 day, 4 hours	"	
12	15 days, 16 hours		
13	0 days, 8 hours		
14	1 day, 4 hours	"	
15	29 days, 0 hours		
16	32 days, 12 hours	Aurite # 1	
17	0 days, 12 hours		김 후 세계 기능이 다양
18	O days, 12 hours		
19	0 days, 12 hours		1766 263
20	9 days, 8 hours	,	1100 200
21	0 days, 20 hours	,	
22	5 days, 0 hours		
23	28 days, 20 hours		
24	0 days, 4 hours		
25	6 days, 4 hours		
26	0 days, 4 hours	. "	
27	0 days, 4 hours	"	
28	0 days, 12 hours	"	
29	1 day, 4 hours	"	
30	0 days, 8 hours		
31	67 days, 12 hours		
32	8 days, 4 hours	· · · · · · · · · · · · · · · · · · ·	

S/D to replace packing

Q1P16P001-D

Longest interval of availability: 4/5/78 to 6/25/79

Cycle	Duration	Mode
1	16 days, 16 hours	Rated Flow
2	149 days, 20 hours	11
3	51 days, 20 hours	
4	0 days, 4 hours	
5	120 days, 12 hours	"
6	15 days, 16 hours	"
7	59 days, 4 hours	"
8	20 days, 8 hours	11

S/D to replace packing

Q1P16P001-E

Longest interval of availability: 4/6/78 to 8/2/79

Cycle	Duration	Mode	
1	77 days, 8 hours	Rated Flow	
2	279 days, 0 hours	"	
3	10 days, 0 hours		
4	61 days, 4 hours	"	
5	24 days, 8 hours	"	
6	4 days, 0 hours		
7	10 days, 4 hours		
8	8 days, 16 hours	" "	

S/D to check and adjust impeller lift setting.

Unit 2

Unit still under construction.

Files have been established to collect the identified items listed in the bulletin. An evaluation will be conducted within 60 days of this letter to identify any actions needed to improve performance and/or reliability of these pumps.

1766. 264