

NRC FFD Program Performance Data Reporting System
NRC Form 892, Annual Fatigue Reporting Form
10 CFR Part 26, Subpart I - Managing Fatigue
(EIE General Submission Portal)

Facility: **Watts Bar (50-390, 50-391)** Period of Report: **2019**

Note:
1) Use Adobe Reader 8 or later for this form to work properly.
2) Hold your mouse over a form field to view additional information.

APPROVED BY OMB: CLEARANCE NO. 3160-0146

EXPIRES: 04/30/2021

Estimated burden per response to comply with this collection request is 74 hours. This form is a voluntary means of reporting the information required under 10 CFR 26.203(a). The information will be used by NRC to evaluate fatigue program performance related to work hour controls and waivers. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collection Branch (T5-F53), U.S. Nuclear Regulatory Commission, Washington DC 20555-0001, or by e-mail to InfoCollection.Resource@NRC.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOS-1020, (3150-0146), Office of Management and Budget, Washington DC 20503. If a means used to impose information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

☐ Submission Update - check this box only if this is an update to a previous submission

Did your facility issue any waivers in the reporting period? (Yes / No)

Was this facility in an outage for any part of the reporting period? (Yes / No)

Did any single site outage last more than 60 days in total? (Yes / No)

Yes

Yes

No

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

Work Hour Controls			Number of Waivers Issued																		
			Operating or on-site directing of the operations of systems, as described in 26.4(a)(1)			Performing health physics or chemistry duties, as described in 26.4(a)(2)			Performing duties of a fire brigade member, as described in 26.4(a)(3) *			Performing maintenance or on-site direction of maintenance, as described in 26.4(a)(4)			Performing security duties, as described in 26.4(a)(5)			Operating Total	Outage Total (days 1-60)	Outage Total (after day 60)	Combined Total
			Operating	Outage (days 1-60)	Outage (after day 60)	Operating	Outage (days 1-60)	Outage (after day 60)	Operating	Outage (days 1-60)	Outage (after day 60)	Operating	Outage (days 1-60)	Outage (after day 60)	Operating	Outage (days 1-60)	Outage (after day 60)	(Calculated)	(Calculated)	(Calculated)	(Calculated)
Daily Work Hours 26.205(d)(1)	Exceeded 16 work hrs in any 24 hr period	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	3	0		3	
	Exceeded 26 work hrs in any 48 hr period	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	6	3		9	
	Exceeded 72 work hrs in any 7 day period	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	1	3		4	
Rest Breaks 26.205(d)(2)	Less than 10 hr break b/t successive work periods (or 8 hr break accommodating scheduled transition b/t shifts)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	1	3		4	
	Less than 34 hr break in any 9 day period	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	0	0		0	
Minimum Days Off Per Shift Cycle 26.205(d)(3)	Average of less than 1 day off per week for 8-hour shifts	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	0			0	
	Average of less than 2 days off per week for 10-hour shifts	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	0			0	
	Average of less than 2.5 days off per week for 12-hour shifts	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	0			0	
	Average of less than 2 days off per week for 12-hour maintenance shifts	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>				0	
Minimum Days Off for Outage Activities (during first 60 days of outage) 26.205(d)(4) and 26.205(d)(5)	Average of less than 3 days off per week for 12-hour security shifts	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>				0	
	Less than 3 days off per successive 15-day period 26.205(d)(4)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		0		0	
	Less than 1 day off per 7-day period for maintenance personnel 26.205(d)(4)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
Alternate to Minimum Days Off 26.205(d)(7)	Less than 4 days off per successive 15-day period for security personnel 26.205(d)(5)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
	54 hour maximum average	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	0	0		0	
Total			<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	11	9		20	

*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.

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

Number of Employees Issued Waivers					
[Note: Even if no waivers were issued for a given column, please enter a value (e.g., 0) in at least one of the cells in the column]					
Number of Waivers	Operating or on-site directing of the operations of systems, as described in 26.4(a)(1)	Performing health physics or chemistry duties as described in 26.4(a)(2)	Performing duties of a fire brigade member as described in 26.4(a)(3)	Performing maintenance or on-site directing of maintenance as described in 26.4(a)(4)	Performing security duties as described in 26.4(a)(5)
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
11 - 20	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
More than 20	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total Employees Issued Waivers (Combined)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Most Waivers Provided to a Single Individual	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

*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.

Person(s) Responsible for Information Provided

Person 1 (required)

First Name: **Walter** Last Name: **Walter** Business Support Rep: **Position Title** **kwalters@nrc.gov** Company Email Address: **kwalters@nrc.gov**

Person 2 (optional)

First Name: **Joan** Last Name: **McGowan** Coordinator Procedures/Processes: **Position Title** **joan.mcgowan@nrc.gov** Company Email Address: **joan.mcgowan@nrc.gov**

Final Step (Required) - NRC will consider this form authentic in accordance with 26.11 only when the "Validate & Lock" button has been selected and all errors (i.e., those highlighted in red) have been corrected. The "Validate & Lock" button will change to "Locked" after the data validation process has been successfully completed and the form is ready for submission.

Locked Form Locked On: **Feb 24, 2020 at 10:37:51 AM** **Save to Local PC** **Print this Report**

Annual Fatigue Reporting Form (version 1.0 - April 2018)

NRC Form 892 (12/2012)

Nuclear Fatigue Rule Annual Review and Summary

Table 1
Summary of NFR Violations and 54 Hour Performance Objective

Department:	All	Site:	WBN	Period:	2019
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Calendar Quarter	>16/24		>26/48		>72/7 days		10 hr break		34 hr break		MDO		54 Hr	CR #
	onl	out	onl	out	onl	out	onl	out	onl	out	onl	out	onl	
1														
2		8		3		3				3				1513036
3														
4	1		6				1							1576387 1555048
Total	1	0	6	3	0	3	1	0	0	3	0	0	0	

Negative or Declining Trend?

CR	Trend
	N/A

Nuclear Fatigue Rule Annual Review and Summary

Table 2
Summary of Waivers

Department:	ALL	Site:	WBN	Period:	2019
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Waivers by Type	Rule/s Waived											
	>16/24		>26/48		>72/7 days		10 hr break		34 hr break		MDO	
	onl	out	onl	out	onl	out	onl	out	onl	out	onl	out
Total	1		126	3			1			3		4

KSW
2/24/2020

Waivers per individual	1	2	3	4	5
Total	8	1	1		

Negative or Declining Trend?

CR	Trend
N/A	N/A

The 26/48 was for Six people. It covered five hours but crossed over midnight so MIG counted for Two Days Instead of one.

Nuclear Fatigue Rule Annual Review and Summary

Table 3

Department:	All	Site:	WBN	Period:	2019
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Annual Summary	Reason for Fatigue Assessment										Worker NFR Status		Management Action Taken
	Post Event		For Cause		Self Declaration		Waiver		Follow Up				
	onl	out	onl	out	onl	out	onl	out	onl	out	Cov	NCW	
Total													Sent Home (example)
1487664	1											1	Removed from work
1513036								1			1		Returned to work
1513035								1			1		Returned to work
1513034								1			1		Returned to work
1576384								6			6		Returned to work
1571739					1						1		Removed from work
1506816			1								1		Removed from work
1503734	1										1		Removed from work
1555048								1			1		Returned to work
1505462		1									1		Returned to work
1508460				1							1		No Assessment Done
1510412					1						1		No Assessment Done

Negative or Declining Trend?

CR	Trend
N/A	N/A

- Submit approved review to the Site NFR Lead.
- Retention: Three years or until completion of related legal proceedings, whichever is later.

NPG Standard Programs and Processes	Fatigue Rule and Work Hour Limits	NPG-SPP-03.21 Rev. 0022 Page 55 of 70
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Attachment 4
(Page 1 of 2)
Annual NRC Report Data

Site	Year
WBN	2019

Summary of Waiver Issuance 26.203(e)(1) (i-ii)														
Group	Number of Waivers Issued for Each Work Hour Control Limit													
	>16 hr/24 hr period		>26 hr/48 hr period		>72 hr/7 day period		<8 hr break		<10 hr break		< 34 hr break in any 9 day period		<Minimum Day Off Requirement	
	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage
Operations	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Brigade	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maintenance	3	0	6	0	0	1	0	0	1	0	0	0	0	0
Chemistry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiation Protection	0	0	0	3	0	3	0	0	0	0	0	3	0	0
Security	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3	0	6	3	0	4	0	0	1	0	0	3	0	0

NPG Standard Programs and Processes	Fatigue Rule and Work Hour Limits	NPG-SPP-03.21 Rev. 0022 Page 56 of 70
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Attachment 4
(Page 2 of 2)

Distribution of Waivers for Individuals in Each Category – 26.203(e)(iii)						
Number of Waivers Issued	Operations	Fire Brigade	Maintenance	Chemistry	Radiation Protection	Security
1	6	0	3	0	0	0
2	0	0	4	0	0	0
3	0	0	0	0	3	0

Summary of Corrective Actions – 26.203(e)2:

Prepared by/Completed by: Katy Wilson

Date: 2-24-2020

Reviewed by: _____

Date: _____

Note: This attachment meets Requirement 11 [R-11] documented in the source notes of NPG-SPP-03.21.