



Callaway Plant

January 30, 2018

ULNRC-06412

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

10 CFR Part 26, Subpart 1 –
Managing Fatigue

Ladies and Gentlemen:

**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
RENEWED FACILITY OPERATING LICENSE NPF-30
Annual Fatigue Reporting Form**

The enclosed electronic document contains the results for Ameren Missouri's Callaway Energy Center in accordance with 10 CFR 26.205 for the period of January 1, 2017 through December 31, 2017. There were no waivers issued in 2017. Due to issues with the website, the form was not submitted electronically.

This letter does not contain new commitments.

If there are any questions, please contact Aaron Enloe at 573-676-4435.

Sincerely,

A handwritten signature in black ink that reads "Aaron Enloe". To the right of the signature, the date "1/29/18" is handwritten.

Aaron Enloe
Supervisor, Access Authorization/
Fitness for Duty

Enclosure

cc: Mr. Kriss M. Kennedy
Regional Administrator
U. S. Nuclear Regulatory Commission
Region IV
1600 East Lamar Boulevard
Arlington, TX 76011-4511

Senior Resident Inspector
Callaway Resident Office
U.S. Nuclear Regulatory Commission
8201 NRC Road
Steelman, MO 65077

Mr. L. John Klos
Project Manager, Callaway Plant
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Mail Stop O8H4
Washington, DC 20555-0001

Index and send hardcopy to QA File A160.0761

Hardcopy:

Certrec Corporation
6100 Western Place, Suite 1050
Fort Worth, TX 76107

(Certrec receives ALL attachments as long as they are non-safeguards and may be publicly disclosed.)

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U.S. NRC
United States Nuclear Regulatory Commission

Protecting People and the Environment

Electronic Information Exchange

NRC FFD Program Performance Data Reporting System 10 CFR Part 26, Subpart I - Managing Fatigue Annual Fatigue Reporting Form for the EIE General Submission Portal

APPROVED BY OMB NO. 3150-0144

EXPIRES: 11/26/2017

Estimated burden per response for this collection of information is 16 hours. This form is a voluntary means of reporting the information required under 10 CFR 26.43(a). The information will be used by NRC to evaluate fatigue program performance (FFD) to work force, health, and safety. Send comments regarding this burden estimate or the form's design, privacy, and information collection to Washington, DC 20545, Office of Management and Regulatory Affairs (1020-0182), 1155 21st St, NE, Washington, DC 20002. If a review of this collection of information does not burden your business, the NRC will not conduct a review and a person is not required to respond to this information collection.

Select Facility:
Callaway (50-461) Period of Report:
☐ Submission Update - Check this box only if this is an update to a previous submission.
Did your facility report any changes in the reporting period? (Yes/No) 2017
N/A

NOTE:
1) Use Access Reader 5 or later for this form to work properly.
2) Field your message in a form field to ensure additional information.

Summary of Waiver Issuance 26.203(e)(1)(i)(ii)

Work Hour Controls		Number of Waivers Issued																		
		Performing on site directing of the operations of systems as described in 26.43(a)(1)			Performing health physics or chemistry duties as described in 26.43(a)(2)			Performing duties of a fire brigade member as described in 26.43(a)(3)			Performing maintenance or inside direction of maintenance as described in 26.43(a)(4)			Performing security duties as described in 26.43(a)(5)			Operating Total (Calculated)	Outage Total (Days 1-48) (Calculated)	Outage Total (after day 48) (Calculated)	Combined Total (Calculated)
		Operating	Outage (days 1-48)	Outage (after day 48)	Operating	Outage (days 1-48)	Outage (after day 48)	Operating	Outage (days 1-48)	Outage (after day 48)	Operating	Outage (days 1-48)	Outage (after day 48)	Operating	Outage (days 1-48)	Outage (after day 48)				
Daily Work Hours 26.203(a)(1)	Exceeded 16 work hrs in any 24 hr period																			
	Exceeded 20 work hrs in any 48 hr period																			
	Exceeded 72 work hrs in any 7 day period																			
Shift Breaks 26.203(a)(2)	A less than 10 hr break between work periods for 8 hr break demonstrating substantial transition (if shift)																			
	Less than 34 hr break in any 7 day period																			
Minimum Days Off Per Shift Cycle 26.203(a)(3)	Average of less than 1 day off per week for 8-hour shifts																			
	Average of less than 2 days off per week for 10-hour shifts																			
	Average of less than 2.5 days off per week for 12-hour shifts																			
	Average of less than 2 days off per week for 12-hour maintenance shifts																			
	Average of less than 3 days off per week for 12-hour security shifts																			
Minimum Days Off for Outage Activities (during first 72 days of outage) 26.203(a)(4) and 26.203(a)(5)	Less than 3 days off per successive 15-day period 26.203(a)(4)																			
	A less than 1 day off per 7-day period for maintenance personnel 26.203(a)(5)																			
	A less than 4 days off per successive 15-day period for security personnel 26.203(a)(5)																			
Alternate to Minimum Days Off 26.203(a)(7)	24 hour maximum average																			
Total																				

*NOTE: For individuals performing fire brigade duties and other duties, please record them only under the fire brigade column. Do not double count these individuals.

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Distribution of Waivers for Individuals in Each Category 26.203(e)(1)(iii)

Check: Even if no waivers were issued for a given category, please enter a value of 0. 0 is in total sum of the table in the column.

Number of Waivers	Operating or on-site during the time period of system as described in 26.43(a)(1)	Performing health physics or chemistry duties as described in 26.43(a)(2)	Performing duties of a fire brigade member as described in 26.43(a)(3)	Performing maintenance or inside direction of maintenance as described in 26.43(a)(4)	Performing security duties as described in 26.43(a)(5)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11 - 20					
More than 20					
Total Employees Issued Waivers (Subtotal)					
Total Waivers Provided to a Single Individual					

NOTE: For individuals performing fire brigade duties and other duties please count them only under the fire brigade column. Do not double count these individuals.

Summary of Corrective Action 26.203(e)(2) (as applicable)

Analysis of Waiver Assessment Data (Limit 10,000 characters)

Analysis of Fatigue Assessment Data (Limit 10,000 characters)

Conclusions (Limit 10,000 characters)

Summary and Status of Corrective Actions (Limit 10,000 characters)

General Comments (optional) (Limit 10,000 characters)

Person's Information: First Name Last Name Name Authorization Certificate Position Title Company Email Address

Person's Information: First Name Last Name Position Title Company Email Address

Final Step: NRC will consider the form submitted in accordance with 26.11 only when the "Submit & Save" button has been selected and all errors (i.e., those highlighted in red) have been corrected. The "Submit & Save" button will change to "Saved" after the data collection process has been successfully completed and the form is ready for submission.

Form Locked On: Jan 30, 2018 at 7:23:43 AM

Patterson, Randi L

From: Enloe, Aaron E
Sent: Friday, January 26, 2018 11:04 AM
To: Patterson, Randi L
Subject: FW: Annual Fatigue Reporting Form

FYI

Thanks,

Aaron Enloe :: AA/FFD Supervisor :: T 573-676-4435 C 573-592-9286 ::
Ameren Missouri :: Callaway Energy Station

From: Montecalvo, Michael [mailto:Michael.Montecalvo@nrc.gov]
Sent: Friday, January 26, 2018 10:03 AM
To: Montecalvo, Michael
Subject: Annual Fatigue Reporting Form

EXTERNAL SENDER Do not click on links or open attachments that are not expected, do not give out User IDs or passwords, and do not reply to requests for information from unconfirmed email addresses.

Good afternoon,

We are aware that 2017 is not an available option on the Annual Fatigue Reporting Form and are working to resolve the issue. We will send a follow up email to this list when the issue is resolved and the form is available for use. We apologize for the inconvenience and appreciate your patience.

Michael Montecalvo

Reactor Operations Engineer (Human Factors)
PRA Operations and Human Factors Branch
Division of Risk Assessment
Office of Nuclear Reactor Regulation

(301)415-1678

Michael.Montecalvo@NRC.gov