

From: [Jessika Wheatley](#)
To: [Hoc, HOO X](#)
Subject: [External_Sender] Part 21 Update: Hanna Cylinders
Date: Monday, April 27, 2026 15:26:16
Attachments: [image001.png](#)
[PART 21 - TFT PO# 2052023 \(E.N. TBD\).docx](#)

Jessika Wheatley | Quality Manager

Hanna Cylinders | 8901 102nd Street | Pleasant Prairie, WI 53158





Hanna Cylinders
8901 102nd St.
Pleasant Prairie, WI 53158

COVER LETTER FOR 10 CFR PART 21 NOTIFICATION

21.21(d)(3)(ii)
[EVENT NUM PROVIDED @ PHONE NOTIFICATION]

Date: April 16, 2026

Attention:

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Subject: Notification of Potential Part 21 Regarding Solenoid Valve Assemblies
Hanna Cylinders P/N: N606-00200-000

The purpose of this letter is to provide the required written notification of a *potential defect* of a basic component in accordance with 10 CFR 21.21(d)(3)(ii). This notification pertains to solenoid valve assemblies supplied by Hanna Cylinders to Trillium Flow Technologies for nuclear applications.

The condition described in this notification is similar in nature to a previously reported issue submitted by Hanna Cylinders in 2025 (NRC Event No. 57959). The current condition is being evaluated to determine whether it represents a recurrence of the previously identified potential failure mechanism or an isolated condition affecting a limited population of components.

This letter contains no regulatory commitments.

If you have any questions or require additional information, please contact:

Jessika Wheatley
Quality Manager
Hanna Cylinders
Phone: (262) 764-8300
Email: jwheatley@hannacylinders.com

Sincerely,

Jessika Wheatley
Quality Manager
Hanna Cylinders

Attachment: NOTIFICATION OF POTENTIAL PART 21 – SOLENOID VALVE ASSEMBLIES

cc:

- Regional Administrator, *w/ attachment (USNRC - Region III)*
- Trillium Flow Technologies, *w/ attachment*
- Hanna Cylinders Quality Administrator, *w/ attachment (records)*



NOTIFICATION OF POTENTIAL PART 21 – SOLENOID VALVE ASSEMBLIES

1. Name and Address of Individual Informing the Commission

Jessika Wheatley,
Quality Manager
Hanna Cylinders
8901 102nd St.
Pleasant Prairie, WI 53158, United States

2. Identification of Basic Components Which Contain a Defect

Component: Solenoid Valve Assembly
Hanna Cylinders Part Number: N606-00200-000
Trillium Flow Technologies Part Number: 27791650C003
Quantity: 26 units

Application: Components for nuclear actuator applications

3. Identification of Firm Supplying the Basic Component

Manufacturer: Hanna Cylinders
Address: 8901 102nd St., Pleasant Prairie, WI 53158
Contact: Jessika Wheatley, Quality Manager

4. Nature of the Defect and Safety Hazard

Defect Description: Hanna Cylinders was informed by Trillium Flow Technologies that a shipment of solenoid valve assemblies exhibited functional issues during handling and/or installation. The condition was described by the customer as being the same issue previously observed and reported in 2025.

Based on the previously reported condition, the potential defect involves improper assembly of the solenoid valve, specifically the “bottom insert seal” not being fully seated into the “plunger” during assembly. This condition could impair proper solenoid valve operation.

All potentially affected solenoid valves are being returned to Hanna Cylinders for evaluation to confirm whether this condition is present.

The solenoid valve assemblies identified in this notification were supplied under a different purchase order and were not part of the population addressed in NRC Event No. 57959.

Potential Safety Hazard: If present, this assembly condition could result in improper operation of the solenoid valve. In nuclear applications, failure of the solenoid valve to perform its intended function could potentially impact safety-related systems, depending on the specific installation and application. Therefore, this condition is being evaluated as a potential substantial safety hazard.

5. Date Information of Defect Was Obtained

Hanna Cylinders obtained information regarding this potential condition on April 10, 2026, when Trillium Flow Technologies notified Hanna Cylinders of defective solenoid valves received from a nuclear facility customer and requested issuance of a return material authorization for replacement.

6. Number and Location of Affected Components

Total Quantity: Up to 24 solenoid valve assemblies

Purchase Order: Trillium PO 2052023

Recipient: Trillium Flow Technologies

29 Old Right Road

Ipswich, MA 01938

United States

Current Status:

- Hanna Cylinders has issued RMA #241558 for the return of all potentially affected solenoid valves.
- Trillium Flow Technologies is coordinating shipment of the components back to Hanna Cylinders.
- Final quantities and condition will be confirmed following receipt and evaluation.

7. Corrective Actions Taken or Planned

• Immediate Actions:

1. Issued RMA #241558 to facilitate return of affected components.
2. Initiated evaluation of returned solenoid valves.
3. Notified quality and engineering personnel and initiated internal tracking under Hanna Cylinders' corrective action process.
4. Coordinated with Trillium Flow Technologies to ensure affected components are removed from service pending evaluation.

• Corrective Action Background

The NRC was previously notified of a similar condition in 2025 under Event No. 57959, at which time corrective actions were implemented, including revised assembly work instructions, personnel training, and enhanced verification steps. The current evaluation is being performed to confirm whether the condition observed in this population is consistent with the previously identified issue and to verify the continued effectiveness of those corrective actions.

8. Advice Given to Purchasers or Licensees

Hanna Cylinders has advised Trillium Flow Technologies to:

- Return all potentially affected solenoid valve assemblies for evaluation,
- Refrain from installation or use of suspect components pending resolution,
- Notify downstream customers, as appropriate, of the potential issue.



Hanna Cylinders
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Pleasant Prairie, WI 53158

9. Evaluation of Defect

Hanna Cylinders is currently evaluating this condition to determine whether it meets the criteria for a reportable defect under 10 CFR Part 21. This notification is submitted as a potential Part 21 notification out of an abundance of caution.

10. Additional Information

This report is submitted in accordance with 10 CFR Part 21.21(d)(3)(ii). Hanna Cylinders will maintain all records related to this defect for a minimum of five years as required by 10 CFR Part 21.51.

Hanna Cylinders is committed to nuclear safety and has taken immediate action to address this defect. We will cooperate fully with the NRC and provide any additional information requested.

Responsible Officer Certification:

I hereby certify that this report has been prepared to the best of my knowledge and belief and that the information contained herein is true and accurate.

Jessika Wheatley,
Quality Manager
Hanna Cylinders
Date: 04/16/2026