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Title:	Notice of Interpretation on Industrial Radiographic Operations at Temporary Radiography Jobsites and an Agreement State Compatibility Category Change Public Meeting
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Pages 1-42

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1	UNITED STATES OF AMERICA
2	NUCLEAR REGULATORY COMMISSION
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4	PUBLIC MEETING ON THE NOTICE OF INTERPRETATION ON
5	INDUSTRIAL RADIOGRAPHIC OPERATIONS AT TEMPORARY
6	RADIOGRAPHY JOBSITES AND AN AGREEMENT STATE
7	COMPATIBILITY CATEGORY CHANGE
8	+ + + + +
9	THURSDAY,
10	AUGUST 26, 2021
11	+ + + + +
12	The meeting convened via Video
13	Teleconference, at 1:00 p.m. EDT, Gregory Trussell,
14	presiding.
15	
16	NRC STAFF PRESENT:
17	GREGORY TRUSSELL, NMSS/REFS/MRPB
18	KEVIN A. COYNE, NMSS/REFS
19	BRETT M. KLUKAN, R-I
20	LYNN M. RONEWICZ, NMSS/REFS/MRPB
21	DUNCAN D. WHITE, NMSS/MSST/SLPB
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1	T-A-B-L-E O-F C-O-N-T-E-N-T-S
2	Introduction/Logistics
3	By NRC
4	Presentation
5	By NRC
6	Questions and Comments
7	By NRC / Public
8	Meeting Closed
9	By NRC
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1	P-R-O-C-E-E-D-I-N-G-S
2	1:01 p.m.
3	MR. KLUKAN: Hi, I'd like to welcome
4	well first off, can everyone hear me okay?
5	MR. TRUSSELL: Yes, we can, yes.
6	MR. KLUKAN: I just want to make sure
7	before we start the meeting, before I start rambling
8	on, make sure everyone can hear me okay. Welcome
9	everyone, thank you for participating in this
10	afternoon's public meeting to discuss the NRC's June
11	1st, 2021 notice of interpretation on the industrial
12	radiography operations at temporary radiography job
13	sites, and in agreement's sake, compatibility category
14	change as captured in 86 Federal Register 29173.
15	My name is Brett Klukan, I am normally the
16	regional counsel for region one of the U.S. Nuclear
17	Regulatory Commission, however today I will be serving
18	as your meeting facilitator. Next slide please. This
19	is principally an information meeting with a question
20	session. The purpose of this meeting is for the NRC
21	staff to meet directly with individuals to discuss
22	regulatory, and technical issues. Attendants will
23	have an opportunity to ask questions of the NRC staff
24	about the issues discussed during the meeting.
25	However to be clear, the NRC is not
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1 actively soliciting comments at this time towards the development of any further regulatory decisions. 2 For 3 your awareness, as indicated on the slide, this 4 meeting is being transcribed. The meeting slides are 5 also available in the ADAMS document access, and management system otherwise known as ADAMS, at ML 6 7 number, and I will read it out loud for those of you 8 on the phone, ML21237A451. Again that's session 9 number ML21237A451.

10 Ι will provide instructions for how members of the public can enter the speaker queue 11 after the NRC's opening presentation. In addition, 12 you can ask technical questions using the chat feature 13 14 in Microsoft Teams. For the benefit of those 15 participating solely via the telebridge, I will read those questions out loud, received via chat as time 16 permits. With that said, next slide please. And I'd 17 like to turn it over to Greg, thank you very much. 18

19 MR. TRUSSELL: Thanks Brett. Good afternoon, and welcome to our public meeting on the 20 two person rule. My name is Greq Trussell, I'm the 21 rule making project manager for the two person rule, 22 and I'll get us started today. Next slide please. 23 24 So, as Brett said, the purpose of our meeting today is to provide an overview of the two person rule about 25

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1	stakeholders, and the public provide us feedback on
2	its implementation, and also to solicit feedback on
3	the additional guidance as needed. Next slide please.
4	There is our agenda for today, we'll start
5	off with some opening remarks from Kevin, I'll go into
6	the background of the rule, and then I'll turn it over
7	to technical staff that will go more in depth on the
8	two person rule, and that will end the formal
9	presentation, and we'll go into Q&A, and then we'll
10	close out the meeting. Next slide please. So, at
11	this time I'll turn it over to Deputy Director Kevin
12	Coyne for some opening remarks.
13	MR. COYNE: Hey, thanks Greg, and can you
14	hear me okay?
15	MR. TRUSSELL: Yes.
16	MR. COYNE: Yes, okay. Hey, good
17	afternoon, as Greg said, my name is Kevin Coyne, I'm
18	the deputy director for the Division of Rule Making
19	Environmental and Financial Support here at the NRC.
20	The objective of today's meeting, as Brett noted, is
21	to provide an overview of the two person rule,
22	including the NRC's recent interpretive guidance, and
23	to solicit public input on this guidance. As you may
24	know, the NRC issued a notification of interpretation
25	on the two person rule on June 1st of this year.
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1	The NRC received comments on the
2	interpretation, several of which are significant, and
3	will require response from the NRC in accordance with
4	10 CFR 28.04(f). Today we hope to get additional
5	clarification on some of the comments received,
6	address safety concerns raised in the comments, and
7	gain additional insights to help us address these
8	comments.
9	I very much appreciate everyone joining us
10	this afternoon, and participating in today's
11	discussion. We look forward to hearing your thoughts
12	during today's meeting. And with that, I'll turn it
13	back over to Greg.
14	MR. TRUSSELL: All right, next slide
15	please. All right, so I'm going to do some background.
16	Back in 2001, during an integrated materials
17	performance evaluation program review, and impact, the
18	NRC identified the implementation of the two person
19	rule was not compatible with revisions in 10 CFR
20	34.41(a). Specifically the NRC concluded that Texas
21	regulations are not compatible with 10 CFR 34.41(a),
22	because Texas did not require the second individual to
23	observe the operations.
24	For example, the second qualified

individual is permitted to be developing film in a 25

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such a case, the second person was deemed not available to observe, and provide immediate assistance in the case of an accident, or injury. However the final impact report indicated that Texas performance was found satisfactory based on additional performance information provided by Texas to the IMPEP team at that time.

9 The final report recommended that the NRC, 10 in coordination with the agreement states, reconsider how the rule could be implemented. On November 3rd, 11 2005, the organization agreement states submitted 12 petition for rule making requesting that the NRC amend 13 14 its regulations in 10 CFR 34.41(a), 34.43(a), and 15 34.51 related to industrial radiographic operations. 16 Specifically the petition requested that there be at least 40 hours of radiation safety training, changes 17 to the responsibilities of the second individual, and 18 19 changes to visual surveillance requirements.

Petitioner asserted 20 that the NRC's interpretation 21 of the two person rule added 22 unnecessary cost to the industry because a second qualified individual is unavailable to perform other 23 24 job related duties, such as developing radiographic The petitioner requested that 25 film in a dark room.

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the NRC delete from the two person rule, the sentence the additional qualified individual shall observe the operations, and be capable of providing immediate assistance to prevent unauthorized entry.

5 The petitioner stated that in a temporary job site situation in which the crew consists of two 6 7 qualified radio operators, the surveillance 8 requirements in 10 CFR 34.51 can be met, that the second individual should be considered available to 9 provide immediate assistance even if the second 10 qualified individual is engaged in job related duties 11 other than the observation of the operations. 12 Next slide please. 13

14 So, the NRC reviewed this petition, and determined that the issues, and concerns raised in the 15 petition merited further NRC consideration, 16 and 17 inclusion in future rule making. This was published in May of 2008. Because rule making activity did not 18 19 raise an immediate safety, environmental, or security concern, they rated it medium priority. Resources 20 were applied to this rule making in 2018, the NRC 21 formed a working group who submitted notification of 22 interpretation to the commission to approve the 23 24 publication which was published in June. Next slide 25 please.

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1 The interpretation of the regulation was 2 immediately effective upon issuance, which was again, 3 June 1st of this year. I do want to point out that 4 the regulatory requirements did not change, and 10 CFR 5 34.41(a) still requires two qualified individuals to be present to prevent unauthorized entry into the 6 7 restricted area. Also I want to point out that the 8 NRC will publish a notice in the Federal Register 9 containing an evaluation of the significant comments 10 received during the post comment period, and any revisions to interpretation. 11 Next slide please. So, that completes the 12

background portion of our presentation, at this time I'm going to turn it over to Duncan White, who is our senior technical lead for this rule making. Duncan?

16 MR. WHITE: Thank you Craig. Along with 17 the new interpretations of the two person rule, the commission approved the change of the compatibility 18 19 designation for the two person rule from category B to This change in compatibility designation 20 category C. agreement the flexibility 21 qives the states in implementing this regulatory requirement, including to 22 be more restrictive than the new NRC interpretation. 23 24 Consequently agreement states do not have to change their current practice of requiring both qualified 25

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individuals to continuously observe the radiographic operations.

slide please. 3 Next The commission's 4 approval of the interpretation does not change the 5 language in the regulation as noted in the first sentence of this slide. 6 Nor does it change the 7 regulatory requirement that Greg just noted earlier. 8 The new interpretation allows the second qualified 9 individual not to observe the radiographic operations 10 at a temporary job site provided that the following conditions are met. 11

One, the second qualified individual must 12 be cognizant of the ongoing operations. 13 Two, the 14 second qualified individual must be able to provide immediate assistance, including taking control of the 15 operations from the radiographer. 16 And three, site specific circumstances allow for the control of the 17 restricted area to prevent unauthorized entry by a two 18 19 Site specific circumstances person crew. are important for controlling the restricted area at a 20 temporary job site. 21

Given the wide range of conditions during radiographic operations, NRC staff concluded that in a majority of the circumstances, and cases, there will be at least two persons needed to be directly

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observing the restricted area to provide adequate control. Next slide please. NRC received four responses to the publication of the interpretation in the Federal Register, the comments can be summarized as follows.

First, some commenters indicated that the 6 7 new interpretation did not provide sufficient clarity, 8 or improve radiation safety. Commenters felt that the 9 direct observation by both qualified individuals 10 wasn't needed. The example provided in the Federal rare 11 Register was а occurrence, and that the radiocommunication was more likely. Three, the use of 12 sufficient, sufficiently 13 the word or in the 14 interpretations did not provide clarity, and were 15 ambiquous.

16 And four, commenters noted that the 17 compatibility change may cause consistency problems for the agreement states during implementation. Next 18 19 slide please. So, what are the NRC takeaways from the comments we received? First we need to address the 20 demonstrate that 21 safety issue, and the second qualified individual when not observing the restricted 22 area at all times is providing equal protection in 23 24 terms of public health, and safety.

Second, we need to provide better

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clarification of the interpretation. And third, we need to provide guidance to the regulated community, 2 NRC, and agreement state staff that are implementing this interpretation. Next slide please. I'd like to turn it back over to Brett for instructions.

MR. KLUKAN: Okay, so there are two ways 6 7 of raising your hands to ask questions at this time. If you're in the Teams application, you can go up to 8 9 the top of your screen, there will be, it looks like two little people together, a little chat bubble, and 10 then there will be, it looks like a high five, and a 11 smiley face behind it. 12 Beneath that there is a function called raise your hand. If you would like to 13 14 ask a question during the meeting today, raise your hand. 15

Once you've raised your hand, I will then 16 17 go through those who have gueued up, and unmute you one by one to ask your questions. Now, if you are on 18 19 the phone, and not in the Teams chat, in order to quote unquote raise your hand, press star five. 20 Again, that is star five. And then a speaker will 21 When you hear your name called, press 22 unmute you. star six to unmute your phone, again that is star six 23 24 to unmute your phone, again when notified.

You may also ask technical questions in

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1	the chat. Again, as time permits, I will try to read
2	those out loud for the benefit of those participating
3	solely via the phone line today. With that said,
4	let's open it up to questions at this time. So again,
5	if you'd like to ask a question, please go to the top
6	of the Teams box, and raise your hand. Or if you're
7	simply on the phone, press star five.
8	Okay, we will go to our first speaker, Jim
9	Grice.
10	MR. GRICE: Hi.
11	MR. KLUKAN: Go ahead.
12	MR. GRICE: Thanks. Yeah, as you said
13	this is Jim Grice for the state of Colorado. I did
14	have one question about the revision of the
15	interpretation, and I was wondering if, because it
16	appears that at least one state, that being Texas, has
17	interpreted it in alignment with this new
18	interpretation, and I was wondering if the NRC took a
19	look at any historical situations, or even events
20	where a restricted area was entered by a member of the
21	public, or someone who is not part of the radiography
22	team, or if there have been any substantial events
23	involving radiographer exposures as a result of this,
24	what I'll kind of term nondirect observation.
25	MR. WHITE: I'll take that question, this
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1 is Duncan White. Jim, yes we did. We did look at historical data from 2 event NMED qoinq back approximately for 20 years when we were working on 3 4 this rule, and we found very few instances where there 5 was a member of the public that entered the restricted really couldn't, 6 area. And we based on the information provided, we really didn't see any cases 7 8 where this was caused by the second qualified 9 individual not being attentive, or not observing the There were other circumstances involved where 10 area. that occurred. 11 Thank you Duncan. MR. GRICE: 12 MR. KLUKAN: Okay, again, a couple people 13 14 joined us since I made the announcement about how to 15 ask a question. Again, if you'd like to ask a question, please raise your hand using the raise hand 16 function, which you can find at the top of the Teams 17 screen under the hand, and smiley face icon that's off 18 19 to the right. Again, if you're just on the phone, press star five. Again, that is star five to let us 20 know that you'd like to speak, and we'll unmute you at 21 that time. 22 So again, we're open for guestions, so 23 24 please feel free to raise your hand, or to enter your technical question into the chat box. And we do have 25

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a question in the chat box, which I will read out loud, and this is from Randy Ragland. If the second person is developing film in the dark room, how can they prevent unauthorized entry? And again, I'll read this out loud again for the benefit of those who are participating on the phone to make sure you heard the question.

If the second person is developing film in 9 the dark room, how can they prevent unauthorized entry?

MR. WHITE: I'll take a crack at this one 11 As we noted in our presentation, the second 12 too. person, if he's not directly observing operations, he 13 14 has to meet certain criteria to not be doing that. 15 First one being he has to be cognizant of operations, and secondly, he has to be able to provide immediate 16 17 assistance. If he doesn't meet those criteria, certainly, I absolutely agree Randy, that he cannot 18 19 prevent unauthorized entry, and that would be, obviously a violation of safety concerns, doing that. 20

Or there may be circumstances where that 21 person can be able to do that, but if a person is just 22 sitting in the dark room, and has no contact with the 23 24 radiographer, I would agree that that doesn't meet the criteria in the new interpretation. 25

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1	MR. KLUKAN: Thank you for the question.
2	Again, it's star excuse me, thinking of Webex. Use
3	the raise hand function to let us know that you'd like
4	to speak, or again, if you're just on the phone, press
5	star five at this time, again that is star five, and
6	we are again open for any questions that you might
7	have. All right, we're going to go to a caller on the
8	phone.
9	I don't see all right, you don't have
10	a name, but your number starts with 17, and ends with
11	54. So, whoever is calling in with 17, and last
12	number 54, go ahead, and unmute yourself pressing star
13	six, and you should be good to go.
14	MR. BLACK: Yeah, this is Chris Black with
15	Energy Industry Academy. Wondering if there were
16	three I thought you laid out three prongs for the
17	meeting of nondirect observation. I think I missed
18	the third one, I had cognizant of the radiograph
19	they're able to immediately provide assistance, was
20	there a third one in there?
21	MR. WHITE: Yes there was, the third one
22	was the circumstances particular to that temporary job
23	site. Obviously some temporary job sites, you're
24	going to need two people, you may need more than two
25	people to adequately control the restricted area. If
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1	you're at a temporary job site where this can be done
2	with two people, then the interpretation would apply.
3	But again, it would be specific to the type of
4	temporary job site they're working at.
5	And as you know, temporary job site could
6	be middle of a field, it could be inside of a
7	building, it could be middle of a city, so it's really
8	going to depend on where you are in terms of how you
9	apply this new interpretation.
10	MR. KLUKAN: Thank you for the question.
11	So, I'm going to go to now, a comment, and a question
12	we received in the chat. So, the first one is by Ron
13	Parsons. Ron states that this is just a comment, this
14	may cause some confusion with reciprocity licensees,
15	as one state may adopt this requirement, while another
16	may not. Again, I'll read it out loud for those just
17	on the phone, this is from Ron Parsons, just a
18	comment. He notes this may cause some confusion with
19	reciprocity licensees, as one state may adopt this
20	requirement, while another may not. I'll give the NRC
21	a moment to respond to that if they'd like.
22	MR. WHITE: Again, I mean I'll give you an
23	example of what happens in the NRC jurisdiction. If
24	someone comes into NRC jurisdiction, they have to
25	follow the conditions on their agreement state
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1	license, but also they have to follow NRC
2	requirements. So, if they come into our jurisdiction,
3	that's the expectation. So, if someone is going from
4	if the agreement state follows similar protocol, if
5	an NRC licensee goes into their jurisdiction, they
6	would certainly have to follow the conditions on their
7	license, and they would have to follow the
8	requirements for the agreement state.
9	So, if the agreement state did not adopt
10	this new interpretation, then they would have to
11	follow the agreement state interpretation, and that's
12	the expectation.
13	MR. KLUKAN: Ron Parsons, thanks for the
14	comment.
15	MR. WHITE: Good question.
16	MR. KLUKAN: We'll now go to a question by
17	Phillip Scott, again that is Phillip Scott at CDPH.
18	Phillip writes if NRC informed the agreement state of
19	the NRC's determination that a state's regulation
20	meets the designated compatibility, that its
21	determination is held in abeyance, must the agreement
22	state its equivalent regulation for final
23	determination? And again, I'll read that out loud.
24	If the NRC informed the agreement state of the NRC's
25	determination a state's regulation meets the
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1	designated compatibility that its determination is
2	held in abeyance, must the agreement state submit its
3	equivalent regulation for final determination?
4	MR. WHITE: I think I know the answer to
5	this, but if Phillip could unmute himself, and provide
6	a little additional information, what he means by
7	determines held in abeyance, that's the part that's
8	throwing me for this particular question. So,
9	Phillip, if you're on the phone, could you please just
10	provide a little more clarity on that?
11	MR. SCOTT: Yeah, this is Phillip. The
12	question is okay, so California adopted the two person
13	rule back in 2008. At the 2008 letter under our
14	review by Michelle, the determination that we met the
15	compatibility requirement was held in abeyance because
16	of the OAS petition. So, is NRC expecting that if
17	that's the case, then the agreement state needs to
18	submit so that NRC can make the final determination
19	that we are either we meet compatibility? So,
20	that's the question. Do we have to resubmit our
21	regulation for your final determination?
22	MR. WHITE: At this time we haven't worked
23	this out completely how states are going to notify us,
24	but it would be reasonable that to close this matter
25	in the letter, that some sort of communication would
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1	have to occur between California, and the NRC about
2	this.
3	MR. SCOTT: Okay.
4	MR. WHITE: Yeah.
5	MR. KLUKAN: All right, thank you for
6	that. Next we're going to go to Mike Broderick on the
7	phone. Again that's Mike Broderick.
8	MR. BRODERICK: Hello, this is Mike
9	Broderick, I'm from the Oklahoma agreement state
10	program. Duncan said something kind of in passing a
11	couple of questions back that was important, so I want
12	to clarify. For us, the most common situation, this
13	is two workers out in the field in a radiography
14	truck, and the issue of concern is one of them is out
15	doing the work, and the other one's in the back of the
16	truck in the dark room with the air conditioner on.
17	Leaving out the video surveillance thing that you
18	mentioned in the reinterpretation, which is from my
19	perspective, frankly a science fiction.
20	Assuming he doesn't have video
21	surveillance, or something like that, what I
22	understood Duncan to say, and I want to make sure I
23	understood you right, is the NRC would agree that if
24	he didn't have some method of surveillance, that
25	somebody in the back, in the dark room would not be
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1	considered having a second person as surveillance
2	basically, a second set of eyes.
3	MR. WHITE: I think it would be reasonable
4	to conclude that he can't be cognizant of ongoing
5	operations if he's sitting in a closed room with an
6	air conditioner running, and not have any contact with
7	the radiographer, that he would know what's going on
8	outside that room. I think
9	(Simultaneous speaking.)
10	MR. BRODERICK: We heartily
11	MR. WHITE: I'm sorry, what Mike?
12	MR. BRODERICK: We heartily agree.
13	MR. WHITE: Okay. So, he would have to
14	have some so maybe he has a radio on, maybe he
15	called him on his cell phone, and has his cell phone
16	open. Again, those particular examples would be
17	developing as we develop guidance on what the NRC
18	would deem acceptable, and at the end of the day it's
19	Oklahoma's call if they come across that situation.
20	It's Oklahoma's call what they want to do. If they
21	don't think it's adequate, then you make that call.
22	MR. BRODERICK: One other question, have
23	you considered security has become a big deal for
24	those of you who have been asleep for the last 20
25	years, and again, our typical situation for this is
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1	two people with a powerful source off in the
2	boondocks, and if you don't have two people outside,
3	that reduces their situational awareness of what's
4	going on out there. Have you considered the effect of
5	that in terms of the security?
6	MR. WHITE: Again, with regard to part 37,
7	this interpretation doesn't preempt any of those
8	requirements. You would still have to meet part 37
9	requirements.
10	MR. BRODERICK: Yeah, my intention wasn't
11	to I feel like I shouldn't have mentioned part 37,
12	but we're concerned about security, and it's
13	definitely a reduction of their situational awareness,
14	and I'd encourage you to think about the effects of
15	that.
16	MR. WHITE: Thank you for the comment.
17	MR. KLUKAN: Yeah, thank you. So, we're
18	going to go now to two questions we've received in the
19	chat. First, from Michael Reichard. So, had this
20	interpretation been in place before the Texas IMPEP,
21	would they have been deemed compatible? My
22	understanding was that they were allowing the second
23	individual to be in the dark room? And again, the
24	question is from Michael Reichard, had this
25	interpretation been in place before the Texas IMPEP,
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23 1 would they have been deemed compatible? My understanding was that they were allowing the second 2 3 individual to be in the dark room. 4 MR. WHITE: I think the answer to that 5 question is probably, but again, this was back in I know Greg did a good job summarizing how we 6 2001. 7 qot here, but like everything else, there's a lot of 8 nuance on what happened there. And again, the 9 particular case of the Texas IMPEP really started because someone was working NRC jurisdiction, 10 not because Texas was doing this, it was because NRC. 11 So this is, again we would have to be sure that, again, 12 look at what Texas required back in 2001, which is 13 14 acceptable. 15 Again, the requirement to provide media assistance existed back in 2001, so I don't know if 16 17 Texas, again that's a question for Texas to answer, not me, about would that be allowable or not, back in 18 19 2001? I don't know. But again, everything being equal, it might have made something easier back then, 20 21 yes. MR. KLUKAN: Okay, thank you again for the 22 Again, a couple people have joined since I 23 question. 24 last gave the instructions. So, if you're in the Teams application, you go up to the more actions 25

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button at the top of your screen, it should be at the top of your screen, and then you hit the raise your hand function in order to let us know that you'd like to ask a question. If you're just on the phone, press star five, again that is star five to quote unquote raise your hand, to show us that you'd like to ask a question within Teams, and then we will call on you as we go through the queue.

9 Right now, I'm going to turn again, as I 10 said, to another question we have in chat, and this one again is from Randy Ragland. As an inspector, it 11 12 seems like this would performance based be а regulatory issue. If the second person is developing 13 14 film in the dark room, and there is no unauthorized If the second 15 entry, then there is no violation. 16 person is developing film in the dark room, and there 17 is an unauthorized entry, then there's a violation.

Aqain, from Randy Ragland, 18 as an 19 inspector, it seems like this would be a performance If the second person based regulatory issue. 20 is developing film in the dark room, and there is no 21 unauthorized entry, then there is no violation. Ιf 22 the second person is developing film in the dark room, 23 24 and there is unauthorized entry, then there is a And I'll turn it to the staff for any 25 violation.

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1	comment, or response.
2	MR. WHITE: My reaction to that Randy
3	would be, is the person, regardless of if there was
4	unauthorized entry into the restricted area, or not,
5	was the person cognizant of what was going on, or not?
6	To me that's the other part of the question here. And
7	it'd be hard to ascertain in a simple example such as
8	that. So, I mean that's the other part that needs to
9	be answered.
10	The person has to be cognizant, and able
11	to provide immediate assistance, and if the person was
12	able to do all of those things, and was developing in
13	the dark room, then that would meet the requirements
14	of the new interpretation. If they were not, then I
15	would say that's a potential violation. And then
16	Randy added something, unless there is video
17	monitoring, I don't know how they would be fully
18	cognizant.
19	So, I give the example, again, video is
20	obviously a possibility, more likely something like an
21	open phone line, open radio line where the
22	radiographer, and the other person are directly in
23	communication with each other continuously.
24	MS. RONEWICZ: Brett, I think you are on
25	mute.

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MR. KLUKAN: I'm on mute, I'm on mute. Well, that's the first time, so I'll take the award for that one, first person to start talking on mute. Anyway, sorry about that. So our next -- we did have a hand raised by Frank Peffer, it looks like you may have lowered your hand, if you'd still like to ask a question, please go ahead.

8 MR. PEFFER: No, I was just having a 9 comment on what Mr. Ragland said about it being a 10 performance issue as an inspector. I'm not sure I'd agree with that, because it's almost like he's saying 11 they're required to have an alarming rate meter, well 12 if they didn't have an alarming rate meter, but they 13 14 never walked into a high radiation area, then it wouldn't matter that they didn't have it. So, I don't 15 think, unless I misunderstood him, I don't think that 16 17 point he had was valid.

Because he's acting like as long as nothing happened, then it's okay that they didn't take that precaution. I'm not sure if I understood him correctly though, that's all.

22 MR. KLUKAN: All right, thank you for 23 that, and maybe Randy can respond via chat to that. 24 We're now going to go to, we've got a couple more 25 questions in the chat. So, from Michael Snee, and

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again, I apologize if I'm mispronouncing anyone's name, but again this is from Michael Snee. Are licensees expected to ask every state that they work in on how they interpret this particular, or any other rule before getting reciprocity? This seems to be a burden for licensee in the states.

7 The rules are compatibility B, the NRC's interpretation, also compatibility B for states. 8 9 Again, I'll read that out loud again. Michael Snee, 10 are licensees expected to ask every state they work on how they interpret this particular, or any other rule 11 before getting reciprocity? This seems to be a burden 12 on both the licensees, and states. The rules on 13 14 compatibility B is the NRC's interpretation, also 15 compatibility B for the states. And I'll turn that 16 over to the staff for a response.

17 MR. WHITE: With the new interpretation, compatibility was changed to compatibility C. 18 So, 19 from NRC's standpoint, this allows, as I said in my remarks during the formal presentation portion, the 20 agreement states can have the opportunity now, the 21 flexibility to either adopt the NRC interpretation, or 22 if they wish they can continue with their existing 23 24 interpretation. Again, that's up to the individual 25 states.

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1	So, again, with regard to your first
2	question, first half of your question Mike, that
3	really hasn't changed. Licensees, if they go work in
4	different states, they are expected to follow rules,
5	whether NRC jurisdiction, or the individual agreement
6	state jurisdictions, whatever they do. That has not
7	changed, so they will have to continue to do that.
8	And we do know there's, because the way we do
9	regulations under the National Materials Program,
10	there is some differences from state to state because
11	of compatibility.
12	So, Licensees have to follow the rules
13	whatever jurisdiction they're in, and this is, they
14	would have to follow this one too.
15	MR. KLUKAN: Okay, again, thank you for
16	the question. We're going to go to another question
17	in chat, and then I think potentially back to the
18	audio bridge. It looked like we had someone raising
19	their hand, but they may have lowered it, maybe their
20	question was answered. But we do have a question from
21	Janine Katanic, again that is Janine Katanic. Is
22	there an indication of how many agreement states will
23	adopt this new interpretation?
24	Is Texas still following their 2001
25	interpretation, now the NRC's interpretation? Again,
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1	this is from Janine Katanic, is there an indication of
2	how many agreement states will adopt this new
3	interpretation, is Texas still following their 2001
4	interpretation, now the NRC's interpretation?
5	MR. WHITE: We were asked the question
6	about how many states we think will adopt it, we don't
7	think a lot will, but again, that's ultimately a
8	decision for each agreement state to decide. Texas,
9	in 2020, issued basically a new interpretation, or I
10	guess it was a letter to their licensees indicating
11	that they are changing the way that they are viewing
12	the two person rule, and they adopted that back in
13	2020.
14	MR. KLUKAN: Okay
15	MR. WHITE: Again, so what Texas was doing
16	in 2001, which was the basis for the 2005 petition,
17	Texas years later decided to change the way they view
18	this regulation, and they adopted, and shifted on
19	that. So again, they had a reason for doing that, and
20	they're certainly allowed to do so.
21	MR. KLUKAN: Sorry, I was waiting for the
22	train to pass by no, deciding to blow the whistle
23	again. Sorry about that. So again, we do have a hand
24	up, it is from Jim Grice, so go ahead, and unmute
25	
	yourself, and ask a question.

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1	MR. GRICE: Hey Duncan. So, I just want
2	to clarify something, so my understanding is this
3	interpretation was a revision of the interpretation of
4	34.41, correct?
5	MR. WHITE: 34.41(a), yes.
6	MR. GRICE: Okay, so I guess one of my
7	questions is that 34.51, the section specifically on
8	surveillance reads during each radiographic operation,
9	the radiographer, or other individual present as
10	required by 34.41 shall maintain continuous direct
11	visual surveillance of the operation to protect
12	against unauthorized entry. So, I'm just not sure how
13	I understand there's a reinterpretation of
14	34.41(a), but doesn't 34.51 still require a continuous
15	direct visual surveillance?
16	So, I guess I can see saying that if they
17	have a camera, and they have a video surveillance,
18	that would meet 34.51, but I'm not understanding how
19	we get away with things like radio, or phone kind of
20	communication in terms of 34.51. I hate to, I'm sorry
21	if I'm complicating it, but I just see those as being
22	kind of tandem requirements, and the 34.51 is the one
23	that's kind of throwing me off, because it
24	specifically says visual.
25	MR. WHITE: I believe it uses the term,
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1	there's an or in there, and I think that provides the
2	flexibility, but I also believe the compatibility for
3	34.51 is C. Pull up, yeah, this is a good question
4	Jim. Again, in the original petition that we got in
5	2005, they did ask for some changes to 34.51, and we
6	chose not to change that. Yeah, it says during each
7	radiograph operation, the radiographer, or the other
8	individual present as required by 34.41 shall maintain
9	contain continuous direct visual so one of the two
10	has to have direct observation.
11	MR. GRICE: Okay.
12	MR. WHITE: It does say or there.
13	MR. GRICE: I got you, thank you, that
14	helps. So, the idea is that 34.51 is in some ways
15	almost automatically satisfied by having a man on the
16	crank.
17	MR. WHITE: Right, that was we did look
18	at that carefully, and that did have the it was one
19	of the others, at least one of the two people had to
20	be observing.
21	MR. GRICE: Okay, thank you.
22	MR. KLUKAN: Okay, thank you, again. So,
23	we are going to go back to the chat. Again, we have
24	another question from Janine Katanic, again from
25	Janine Katanic. If Texas was the driver of the
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revised NRC interpretation, and now Texas no longer interprets it that way, why did the NRC continue with this new interpretation? Again this is from Janine Katanic. If Texas was the driver for the revised NRC interpretation, and now Texas no longer interprets it that way, why did the NRC continue with this new interpretation?

8 MR. WHITE: Well, I'll answer the first 9 part. Again, the petition was from OAS for starters, 10 so although it was based on the Texas rule, it was an When they concluded the first view of 11 OAS petition. the petition, they finished with the petition in 2008, 12 and published it in the federal register, what they 13 14 said is that this was consideration for a further look at a later time, and that's kind of why we are where 15 16 we are today.

And I'll leave it to Greg, or to Sheldon to provide some more clarity on the petition process, they may provide some more light on how that works, and why we need to conclude the petition process.

21 MR. KLUKAN: Okay, we are going to --22 again, if you'd like to ask a question, please press 23 star five on your phone if you're joining us via the 24 phone, again that's star five. And for those of you 25 in the Teams chat, use the raise hand function, which

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you can find under more actions at the top of your screen. Click that, and there will be a little -- or next to the more actions button, it's a little, it looks like a high five, and a little smiley face, click on that, and there will be a little raise your hand function.

Or it's control shift K, control shift K 7 8 if you prefer that. Or enter your question in the 9 chat. It looks like we have another question in chat, 10 so I'm going to read that out loud. And this is from Jim Draper -- excuse me, Jason Draper, Jason Draper. 11 34.51 specifically specifies unauthorized entry into 12 a high rad area, but 34.41 simply states unauthorized 13 14 entry. What area does 34.41 require the individual, 15 or individuals to prevent unauthorized entry into? 16 HRA, or restricted area?

Again, I will read Jason's question out loud. 34.51 specifically specifies unauthorized entry into a high rad area, but 34.41 simply states unauthorized entry, what area does 34.41 require the individual, or individuals to prevent unauthorized entry into? Is it the HRA, or the restricted area? And thank you for the question.

24 MR. WHITE: Good question. 34.41, 25 unauthorized entry to restricted area, again, there's

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1	also a radiation area too, before you get to the high
2	radiation, there's a radiation area, so that's how we
3	interpret, that's how we looked at 34.41.
4	MR. KLUKAN: Okay, thank you again for the
5	question. So, we have, I will do my best to read this
6	out loud. So, this is from David Crowley, again, this
7	is from David Crowley in the chat, and I will read it
8	out loud for the benefit of those of you on the phone,
9	and I'll do this twice. My concern with the camera
10	hypothetical is that it does not provide a 360 degree
11	level of awareness.
12	They would also not be able to act on
13	seeing it immediately if needed. To Michael Snee's
14	point, I don't know how this is going to cause a
15	transboundary issue for reciprocity issues, or the
16	states when they come in from a state with varied
17	interpretations. Additionally, to the OAS part, I've
18	been on the board for almost six years in the last
19	eight. This petition was never discussed by more
20	current members than I'm aware of.
21	Definitely we'd like to see NRC, OAS step
22	back, and reassess if this is truly needed, or causing
23	unnecessary issues from a legacy IMPEP to Janine's
24	point. Again, I'll read this out loud, and again this
25	is from David Crowley. My concern with the camera
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hypothetical is it does not provide a 360 degree level
of awareness. They would also not be able to act on
scene immediately if needed. To Michael Snee's point,
I don't know how this is not going to cause a
transboundary issue for reciprocity licensees, or the
states when they come in from a state with various
interpretations.

8 Additionally to the OAS part, I've been on 9 the board for almost six in the last eight. This 10 petition was never discussed by more current members than I'm aware of. Definitely would like to see the 11 NRC, OAS step back, and reassess if this is truly 12 needed, or causing unnecessary issues from a legacy 13 14 IMPEP, to Janine's point. Again, thank you very much David for the question, and comments, and I'll turn it 15 over to the staff for a response. 16

MR. WHITE: Well -- go ahead.

MR. TRUSSELL: Well this may be something we'll have to sit down -- if we haven't got a response from Duncan, or Sheldon, they haven't responded by now, maybe this is something we can follow up on later. MR. WHITE: And certainly David, certainly

the lines of communication are open, I'm happy to talk to OAS about this, absolutely. Again, in terms of how

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1	this was handled, again it's a petition, we follow
2	certain requirements for petitions, so that played a
3	part of it. But again, David, you know we'll be happy
4	to talk about this another time.
5	MR. KLUKAN: And thank you again David,
6	for your question, and comments. We'll now turn to
7	Mike Broderick in the Teams app. So, go ahead, and
8	unmute yourself Mike.
9	MR. BRODERICK: I almost well in fact
10	I did briefly lower my hand. David Crowley said
11	precisely what I was going to say. It seems to me
12	here with this reinterpretation, we're creating a
13	potential transboundary issue to solve a problem that
14	nobody currently is agitating to solve, and in that I
15	support what David said.
16	MR. KLUKAN: Okay, thank you for that.
17	Mike, we appreciate it. Next up, again, it looks like
18	we don't have actually anyone next up. So, feel free
19	to enter your questions into the chat, and I'll read
20	them out loud. Or if you're on the phone, press star
21	five, again that's star five to raise your hand. Or
22	if you're in the Teams application, feel free to raise
23	your hand using the function at the top of your
24	screen, and we'll give people a couple minutes to
25	either enter their questions in the chat, or to raise
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1	their hands.
2	All right, I'm not seeing anyone. Again,
3	I'll read through the instructions again. Feel free
4	to raise your hand to let us know that you'd like to
5	ask a question if you're in the Teams application. If
6	you're on the phone, press star five to raise your
7	hand, and then we will let you know when it's your
8	turn to speak. Or, just feel free to type your
9	question into the chat, and I will read it out loud.
10	A lot of you have been availing yourselves
11	of that, and if it's easier, feel free to go ahead,
12	and we will receive your questions that way. So,
13	whatever works best for you, and I'll give people here
14	some time to figure out if they have any additional
15	questions. I've got a question in the chat, and this
16	is from Geoffrey Warren, again that's Geoffrey Warren.
17	Do we have any examples of situations with a second
18	individual that are clearly acceptable under the new
19	interpretation?
20	Again this is from Geoffrey Warren for

2 those of you on the phone. Do we have any examples of 21 situations with the second individual that are clearly 22 23 acceptable under the new interpretation? Thank you for the question, and I'll turn it over to the staff 24 25 for response.

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1 MR. WHITE: I think a very simple one, and 2 again this is where we'll have to develop guidance 3 with the states on what would be -- overall quidance 4 on terms of what would be acceptable situations, and 5 examples, but I'll give you one type of simple Someone stepped away, the second qualified 6 scenario. 7 person stepped away, was within speaking distance of 8 the radiographer, or was on the phone with the 9 radiographer, stepped away for a few minutes, was out of sight of the area. 10 That may be an acceptable situation, but 11 again, I want to point out that we have to talk these 12 things through, and get people around the table to 13 14 come up with examples of what would be acceptable. 15 Again, as I pointed out early on, the complexity, the wide variety of temporary job sites that radiography 16 17 is done makes it very challenging to say yeah, this is an absolute one, or this is an absolute no, this is an 18

absolute yes. So it's challenging.

20 MR. KLUKAN: Okay, thank you again for the 21 questions. I'll repeat the instructions again. If 22 you'd like to ask a question, feel free to enter it 23 into the Teams chat box, what we call the meeting 24 chat. You can open that up by clicking on the little 25 dialogue, or it looks like a chat bubble at the top of

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1	your screen in the Teams application. Or you can
2	raise your hand if you'd like to ask a question
3	verbally within the Teams application. Or if you're
4	on the phone, press star five.
5	Again, that is star five to raise your
6	hand to let us know that you'd like to ask a question.
7	And we'll give people here some time, to think if they
8	have any other questions they'd like to ask. So,
9	thank you again. All right, we'll do this one more
10	round again. If you'd like to ask a question, press
11	star five on your phone, if you're participating
12	solely via phone.
13	If you're in Teams, feels free to enter
14	your question into the chat box, or the meeting chat,
15	or raise your hand at the top of the screen to let us
16	know that you'd like to speak. If not, I will turn it
17	back over to the staff. We'll give people here a
18	little bit of time to think about if they have
19	anything else they'd like to ask today.
20	MR. TRUSSELL: Thanks Brett, this is Greg.
21	Next slide please. So, again, as explained earlier by
22	Kevin, as required by 10 CFR 2.804, for any post
23	promulgation comments received, the commission shall
24	publish the statement in the Federal Register
25	containing the evaluation of the significant comments,
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1	and any revisions of the rule, or policy statement
2	made as a result of the comments, an their evaluation.
3	So, thus the NRC, we will address the significant
4	comments we receive in those, and we will also take
5	the input from today's meeting to formulate our next
6	steps.
7	So, I would like to thank everybody for
8	their attendance today, and their participation. Next
9	slide please. All right, open up this, does Kevin,
10	anybody else on the staff have any closing comments?
11	Kevin?
12	MR. COYNE: (Inaudible.)
13	(Simultaneous speaking.)
14	MR. KLUKAN: Before we go to closing
15	comments I'm sorry Kevin, we did have one question
16	pop up, I just want to make sure we captured it.
17	Right as you started to speak Greg, so if we could go
18	through that, and then we'll turn back. I'm sorry for
19	interrupting. So, this is from Deborah Piskura. In
20	cases where the second individual is the assistant
21	radiographer, how would this new interpretation apply
22	to the two man rule?
23	Would it be acceptable for the assistant
24	to take shots while the supervisor radiographer is in
25	the rig? Again, in cases where the second individual
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1 is an assistant radiographer, how would this new 2 interpretation apply to the second man rule? Would it 3 be acceptable for the assistant to take shots while 4 the supervisor radiographer is in the rig?

5 MR. WHITE: Ι think this new would not apply. 6 interpretation This was never 7 considered as under the -- when we were discussing this at any point, this particular scenario. There's 8 9 qood reasons for the radiographer to be physically present watching an assistant radiographer during 10 shots, when he's doing the radiography work, and this 11 12 interpretation was never, I don't think ever intended to apply in this particular case. 13

14 MR. KLUKAN: Okay, thank you for that, and 15 we just have one comment, I'll just read it out loud. This is from Gwyn Galloway, one of the most common 16 situations that occurs is where the one individual is 17 operating the camera, and the other is in the dark 18 19 room processing. Again, this is from Gwyn Galloway, just a comment, that one of the most common situations 20 that occurs is where the one individual is operating 21 the camera, while the other is in the dark room 22 23 processing.

24Thank you again for all of your questions,25and comments today, and with that, sorry for

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1	interrupting again. I'll turn it back over to Kevin.
2	MR. COYNE: No, that's perfect Brett, and
3	I was actually trying to flag to you that there were
4	two comments in the chat, so that's great. Thanks
5	Greg, and Brett. And I want to thank everyone for
6	their participation, discussion, and insights this
7	afternoon. As Greg noted, the NRC will publish a
8	notice in the Federal Register in the future to
9	provide an evaluation of the comments received, and
10	any revision to the interpretive guidance that we need
11	to make.
12	Also we very much value your feedback in
13	how we conduct our meetings, so I encourage you to let
14	us know about your experience today, and Gregg will
15	provide a little more information on that. And with
16	that, I thank you, and I'll turn it back over to Greg.
17	MR. TRUSSELL: Yeah, thanks Kevin. So,
18	there's the last slide there. You can email me at
19	this address, any feedback at all on this meeting
20	would be appreciated. So, again, I'd like to thank
21	everybody for their attendance today, and if there's
22	nothing else, I'll go ahead, and close out the
23	meeting. Thanks again.
24	(Whereupon, the above-entitled matter went
25	off the record at 1:58 p.m.)
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