

Part 21 (PAR)

Event # 50428

Rep Org: SCHULZ ELECTRIC	Notification Date / Time: 09/05/2014 11:08 (EDT)
Supplier: SCHULZ ELECTRIC	Event Date / Time: 09/04/2014 (EDT)
	Last Modification: 09/30/2014
Region: 1	Docket #:
City: NEW HAVEN	Agreement State: No
County:	License #:
State: CT	
NRC Notified by: BILL ELDREDGE	Notifications: MARC FERDAS R1DO
HQ Ops Officer: HOWIE CROUCH	DEBORAH SEYMOUR R2DO
Emergency Class: NON EMERGENCY	CHRISTINE LIPA R3DO
10 CFR Section:	WAYNE WALKER R4DO
21.21(d)(3)(i) DEFECTS AND NONCOMPLIANCE	PART 21 REACTORS GROUP EMAIL

POTENTIAL PART 21 ISSUE ON MOTOR DEDICATIONS PERFORMED PRIOR TO JUNE 2002

The following information was obtained via fax:

"Pursuant to the 10 CFR Part 21 requirements, this letter is to notify the NRC of a potential Part 21 condition.

"While performing research on questions regarding acceleration presented by First Energy/Davis Besse, Schulz Electric identified that the acceleration calculation used to determine acceleration times for new motors which it dedicated before June 7, 2002 (at which time Schulz developed a shop instruction for calculating acceleration using the proper calculation) was incorrect. The use of this incorrect calculation could potentially cause misleading acceleration times, and therefore motors which may not perform as required by First Energy/Davis Besse and/or other customers.

"Schulz Electric will perform an evaluation to identify:

1. All projects that had acceleration calculations performed as part of a motor dedication prior to June 7, 2002.
2. The methodology used to perform the calculations.
3. Whether the actual acceleration times meet the acceleration/performance requirements of the applicable customers.

"Schulz Electric has the capability and chooses to perform the evaluation to determine if a defect exists. It is the responsibility of Schulz Electric to inform the purchaser(s), and any affected licensees.

"Schulz Electric will complete the specified evaluation of the circumstances within sixty (60) days of discovery of the potential defect. The NRC will be provided a copy of Schulz Electric's evaluation report.

IE19
NRC

"If you have any questions, please feel free to contact me [Charles 'Bill' Eldredge] by phone 203.562.5811, by fax 203.562.1082, or email me at Eldredge@schulzelectric.com."

*** UPDATE FROM CHARLES ELDREDGE TO DONALD NORWOOD AT 0922 ON 9/30/2014 ***

The following is a synopsis of information received via facsimile:

FINAL EVALUATION RE: EVENT # 50428

Customer: First Energy / Davis Besse.

Parts: 3 AC Motors - 1) 400 HP, 1) 450 HP, 1) 600 HP. All located at First Energy / Davis Besse.

Description of Defect/Nonconformance: Schulz Electric identified that the methodology for determining acceleration for the subject motors was incorrect. When the acceleration times were calculated using the correct methodology, it was determined that the three motors will not meet the acceleration requirements for 70% voltage as required by the purchase order.

Corrective Action: The customer has been informed of the nonconformance and Schulz has worked with the customer to generate performance curves at various voltage levels and pump head requirements.

Other Plants Affected: None.

Notified R1DO (Krohn), R2DO (Widmann), R3DO (McCraw), R4DO (Whitten) and Part 21 Reactors Group.

SCHULZ

A **TIMKEN** Brand

fax

TO: **NRC Operations Center**

FROM: Charles 'Bill' Eldredge

FAX: 301-816-5151

PAGES: 3 (including cover sheet)

PHONE: 301-816-5100

DATE: 9/30/2014

RE: Evaluation Results of Part 21 Issue, Event Number 50428

Urgent For Review Please Comment Please Reply Please Recycle

Comments:

I have attached the formal Part 21 notification letter resulting from the evaluation perform regarding the potential Part 21 issue assigned Event Number 50428. Results of the evaluation identified one plant, First Energy / Davis Besse with nonconforming items; no other plant was affected

Respectfully,

Charles 'Bill' Eldredge
Quality Assurance Manager

T 203.562.5811
F 203.562.1082
eldredge@schulzelectric.com

Timken NCT LLC
dba Schulz Electric
30 Gando Drive
New Haven, CT 06513 USA

SCHULZ

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Charles 'Bill' Eldredge
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T 203.562.5811
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eldredge@schulzelectric.com

September 30, 2014

NRC Operations Center
Phone 301-816-5100
Fax 301-816-5151

Dear Sir or Madam:

NUCLEAR NONCONFORMANCE REPORT FINAL EVALUATION RE: EVENT # 50428

1. CUSTOMER: First Energy / Davis Besse
5501 N. State Route 2
Oak Harbor, OH 43449
2. PURCHASE ORDER: Toledo Edison S061564094, C/O #4, Line Items 4, 5, 6
3. PART/COMPONENT NAME: AC Motors
4. PART/COMPONENT #: 400 HP, S/N SEQ-N9180-100797 (LI 4)
450 HP, S/N SEQ-N9181-100797 (LI 5)
600 HP, S/N SEQ-N9182-100797 (LI 6)
5. QUANTITY SHIPPED: 3 motors
6. LOCATION OF ALL UNITS: First Energy / Davis Besse
7. DATE NONCONFORMANCE ASCERTAINED: September 4, 2014
8. DESCRIPTION OF DEFECT/NONCONFORMANCE: While performing research on questions regarding acceleration presented by First Energy / Davis Besse, Schulz Electric identified that the methodology for determining acceleration for the subject motors, Schulz Electric jobs N-9180, N-9181 and N-9182 (400 HP, 450 HP and 600HP respectively) was incorrect. When the acceleration times were calculated using the correct methodology, it was determined that the three motors will not meet the acceleration requirements for 70% voltage as required by the Purchase Order.
9. CORRECTIVE ACTION TAKEN: The customer has been informed of the nonconformance that exists and Schulz has worked with the customer to generate performance curves at various voltage levels and pump head requirements.
10. ANY ADVICE RELATED TO DEFECT/NONCONFORMANCE: When possible to do so, these units should be evaluated using the revised acceleration data provided by Schulz Electric to ensure that sufficient margin exists for continued operation or be returned to Schulz Electric for further evaluation.

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Quality Assurance Manager

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eldredge@schulzelectric.com

11. OTHER PLANTS AFFECTED: None

12. INDIVIDUAL COMPLETING THIS REPORT:

Charles Eldredge
QA Manager
Schulz Electric
New Haven, CT 06513

Sincerely,



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