OMB CONTROL NUMBER: 2130-XXXX

EXPIRATION

DATE: mm/dd/yyyy
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illecti	on Cleara	ance Officer, rederal Namoad Administration, 1200 New Jersey Avenue, 3L, Washington Do
		MPACT OF COMMUTE TIMES ON THE FATIGUE AND SAFETY OF MOTIVE ENGINEERS & CONDUCTORS: DRAFT QUESTIONNAIR
1.	How o	old are you?
	0	Less than 25 years
	0	25 to 34 years
	0	35 to 44 years
	0	45 to 54 years
	0	55 to 64 years
	0	65 + years
2.	What	is your gender?
	0	Male
	0	Female
3.	Are ye	ou a:
	0	Locomotive engineer
	0	Conductor
4.	Do yo	u work on a:
	0	Freight train
	0	Passenger train
5.	In tota	al, how long have you worked as a locomotive engineer or conductor?
	0	years months
6.	In tota	al, how long have you worked in the rail industry?
	0	years months

ANSWER THE NEXT SET OF QUESTIONS THINKING ABOUT THE LAST MONTH OF WORK:

7.	In the to sign	LAST MONTH, how many hours per day did you usually worked (i.e., sign on off)?
		hours
8.	In the	LAST MONTH, how many days per week did you usually worked?
		days
9.	In the	LAST MONTH, which category best describes your usual work?
	O	Majority of work is at night
	0	Majority of work is in the day
	0	Regular rotating work (tours of duty switch between day and night on a regular roster)
	0	Very irregular work (i.e., tours of duty have no regular pattern)
10.	In the off?	LAST MONTH, how many times were you called in for work on your days number of times called in for work
11.	In the	LAST MONTH, how much did the start time of your tours of duty vary from day?
	o	Less than 2 hours
	0	2 hours or more, but less than 4 hours
	0	4 hours or more, but less than 8 hours
	0	8 hours or more
12.		LAST MONTH, how often did your tours of duty change from day work to work during a one-week period?
	0	Zero times
	O	Once
	0	Twice
	0	More than two times

	_		IONTH, how m r work week?	any hours d	id you slee _l	p per day (i.e., in a
		hours				
14. Was	this sleep ty	pically dur	ing the daytim	e or nighttin	ne?	
0	Day					
0	Night					
The follo	wing stater	nents are a	bout your expe	rience of FA	TIGUE and	d STRAIN at work
OVER T	THE LAST	FEW MON	THS.			
Choose f		gly Disagro	ee" to "Strongly	y Agree" wh	ich best ind	licates your
15. I nev	er have eno	ugh time b	etween work sh	ifts to recov	er my ener	gy completely
<u> </u>						
Strongly Disagree	Disagree	Slightly Disagree	Neither Agree or Disagree	Slightly Agree	Agree	Strongly Agree
16. I usu	ally feel exh	nausted wh	en I get home f	rom work		
Strongly Disagree	Disagree	Slightly Disagree	Neither Agree or Disagree	Slightly Agree	Agree	Strongly Agree
17. Even	if I'm tired	l from one	shift, I'm usual	ly refreshed	by the star	t of the next shift
		l				
Strongly Disagree	Disagree	Slightly Disagree	Neither Agree or Disagree	Slightly Agree	Agree	Strongly Agree
18. I rar	ely recover	my energy	fully between v	work shifts		
Strongly Disagree	Disagree	Slightly Disagree	Neither Agree or Disagree	Slightly Agree	Agree	Strongly Agree
19. Reco	vering fron	ı work fatiş	gue between wo	rk shifts isn	't a problen	n for me
Strongly	Disagree	Slightly	Neither Agree	Slightly	Agree	Strongly

Disagree Disagree or Disagree Agree Agree

20. I'm often still feeling fatigued from one shift by the time I start the next one



21. In the LAST MONTH, how did you normally commute from home to work/from work to home? (*Tick main mode of transport*)

- **o** Drive my own car
- **o** Drive my own motorcycle
- Public transportation (train, bus, etc.)
- **o** Car/van pool
- **o** Ride a bicycle
- **o** Walk
- **o** Other

22. In the LAST MONTH, if you drove your own car, did you normally commute to/from work alone?

- o Usually alone
- O Not usually alone
- o N/A I didn't drive my own car

23. In the LAST MONTH, on how many days during a work week did you commute from home to work?

- **o** 1
- **o** 2
- **o** 3
- **o** 4
- **o** 5
- **o** 6
- **o** 7

	LAST MONTH, on days by take you to get:	when you commuted to work, how long did it				
0	To work from home?	minutes				
0	To home from work?	minutes				
	ou typically make stops or stop at shops, pick up/drop	detours during your commute <u>to work from home?</u> off children)				
o	Yes					
0	No					
-	ou typically make stops or stop at shops, pick up/drop	detours during your commute <u>to home from work?</u> off children)				
0	Yes					
0	No					
27. In the way?	LAST MONTH, approxi	nately how many miles was your commute, one				
	miles					
	R THE NEXT SET OF QU S OF WORK:	ESTIONS THINKING ABOUT THE LAST SIX				
28. In the		requently have you felt too tired to drive home after				
0	After every tour of duty					
0	Several times a week					
0	About once a week					
0	Once every few weeks					
0	Once every couple of months					
O	Rarely (i.e., once in 6 mon	ths)				
0	Never					
	LAST 6 MONTHS, durin at apply)	g your commute <u>to work from home</u> have you: (Tick				
Crashed		☐ Fallen asleep while driving				

☐ Felt drowsy	У	☐ Pulled over to take a nap		
☐ Nearly had	a crash	☐ Fallen asleep while stopped at a red light		
☐ Fallen asle	ep while stopped in traffic	☐ Had to have a nap at home before driving to work		
☐ Drifted out	of the lane of traffic	☐ Run off the road in your vehicle		
	e LAST 6 MONTHS, durin at apply)	g your commute <u>to home from work</u> have you: <i>(Ti</i>		
☐ Crashed		☐ Fallen asleep while driving		
☐ Felt drows	<i>y</i>	☐ Pulled over to take a nap		
☐ Nearly had	a crash	☐ Fallen asleep while stopped at a red light		
☐ Fallen asle	ep while stopped in traffic	☐ Had to have a nap at work before driving home		
☐ Drifted out	of the lane of traffic	☐ Run off the road in your vehicle		
31. In the		often have you experienced fatigue while operating		
0	Every tour of duty			
0	On most tours of duty			
0	About half the tours of dut	у		
0	Occasionally			
0	Rarely			
0	Never			
32. To w	hat degree do you think fat	igue impacts your operation of a train?		
0	No impact			
0	A minimal impact			
0	Moderate impact			
0	A significant impact			

33. In the LAST 6 MONTHS, when were you most likely to experience fatigue while operating a train? *Tick all that apply*

☐ Early morning (3am to 6am)	☐ If I'm feeling bored
☐ Morning (6am to 12pm)	☐ If I haven't had enough sleep
☐ Early afternoon (12pm to 3pm)	☐ If I started work really early in the morning
☐ Late afternoon (3pm to 6pm)	☐ Towards the end of a long tour of duty
☐ Evening (6pm to 9pm)	☐ If I operate on the same route a few times in a row
□ Night (9pm to 12am)	☐ If I started work late in the evening
☐ Late night (12am to 3am)	☐ After a long commute to work
☐ After extended limbo or deadheading time	☐ Other:
34. In the LAST 6 MONTHS, how lon	
34. In the LAST 6 MONTHS, how lon most likely to feel fatigued? hours 35. In the LAST 6 MONTHS, what fa Tick all that apply	ctors contributed most to your fatigue at work?
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most likely to feel fatigued? hours 35. In the LAST 6 MONTHS, what fare the first all that apply Night work Long work hours	ctors contributed most to your fatigue at work? □ Irregular work □ Not enough sleep before work
most likely to feel fatigued? hours 35. In the LAST 6 MONTHS, what fare tick all that apply Night work Long work hours Long commute to work	ctors contributed most to your fatigue at work? Irregular work Not enough sleep before work Work starting early morning (i.e., before dawn)
most likely to feel fatigued? hours 35. In the LAST 6 MONTHS, what fare tick all that apply Night work Long work hours Long commute to work Long commute to home	ctors contributed most to your fatigue at work? Irregular work Not enough sleep before work Work starting early morning (i.e., before dawn) Boredom / monotony
most likely to feel fatigued? hours 35. In the LAST 6 MONTHS, what fare tick all that apply Night work Long work hours Long commute to work Stress	ctors contributed most to your fatigue at work? Irregular work Not enough sleep before work Work starting early morning (i.e., before dawn) Boredom / monotony Insufficient rest away from home

	6. In the LAST 6 MONTHS, have you experienced a fatigue-related safety incident when operating a train?					
o	Yes					
0	No					
37. If yes	s, what happened?					
0	Missed signal					
0	Crash					
o	Near miss					
o	Nodded off while controlling the train					
0	Missed designated stop					
o	Late braking for designated stop					
o	Going too fast					
0	Other:					
38. Did y	ou report the incident?					
0	Yes					
0	No					
	your company offer an anonymous reporting system for fatigue-related or y-related incidents?					
0	Yes					
0	No					
0	Not sure					
	e LAST 6 MONTHS, how often do you use each of the following strategies to with fatigue when operating a train? (Rate each strategy separately)					
Listen to	music					

Eat or snack while operating train				
Drink caffeine (e.g., coffee, black tea)				
Make additional effort to focus				
Adjust the ventilation (e.g., turn on air con or open window)				
Use over the counter stimulant (e.g., NoDoze)				
Take a quick nap				
Drink energy drinks (e.g., Red Bull, Monster, 5-Hour Energy)				
Talk to conductor or engineer				
Stand while operating train				
Talk on cell phone				
Move body (i.e., walk, stretch, exercise)				
Play games/use apps on cell phone				
Smoke/chew tobacco				
	1	1	-	I .

41. In your opinion, how effective are the following strategies to reduce fatigue while operating a train (i.e., regardless of whether you use the strategy)? (Rate each strategy separately)

Listen to music			
Eat or snack while operating train			
Drink caffeine (e.g., coffee, black tea)			
Make additional effort to focus			
Adjust the ventilation (e.g., turn on air con or open window)			
Use over the counter stimulant (e.g., NoDoze)			
Take a quick nap			
Drink energy drinks (e.g., Red Bull, Monster, 5-Hour Energy)			
Talk to conductor or engineer			

Stand while operating train						
Talk on cell phone						
Move body (i.e	e., walk, stretch, exercise)					
Play games/us	se apps on cell phone					
Smoke/chew to	obacco					
	your company provide	you with a	computer	train line-up?		
0	Yes					
0	No					
0	Not sure					
43. How	reliable is the informati	ion provide	d in the co	mputer train	line-up?	
0	Very reliable					
0	Somewhat reliable					
0	Not particularly reliable	e or unrelia	ole			
0	Somewhat unreliable					
0	Very unreliable					
	e LAST MONTH, what accurate?	percentage	e of compu	ter train line-	ups you rec	eived
0	%					
45. Does	your current company	have a fatiş	gue manage	ement policy?	1	
0	Yes					
0	No					
0	Not sure					
46. Does	your current company	educate em	ployees ab	out fatigue?		
0	Yes					
0	No					
0	o Not sure					

47. How much of a problem is fatigue for YOU PERSONALLY in your job?

- **o** A major problem
- **o** A substantial problem
- **o** A minor problem
- **o** Not a problem at all

48. How much of a problem is fatigue for locomotive engineers and conductors IN GENERAL?

- **o** A major problem
- **o** A substantial problem
- **o** A minor problem
- **o** Not a problem at all

49. How well do you believe fatigue is managed in the rail industry?

- o Extremely badly
- o Quite badly
- o Ok
- o Quite well
- o Extremely well