



701 White Avenue  
Beloit, Wisconsin 53511  
Tel: 608.364.8424  
Fax: 608.364.8417  
Ted.stevenson@fairbanksmorse.com

March 25, 2004

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Subject: Roots Blower on OP Engines

On March 23, 2004, Fairbanks Morse Engine evaluation determined a potential safety hazard exists for blowers (P/N 16609294) on OP engines. It is possible that the aluminum rotors can slip on the steel shaft and cause rotor-to-rotor or rotor-to-housing contact which could cause blower failure and inability of engine to perform its safety function.

The defect was caused by improper cleaning of the shaft prior to casting the rotor onto the shaft. This causes an inadequate bond and allows the aluminum rotor to move axially on the steel shaft. Sample testing of rotors has found this condition to exist to varying degrees on approximately 75% of rotors produced between 1998 and 2003.

(4) blowers were shipped to nuclear utilities that may be affected:

<u>Utility</u>	<u>Site</u>	<u>Blower S/N</u>
Exelon	Limerick	(RB813A, RB3871, RB816)
Entergy	ANO-2	(RB814)

To date, no engine failures have been experienced as a result of this problem. However, the potential exists. All slipped rotors have been found during routine maintenance inspections. This condition has been found to manifest itself within a low number of hours of operation. Therefore, the longer the rotors run and maintain proper clearance, the less likely they are to be affected by this condition.

The affected utilities will be notified to evaluate inspection results and replace as necessary.

Sincerely,

Todd Collins  
Manager, QA

JE19



---

701 White Avenue  
Beloit, Wisconsin 53511  
Tel: 608.364.8424  
Fax: 608.364.8417  
Ted.stevenson@fairbanksmorse.com

March 25, 2004

Entergy Operations, Inc  
PO Box 31995  
Jackson, MS 39286-1995

---

Attention: ~~Manager, Operating Experience~~  
M-ECH-595

Subject: 10CFR21

Attached please find notification made to the NRC for items shipped to ANO on PO POR98090.

Sincerely,

A handwritten signature in black ink that reads "Todd M. Collins". The signature is written in a cursive, slightly slanted style.

Todd Collins  
Manager, Quality Assurance



---

701 White Avenue  
Beloit, Wisconsin 53511  
Tel: 608.364.8424  
Fax: 608.364.8417  
Ted.stevenson@fairbanks-morse.com

March 25, 2004

Exelon Nuclear  
Manager – Licensing Section  
Correspondence Control Desk  
PO Box 160  
Kennett Square, PA 19348

---

Subject: 10CFR21

Attached please find notification made to the NRC for items shipped to Limerick.

The (3) orders affected are:

90 167610 REL 348495  
90 167610 REL 348425  
90 167610 REL 348293

Sincerely,

A handwritten signature in black ink that reads "Todd M. Collins". The signature is written in a cursive style with a prominent initial "T" and a long horizontal stroke at the end.

Todd Collins  
Manager, Quality Assurance

---