



Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

September 5, 2014

10 CFR 21.21

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

> Browns Ferry Nuclear Plant, Units 1, 2, and 3 Renewed Facility Operating License Nos. DPR-33, DPR-52, and DPR-68 NRC Docket Nos. 50-259, 50-260, and 50-296

Subject: 10 CFR Part 21 Interim Report - Engine Systems, Inc. -Emergency Diesel Generator Heat Exchanger CEY564L-HEX

The Tennessee Valley Authority (TVA) recently identified a leak in the weld of the Emergency Equipment Cooling Water outlet piping on the head of the C2 Emergency Diesel Generator (EDG) heat exchanger, CEY564L-HEX. Corrective Action Program documents were written to document the failure of the heat exchanger weld and to perform an engineering evaluation of the condition. TVA's evaluation concluded that this condition has the potential to constitute a reportable condition pursuant to Title 10 of the Code of Federal Regulations (10 CFR) Part 21, "Reporting of Defects and Noncompliance," and as such, requires additional evaluation.

The TVA must perform additional analysis in order to determine the significance of the weld defect. TVA will submit a final 10 CFR Part 21 report by November 6, 2014. The enclosure to this letter provides information required by 10 CFR Part 21.21(a)(2) for the interim report of this condition.

There are no new regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact J. L. Paul, Nuclear Site Licensing Manager, at (256) 729-2636.

Respectfully_n S_BONO FOR K. POLSON Vice President



U.S. Nuclear Regulatory Commission Page 2 September 5, 2014

Enclosure: 10 CFR Part 21 Interim Report - Engine Systems, Inc. - Emergency Diesel Generator Heat Exchanger CEY564L-HEX

cc (w/ Enclosure):

NRC Regional Administrator - Region II NRC Senior Resident Inspector - Browns Ferry Nuclear Plant Enclosure

Browns Ferry Nuclear Plant, Units 1, 2, and 3

10 CFR Part 21 Interim Report Engine Systems, Inc. - Emergency Diesel Generator Heat Exchanger CEY564L-HEX

See Enclosed

10 CFR Part 21 Interim Report - Engine Systems, Inc. - Emergency Diesel Generator Heat Exchanger CEY564L-HEX

Name and Address of the Individual Making the Interim Report

Mr. K. J. Polson Vice President Browns Ferry Nuclear Plant Tennessee Valley Authority Post Office Box 2000 Decatur, Alabama 35609-2000

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

On July 10, 2013, the Tennessee Valley Authority (TVA) identified a leak in the weld of the Emergency Equipment Cooling Water (EECW) outlet piping on the head of the C2 Emergency Diesel Generator (EDG) heat exchanger, CEY564L-HEX.

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

Engine Systems, Inc. 175 Freight Rd Rocky Mount, NC 27804

Description of the Deviation or Failure to Comply that is being Evaluated

A leak was identified in the weld of the EECW outlet piping on the head of the C2 EDG heat exchanger. The TVA determined the cause of the leak to be a vendor manufactured failed weld in the weld joint between the EECW line connection and the inlet / outlet heat exchanger head.

Evaluation Status

The TVA determined the cause of the leak to be a vendor manufactured failed weld in the weld joint between the EECW line connection and the inlet / outlet heat exchanger head. The C2 EDG heat exchanger will undergo additional analysis in order to determine the safety significance of the weld defect. Once the analysis is complete, TVA will complete the 10 CFR Part 21 evaluation.

Date on which Evaluation will be Completed

The TVA will submit a final 10 CFR Part 21 report by November 6, 2014.

NSTRUCTIONS FOR FORM 41L LICENSING TRANSMITTAL TO NRC SUMMARY AND CONCURRENCE SHEET

DATE DUE: September 5, 201	4	(A) PREPARER: Mark B. Acker (7533)				
SUBJECT: Interim Part 21 Rep PER 913911	port - C2 E	mergency D	iesel Gene	rator Heat Exchanger	Weld Defect	-
	REG	ULATORY	ONSIDER	ATIONS		
(B) Oath or Affirmation	🗌 YES	NO 🛛	(E) Postin	ng Requirements	Tes 🗌	NO 🛛
(C) Licensing Verification	🖾 YES		(F) FSAR	EFFECT		🖾 NO
(D) New Commitments	☐ YES	NO 🛛	(G) OGC	Consultation	TES	NO 🛛
(H) LIC-109 Review	T YES	🖾 N/A		ering Independent Review (ITR)	☐ YES *	⊠ NO
*Engineering (only):	<u> </u>		1	Design C	hange #	N/A
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(J) Licensing (only):	<u> </u>	for /	HECKER	D 109/0	<u>03 14</u>	
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J. Paul	Site	Licensing Ma	anager	Jamie Pa	ul	9/5/14
S. Hunnewell	Eng	Engineering Manager		Sor gittach	ed	9-4-14
P. Summers	Dire	Director Plant Support		Vulor		91410
B. Wetzel	Corp Licensing		Set attac	tred	9-5-14	
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Integrated Completeness and Accuracy Review Equivation Board Minutes

Date:

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Correspondence Type:

NOV Response 🔲 GL Response 🗌 Bulletin Response 🔲 CAL Response 🗍 Allegation Response 🗌 RAI Response 🗌 NOED 🗌 Relief Request 🗍 Security Event Report 🗍 LAR LER Licensed Operator Required Report CONTRACT Describe: Part 21 Interim Report

Board Members

Member	Name (print)	Title		
Chairperson	Jamil Paul	Licensing Malager		
Member #2	Mark Acker	/ icensing Engineer		
Member #3	Bill Rice	Programs Engineer		
Member #4 (If necessary)		<u> </u>		

Minutes

Discussion of Validation/Verification Performed - noted that a vender has not been stelected - due date extended to be more reasonable -May not perform desting, may perform an evaluation instead.

Conclusion

Additional Validation/Verification Required: No 🗹 Yes 🗆

Describe Additional Validation (if required):

Changes above will be incorporated

Minutes Approved:

ICAREB Chairperson/Date