

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 PABVS1 00-000000-000 341111 45
7 8 9 14 15 25 26 30 37 CAT 38

CON'T
01 REPORT SOURCE L 05000334 7041679 8080179 9
7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
02 General Electric Company has notified Beaver Valley Power Station of potential
03 for failure of the Inside Recirculation Spray Pump motors. As a result of pump
04 testing at another facility, it has been determined that the motor thrust bearings
05 may seize or bind after several hours of running time. The motors are 480 volt,
06 300 horsepower, 1800 rpm motors with Model No. 5K6319XJ20A.

07
08

09 SYSTEM CODE S F 11 CAUSE CODE B 12 CAUSE SUBCODE B 13 COMPONENT CODE M O T O R X 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16
7 8 9 10 11 12 13 18 19 20
17 LER/RO REPORT NUMBER 7 9 21 22 23 24 26 27 28 29 30 31 32 REVISION NO. 1
ACTION TAKEN F 18 FUTURE ACTION Z 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 27 ATTACHMENT SUBMITTED Y 23 NPR-4 FORM SUB Y 24 PRIME COMP SUPPLIER A 25 COMPONENT MANUFACTURER G 0 8 0 26
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
10 Analysis of the failure mode indicates the problem may occur when all part
11 tolerances of the bearing and bearing housing are at the extreme end of the
12 spectrum. The problem is caused in those cases by a reduction of internal
13 clearances caused by the heat gradient as the motor comes up to operating
14 temperature. A modification has been performed to increase internal clearances.

15 FACILITY STATUS G 28 % POWER 0 0 0 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY D 31 DISCOVERY DESCRIPTION Vendor Notification 32
7 8 9 10 12 13 44 45 46 80

16 ACTIVITY RELEASED OF RELEASE Z 33 Z 34 AMOUNT OF ACTIVITY N/A 35 LOCATION OF RELEASE N/A 36
7 8 9 10 11 44 45 80

17 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION N/A 39
7 8 9 10 11 12 13 80

18 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION N/A 41
7 8 9 10 11 12 80

19 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION N/A 43
7 8 9 10 80

20 PUBLICITY ISSUED N 44 DESCRIPTION N/A 45
7 8 9 10 80

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7 908 130 434

561 223

Attachment To LER 79-10/01T-1
Beaver Valley Power Station
Duquesne Light Company
Docket No. 50-334

General Electric Company has notified Beaver Valley Power Station of a potential for failure of the Inside Recirculation Spray Pump motors. As a result of pump testing at another facility, it has been determined that the motor thrust bearings may seize or bind after several hours of running time.

Analysis of the failure mode indicates the problem may occur when all bearing part tolerances are at the extreme end of the spectrum. The problem is caused in those cases by a reduction of internal clearances caused by the heat gradient as the motor comes up to operating temperature.

In order to eliminate the potential for failure, a modification has been completed to increase internal clearances. This modification involves replacing the lower thrust bearing with a loose internal fit bearing, increasing the size of the bearing housing to allow greater clearance between the bearing outside diameter and the housing inside diameter, and installing a new design lower slinger. The pump motors were reinstalled and satisfactorily tested and returned to service.