

Part 21 (PAR)

Event # 50900

<b>Rep Org:</b> CURTISS WRIGHT FLOW CONTROL CO.	<b>Notification Date / Time:</b> 03/17/2015 09:59 (EDT)
<b>Supplier:</b> CURTISS WRIGHT FLOW CONTROL CO.	<b>Event Date / Time:</b> 03/17/2015 (EDT)
	<b>Last Modification:</b> 03/17/2015
<b>Region:</b> 1	<b>Docket #:</b>
<b>City:</b> EAST FARMINGDALE	<b>Agreement State:</b> Yes
<b>County:</b>	<b>License #:</b>
<b>State:</b> NY	
<b>NRC Notified by:</b> JOHN DeBONIS	<b>Notifications:</b> GLENN DENTEL R1DO
<b>HQ Ops Officer:</b> STEVE SANDIN	BINOY DESAI R2DO
<b>Emergency Class:</b> NON EMERGENCY	PART 21/50.55 REACTORS EMAIL
<b>10 CFR Section:</b>	
21.21(a)(2) INTERIM EVAL OF DEVIATION	

INTERIM PART 21 REPORT - POTENTIAL TEST INDUCED DEFECT IN A 0867F MAIN STEAM SAFETY RELIEF VALVES

The following report was received from Curtiss - Wright via email:

"This letter provides interim notification of a potential test induced defect in a 0867F Series Main Steam Safety Relief Valves (MS-SRVs) manufactured and supplied by Target Rock (TR). The information required for this notification is provided below:

"(i) Name and address of the individual or individuals informing the Commission.

William Brunet  
 Director of Quality Assurance  
 James White  
 General Manager  
 Target Rock, Business Unit of Curtiss-Wright Flow Control Corporation  
 1966E Broadhollow Road  
 East Farmingdale, NY 11735

"(ii) Identification of the basic component supplied for such facility or such activity within the United States which may fail to comply or contains a potential defect.

Target Rock 0867F Series of Main Steam-Safety Relief Valves Manufactured by Target Rock. This is a 3-stage piloted valve consisting of a main valve (the 'Main') with an actuator mounted to it (the 'Topworks'). The 0867F is the latest generation of the 67F line of MS-SRVs, including the original 3-Stage and 2-Stage designs, and this

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 MRR

product line has over 40 years of plant operational experience. Only the 0867F is under investigation. This is due to the differences between the 0867F design and the other designs.

"(iii) Identification of the firm supplying the basic component which fails to comply or contains a defect.

Target Rock, Business Unit of Curtiss-Wright Flow Control Corporation  
1966E Broadhollow Road  
East Farmingdale, NY 11735

"(iv) Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply.

As we understand it, the Pilgrim Station recently manually opened the Target Rock Main Steam Safety Relief Valves (MS-SRVs) as part of cooling down the reactor following a loss of offsite power. One of the four installed MS-SRVs may not have fully opened. As-found steam testing of the affected MS-SRV did not duplicate this failure; the valve opened on demand. However, the valve did not re-close as expected. Internal inspections found damaged parts in the main stage subassembly that could potentially affect the ability of the MS-SRV to operate as designed.

We are investigating potential root causes for this damage. However, we are still unable to determine if a specific defect exists. GE SIL-196, Supplement 17 determined Main Spring relaxation was caused by 'extreme dynamics encountered during limited flow testing . Valve dynamics under full flow conditions (i.e. discharge not gagged) are much less severe than those under limited flow conditions.' These extreme dynamics, under limited flow test conditions, are the focus of our investigation. Specific areas of investigation include;

- a) Testing of materials to verify they are consistent with our material specifications,
- b) evaluation of differences between the 0867F and earlier designs, and
- c) evaluation of the differences between different limited flow test loop configurations and test procedures

"(v) The date on which the information of such defect or failure to comply was obtained.

The Pilgrim event occurred on January 27, 2015. As-found testing occurred on February 2, 2015.

"(vi) In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured, or being manufactured for one or more facilities or activities subject to the regulations in this part.

While we have yet to determine if a specific defect exists, the following plants were supplied 0867F MS-SRVs:

- Pilgrim (Model 09J-001) Quantity Shipped = 8
- Fitzpatrick (Model 09H-001) Quantity Shipped = 4, Quantity on order= 8
- Hatch 1 and 2 (Model 09G-001) Quantity Shipped= 24, Quantity on order= 12

The following plants will be supplied 0867F MS-SRVs:

- Hope Creek (Models 14J-001, 14J-002) Quantity on order = 7

"(vii) The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action.

The root cause of the potential test induced defect has not yet been confirmed as of the date of this report. Therefore, no specific corrective actions have been initiated. Target Rock Problem Report 080 will document the corrective actions when they are determined and complete the 10 CFR Part 21 evaluation of the potential test induced defect. This determination will be based on further mechanical and material evaluations. TR anticipates completing these evaluations within 45 days; however, in the event the evaluations are not completed, TR will forward another interim report within 45 days.

"(viii) Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.

We are working with all three (4) sites to identify appropriate precautions.

"(ix) In the case of an early site permit, the entities to whom an early site permit was transferred.

Not applicable.

"Should you have any questions regarding this matter, please contact Michael Cinque, Director of Program Management at (631 ) 293-3800."

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www.cw-industrial.com

NID#15155  
16 March 2015

**Attn: Document Control Desk**  
**U.S. Nuclear Regulatory Commission**  
Washington, D.C. 20555-001

Subject: 10 CFR Part 21 Interim Report  
Notification of a Potential Test Induced Defect  
**0867F Series Main Steam Safety Relief Valves**

Dear Sir or Madam:

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Director of Quality Assurance

James White  
General Manager

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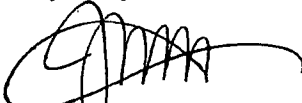
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Not applicable.

Should you have any questions regarding this matter, please contact Michael Cinque, Director of Program Management at (631) 293-3800

Very Truly Yours,



James White  
General Manager

Target Rock, Business Unit of Curtiss-Wright Flow Control Corporation

cc: Michael Cinque  
William Brunet  
Steve Pauly  
Alex DiMeo  
John DeBonis  
Ed Bradshaw