

July 15, 2011

MEMORANDUM TO: Undine Shoop, Chief
Health Physics and Human Performance Branch
Division of Inspection and Regional Support
Office of Nuclear Reactor Regulation

FROM: Michael Boggi, Sr. Human Factors Engineer **/RA/**
Health Physics and Human Performance Branch
Division of Inspection and Regional Support
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF PUBLIC MEETING TO DISCUSS
IMPLEMENTATION GUIDANCE FOR CUMULATIVE FATIGUE
REQUIREMENTS THAT WILL BE BASED ON A MAXIMUM 54
HOUR PER WEEK ROLLING AVERAGE

On June 23, 2011, the Nuclear Regulatory Commission (NRC) held a public stakeholder meeting regarding implementation guidance for the proposed alternative to the minimum day off (MDO) requirements in 10 CFR Part 26, Subpart I, "Managing Fatigue." The purpose of this meeting was to allow interested stakeholders an opportunity to meet with the NRC staff to discuss concepts and specific details that should be included in guidance for implementing the proposed alternative. The proposed alternative is based on individuals working a maximum of 54 hours per week, using a rolling average.

The meeting was noticed on June 6, 2011. The notice is available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams/web-based.html> where the public can access the text and image files of NRC's public documents in the NRC's Agencywide Document Access and Management System (ADAMS). The meeting notice can be found under accession number ML11144A133.

The meeting participants included NRC staff and contractors, members of the power reactor licensee and vendor community, and representatives from the Nuclear Energy Institute (NEI) and the International Brotherhood of Electrical Workers (IBEW). These participants are listed in Enclosure 2. Enclosure 3 contains the meeting agenda.

CONTACT: Michael Boggi, NRR
301-415-5309

Enclosures: 1. Meeting Summary
2. Meeting Attendance List
3. Agenda

MEMORANDUM TO: Undine Shoop, Chief
 Health Physics and Human Performance Branch
 Division of Inspection and Regional Support
 Office of Nuclear Reactor Regulation

FROM: Michael Boggi, Sr. Human Factors Engineer **/RA/**
 Health Physics and Human Performance Branch
 Division of Inspection and Regional Support
 Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF PUBLIC MEETING TO DISCUSS
 IMPLEMENTATION GUIDANCE FOR CUMULATIVE FATIGUE
 REQUIREMENTS THAT WILL BE BASED ON A MAXIMUM 54
 HOUR PER WEEK ROLLING AVERAGE

On June 23, 2011, the Nuclear Regulatory Commission (NRC) held a public stakeholder meeting regarding implementation guidance for the proposed alternative to the minimum day off (MDO) requirements in 10 CFR Part 26, Subpart I, "Managing Fatigue." The purpose of this meeting was to allow interested stakeholders an opportunity to meet with the NRC staff to discuss concepts and specific details that should be included in guidance for implementing the proposed alternative. The proposed alternative is based on individuals working a maximum of 54 hours per week, using a rolling average.

The meeting was noticed on June 6, 2011. The notice is available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams/web-based.html> where the public can access the text and image files of NRC's public documents in the NRC's Agencywide Document Access and Management System (ADAMS). The meeting notice can be found under accession number ML11144A133.

The meeting participants included NRC staff and contractors, members of the power reactor licensee and vendor community, and representatives from the Nuclear Energy Institute (NEI) and the International Brotherhood of Electrical Workers (IBEW). These participants are listed in Enclosure 2. Enclosure 3 contains the meeting agenda.

CONTACT: Michael Boggi, NRR
 301-415-5309

Enclosures: 1. Meeting Summary
 2. Meeting Attendance List
 3. Agenda

DISTRIBUTION: See next page

ADAMS Accession No. ML11193A264

Office	NRR/IHPB	BC/IHPB
Name	MBoggi	UShoop
Date	7/13/2011	7/15/2011

Official Record Copy

DISTRIBUTION:

<u>NRC</u>	<u>Stakeholders</u>			
RidsNrrDirsResource	CAli	CHassler	LNance	JSpina
MAAshley	HAnderson	DHeacock	TNewkirk	MTaggart
VBarnes	JArias	RHerrle	MOKeefe	KTaplett
HBenowitz	TArnold	JHeyer	OOkonkwo	GThu
BBoger	DBalas	MJaworsky	AOrr	TUnderwood
MBoggi	JBauer	KJones	ROwen	DVincent
FBrown	SBauer	GKaegi	VPancurak	TWachter
WChalk	PBemis	JKammer	NPappas	TWallace
MCheok	JBergman	TKing	BPatrick	CWaltos
RCorreia	MBirch	KKingsley	TPerry	TWaselus
PCoughlin	BBirchell	SKirven	JPersensky	JWheeler
DDesaulniers	DBrian	SKoen	MPhillips	JWicks
CErlanger	VBrown	TKoser	SPhillips	DZiebell
GGulla	MBryce	JKunz	BPhillips	
PHarris	JButler	JLash	TPietrangelo	
SHelton	TByrne	LLawson	JPinzon	
TInverso	RCasey	KLiefief	DPitsley	
DKi	JCastro	ALindsay	BQuigley	
TKolb	KCensani	JLines	DRaleigh	
MKotzalas	NChapman	SLines	JRinuxel	
CLui	SCherry	DLochbaum	LRRippy	
KMartin	NCoddington	DMannai	RRitzman	
TMcGinty	JCollier	LMarabella	MRochester	
GMiller	PCrinigan	FMascitelli	JRogers	
SMorrow	PDeflippi	MMatamoros	TRohe	
BPalagi	JDiecker	BMcCabe	BBrooks	
SPeters	PDuke	RMcNiel	RRosa	
TReed	EErb	JMeister	MSalazar	
JSharkey	MFindlay	RMeyer	DSergenti	
JShehee	PFowler	DMillar	MShaffer	
UShoop	MGiancini	GMiller	RSimmons	
WSmith	MHale	MMilly	CSisco	
SStuchell	GHalnon	BMontgomery	RSmith	
JTrapp	JHansen	DMullen	BSnyder	

Summary of June 23, 2011, Public Meeting Regarding 10 CFR Part 26 Subpart I Implementation Guidance

On June 23, 2011, the Nuclear Regulatory Commission (NRC) held a public stakeholder meeting regarding implementation guidance for the proposed alternative to the minimum day off (MDO) requirements in 10 CFR Part 26, Subpart I, "Managing Fatigue." The purpose of this meeting was to allow interested stakeholders an opportunity to meet with the NRC staff to discuss concepts and specific details that should be included in guidance for implementing the proposed alternative. The proposed alternative is based on individuals working a maximum of 54 hours per week, using a rolling average.

The meeting was noticed on June 6, 2011. The notice is available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams/web-based.html> where the public can access the text and image files of NRC's public documents in the NRC's Agencywide Document Access and Management System (ADAMS). The meeting notice can be found under accession number ML11144A133.

The meeting participants included NRC staff and contractors, members of the power reactor licensee and vendor community, and representatives from the Nuclear Energy Institute (NEI) and the International Brotherhood of Electrical Workers (IBEW). These participants are listed in Enclosure 2. Enclosure 3 contains the meeting agenda.

1. Opening Remarks and Introductions

The meeting began with opening remarks and introductions. The meeting purpose was to discuss the guidance that will accompany the proposed rule regarding an alternative to the MDO requirements in Part 26.¹ The proposed alternative is a 54-hour weekly limit, averaged over a rolling 6-week (or shorter) period. This public meeting followed-up on issues discussed at the June 1, 2011, public meeting on the same topic. NEI submitted a revised guidance document based on the outcomes of the June 1st meeting.

2. NRC Comments on the Revised Guidance Document

NRC staff provided comments on the guidance and asked clarifying questions on several sections of the draft implementation guidance. The majority of comments and discussion, however, focused on the following topic.

Beginning of a Rolling Averaging Period

The draft implementation guidance provides licensees with guidance on how to transition workers into a rolling averaging period when individuals have been performing uncovered work. The NRC staff suggested that the guidance may be interpreted as allowing licensees to move workers between covered and uncovered work without accounting for the uncovered work hours. Industry agreed to revise the guidance and the NRC staff decided to issue an FAQ on this issue to clarify the rule's intent.

¹ "Alternative to Minimum Days Off Requirements," 76 Federal Register 80 (26 April 2011), pp. 23308-23218.

3. Next Steps

At the conclusion of the meeting, NEI agreed to revise the guidance to account for the comments received during the meeting. Once completed, NEI will submit the revised document to the NRC staff for review and endorsement. (Endorsement can mean in whole or in part.) No further public meetings on the implementation guidance are anticipated.

**June 23, 2011, Public Meeting Regarding 10 CFR Part 26 Subpart I Implementation
Guidance**

Attendance List

NAME	AFFILIATION
Howard Benowitz	NRC
Michael Boggi	NRC
David Desaulniers	NRC
Paul Harris	NRC
Kamishan Martin	NRC
Stephanie Morrow	NRC
Troy Pruett	NRC
Donna Alexander	Progress Energy
Scott Bauer	NEI
Kristi Branch	PNNL
John Butler	NEI
Thomas Byrne	NextEra Energy
Peter Crinigan	Constellation Energy Nuclear Group
Peter J. Defilippi	Westinghouse
Liz Gormsen	ICF
Greg Halnon	FirstEnergy
Jeff Hansen	Exelon
Rich Herrle	Ventyx
Kevin Kingsley	Entergy
Ron Lev	Workforce Software
Lee Marabella	PSEG
Miguel Matamoros	ICF
Tom Miller	FirstEnergy
Dave Mullen	IBEW
Vicki Pancurak	Westinghouse
Josh Perrel	TVA
Thomas Perry	SCE&G
Deann Raleigh	Scientech
Billie Rooks	Southern Nuclear

Agenda

**MEETING AGENDA FOR THE CATEGORY 3 PUBLIC MEETING
TO DISCUSS IMPLEMENTATION GUIDANCE FOR THE 10 CFR PART 26
CUMULATIVE FATIGUE REQUIREMENTS**

June 23, 2011; 9:00 a.m. – 1:00 p.m.

**WESTINGHOUSE, NUCLEAR REGULATORY AFFAIRS OFFICE
12300 TWINBROOK PARKWAY
SUITE 150
ROCKVILLE MD 20852**

The NRC staff is conducting this public meeting to allow discussion towards the development of implementation guidance for the cumulative fatigue requirements of 10 CFR Part 26, Subpart I, "Managing Fatigue."

- 9:00 – 9:15 a.m. Opening comments and introductions
- 9:15 – 10:30 a.m. Implementation guidance discussion
- 10:30 – 10:45 a.m. Break
- 10:45 – 12:45 p.m. Continuation of the implementation guidance discussion
- 12:45 – 1:00 p.m. Summation, next meeting schedule and adjournment