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VIA REGULAR MAIL:
U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001

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U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852-2746

Subject: Update to Interim Report- 10CFR 21 Evaluation regarding potential deficiencies in Seismic Qualifications for PV-62

Reference Pentair Interim Report 20140615.

The purpose of this letter is to provide updated information as of the current date to the NRC in regards to the subject line and the requirements of 10CFR 21 Part 21.21 (a)(2).

This report is a result of NRC Inspection Report No. 99901431/2013-201 dated 20 August 2013 and Pentair Corrective Action Report (CAR 673). In general CAR 673 determined that required seismic testing was improperly performed and delivered to the customer. The subject valve (PV-62) of CAR 673 was returned to Pentair and successfully retested. The customer did not have an active reactor.

The original attached report was to inform the NRC of the potential 10CFR 21 evaluation. Pentair Valves and Controls US LP, dba Anderson Greenwood Crosby notified the NRC of this potential and the affected licensees of the results of the 10CFR 21 evaluation.

The purpose of this letter is to update the status of the evaluations for the identified customers and product from the previous report and follow on actions.
Required information as per 10CFR Part 21.21 (d)(4) follows:

(i) Name and Address of the individual or individuals informing the Commission:

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Pentair Valves and Controls US LP, dba Anderson Greenwood Crosby

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(ii) Identification of the facility, the activity, or basic component supplied for such facility or such activity within the Unites States which fails to comply or contains a defect.

Pentair previously identified 93 test reports that have potential deficiencies in the seismic requirements. We have identified 83 assemblies, from the 93 test reports, and we have completed the process of identifying the potential additional affected valve assemblies.

The following valves have been evaluated and determined to not be a Part 21 reportable issue and are considered to be closed. Pentair Engineering has determined that all requirements have been met and none of the delivered product are of indeterminate quality.

Test Report	Assembly Number	Customer
5560	N900132	Korea Hydro Shin Kori
5527	N900010	Korea Hydro Shin Wolsong
5520	N900009	Korea Hydro Shin Kori
5528	N900011	Korea Hydro Shin Wolsong
3832	N60582	WPPS Units 3 & 5
3984	N61106	Mill Power Cherokee & Perkins
3718	N58737	Bechtel San Onofre Units 2 & 3
3719	N58737	Bechtel San Onofre Units 2 & 3
4159	N66285	Bechtel Korea Nuclear Units 7 & 8
5472	N99890	Korea Hydro Yonggwang Units 5 &6
5487	N99965	Korea Hydro Kori Unit 1
5488	N99965	Korea Hydro Kori Unit 1
5488	N99890	Korea Hydro Yonggwang Units 5 &6
5529	N900048	Korea Hydro Kori Units 3 & 4
5530	N900048	Korea Hydro Kori Units 3 & 4
5558	N900044	Westinghouse (AP1000)
5570	N900091	State Nuclear Sanmen
5570	N900106	State Nuclear Haiyang NPP Unit 2
5572	N900091	State Nuclear Sanmen
5572	N900106	State Nuclear Haiyang NPP Unit 2
5591	N900091	State Nuclear Sanmen
5591	N900106	State Nuclear Haiyang NPP Unit 2
5510	N900044	Westinghouse (AP1000)
4050	N62569	Georgia Power Bechtel
3807	N59180	Under Review

4175		N66089	Ontario Hydro Darlington Generating Station A
5030		N82749	Korea Electric Ulchin Units 3 & 4
5556		N900028	Westinghouse (AP1000)
5509		N900028	Westinghouse (AP1000)
5419		N97793	Korea Electric Ulchin Units 5 & 6
5518		N99825	Korea Hydro Shin Wolsong Units 1 & 2
5498		N99824	Korea Hydro Shin Kori Units 1 & 2, Korea Electric Ulchin Units 5 & 6
5498		N97793	Korea Hydro Shin Kori Units 1 & 2, Korea Electric Ulchin Units 5 & 6
3748		N59283	Taiwan Power Kyosheng Plant Units 1 & 2
3750		N59283	Taiwan Power Kyosheng Plant Units 1 & 2
3754		B59283	Taiwan Power Kyosheng Plant Units 1 & 2
3899		N59283	Taiwan Power Kyosheng Plant Units 1 & 2
4051		N59283	Taiwan Power Kyosheng Plant Units 1 & 2
5244		Under Review	Under Review
5400		Under Review	Under Review
5497		N99751	Korea Hydro Shin Kori Units 1 & 2
5515		N99798	Korea Hydro Shin Wolsong Units 1 & 2
4506		N73760	PWRPP
4506		N73762	PWRPP
4508		N73763	PWRPP
4049		N61187	Bechtel Public Service Hope Creek Units 1 & 2
3892		N59276	Taiwan Power Kyosheng Plant Units 1 & 2
4533		N73776	Weir Pump, Sizewell B Power Station
3841		N61843	Carolina Power and Light, Shearon Harris Station
3860		N44417	Under Review
4048		N61190	Bechtel Public Service Hope Creek Units 1 & 2
3850		N61843	Carolina Power and Light, Shearon Harris Station
3875		Under Review	Under Review
3749		N59277	Taiwan Power Kyosheng Plant Units 1 & 2
3798	N59149		Ebasco Florida Power & Light St. Lucie Unit 2
3819		N59148	Ebasco Florida Power & Light St. Lucie Unit 2
3839		N60908	Bechtel Public Service Hope Creek Units 1 & 2
3860		N44417	Carolina Power and Light, Shearon Harris Station
3893		N59280	Taiwan Power Kyosheng Plant Units 1 & 2
3895		N59286	Taiwan Power Kyosheng Plant Units 1 & 2
3896		N60067	Taiwan Power Kyosheng Plant Units 1 & 2
3898		N59277	Taiwan Power Kyosheng Plant Units 1 & 2
4509		N73464	PWRPP, Sizewell B Power Station
3747		N59284	Taiwan Power Kyosheng Plant Units 1 & 2
3900		N59284	Taiwan Power Kyosheng Plant Units 1 & 2
4190		N67438	Bechtel Public Service Hope Creek Units 1 & 2
3723		N60239	Southern California Edison San Onofre Units 2 & 3
3840		N59150	Ebasco Florida Power & Light St. Lucie Unit 2

3874	N60905	Bechtel Public Service Hope Creek Units 1 & 2
5244	Under Review	Under Review
3842	N60912	Bechtel Public Service Hope Creek Units 1 & 2
3894	N59281	Taiwan Power Kyosheng Plant Units 1 & 2
3897	N59287	Taiwan Power Kyosheng Plant Units 1 & 2
4510	N73765	PWRPP, Sizewell B Power Station
3879	N61188	Bechtel Public Service Hope Creek Units 1 & 2
3904	N63185	Ebasco Florida Power & Light St. Lucie Unit 2
3922	N64023	Ebasco Florida Power & Light St. Lucie Unit 2
4507	N73761	PWRPP, Sizewell B Power Station
5489	Under Review	Under Review
5490	Under Review	Under Review
5588	Under Review	Under Review
5605	Under Review	Under Review
5607	Under Review	Under Review
5611	Under Review	Under Review
5612	Under Review	Under Review
5615	Under Review	Under Review
5618	Under Review	Under Review
3887	N62933	Pennsylvania Power and Light Susquehanna Units 1 & 2
3887	N62934	Pennsylvania Power and Light Susquehanna Units 1 & 2
3901	N59288	Taiwan Power Kyosheng Plant Units 1 & 2
3902	N60518	Taiwan Power Kyosheng Plant Units 1 & 2
4179	N60901	Bechtel Public Service Hope Creek Units 1 & 2
4200	N67795	Pennsylvania Power and Light Susquehanna
4201	N66295	Bechtel Korea Electric Korea Nuclear Units 7 & 8
4271	N65602	Peerless, Washington Public Power, Unit 1

The following valves have been evaluated and determined that Pentair Engineering cannot determine if the quality requirements have been met. Pentair has determined that while there is little risk to the valve not performing as designed, there is not positive documentation that the valves were tested correctly. Pentair has determined that the only correct method to determine the quality is to test the valve in both directions, thereby eliminating the uncertainty of testing in the weakest axis.

To this end, Pentair has ordered a test valve and will test the valve using the correct procedure. The test is scheduled to be completed by the end of August 2014.

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The valves affected are listed below:

N98342-00-0001 through -0009 (Hanjung- Shin Ulchin 5&6)
N900008-00-0001 through -0008 (Doosan – Shin Kori 1&2)
N900010-00-0001 through -0008(Doosan – Shin Wolson 1&2)

Pentair Mansfield formally requests an extension to complete the above mentioned testing until August 31, 2014.

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

Pentair Valves and Controls US LP, dba Anderson Greenwood Crosby
Mansfield Operations
55 Cabot Blvd
Mansfield, MA 02048

(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.

In evaluating Pentair Correction Action Report (CAR 673) an extent of conditions required an evaluation of all test reports that required a static seismic load test in the least rigid axis.
The testing of valves in the incorrect axis has the potential for indeterminate functionality of the valves during a seismic event.

Pentair Mansfield has completed the review of the total population. As a result of the review, 25 valves (same model) shipped to three customers as listed in section (ii) have indeterminate quality. Pentair will be assembling and testing an identical valve to determine whether the valves delivered are reportable. The anticipated completion date is 31 August 2014.

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

20 August 2013

(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.

To date Pentair has identified all affected valves. See section (ii)

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(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.

Pentair Mansfield has completed the investigation. As a result, with the exception of the noted valves, Pentair has determined that while there is little risk to the valves not performing as designed, there is not positive documentation that the valves were tested correctly. Pentair has determined that the only correct method to determine the quality is to test the valve in both directions, thereby eliminating the uncertainty of testing in the weakest axis.

To this end, Pentair has ordered a test valve and will test the valve using the correct procedure. The test is scheduled to be completed by 31 August 2014.

N98342-00-0001 through -0009 (Hanjung- Shin Ulchin 5&6)
N900008-00-0001 through -0008 (Doosan – Shin Kori 1&2)
N900010-00-0001 through -0008(Doosan – Shin Wolson 1&2)

(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.

None at this time.

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

Not applicable.

If you have any questions or wish to discuss this matter or this report, please feel free to contact me.

Sincerely,

Brian L. Martin
Quality Assurance Manager

Michael J. Rider
Engineering Manager