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Part 21 (PAR)		Event #	51078
Rep Org:	AECOM ENERGY & INDUSTRIAL C	ONST. Notificati	on Date / Time: 05/18/2015 15:	18 (EDT)
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Region:	1	Docket #:		
City:	PRINCETON	Agreement State:	Yes	
County:		License #:		
State:	NJ			
NRC Noti	fied by: ART LEMBO	Notifications:	JAMES DWYER	R1DO
HQ Ops	Officer: STEVE SANDIN		BRIAN BONSER	R2DO
Emergency Class: NON EMERGENCY			MICHAEL KUNOWSKI	R3DO
10 CFR Section:			NEIL OKEEFE	R4DO
21.21(a)(2) INTERIM EVAL OF DEVIATION	ON	PART 21/50.55 REACTORS	EMAIL
		,		

INTERIM 10 CFR PART 21 REPORT REGARDING DEVIATIONS WHILE UTILIZING BENTLEY SOFTWARE STAAD.PRO ON SAFETY RELATED CALCULATIONS

"This letter provides an Interim report in accordance with 10 CFR 21.21(a)(2) pertaining to the identification of deviations associated with calculations that were supplied to various licensees. The deviations stemmed from recently identified errors in vendor supplied software that is used in various structural analysis and design applications.

"The software that was used, STAAD.Pro, is provided by Bentley Systems Incorporated. The present QA validated version of STAAD.Pro, V8i SELECT Series 4 Version 20.07.09.31, and prior versions have been used on various safety related calculations for nuclear power plants as well as a general analysis and design tool for non-safety related calculations for nuclear and non-nuclear power plants and facilities.

"In accordance with our [AECOM] Nuclear QA Program, URS Energy & Construction (an AECOM Company) became aware of the deviations as a result of our periodic review of vendor issued error reports; specifically, STAAD.Pro Critical Error Report SPRO5336 and STAAD.Pro Critical Error Report SPRO5682. The noted errors can create instances that generate incorrect internal forces and moments in a structural member at various locations along the member's length. The result can be non-conservative evaluations of structural members (i.e., can under estimate the stress level in the analyzed members) and can potentially result in the inadequate design of structural components.

"The software vendor is actively working to correct the noted deviations. Bentley anticipates that a modified version to STAAD.Pro will be issued in the third quarter of 2015. Alternate approaches are being pursued to accelerate completion of the evaluation of the noted deviation. We [AECOM] are notifying our clients of this issue and will provide follow-up written notification to the NRC within 30 days.

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"If you have any questions concerning this information, please contact Steve Mannon, Director of Licensing, at 803-412-5145.

"At this time the potentially affected customers that have been notified concerning this issue are Exelon and DTE Energy. We [AECOM] are continuing our evaluation of potentially affected customers."

AECOM 510 Carnegis Center Princeton, NJ, 08540 www.aecom.com 609 720 3325 tel

10 CFR 21.21

May 18, 2015 Via Fax: NRC Operations Center 301-816-5151

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

SUBJECT: INTERIM 10 CFR PART 21 REPORT REGARDING DEVIATIONS WHILE UTILIZING BENTLEY SOFTWARE STAAD.PRO ON SAFETY RELATED CALCULATIONS

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Sincereh

Art Lembo General Manager & President - Power AECOM Energy & Industrial Construction