

**From:** [Hoeger, Catherine A \[EMR/FCTL/FCV/MTWN\]](#)  
**To:** [Hoc, HOO X](#)  
**Cc:** [Hurst, Barry \[EMR/FCTL/FCV/SHRM\]](#)  
**Subject:** [External\_Sender] Re: Interim Written Notification per 10 CFR 21.21(a)(2) Potential Deviation – ASTM A276 Type 316 B Cold Finished Material  
**Date:** Tuesday, April 21, 2026 17:07:50  
**Attachments:** [Final Duke-Brunswick 1V6574X0352 3 6 26.pdf](#)

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Hello,

I have added an additional column to list the specific plant site affected. Fisher has completed an initial engineering analysis on the first line item, and communication was issued to the site. Please see the attached communication.

LBP Order #	Sales Order #	Customer	Plant Site	Customer PO #	Part Number
033 - D7768372	2441792	Duke Energy Progress LLC	Brunswick	03197863	1V6574X0352
019E-P335174	2480351	Arizona Public Service Co	Palo Verde	PV1042307	36A9907X452
025 -X283900	2468099	Tennessee Valley Authority (TVA)	Sequoyah	7765013	11A5338X432
033 - D7764162	2396798	Duke Energy Corporation	Catawba	03188627	24A3784X202
019E-P323538	2405961	Arizona Public Service Co DbA Aps West Phoenix	Palo Verde	PV1030843	12A4889X092
003 - T10018098	2356505	PSEG Nuclear LLC	Salem Nuclear	4501278868	11A8436X142
019E-P309168	2309775	Arizona Public Service Co	Palo Verde	500659277	36A9907X452
019E-P309168	2309775	Arizona Public Service Co	Palo Verde	500659277	36A9907X452
019E-P311317	2324270	Arizona Public Service Co	Palo Verdo	500659106	21A4452X142

Thank you,  
Catie

Catherine Hoeger | Quality Manager | Flow Controls  
 Emerson | 1702 S 12<sup>th</sup> Avenue | Marshalltown | Iowa | 50158 | USA  
 T 641-754-3210 | M 641-387-0901  
[Catherine.Hoeger@Emerson.com](mailto:Catherine.Hoeger@Emerson.com)

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**From:** Hoc, HOO X <HOO1@nrc.gov>  
**Sent:** Tuesday, April 21, 2026 2:05 PM  
**To:** Hurst, Barry [EMR/FCTL/FCV/SHRM] <Barry.Hurst@emerson.com>  
**Subject:** [EXTERNAL] RE: FW: Interim Written Notification per 10 CFR 21.21(a)(2) Potential Deviation – ASTM A276 Type

316 B Cold Finished Material

Received.

Thank you.

Headquarters Operations Officer  
U. S. Nuclear Regulatory Commission

☎ phone: 301-816-5100

☎ fax: 301-816-5151

✉ [hoo.hoc@nrc.gov](mailto:hoo.hoc@nrc.gov)

☎ secure: [hoo1@nrc.sgov.gov](mailto:hoo1@nrc.sgov.gov)



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**From:** Hurst, Barry [EMR/FCTL/FCV/SHRM] <[Barry.Hurst@emerson.com](mailto:Barry.Hurst@emerson.com)>

**Sent:** Tuesday, April 21, 2026 15:04

**To:** Hoc, HOO X <[HOO1@nrc.gov](mailto:HOO1@nrc.gov)>

**Subject:** [External\_Sender] FW: Interim Written Notification per 10 CFR 21.21(a)(2) Potential Deviation – ASTM A276 Type 316 B Cold Finished Material

Resend to [hoo.hoc@nrc.gov](mailto:hoo.hoc@nrc.gov)

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**From:** Hurst, Barry [EMR/FCTL/FCV/SHRM]

**Sent:** Friday, April 17, 2026 4:07 PM

**To:** '[Hooq@nrc.gov](mailto:Hooq@nrc.gov)' <[Hooq@nrc.gov](mailto:Hooq@nrc.gov)>

**Subject:** FW: Interim Written Notification per 10 CFR 21.21(a)(2) Potential Deviation – ASTM A276 Type 316 B Cold Finished Material

To whom it may concern:

This correspondence is submitted in compliance with 10 CFR 21.21(a)(2) - Interim reporting

**Individuals reporting**

Emerson – Fisher Controls International LLC

Catherine Hoeger - Quality Manager

Marshalltown Operations

1702 S. 12<sup>th</sup> Ave

Marshalltown, IA 50158

(641) 754-3210

(641)387 0901

[Catherine.Hoeger@Emerson.com](mailto:Catherine.Hoeger@Emerson.com)

Emerson – Fisher Controls International LLC

Barry Hurst - Director of Quality Americas

(903) 868 8121

(903)267 5162

[Barry.Hurst@Emerson.com](mailto:Barry.Hurst@Emerson.com)

**Deviation and component in question:**

Potential deviation associated with material certified to ASTM A276 Type 316 B Cold Finished specifications (detailed in attached report)

**Expected date for completing the evaluation. May 17, 2026**

Barry Hurst | Director of Quality Americas | Flow Controls  
Emerson | 4725 Highway 75 South | Sherman | TX | 75090 | US  
T +1 +1(903) 868-8121 M+1+1(903)267-5162  
[barry.hurst@emerson.com](mailto:barry.hurst@emerson.com)



Catherine Hoeger  
Quality Manager  
Marshalltown Operations

Emerson  
1702 S. 12<sup>th</sup> Avenue  
Marshalltown, IA, 50158  
USA

T +1 641 754 3210  
M +1 641 387 0901  
Catherine.Hoeger@Emerson.com

April 17, 2026

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk

Subject: Interim Written Notification per 10 CFR 21.21(a)(2) Potential Deviation –  
ASTM A276 Type 316 B Cold Finished Material

Dear Sir or Madam:

Pursuant to the requirements of 10 CFR 21.21(a)(2), Fisher Controls International LLC (“Fisher”) is providing this written interim notification regarding a potential deviation associated with material certified to ASTM A276 Type 316 B Cold Finished specifications.

On February 17, 2026, Fisher identified a potential issue concerning material certification provided to a Fisher customer in which the reported mechanical properties did not meet the minimum ASTM A276 requirements for tensile and yield strength. The material was supplied to Fisher by Curtiss-Wright Nuclear Division under Purchase Order (PO) 4780954832 as ASTM A276 Type 316 B Cold Finished bar stock (0.501” / 0.498” diameter). These materials were procured as safety related.

Following this discovery, Fisher initiated an internal review and identified two additional purchase orders for the same material in inventory with certifications indicating tensile and/or yield strength values below ASTM A276 minimum requirements. All three purchase orders originated from Curtiss Wright Nuclear Division, Middleburg Heights, Ohio, and all were purchased as safety related.

Fisher notified Curtiss Wright Nuclear Division on February 17, 2026, of the potential nonconformance and requested information regarding containment actions, extent of condition, potential root cause, and corrective actions. Fisher also implemented internal containment measures, including segregation of all ASTM A276 Type 316 B Cold Finished material in inventory and isolation of four nonconforming items associated with the initially identified purchase orders.



Catherine Hoeger  
Quality Manager  
Marshalltown Operations

Emerson  
1702 S. 12<sup>th</sup> Avenue  
Marshalltown, IA, 50158  
USA

T +1 641 754 3210  
M +1 641 387 0901  
Catherine.Hoeger@Emerson.com

Curtiss Wright subsequently completed an investigation and determined that four additional purchase orders previously supplied to Fisher contained tensile and/or yield strength values below the ASTM A276 Type 316 B Cold Finished minimum requirements for the certified diameters. Curtiss Wright provided the list of seven affected Fisher purchase orders on March 23, 2026. All seven purchase orders were procured as safety related. These purchase orders are included in Appendix A.

Fisher is currently evaluating whether the reported mechanical property values could affect the fit, form, or function of components supplied to customers. The potentially affected items are plug and stem assembly components. Completion of this evaluation requires customer specific actuator loads and design conditions to perform stem buckling and structural adequacy analyses. At this time, Fisher has not determined that the condition constitutes a defect or a failure to comply.

Questions regarding material certifications not meeting ASTM A276 tensile and/or yield strength requirements will be addressed individually with affected customers. Additional analysis and confirmation of customer design and operating conditions are required before Fisher can determine whether the condition is reportable under 10 CFR Part 21 or presents any potential for loss of function in service. Fisher expects to complete this evaluation by May 17, 2026.

If additional information becomes available that affects reportability determinations, Fisher will issue a subsequent notification in accordance with 10 CFR 21 requirements.

For further questions, please contact Catherine Hoeger, Manager, Quality, at Catherine.Hoeger@Emerson.com or 641 754 3210.

*Catherine Hoeger*

Catherine Hoeger  
Manager, Quality



Catherine Hoeger  
Quality Manager  
Marshalltown Operations

Emerson  
1702 S. 12<sup>th</sup> Avenue  
Marshalltown, IA, 50158  
USA

T +1 641 754 3210  
M +1 641 387 0901  
Catherine.Hoeger@Emerson.com

### Appendix A: Affected Purchase Orders

LBP Order #	Sales Order #	Customer	Customer PO #	Part Number
033 -D7768372	2441792	Duke Energy Progress LLC	03197863	1V6574X0352
019E-P335174	2480351	Arizona Public Service Co	PV1042307	36A9907X452
025 -X283900	2468099	Tennessee Valley Authority (TVA)	7765013	11A5338X432
033 -D7764162	2396798	Duke Energy Corporation	03188627	24A3784X202
019E-P323538	2405961	Arizona Public Service Co Dba Aps West Phoenix	PV1030843	12A4889X092
003 -T10018098	2356505	PSEG Nuclear LLC	4501278868	11A8436X142
019E-P309168	2309775	Arizona Public Service Co	500659277	36A9907X452
019E-P309168	2309775	Arizona Public Service Co	500659277	36A9907X452
019E-P311317	2324270	Arizona Public Service Co	500659106	21A4452X142



Emerson  
205 South Center Street  
Marshalltown, IA 50158  
USA

March 6, 2026

Duke Energy Carolinas LLC  
8470 River Rd SE  
Southport, NC 28461

RE: Use-As-Is Recommendation for 1V6574X0352 Plug/Stem Assembly Supplied for Duke Energy PO# 03197863

Dear Customer:

Emerson product and material engineers have completed an initial engineering analysis of the 1V6574X0352 plug/stem assembly supplied for the Duke repair parts order, PO# 03197863. The analysis was based on information currently available including the material mechanical properties recorded on the CMTR for the S31600 stem material (Heat #W76R) and the as-shipped construction of the 667-ED valve assembly (Serial #5029450) indicated with the order. The engineering calculations completed confirm that the mechanical properties of the valve stem supplied for Duke PO# 03197863 exceed the stem strength properties required for service in the 667-ED valve configuration as it was originally shipped.

A root-cause investigation of the supplier CMTR which inaccurately represents compliance to ASTM A276/276M due to the mechanical properties is still on-going. Since the 1V6574X0352 plug/stem assembly was purchased as a nuclear, safety-foreseeable that Emerson or the stem material supplier will be required to formally notify Duke Energy in accordance with 10 CFR Part 21 due to the CMTR issue.

Sincerely,

A handwritten signature in black ink, appearing to read "Catherine Hoeger".

Catherine Hoeger  
Quality Manager

A handwritten signature in black ink, appearing to read "Andrew Lukensmeyer".

Andrew Lukensmeyer  
Product Safety Officer