



ITT Engineered Valves, LLC

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June 14, 2019

NRC Operations Center
Washington, DC
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Subject: Potential Part 21 Issue concerning #25 Airmotor Diaphragm

In accordance with the requirements of 10 CFR Part 21, this letter notifies the NRC of a Potential Part 21 incident. ITT Engineered Valves, LLC (ITT) has discovered that five pieces of component part number 42711, which is an actuator diaphragm for a #25 Airmotor, have demonstrated the potential to fail prematurely during operation. Upon disassembly of actuated valves previously assembled in house, the actuator diaphragm p/n 42711 was found to have indications of delamination, enough to warrant concern that the diaphragm will not perform its function.

This #25 actuator diaphragm design has been utilized in production for over 15 years without any previous problems. ITT actuator diaphragms are a composite of Buna-N elastomer with an embedded fabric layer, and are manufactured in discrete batches. From the date code markings on the five potentially defective diaphragms, one batch has been identified as potentially defective. ITT has no evidence to show that any other batch of diaphragms other than this one is at risk. ITT does maintain the ability to determine which of our customers have received diaphragms from any material batch of this component.

The actuator diaphragm part in question could be defective to such an extent as to cause a Basic Component (that is, the diaphragm valve) to be unable to perform its function, thereby causing a substantial safety hazard. The diaphragm is a Safety Related part and has a safety function in an Active valve. The #25 airmotor diaphragm does NOT have a safety function for a Passive valve.

ITT is in the process of determining how to evaluate the effect of the diaphragm anomaly, while at the same time determining how to define the scope of the potential defect. The supplier of the diaphragm has already been contacted and is gathering pertinent data on the construction of the part.

Per 10 CFR 21 policy guidelines, this initial notification will be followed by a written notification by July 14, 2019. In the meantime, please do not hesitate to contact me with any questions or issues regarding this matter.

Regards,

S. T. Donohue

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Senior Principal Engineer

ITT Engineered Valves, LLC