Part 21 (PAR)

Event#

50888

(EDT)

Rep Org: WEIR VALVES AND CONTROLS USA INC.

Notification Date / Time: 03/13/2015 15:48

(EDT)

Supplier: WEIR VALVES AND CONTROLS USA INC.

Event Date / Time: 03/13/2015

Last Modification: 03/13/2015

Region: 1

City: IPSWITCH

Docket #: Agreement State:

Yes

County:

State: MA

License #:

R3DO

NRC Notified by: ARTHUR BUTTERS

Notifications: STEVE ORTH

**HQ Ops Officer: DANIEL MILLS** 

**Emergency Class: NON EMERGENCY** 

PART 21/50.55 REACTORS

**EMAIL** 

10 CFR Section:

21.21(d)(3)(i)

DEFECTS AND NONCOMPLIANCE

#### IMPROPER WELD USED ON GATE VALVE COVER

The following was received from the licensee via email:

"This notification is being submitted pursuant to the guidelines of 10 CFR Part 21 to report that, during the manufacturing of a replacement cover for a 24 inch gate valve on the reactor recirc line at Exelon LaSalle. Weir Valves and Controls used a weld that was not compliant to ASME III Subsection NB requirements.

"During review of the weld at site, the question was raised based on site procedures required a 2:1 profile in accordance to EPRI guidelines. During review of the documentation to determine if the 2:1 profile was required in this case, Weir Valves and Controls determined that improper weld call out was used on the design prints. The weld was corrected at site to meet the both ASME III Subsection NB requirements and EPRI guidelines.

"Weir Valves and Controls has performed an extent condition review and has concluded that no other undersized welds were made and delivered to any other operating sites.

"The root-cause of the issue was the improper call-out of the weld by design engineering.

"Weir Valves and Controls is performing corrective actions to ensure future re-occurrences cannot occur in design engineering."

### Weir Valves & Controls USA Inc.

29 Old Right Road Ipswich, MA 01938-1119 Tel: +1 978 744 5690 Fax: +1 978 741 3626

USA

www.weirpowerindustrial.com

Excellent Engineering Solutions



March 13, 2015

NRC's Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555–0001

RE: Exelon LaSalle Cover Modification for 2B33-F067B (IR #2443746)

Dear Sir or Madam;

This notification is being submitted pursuant to the guidelines of 10 CFR Part 21 to report that, during the manufacturing of a replacement cover for a 24" Gate valve on the reactor recirc line at Exelon LaSalle, Weir Valves and Controls used a weld that was not compliant to ASME III Subsection NB requirements.

During review of the weld at site, the question was raised based on site procedures required a 2:1 profile in accordance to EPRI guidelines. During review of the documentation to determine if the 2:1 profile was required in this case, Weir Valves and Controls determined that improper weld call out was used on the design prints. The weld was corrected at site to meet the both ASME III Subsection NB requirements and EPRI guidelines.

Weir Valves and Controls has performed an extent condition review and has concluded that no other undersized welds were made and delivered to any other operating sites.

The root-cause of the issue was the improper call-out of the weld by design engineering.

Weir Valves and Controls is performing corrective actions to ensure future re-occurrences cannot occur in design engineering.

Please feel free to contact me with any questions or comments.

Regards,

Arthur C. Butters

Director of Engineering: Nuclear



## 10 CFR PART 21 EVALUATION

Evaluation of Deviation or Potential Failure to Comply

**DOCUMENT** 

PAGE

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	Part 1. Identification	of Concern and Prefiningry Evalua	ekkon			
1A Identify the source of the information on the <b>deviation</b> or potential <b>failure to comply</b> :						
	rawing 42115-807 calls for a 1/16" (0.06") fillet					
,						
1B	Describe the deviation or potential failure	e to comply that has been discovered				
	ng 42115-807 is designed to ASME Sect III,					
	um weld thickness requirements for this part					
		<b>,</b>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	10 d d d d d d d d d d d d d d d d d d d					
1C	If the issue concerns \( \sqrt{a} \) a potential <b>failur</b>	• to comply, go to Section 1D; ☐ a d	leviation, go to Section 1E			
1D	Does the potential failure to comply represent a violation of the Atomic Energy Act of 1954, as amended, or any					
	applicable rule, regulation, order, or licens	se of the NRC, including technical spec	cification limits?			
	If <b>Yes</b> or <b>Uncertain</b> , check \(\sigma\) and complete Section 1E.					
	If <b>No</b> , check $\square$ and complete Section 1					
4=(4)			V-1 - 0 0 · · · · · · · · · · · · · · · ·			
1E(1)	Does the <b>deviation</b> affect the functionality	·	valves & Controls USA?			
	If Yes or Uncertain, check 🖾 and com					
	If No, check ☐ and complete Section 1F and Explain:					
1E(2)						
	If Yes or Uncertain, check 🖂 and complete Section 1E(3).					
45(2)	If No, check and complete Section 1F and Explain:					
1E(3)	•					
	If Yes or Uncertain, check \( \subseteq \) and com					
45(4)	If No, check and complete Section 1		- cure ment de cure ento			
1E(4)	Does the <b>basic component</b> deviate from	•	ocurement document?			
	If <b>Yes</b> or <b>Uncertain</b> , check ⊠ and com					
	If No, check and complete Section 1					
1F	The deviation or potential failure to com	ply is not reportable in accordance to	10CFR21.			
			ĺ			
0	riginator (signature)	Originator (print)	Date			
_ <u></u>	esignated Responsible Officer (signature)	Designated Responsible Officer (r	orint) Date			
Designated Responsible Officer (signature) Designated Responsible Officer (print) Date  Have local Director, Quality Assurance retain this form on file for 5 years						
	Travo rodar Diroctor, Quan					
		Discowary				
1G	The deviation or potential failure to com		pordones with 1005B21			
10	The deviation of potential failure to con					
_	Whi	Justin Meier	1/29/15			
001	riginator (signature)	Originator (print)	Date			
		t information to the Designated Respor				
1H	I have reviewed Part 1 and determined the					
	based on the basis below for reportability	in accordance with 10CFR21. (Start of	60-day clock)			
			Initial Dua Data:			
6	1-6m	2/2/4	Initial Due Date:			
	esignated Responsible Officer (signature)	2/z/15	3/7/15			
			——————————————————————————————————————			
	Within the 60-day clock started above, I w		railure to comply discovered in			
	Part 1 to determine reportability in accorda	ance with Tuckket.	•			
	16/2i	7/7/15				
- e	ognizant Technical Engineer (signature)					
	3 ( 3 )					



## **10 CFR PART 21 EVALUATION**

Evaluation of Deviation or Potential Failure to

**DOCUMENT** 

**PAGE** 

Comply	10CFR012815.docx	2 of 4
Paril 2: Technocal Evaluatio	ì:	
2A Identification of the company supplying the basic component or a	ctivity which contains a deviation	n or potential
failure to comply: Weir Valves & Controls supplied the basic component that failed to comply ASME Sect. III	with the Subsection NB weld rec	uirements of
<b>2B</b>	leed to be addressed:	
There are no discrepencies to be addressed.		
Provide A) Technical Justification of Unit Acceptability; or B) Propo	sed Technical Solution	
B) Proposed Technical Solution The issue was brought to the attention of Weir Valves & Controls during rec plant due to the weld not in conformance with Exelon Internal Procedures C 1025 Revision 5 guidelines to have a 2:1 profiles for socket welds in high vil Valves & Controls determined the weld did not comply with the requirement welds.	C-AA-501-1008 Revision 7 & Cobration service. Upon investigation	C-AA-501- on, Weir
The decision was made for the plant to do a weld repair under the sites ASN performed under Work Order 1747359-32 (as identified in IR2443746). The compliance of ASME Sect III Subsection NB weld requirements.		
Weir Valves & Controls has revised drawing 42115-807 to reflect the correct	t weld size.	
It appears that this would create a potential safety hazard depending on pla continue the evaluation with input from the plant, and review the issue with		ntrols to
This issue is reportable pursuant to 10CFR21.  Z/z²/l¹5   This issue is not reportable pursuant to 10CFR21.  A decision on reportability cannot be made based on the availance.	ble information.	

A. Butters 2/27/15 Designated Responsible Officer (signature) Date The DRO will finalize the reporting requirements and submit the reports to the NRC and any affected facilities within 30 days.

Review with the DRO within 5 days of completion

J. Merer

Cognizant Technical Engineer (signature)



# 10 CFR PART 21 EVALUATION Evaluation of Deviation or Potential Failure to Comply

**DOCUMENT** 

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	Part 3 Witten went of Repu	antalati y i wetterit an			
3A Basis for decision:					
After review with the site, the undersized weld is reportable under 10CFR21. Due to the issue being brought up at plant inspection, and the weld presenting a failure to comply with ASME Section III Subsection NB.					
		• •			
·					
		`,			
3B Number and location of al					
In extent condition for both valve and service modification orders, Weir identified all orders with socket welds that needed to be evaluated to ensure the attached welds meet the requirements of the applicable code year. Based on this thourough review, only the valve bonnet that was shipped to LaSalle and started this evaluated (WVC CO 0030000297) was identified. As part of a modification, this is only instance that this particular design is used. The weld was repaired prior to being installed at the plant to meet the requirements of ASME Section III.					
		·			
		·			
3C I have evaluated the inform	mation and technical assessme	ent developed and			
This issue is not report	e pursuant to 10CFR21. able pursuant to 10CFR21.				
☐ This issue is not report ☐ A decision on reportab	e pursuant to 10CFR21. table pursuant to 10CFR21. ility cannot be made based on	the available information.			
☐ This issue is not report ☐ A decision on reportab	e pursuant to 10CFR21. table pursuant to 10CFR21. ility cannot be made based on				
☐ This issue is not report ☐ A decision on reportab	e pursuant to 10CFR21. table pursuant to 10CFR21. ility cannot be made based on	the available information. tions within the allowable timeframes.			
☐ This issue is not report ☐ A decision on reportab	e pursuant to 10CFR21.  cable pursuant to 10CFR21.  ility cannot be made based on proceed with all proper notificat	the available information.			