

Flanagan, Joseph W.

From: Kaminski, Richard M.
Sent: Wednesday, October 20, 1999 3:14 PM
To: Stavely, James M.
Cc: Roberts, Peter D.; Pfizenmaier, Mark D.; Flanagan, Joseph W.
Subject: FW: Hope Creek 'B' Reactor Recirculation pump vibration

Jim,

As described in the memo below, Mr. Flanagan and I held a voice teleconference with Flowserve personnel today. Flowserve personnel (pump engineer and vibration engineer) reviewed our vibration data on both the 1A-P-201 and 1B-P-201 dating back to 5/97. In regard to the 1B-P-201, the pump with the periodic vibration alarm, it was Flowserve's opinion that the historical data is stable and in-line with data they have seen from other plants. Generic PWR guidance for vibration alarm setpoints from Byron-Jackson is: Alert = 20 mils, Shutdown = 25 mils. Flowserve is forwarding, via fax, this generic guidance as applicable to BWR's but it is expected to be the same. We asked specifically if a 2-3 mil increase on our current 1B-P-201 vibration setpoints (e.g., Alert = 12.5 mils, Danger = 13.5 mils) would be detrimental to the performance of this equipment. Flowserve's response was that it would be "in our interest to increase our setpoints" to allow for greater operational flexibility, as well as to prevent Operations personnel from becoming negatively affected by repeated, nuisance alarms. Based on the stability of our data, including orbital shift (e.g., shaft cracking indicator), Flowserve personnel were confident that this change would not have a negative impact on the equipment or, our ability to monitor/detect changes in pump performance.

Therefore, I will pursue a setpoint change to increase the 1B-P-201 vibration setpoints to: ALERT = 15.5 mils, DANGER = 16.5 mils. Although I have not processed this type of change before, I would estimate that we should be able to implement it within the next week or two. If this is not acceptable, please let me know so that interim guidance can be provided until the change can be prepared, reviewed, approved and implemented. If you have any questions or comments, please feel free to contact me. Thanks.

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-----Original Message-----

From: Kaminski, Richard M.
Sent: Tuesday, October 19, 1999 1:49 PM
To: Gerry Lenzen (E-mail)
Cc: Pfizenmaier, Mark D.; Flanagan, Joseph W.; Stavely, James M.
Subject: Hope Creek 'B' Reactor Recirculation pump vibration

Mr. Lenzen,

I will fax out the vibration data for both our pumps shortly. This will include the last two (2) monthly packages (approximately 14 pages each - 56 pages total) for each pump. I forwarded your voicemail to our vibration expert, Mr. Joe Flanagan. I would like to give you the opportunity to review this data and then have a conference call to discuss it. Currently, the operations staff has informal direction to reduce pump flow whenever the vibration alarm is received, to clear the alarm. This restricts reactor core operational flexibility significantly. However, credit is taken for vibration monitoring to detect any precursors to shaft cracking. Our setpoints are based on pre-operational data and some "flexibility" may be available to raise the setpoints. However, I would like to get some input from the pump manufacturer prior to proceeding down this path. Please let me know, via voicemail or e-mail, what time (today or tomorrow) would be good for you to review the data and discuss this issue. My e-mail address and phone number are provided below. Thanks in advance for your time and support.

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