



WECTEC LLC  
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10 CFR 21.21

January 31, 2017

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

SUBJECT: 10 CFR PART 21 REPORT REGARDING A PIPING SPOOL WELD  
NONCONFORMANCE FOR V. C. SUMMER UNIT 2 AP1000® PROJECT

The attachment to this letter provides a report in accordance with 10 CFR 21.21 pertaining to a piping spool that was supplied to Aecon Industrial for use in a portion of the Chemical and Volume Control System (CVS) for the V. C. Summer Unit 2 AP1000® project. This issue was previously described in an interim report submitted by WECTEC LLC in a letter dated December 2, 2016 (NRC Log No. 2016-70-00, Accession No. ML16349A590).

If you have any questions pertaining to this information, please contact Curtis Castell, Licensing Manager, at 980-859-6373.

Sincerely,

A handwritten signature in black ink, appearing to read "David Durham". The signature is fluid and cursive.

David Durham  
President  
WECTEC LLC

cc: Regional Administrator, USNRC, Region II

Attachment

EE19  
NRD

10 CFR PART 21 REPORT REGARDING A PIPING SPOOL WELD NONCONFORMANCE  
FOR V. C. SUMMER UNIT 2 AP1000® PROJECT

This report is being provided as an interim report in accordance with 10 CFR 21.21.

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

David Durham  
President  
WECTEC LLC  
3735 Glen Lake Drive  
Charlotte, NC 28208

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

Based on information contained in nonconformance and disposition (N&D) report, a piping spool that was supplied to Aecon Industrial for use in a portion of the Chemical and Volume Control System (CVS) for the V. C. Summer Unit 2 AP1000® project was found to have a weld with an underfill condition.

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

Construction activities, which includes procurement of these materials for the V. C. Summer AP1000® project, are being performed by WECTEC LLC. The affected piping spool was supplied to Aecon Industrial by WECTEC LLC as customer furnished material. Aecon Industrial identified this condition. The piping spool was fabricated by CB&I Laurens, 366 Old Airport Road, Laurens, SC 29360, based on a purchase order from WECTEC LLC.

(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.

The identified weld defect is associated with a Safety Class B piping spool as part of the containment penetration boundary for the CVS makeup line. The AP1000® Design Certification Document and V. C. Summer Unit 2 Updated Final Safety Analysis Report describe Safety Class B, in part, as follows, "Class B is a safety-related class equivalent to ANS Safety Class 2. It limits the leakage of radioactive material from the containment following a design basis accident."

Evaluation of the nonconforming weld condition was inconclusive and therefore this condition is conservatively assumed to result in the potential failure of the associated containment penetration if it had been left uncorrected.

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

The WECTEC Responsible Office was informed of the defect on January 31, 2017.

(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.

The associated piping spool, identified as VS2-CVS-PLW-096-1R1A, is located at Aecon Industrial, 150 Sheldon Drive, Cambridge, Ontario Canada. The spool was not used prior to identification of the weld defect and the weld has been subsequently reworked to allow use of the piping spool in the associated Q305 Containment Isolation Valve Mechanical Module.

(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 nonconforming weld has been reworked by Aecon Industrial in accordance with instructions from the purchaser, WECTEC LLC. A corrective action report has been entered into the Westinghouse/WECTEC system to further evaluate the circumstances that led to the identified nonconforming weld.

(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.

These conditions were identified prior to installation of the affected component and the component has been corrected. Therefore, there is no additional action or advice needed for the affected licensee at this time.

The condition is associated with construction of the V.C. Summer Unit 2 AP1000® project and therefore is also considered to be reportable under 10 CFR 50.55(e) for that unit. 10 CFR 50.55(e)(8) states, "The requirements of § 50.55(e) are satisfied when the defect or failure to comply associated with a substantial safety hazard has been previously reported under part 21 of this chapter..." Therefore, this report under Part 21 is expected to satisfy the requirements of 10 CFR 50.55(e) for the V.C. Summer Unit 2 combined license holder.

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

Not applicable.

Part 21 (PAR)

Event # 52522

<b>Rep Org:</b> WECTEC LLC		<b>Notification Date / Time:</b> 01/31/2017 15:36 (EST)	
<b>Supplier:</b> CB&I LAURENS		<b>Event Date / Time:</b> 01/31/2017 (EST)	
<b>Last Modification:</b> 01/31/2017			
<b>Region:</b> 1	<b>Docket #:</b>		
<b>City:</b> CHARLOTTE	<b>Agreement State:</b> Yes		
<b>County:</b>	<b>License #:</b>		
<b>State:</b> NC			
<b>NRC Notified by:</b> CURTIS A. CASTELL		<b>Notifications:</b> SHAKUR WALKER	R2DO
<b>HQ Ops Officer:</b> DONG HWA PARK		PART 21/50.55 REACTORS	EMAIL
<b>Emergency Class:</b> NON EMERGENCY			
<b>10 CFR Section:</b>			
21.21(d)(3)(i) DEFECTS AND NONCOMPLIANCE			

## PART 21 - PIPING SPOOL WELD NONCONFORMANCE

The following is an excerpt from WECTEC LLC received via email:

"Based on information contained in nonconformance and disposition (N&D) report, a piping spool that was supplied to Aecon Industrial for use in a portion of the Chemical and Volume Control System (CVS) for the V. C. Summer Unit 2 AP1000® project was found to have a weld with an underfill condition. The piping spool was fabricated by CB&I Laurens based on a purchase order from WECTEC LLC. The identified weld defect is associated with a Safety Class B piping spool as part of the containment penetration boundary for the CVS makeup line. Evaluation of the nonconforming weld condition was inconclusive, and therefore, this condition is conservatively assumed to result in the potential failure of the associated containment penetration if it had been left uncorrected."

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