

January 19, 2023

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

Attention: Document Control Desk

Subject: Notification

Gentlemen,

On October 24, 2022, Entergy informed us via e-mail that one of our butterfly valves, model W19-0CP13-KCDN-B0001, was found to have a number of fasteners loose, namely those holding the laminated seal in place by way of a seal ring. This was observed on one valve in a lot of six.

Our evaluation indicates that there are several credible failure modes resulting from these fasteners being "finger tight", as described by personnel at Arkansas One Unit 1 (ANO Unit 1):

- 1. Increased leak rate across the valve seat, proportional with the number of fasteners lacking the nominal torque
- 2. Potential limitation in open/close range of travel as result of seal or retaining ring sliding out of position, resulting in severe leakage across the seat
- 3. Potential for fasteners to come completely loose and become entrained in the flow, subsequently causing damage to equipment located downstream.

The consequences and the severity of these potential failure modes cannot be evaluated as we do not know the system layout and function. Entergy have already remedied the situation, and have received a copy of the interim notification.

We have compiled a list of utilities that have received valves of similar design, and assembled in the same facility. The list is annexed.

Our records show that no claim was made by those listed concerning the fasteners not being tightened to torque, or for performance issues linked to the credible failure modes, and we therefore believe this to be an isolated case, but we cannot be absolutely certain. As the consequences and the severity of these potential failure modes cannot be evaluated in absence of information regarding the system layout and function, we will send notifications to those identified in the annex, with our recommendation to check the torque on these fasteners at the next scheduled maintenance.

We are taking the necessary preventative actions.

For any additional information on this matter please contact me at +1 438 817-9908 or at victor.apostolescu@velan.com.

Sincerely yours,

Sincerely,

Victor Apostolescu, Eng. Vice-president, Quality Assurance

CC: B. Carbonaro, Y. Lauzé, M. Lauzon, B. Masterson

Annex 1

DATE	CUSTOMER NAME	VALVE FIGURE NO.	DATE SHIPPED
5/Mar/12	DUKE ENERGY CAROLINAS, LLC	L18-0CP02-FCDN	10-Feb-12
5/Mar/12	DUKE ENERGY CAROLINAS, LLC	L24-0CP02-FCDN	10-Feb-12
8/Jun/12	FIRST ENERGY CORPORATION	L16-0CP02-ACDN-M	5-Jun-12
25/Sep/13	FIRST ENERGY CORPORATION	W21-0CP13-DCDN-G	20-Sep-13
25/Sep/13	FIRST ENERGY CORPORATION	L24-0CP13-XCDN-M0001	20-Sep-13
25/Sep/13	FIRST ENERGY CORPORATION	L22-0CP13-XCDN-M0001	20-Sep-13
3/Jul/14	EXELON GENERATION	W14-0CP02-ACAN	23-Jun-14
11/Apr/15	FIRST ENERGY CORPORATION	W21-0CP13-DCDN	1-Apr-15
19/Feb/16	GEORGIA POWER COMPANY	W15-0CP13-FCDN	17-Feb-16
19/Feb/16	GEORGIA POWER COMPANY	W15-0CP13-FCDN	17-Feb-16
19/Jul/16	DUKE ENERGY CAROLINAS	L24-0CP02-FCDN	18-May-16
24/Aug/16	FIRST ENERGY CORPORATION	W21-0CP13-DCDN	8-Aug-16
22/Sep/16	GEORGIA POWER COMPANY	W15-0CP13-FCDN	9-Sep-16
21/Oct/16	GEORGIA POWER COMPANY	W15-0CP13-FCDN	18-Apr-16
21/Oct/16	FIRST ENERGY CORPORATION	L15-0CP02-ACDN	3-Aug-16
21/Oct/16	FIRST ENERGY CORPORATION	L15-0CP02-ACDN	3-Aug-16
21/Oct/16	FIRST ENERGY CORPORATION	L15-0CP02-ACDN	3-Aug-16
21/Oct/16	FIRST ENERGY CORPORATION	L15-0CP02-ACDN	3-Aug-16
2/Mar/17	DUKE ENERGY CAROLINAS, LLC	L18-0CP02-FCDN	20-Dec-16
15/Aug/18	FIRST ENERGY CORPORATION	W21-0CP13-DCDN-G0001	19-Jun-18
22/Aug/19	FIRST ENERGY CORPORATION	L22-0CP13-XCDN	14-Aug-19
28/Nov/19	GEORGIA POWER	W19-0CP13-FCDN	22-Nov-19
28/Nov/19	GEORGIA POWER	W19-0CP13-FCDN	25-Nov-19
7/Aug/20	DUKE ENERGY	L36-0CP13-XCDN	7-Aug-20
5/Oct/20	DUKE ENERGY	L42-0CP13-XCDN	2-Oct-20
02-16-2021	DOMINION	L20-0DP02-XCDA	02-16-2021
02-16-2021	DOMINION	L20-0DP02-XCDA	02-16-2021
02-16-2021	DOMINION	L20-0DP02-XCDA	02-16-2021
02-16-2021	DOMINION	L20-0DP02-XCDA	02-16-2021
02-16-2021	DOMINION	L20-0DP02-XCDA	02-16-2021
02-16-2021	DOMINION	L20-0DP02-XCDA	02-16-2021
02-22-2021	DOMINION	L20-0DP02-XCDA	02-22-2021
02-24-2021	DOMINION	L20-0DP02-XCDA	02-24-2021
04-28-2021	DOMINION	L20-0DP02-XCDA	04-28-2021
04-29-2021	DOMINION	L20-0DP02-XCDA	04-29-2021
05-27-2021	DOMINION	L20-0DP02-XCDA	05-27-2021
10/5/2022	ENTERGY	W21-0CP13-KCDN	10/5/2022
10/5/2022	ENTERGY	W21-0CP13-KCDN	10/5/2022
16/5/2022	ENTERGY	W19-0CP13-KCDN	16/5/2022
10/6/2022	ENTERGY	W21-0CP13-KCDN	10/6/2022
10/6/2022	ENTERGY	W21-0CP13-KCDN	10/6/2022