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SRP Chapter 2 Sections

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RISK-INFORMED UPDATES TO SELECTED

SRP CHAPTER 2 SECTIONS

PUBLIC MEETING

MONDAY

OCTOBER 22, 2018

The Public Meeting convened in the TWFN Auditorium, 11545 Rockville Pike, Rockville,

Maryland, at 9:00 a.m, Daniel Mussatti,

facilitating.

NRC STAFF PRESENT

DANIEL MUSSATTI, Facilitator

FREDERICK BROWN, Director, Office of New Reactors

ANDREW C. CAMPBELL, Division of Licensing,

Siting and Environmental Analysis, Office

of New Reactors

MICHAEL LEE, Division of Licensing, Siting and
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MICHAEL D. MAZAIKA, Division of Licensing,

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Siting and Environmental Analysis, Office
of New Reactors

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1	P-R-O-C-E-E-D-I-N-G-S
2	9:04 a.m.
3	MR. MUSSATTI: Okay. This is a small
4	crowd. So I don't need quite as many notes as I
5	thought I did.
6	I'm Dan Mussatti. I'm with the NRC's
7	Facilitator Corps. I'm going to be trying to help
8	you today to make sure that this meeting is timely.
9	And that the information goes back and forth in an
10	easy manner.
11	We're going to take a break somewhere
12	around ten o'clock for a few minutes. It's a short
13	break. So, if you're going to go up to the try
14	and get a cup of coffee or something like that, please
15	try to come back on time as fast as you can.
16	And we're going to try to start on time
17	so that we can get through all of this. The prob
18	what we're trying to do is have the meeting broken
19	into two pieces.
20	The first part is going to be the
21	presentations from the NRC Staff. And after that,
22	we're going to have an opportunity for the public and
23	all the people that are sitting here in the room to
24	ask questions.
25	We did not plan on having these questions

1	and comments responded to by the staff at the time.
2	If it's a short little yes or no kind of an answer,
3	then yeah, we'll probably do that.
4	But, we're in an information gathering
5	mode today. So, we're probably going to be
6	responding through what our reactions to your
7	comments on the actual changes to the to the reg,
8	or to the NUREG.
9	We have a court reporter in the back of
10	the room who's going to transcribe this today for us.
11	So, when you do speak, I'd ask you to line up behind
12	the microphones.
13	And when I call on you to speak, start
14	with your name and your affiliation. And then speak
15	clearly and slowly so that we get a real good
16	transcription here.
17	Also, what you say may not be what you
18	thought you were trying to say. Or what we hear may
19	not be what you're trying to tell us.
20	So, it's a good idea for you to follow up
21	any comments that you have in that are verbal here,
22	with something in writing. So that we make sure that
23	we've got as accurate assessment of what it is that
24	you're to say as possible.
25	There's an email website that is

1	available to you that's in the paperwork that's been
2	handed out. And it will be in one of the, I think,
3	in one of the final slides will have that in it as
4	well.
5	Feel free to send us your comments,
6	additional comments, and a transcription of whatever
7	it is you were trying to say here, if at all possible.
8	Other then that, I don't think I need to
9	go into a whole bunch of rules about, you know, one
10	at a time and all that. You've been through all of
11	this stuff before. And we know how to have decorum
12	in our forum.
13	So, what I'd like to do now is I would
14	like to introduce Fred Brown, who is the Office
15	Director here. And let him take over. The switch
16	is on the bottom.
17	MR. BROWN: Well, thank you. And good
18	morning to those in the room, largely staff. And
19	hopefully on the line. And hopefully we will be
20	Skyping here before too long.
21	Thank you for coming. This is actually
22	a pretty important topic. The Standard Review Plan
23	is really at the heart of what we do as an agency in
24	licensing.
25	It's important to our applicants because

1	it lays out the expectation for a submittal.
2	Particularly, or specifically in this case, for an
3	operating reactor
4	And so the amount of work, the analysis,
5	the documentation that's specified in the SRP, can
6	drive actions on the part of an applicant.
7	It's important to the Staff because it's
8	what we use to ensure that we've thought of the things
9	that we need to think about. And that we're making
LO	the findings we need to make.
L1	And it's the Standard Review Plan is
L2	also important for adjudicatory and legal purposes.
L3	To define the structure of the analysis that the Staff
L4	has planned and has taken in order to perform a
L5	review.
L6	The Standard Review Plan goes back quite
L7	a ways into NRC history. And if you look at the
L8	document over the years, you will notice that it has
L9	grown significantly.
20	While the regulations themselves haven't
21	changed that much, there's been a tremendous amount
22	of operating experience. And that operating
23	experience is primarily associated with the large
24	light water reactors that we've licensed over the
25	years and we've now got 40 or more years of operating

1 experience with. 2 And so the Standard Review Plan, which identifying 3 started out what regulatory the 4 requirements were, and then the findings against 5 requirements, has served as а knowledge management tool for the technical Staff to remember 6 and to think about things that have happened with the 7 operating fleet. 8 9 Now, as we find ourselves no longer generally reviewing large light water reactors with 10 11 active safety system, rather what we're reviewing 12 more of now, are passive safety features and small modular reactors or System 3 -- Generation 3 pluses, 13 it's been referred -- they've been referred to. 14 15 And as we start to think about non-light water reactor reviews, we have the opportunity to go 16 back and revise the Standard Review Plan to get back 17 to the basic fundamental question of what is it that 18 an applicant has to demonstrate? 19 What does the Staff have to have findings 20 And how can we focus both the application itself 21 and our review on the things that are most applicable 22 and most safety significant for the new designs that 23 we're being asked to review. 24 25 so it's kind of interesting,

1	leadership of the agency has been thinking along the
2	lines of the importance of revising the Standard
3	Review Plan. And organically within the
4	organization, some of the Staff and branches have
5	been doing the same things.
6	So, what we're going to talk about today
7	are some sections of the Standard Review Plan where
8	we've had a convergence of interest and thought. And
9	that convergence is timely, and it's leading to what
LO	we're calling a pilot.
L1	But, it also is a little less then perfect
L2	in the presentation. So, there is a regular ongoing
L3	SRP update process.
L4	And this year the folks that will be
15	talking this morning about the chapters that we're
L6	going to talk about, were scheduled to revise their
L7	sections.
L8	And had started to approach those
L9	revisions from a how do we focus this on the level of
20	effort ought to be commensurate with the safety
21	significance.
22	The unfortunate and I mean, that's
23	obviously good. And it's consistent with a broader
24	look at the Standard Review Plan to achieve that same
25	outcome.

1 The slightly unfortunate thing is that in 2 an ideal world we would have started with an entire chapter or a subchapter 2.4, rather then 2.4-3 for 3 And so the Staff will -- today will talk 5 about how what we published in the Federal Register 6 Notice should be read in the context of a slightly 7 broader change. But if you take the time to listen to 8 that and understand, I think that what's going to be 9 described is a very positive approach to having 10 11 applicants focus on what's most important for their And for the Staff to focus its efforts on 12 site. what's most important for those sites. 13 In addition, the structure, the format 14 15 that we publish really is and structure consistent with what we've historically done in the 16 And so that's -- that's the other area that 17 SRP. we're really interested in public comment. 18 Both in this meeting and then in written 19 comments for our Federal Register Notice solicitation 20 input on structurally, how can we redo the 21 22 Standard Review Plan in a way that it both focuses the effort of the applicant. And focuses the effort 23 the Staff the findings required for 24 on

Regulation.

25

1	So I think conceptually what you're going
2	to hear today is a really good first effort to focus
3	the Standard Review Plan content. And an openness
4	to engage on how we can go beyond just structuring
5	the content too actually structuring the process and
6	the document, the SRP itself.
7	So we look forward to active engagement
8	and participation. Hopefully we'll have Skype up
9	here.
10	But, I would now like to turn the mic
11	over to Dr. Andy Campbell. Who will get into more
12	of the details.
13	MR. CAMPBELL: Thank you Fred. So, I'm
14	Andy Campbell. I'm the Deputy Director of the
15	Division of Licensing, Siting, and Environmental
16	Analysis here at the NRC.
17	And my area of responsibility includes
18	all external hazards. We have an external hazards
19	center of expertise. And within that flooding,
20	seismic, other sorts of external hazards are covered,
21	both natural as well as man made.
22	So the review scope so today's
23	meeting, the review scope for the proposed changes of
24	four Standard Review Plan sections. So, we're going
25	to cover those four

1	The scope of the proposed changes
2	summarized in the Federal Register Notice includes
3	hydrology and meteorology, which was Federal Register
4	49132, or 83 49132, surface affirmation 83 FR 41939.
5	So Chapter 2.4 was selected as a test
6	case for risk informed performance-based revisions.
7	To focus our efforts on what we're going to be calling
8	consequential events, and consequential floods.
9	So, recent application of NUREG-0800,
L 0	which is the Standard Review Plan, as you heard,
L1	includes early site permit and combined operating
L2	license reviews. We've completed to date, with
L3	complete licensing, we did reviews at other sites.
L4	But, some withdrew and some are still suspended.
L5	But five early site permits have been
L6	issued. And eight combined operating licenses have
L7	been issued. So, that's a significant database of
L8	work in these areas.
L9	We've also, since 2012 been reviewing 50
20	what's called a 50.54(f) letter response, an
21	information request following the Fukushima Daiichi
22	nuclear power plant accident where both an
23	earthquake, but more importantly a tsunami caused a
24	total station blackout. And resulted in meltdowns
25	of three reactors.

1	So, that review encompassed both seismic
2	and flooding reevaluations of about 60 reactor sites.
3	So there's this large database of work in the external
4	hazards area in terms of impacts.
5	Staff identified opportunities for
6	improving the efficiency and effectiveness of NRC's
7	regulatory review process. There are lessons learned
8	from this extensive set of licensing actions and
9	reviews.
LO	There s large indication from that of
L1	where we can do a more risk informed performance-
L2	based approach in terms of the principals. And
13	there's really a more focused set of review criteria
L4	when you're doing a flooding and/or seismic analysis.
15	And today 2.4 is talking about flooding.
L6	So, the purpose of this meeting is to
L7	begin a dialog with stakeholders. We're in listening
L8	mode.
L9	We want to get your comments on the
20	general approach to the Standard Review Plan updates,
21	which Fred talked about, and you'll be hearing about
22	as we go through the presentations. We want your
23	feedback on proposed risk informed performance-based
24	revisions to Chapter 2.4.
25	And we also want recommendations on how

1	risk informed performance-based approaches can be
2	expanded to other SRP chapters and sections. And
3	we're seeking recommendations on modifications to the
4	Standard Review Plan format itself.
5	We will also be discussing potential
6	future SRP updates to Sections 2.3, 2.4, and 2.5 in
7	the coming calendar years of 2019 and 2020.
8	So the staff that on the update team,
9	I'll just you can see the slide. Or if you can't,
LO	it's Hosung Ahn Dr. Hosung Ahn, Dr. Stephanie
L1	Devlin-Gill, Joe Giacinto, Dr. Mike Lee, Dr. Nebiyu
L2	Tiruneh, Brad Harvey, Mike Mazaika, Laurel Bauer on
13	geology, Gary Stirewalt Dr. Gary Stirewalt, Jenise
L4	Thompson on geology, and project management is
L5	Hoellman, Notich, and Rankin.
L6	And with that I'm going to get start
L7	with hydrology, Chapter 2.4 updates. These are the
L8	tsunami hazards and channel migration. That's going
L9	to be Dr. Mike Lee.
20	Surface deformation updates, which is SRP
21	Section 2.5.3 is Jenise Thompson. And onsite
22	meteorological monitoring program update is Section
23	2.3.3. And that's going to be Mike Mazaika.
24	And with that, I'm going to turn it back
25	to Dan. And let Dr. Lee begin his presentation.

1	MR. MUSSATTI: Okay. Before we start
2	the presentation, I've got a little housekeeping work
3	here that needs to be done.
4	We have found out that we have some
5	technical difficulties in trying to get the webinar
6	to connect. And we know that there are some people
7	that are online listening on the phones that have
8	been trying to figure out what's going on.
9	We dom't think we're going to be able to
LO	get the webinar to actually fire off. But, if you're
L1	listening on the phone and you can follow along with
L2	the slides, you're more then welcome to do that.
L3	And we will see what we can do about
L4	trying to take your questions later on if you have
L5	them. To get the slides, if you would go to the
L6	NRC.gov home page, there's a calendar right there on
L7	the front page, right in the middle that has today
L8	highlighted.
L9	If you click on that, it will give you
20	this webinar and this morning's meeting as a meeting
21	for the day. And towards the bottom of that you will
22	be able to see the Adams number for the slides.
23	If you want the Adams number for the
24	slides right now, grab a pencil. And I can give you
25	that number so you don't have to go to the web to

Τ	our web page to get it.
2	The ascension number under Adams is
3	ML18292A592. One more time I'll say that number for
4	you. It's ML18292A592.
5	And we'll try to work on this, like I
6	said, to be able to get your questions today. If
7	not, please mail in your questions or your comments
8	to the information that's the address that's or
9	that announcement.
10	And we will include that in our work in
11	the future. Thank you.
12	MR. CAMPBELL: So, I'm going to introduce
13	Dr. Mike Lee, who's going to talk about the 2.4
14	section tsunami hazards and channel migration. Dr.
15	Lee.
16	MR. LBE: Thank you Andy. For those that
17	are participating remotely, I'm going to turn to slide
18	one.
19	And what I we've done here is just
20	kind of show graphically or in cartoon form the points
21	that Andy's pointed out or acknowledged earlier, that
22	the SRP update process kind of benefitted from some
23	lessons learned. First with the ESP and COLA reviews
24	that were done over the last decade or so and more
25	recently.

1	We've been working with our licensees in
2	the context of the 50.54(f) review to examine the
3	to reexamine the design basis for flood hazard reeval
4	floods and seismic events.
5	So, if we can turn to slide two. And
6	parochially now we'll just turn directly to flooding.
7	In the context of the flood hazard
8	reevaluations and based on what the Standard Review
9	Plan tells us to do in Chapter 2.4, we more or less
10	looked at eight flood causing mechanisms. Which are
11	laid out here for you.
12	And for the benefit of the folks on the
13	phone, I'll just read them briefly. We have local
14	intense precipitation. Which is basically a rainfall
15	event that occurs over the footprint of the power
16	plant.
17	We have flooding on streams and rivers,
18	which maybe adjacent to a particular power plant site.
19	We're concerned of course with dam failures and onsite
20	water control structures.
21	You may have a breach of a dam upstream
22	that leads to kind of a transient flood event that
23	migrates downstream. Or you could have a flood
24	you could have a dam breach if you will, for a cooling
25	system, a water storage system that's onsite.

1	Storm surge applies to those sites which
2	are located predominantly in marine settings along
3	the coast. Seesh (phonetic) is a more or less an
4	atmospherical phenomena that occurs when a when
5	you have resident vibration of the water surface on
6	very large bodies of water like the Great Lakes.
7	Tsunami of course is an event that we're
8	all very interested in. That occurs again, in
9	reference to a marine setting.
LO	You may have ice induced flooding due to
L1	some ice jam upstream or an ice dam downstream of a
L2	nuclear power plant that's adjacent to a river.
L3	Creating backwater event effects and the potential
L4	for flooding.
L5	And lastly, we're always interested in
L6	channel migrations or diversions. Particularly in
L7	reactor sites that are in what you might consider to
L8	be a dynamic environment in terms of riverine
L9	processes.
20	So if we could turn to slide three.
21	Okay. So, having done these evaluations
22	collectively, we began to see a few things.
23	We found for example that not all sites
24	were subject to the same to all flood causing
25	mechanisms.

1	And in particular we found that only a
2	few flood causing mechanisms were actually found to
3	be consequential in terms of defining the design basis
4	or challenging if you will, a design basis in terms
5	of water surface elevations.
6	So, we found for example that LIP and
7	associated drainage were practically at all power
8	plant sites. Flooding from streams and rivers,
9	hypothetical failure of dams and other onsite water
LO	structures were also challenging some design
L1	assumptions, as well as storm surge.
L2	So, turning to slide four. We also found
L3	that most flood causing mechanisms were not discrete
L4	events.
L5	They usually occur in combination with
L6	other site some other type of flood causing
L7	mechanism.
L8	For example, you may have a heavy
L9	precipitation event that occurs over a large
20	watershed, and that may have an impact both on the
21	water surface elevation in some contiguous river or
22	stream. But it also may begin to challenge a water
23	storage structure such as a dam upstream from a site.
24	And that being said, we also found that
25	associated effects were important. You know, water

1	surface elevation increases lead to other
2	consequences like collection of sediment,
3	hydrodynamic or hydrostatic loads can change, things
4	like that are important for evaluation in the context
5	of a reactor design.
6	We also learned that some flood causing
7	mechanisms, I mean, it's not really a surprise, but
8	are controlled by topography, geography, and/or
9	climatic setting.
10	Not all sites are subject to the same
11	flood causing mechanisms. A site out in the desert
12	may not have trouble with a tsunami or ice dams or
13	ice jams as opposed to inland sites, which typically
14	aren't affected by storm surge or tsunamis.
15	So, we found basically that the hazard
16	you might argue can be discretely defined in terms of
17	a marine or coastal setting. Or a different suite
18	of hazards for continental and inland locations.
19	And lastly, one of the other insights on
20	slide six is that not all flood causing mechanisms
21	are equal in terms of occurrence and consequence.
22	The magnitude of the event can change
23	depending on the type of flood causing mechanism, the
24	intensity, the duration, and the location. All of
25	these things we found were important in reviewing

design basis at the operating -- within the operating 1 2 fleet. 3 having reflected on So, what we've 4 learned from both the ESP and the COLA reviews, as 5 well as the 50.54(f)reviews, we can reach some general conclusions. And those are -- I began to 6 address in slide six. 7 all flood causing mechanisms 8 Not 9 equal in time and space. A rainfall event, for example, that you might associate with a tropical 10 11 storm, is going to be a lot different from the 12 rainfall event that you might associate with the synoptic storm that originates on the continent. 13 situation where 14 So you have a the 15 locations around the power block may be different in terms of flood events. The magnitude, intensity of 16 duration is also not usually uniform across the power 17 And the associated effects that I discussed 18 19 earlier can also wary. And so what we find though, is we began 20 to see that we could distinguish between what you 21 22 might consider to be a consequential flood in terms 23 of defining the design basis, or challenging the flood 24 design basis, that versus а was that had not material affect on the 25 inconsequential,

1	design basis.
2	And more in our view the
3	inconsequential floods do not contribute to defining
4	the design basis. They're just not important if they
5	don't provide us with any design challenges.
6	So, turning to slide seven, and thinking
7	about what we might do in context of revising or
8	updating the Standard Review Plan, particularly for
9	Chapter 2.4, this leaves the Staff's judgement at
10	this time that the definition of a consequential flood
11	should be the focus of the review.
12	It always has been if you think about it.
13	We're always interested in what the design basis flood
14	elevation is for a particular flood causing
15	mechanism.
16	So, what we're proposing now is in terms
17	of revisions to Chapter 2.4. That we rely on a
18	hierarchical or graded screening approach to
19	identifying consequential flood causing mechanisms.
20	And for those flood causing mechanisms
21	that are found to be consequential to defining the
22	design basis, we believe that the Staff should focus
23	its review on imundation maps that identify the
24	location, magnitude, intensity, and duration of
25	flooding.

1	These are the things that were key in our
2	50.54(f) and ESP and COLA reviews. And that you also
3	the Staff would also be examining the description
4	of associated flooding effects in the context of any
5	consequential flood causing mechanism.
6	So, if we can turn to slide eight, please.
7	So, for the flood causing mechanisms found to be
8	inconsequential, this is one of the key revisions
9	we're proposing to how we address these issues in the
LO	context of the Standard Review Plan, that the safety
L1	evaluation report in whatever section in 2.4, would
L2	be limited to a single statement that the flood
L3	causing mechanism in question was found not to be
L4	applicable at the site.
L5	And there would be some technical
L6	justification. But we don't think we needed an
L7	encyclopedic evaluation anymore, if I can use that
L8	term.
L9	That the slightly longer technical
20	explanation for why a flood causing mechanism might
21	be inconsequentia, would be in Chapter 2.4.1. Which
22	is the hydrologic summary chapter that appears at the
23	front end of Chapter 2.4.
24	And then the Staff would look to that
25	summary description, supported by some technical

1	rationale, possibly even including an analysis of a
2	limited extent to say why this particular flood
3	causing mechanism wasn't applicable to the site.
4	For example, you may have a slight that's
5	a you may have site, excuse me, that's in a
6	Mediterranean type of climate, and you wouldn't
7	expect ice to be an issue.
8	So, we can, you know, accept those types
9	of arguments, I think, with some reasonable degree of
10	success to differentiate between types of floods that
11	are consequential versus inconsequential.
12	But, turning parochially now to what we
13	made available for public comment, we upon reflection
14	and we see that we still need to add a little more
15	fine tuning to our writing.
16	And what the Staff's intent is in terms
17	of what we're looking for or proposing for applicants
18	to consider in the future, we would say, I think I'm
19	on the third tick. Oh, yeah. There you go. Thank
20	you.
21	On slide eight. That this section, for
22	example, if you're in an inland site, let's say in
23	the Midwest somewhere, we would expect for purposes
24	of the tsunami discussion, we'd say this section we're
25	proposing is only applicable to a site where tsunami

1	flood causing mechanisms are found to be
2	consequential.
3	So, we're trying to, you know, improve
4	our thinking. And communicate that in terms of
5	writing as we seek public comments.
6	So turning to slide nine, please. So,
7	what we're what you saw in the Federal Register
8	Notice that appeared this past September, was a
9	glossary of terms that include the description of
10	LIT.
11	And so when we get into our review of
12	2.4.1, we're proposing ultimately to include this
13	glossary of terms as an appendix to Section 2.4.1 of
14	the SRP.
15	For 2.4.6, some of the description
16	some of the revisions we made including introducing
17	this new terminology, which was identified in a series
18	of footnotes, we streamlined the reference list.
19	We don't think we need to be in a position
20	to tell applicants nor the Staff what references are
21	pertinent to the evaluation of tsunami hazards. We
22	think this is something that the Staff should be very
23	aware of in context of doing their reviews.
24	And at the same time, the literature is
25	always changing.   So, we don't want to find ourselves

in a position of 1 having to update the reference list 2 periodically based on changes in the literature. the same can be said for channel 3 And 4 migrations and stream diversions. The changes we 5 propose were similar in terms of cleaning up the 6 writing, or refining the writing, and adding a new terminology via footnotes. 7 We also found for the purposes of the 8 50.54(f) reviews and the ESP and COLA reviews that 9 reliance on imagery from satellite platforms is very 10 11 useful to rely on. So, we've introduced that type 12 of review feature into the SRP. Okay, so turning to slide ten, please. 13 In terms of the longer vision for what we're thinking 14 15 about or proposing that we do in terms of revisions to Section 2. or Chapter 2.4 of the SRP, we're 16 proposing that we're going to do some extensive 17 rewrite of Section 2.4.1, the hydrologic description 18 differentiate between 19 to consequential and inconsequential flood causing mechanisms. 20 We're proposing that the Staff place its 21 22 emphasis review, emphasis that is on the evaluation of consequential | flood causing mechanisms, because 23 these are the most -- flood causing mechanisms most 24 important to defiming design basis. 25

1	We're proposing too simply the discussion
2	in some respects, and to eliminate references to the
3	discussion of water use by outside of the reactor
4	area.
5	These are issues that are typically
6	handled in the environmental assessment, or EIS
7	phase. We don't think we have to re-review that
8	information in the license application.
9	We're also going to introduce a glossary.
10	Which is the list of new terms that we propose that
11	appear in the FRN.
12	For floods, for 2.4.2, we're proposing
13	that we repropose that SRP to focus on local intense
14	precipitation. As I mentioned earlier, just about
15	every site that we looked at for the purposes of the
16	50.54(f) reviews had issues relative to local intense
17	precipitation.
18	So, we believe it's important now that we
19	update the SRP to address that particular flood
20	causing mechanism. In introducing the LIT concept,
21	if I can use that term, we're going to also address
22	how we evaluate the probable maximum precipitation
23	estimate that's important in making that in
24	performing that review.
25	And then we're also going to propose some

	[]
1	methodologies for how you might evaluate LIT.
2	Lastly, we're also proposing again, and this is in
3	terms of the broader vision.
4	We're proposing that we combine SRP
5	Chapters 2, 4, 12 related to groundwater behavior and
6	2, 4, 13 in terms of the accidental release of
7	radionuclide affluence into one SRP chapter.
8	We think it might improve the efficiency
9	of the Staff review. And reduce some redundancy in
10	the SRP if we combine those.
11	So, as Andy mentioned before, as we make
12	new SR as we work through the SRP review process
13	and get new SRP sections available, those will be
14	noticed in the Federal Register.
15	The Staff is always open to meeting with
16	the public on any issue, you know, relative to these
17	updates. We particularly believe that we're going
18	to have public meetings later on down the road
19	relative to the Section 2.4.1 on the hydrologic
20	description, LIT, and groundwater.
21	So, I thank you for your time.
22	MR. CAMPBELL: Thank you Dr. Lee. Thank
23	you Mike. So, next I'm going to introduce Jenise-
24	Marie Thompson, who is a geologist in the Division.
25	And Janise is going to talk about service

1	deformation, SRP section 2.5.3. Jenise?
2	MS. THOMPSON: Good morning. Hi, I'm
3	Jenise Thompson. And I'm a geologist in the Office
4	of New Reactors. And I was the lead for the updates
5	to SRP Section 2.5.3, surface deformation.
6	For this update to the SRP we looked at
7	three key insights and lessons learned. The first
8	was our most recent SRP update which was done in 2014.
9	And the focus in 2014 we added
LO	information related to the using the site safety
L1	audits and REI development. We added information
L2	related to the geologic mapping, license or permit
L3	condition.
L4	And as always with these SRP updates, we
L5	look at lessons learned from recent reviews. Another
L6	thing that we looked at for this particular update
L7	were insights from the 05.504(f) reviews. Can you
L8	go back, please?
L9	So, we looked at the risk informed
20	approach that was used successfully for flooding. It
21	allowed licensees to focus on the hazards that are
22	most likely to impact the site and adversely affect
23	the SSEs important to safety.
24	And kind of thought of how we could apply
25	that to our review in surface deformation. And then

1	we also looked towards our ESP and COL review
2	experience, where we noted that there's a variable
3	potential for surface deformation based on numerous
4	site specific factors.
5	So, considering that each site is unique
6	based on their unique geology and their geologic
7	setting, we think that the risk informed approach
8	that was used by flooding in the 50.54(f) reviews
9	maybe applicable to the review of the potential for
LO	surface deformation at a site.
L1	Next slide, please. So, looking also to
L2	our regulatory statutes, our siting criteria are in
L3	10 CFR, Part 100.23. And we were tasked with
L4	evaluating the potential for tectonic and non-
L5	tectonic surface deformation.
L6	And something else that informs our
L7	reviews is the geology of North America. It's
L8	relatively diverse geologically.
L9	The tectonic and structural history is
20	not uniform. It's varied depending on where you are.
21	And therefore the potential for surface deformation
22	is going to vary spatially as well.
23	So, factors such as subsurface lithology,
24	the local and regional geologic structures,
25	anthropogenic activities, are all factors to consider

1	when assessing the potential for surface deformation
2	at a site.
3	So, next slide, please. So, using all
4	of this information, we're on slide three of SRP
5	Section 2.5.3, surface deformation.
6	So, using all of this information, our
7	update to SRP Section 2.5.3 is that the investigations
8	for a potential for surface or non-tectonic surface
9	deformation still need to be conducted for each
10	individual site.
11	But these investigations should be
12	commensurate with the geologic assessment of evidence
13	for potential for surface deformation.
14	So, looking at the level of detail or
15	documentation or burden, it should be consistent with
16	that geologic assessment of evidence as to whether
17	there is a potential for surface deformation, either
18	tectonic or non.
19	And whether that surface deformation is
20	likely to impact the site and affect structures,
21	systems, or components that are important to safety.
22	So what this means, to give you an
23	example, in a hypothetical site that's underlain by
24	granite, perhaps there is a quaternary or recent 2.6
25	million years fault near the site. Let's say five

1	miles.
2	You dould reasonably expect to say that
3	the level of detail that you would need to provide
4	for surface deformation due to karst, would be much
5	less then the level of detail you would need to
6	provide for tectonic surface deformation associated
7	with that recent fault.
8	So your surface deformation, your level
9	of detail is going to vary depending on what the
10	mechanism is.
11	So, we also our final, you know, I guess
12	major change or update to this was looking at the
13	potential for non-tectonic surface deformation due to
14	anthropogenic or human activities.
15	So, mining, underground fluid injection.
16	As we continue to alter the subsurface, we learn more
17	about how those activities may affect not only the
18	subsurface but the surface, and deformation of that
19	surface.
20	So that's something that we've learned
21	that we should be including within the scope of
22	surface deformation in SRP Section 2.5.3.
23	Next slide, please. So to summarize, we
24	saw how effective the use of a risk informed approach
25	was for flooding. And we identified a way that we

1	could apply it to assessing the potential for surface
2	deformation that could adversely SSEs important to
3	safety.
4	And we added non-tectonic surface
5	deformation due to anthropogenic activities or
6	effects at the site.
7	So, looking ahead, this is SRP Section
8	2.5.3 is one of five Sections in 2.5. So, looking
9	ahead we hope to use insights from this update of
10	2.5.3 to inform future updates of 2.5.1, which is
11	geologic characterization information, 2.5.2, which
12	is vibratory ground motion, 2.5.4, the stability of
13	subsurface materials and foundations, and 2.5.5, the
14	stability of slopes.
15	And all of that is relatively far off in
16	the distance for us. So, we're looking at 2020 before
17	we undertake any future updates in 2.5.
18	MR. CAMPBELL: So, with that thank you
19	Jenise. Next I'd like to introduce Mike Mazaika.
20	He's a meteorologist in the Division.
21	And Mike is going to talk about onsite
22	meteorological monitoring program. Which is SRP
23	Section 2.3.3.
24	This is a section really focused on
25	technology and monitoring. And so with that what we

1	wanted to do was include this in the update.
2	It is more about incorporating lessons
3	learned from as the technology increases. And also
4	some of our experience with monitoring programs
5	increases.
6	So with that Mike, could you go ahead?
7	Thank you.
8	MR. MAZAIKA: Thank you Andy. Good
9	morning folks. For you horse racing fans, we're at
10	the top of the back stretch now.
11	For you ice hockey fans, I'm the caboose
12	among the SRP sections that's that we've discussed
13	today. Caboose because I'm an old hockey goalie.
14	And it's a hockey thing.
15	For the rest of you, we're almost done.
16	There are only four slides in my presentation.
17	The first one is a brief look back. The
18	second one discusses some lessons that we've learned
19	from our reviews.
20	The third is a look forward of sorts.
21	Anticipating the kinds of issues that we might have
22	to review in the future for siting small modular
23	reactors.
24	And the fourth and final slide in this
25	set is also a look ahead. But at other sections

1	under SRP Section 2.3 and that we're slated to update.
2	If I could just have the next slide, please.
3	Standard Review Plan Section 2.3.3. deals
4	with our review of the onsite meteorological
5	measurement's program. That's set up and run by an
6	applicant before a new facility or a new unit gets
7	built. Or by a licensee once the facility is
8	operating.
9	In and of itself, meteorological or MET
10	monitoring is not a risk informed activity. And was
11	not covered by the 50.54(f) letters that were
12	discussed earlier for hydrology and geology.
13	However, MET monitoring programs may
14	provide supporting data for risk informed activities.
15	For example, dispersion modeling analysis and severe
16	accident analysis.
17	Listed here are some examples on this
18	slide of some of the things that were necessary to be
19	updated in this proposed revision. Hopefully the
20	folks that are online have access to the slides now.
21	I didn't plan to read them for you. But,
22	to summarize, the first item is aimed at making the
23	Staff review guidance more consistent with the
24	guidance that we give to applicants to set up and run
25	their MET monitoring program. And that's discussed

	]
1	in Reg Guide 1.23, Onsite meteorological Monitoring
2	Programs.
3	The third item recognizes that other
4	agencies are involved with meteorological monitoring.
5	For example, the EPA, industry organizations like the
6	American Nuclear Society.
7	That for efficiency we don't have to
8	reinvent the wheel, but we can reference those
9	documents. But that those documents get updated over
10	time as well.
11	The last two items on slide two, they're
12	intended to identify some of the linkages that we
13	have with other regulatory guides and where
14	monitoring procedures are called for. They include
15	Reg Guide 1.21, 1.33 for example, that deal with
16	quality assurance requirements and the monitoring
17	that occurs once a facility is operating.
18	Can I have the next slide, please? This
19	would be slide three. That's not me falling over.
20	That's my cane.
21	This next slide shows some lessons
22	learned that the Staff has from our reviews of the
23	combined license in early site permit applications
24	over the last ten years or so. Standard Review Plan
25	under Section 2.3 was last updated about ten years

1 ago. 2 important to understand that also these proposed revisions also have their roots in two 3 4 other places. I came from the consulting industry, 5 and as a user, a reader of Regulatory Guide 1.23 and other related guidance, and being aware of what the 6 NRC Staff looks for in performing its reviews, this 7 allows us to include perspectives from the regulated 8 9 community. But that's not the end of it. And that's 10 why you are here today online or in person. 11 make these proposed updates available for public 12 Your comments add value to these documents 13 as well. 14 15 I won't read what's on the slide. Again, But they're representative of some of the things that 16 we've seen along the way. And that we considered 17 important enough to address in this update. 18 first item, there's nothing like 19 The boots on the ground early in the review process to 20 understand how a monitoring program is sited, how 21 22 it's set up, how it's operated and maintained, how it's documented. This is a preventative exercise if 23 a training opportunity as well for 24 you will. It's

younger staff and for older staff alike.

25

1	The second and third items represent some
2	additional clarifications to those topics that we
3	considered important enough to be included. The
4	second related to new facilities proposed to be
5	located at existing plant sites.
6	The third related to how measured data
7	will be used. We don't measure just data just for
8	the sake of measuring data. It has an application.
9	And we have to be aware of how those data, how those
LO	numbers get used.
L1	The fourth item was added to reflect
L2	changes. In this case, wind measurements. But it
L3	also applies to other MET data.
L4	And being cognizant of how those data
L5	should be processed based on how they're going to be
L6	used. And that's a benefit that we had from
L7	considering other agency and other industry guidance.
L8	Next slide, please.
L9	This next slide is intended to highlight
20	some of our thinking ahead to the siting of the next
21	generation of reactor technology. For example, small
22	modular reactors. Which might, because of their
23	smaller output, because they're smaller in size, they
24	might be deployed in non-traditional or remote
25	locations that are subject to harsh environment

1	conditions.
2	We've done some pretty good, I think
3	initial noodling about the potential issues that
4	applicants might encounter. And that we're going to
5	have to deal with as reviewers.
6	There are also some ideas that applicants
7	might need to take into account when they're planning
8	and operating their MET monitoring program at such
9	locations. And because the Standard Review Plan is
10	primarily guidance to the NRC staff that we need to
11	have a leg up on before the fact.
12	For those of you that are familiar with
13	or involved with meteorological monitoring programs,
14	hopefully the potential issues listed on this slide
15	will strike a cord and get you all thinking as well.
16	These will also be reflected in planned updates for
17	other SRP sections.
18	And the next and final slide. That leads
19	to another look ahead. Standard Review Plan sections
20	that we're planning to update in calendar year 2019.
21	Of the five sections under Section 2.3,
22	we aim to update SRP Section 2.3.1. There are about
23	20 climate related items that are considered under
24	this section.
25	Unlike SRP Section 2.3, the bulleted

1	items listed here have a more direct linkage to risk
2	informed considerations. But they're
3	characteristics of a particular location. And their
4	implication to the design and operation of a facility
5	are taken into account by the engineering teams.
6	Under Section 2.3, our review is more
7	limited to evaluating whether or not these conditions
8	can be reasonably expected to occur at a proposed
9	location.
10	The update to this section will consider
11	whether all of the climate related items and the
12	current revision are necessary to be included going
13	forward.
14	And finally, the planned revision to SRP
15	Section 2.2. Which deals with local meteorologicals
16	more closely related to SRP Section 2.3.3, in that it
17	presents comparisons of the data that you acquire
18	from the onsite MET monitoring program.
19	Which will be obtained over a relatively
20	shorter period on the order of two years. And we
21	want to evaluate the representativeness of that data
22	against long term conditions by comparison to nearby
23	offsite measurements.
24	So, with that I'll be quiet now. I don't
25	see many heads bobbing. I appreciate your attention.

1	And I'll turn the podium back to Andy.
2	MR. CAMPBELL: Thank you Mike. So, with
3	that what I'm going to do is cover, in my closing
4	remarks, a recap and the path forward.
5	So, for future SRP revisions for SRP
6	Chapter 2.4, I'm on slide one of the closing remarks.
7	Hydrology is 2.4 So, updates are to be announced
8	in the Federal Register, and we'll have additional
9	public meetings to follow.
10	In particular, 2.4.1 will be announced.
11	And that really provides the overall scope and vision
12	that we have for the whole hydrology section. And
13	also, you know, the linkage to our risk informed
14	performance-based approach where revising the
15	Standard Review Plan.
16	The early calendar year 2019 updated
17	drafts will be announced in the Federal Register for,
18	as I just said, 2.4.1, the hydrologic description.
19	And 2.4.2, local intense precipitation.
20	Which Mike Lee, Dr. Mike Lee pointed out,
21	we found all of the sites were affected from the
22	Fukushima work. And that was mainly, let's keep it
23	clear, that was mainly because most sites did not
24	have a design basis for local intense precipitation.
25	And because we were asked, and the sites

1	were the industry was asked to reevaluate their
2	local hazards with respect to their design basis,
3	essentially all of the sites didn't have a design
4	basis, or many of the sites, to all of them, didn't
5	have a design basis for flooding from a rainfall
6	event.
7	So, there are a whole series of
8	interactions that took place in terms of what do we
9	need to do? What does the industry need to do for
LO	local intense precipitation?
L1	And there is a White Paper that NRC
L2	reviewed from NEI that looked at a variety of
13	different things that will be considered in for a
L4	site, evaluating the impacts of local intense
L5	precipitation on the site.
L6	That doesn't necessarily mean every site
L7	was challenged in terms of consequential flooding for
L8	a particular event. It's just there was no design
L9	basis set up for the many, many sites.
20	So, we also have will be presenting a
21	draft NUREG on site specific probable maximum
22	precipitation. For those of us that have been
23	involved in local intense precipitation reviews, the
24	hydrometeorologic reports produced by NOAA, are old.
25	They pretty much stopped producing them

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1	in the '80s in terms of updates. And so stepping
2	into that void, the private sector has developed
3	methodologies to evaluate locate intense
4	precipitation.
5	And we've reviewed a lot of these in the
6	over the course of the Fukushima work. As well
7	as some of the COLs.
8	And so with that we've learned something
9	about local intense precipitations in terms of and
LO	flooding for whole watersheds, in terms of the site
L1	specific probable maximum precipitation approaches
L2	that pretty much follow the World Meteorological
L3	Association guidance. But there are some
L4	differences.
L5	And so lessons learned from that, from a
L6	large number of views, will be considered and laid
L7	out in the NUREG. And then expectation Staff would
L8	have for utilizing that information.
L9	Also, SRP Section 2.4.8 cooling water
20	canals and reservoirs will be updated. And SRP
21	2.4.11, low water effects will be evaluated. And
22	these will be updated in the SRP.
23	So, future SRP revisions for SRP Chapters
24	2.3 and 2.5. So, 2.3 was climatology. So, 2.3.1 is
25	the regional climatology

1	This is late calendar I'm on slide two
2	of the closing remarks. 2.3.1 regional climatology
3	and 2.3.2 local meteorology will be sometime late in
4	calendar year 2019.
5	Also late in calendar year 2020, we are
6	going to have updated drafts announced in the
7	Federal Register for several geology sections. SRP
8	Section 2.5.1 which is geologic characterization
9	information, 2.5.2 vibratory ground motion, 2.5.4
10	stability of subsurface materials and foundations,
11	and SRP 2.5.5 stability of slope.
12	So this is these are our plans in terms
13	of these updates. And as I said earlier, we will be
14	having Federal Register notices for all of those.
15	So, next steps. I'm on slide three of
16	the closing remarks. So, this visit we want your
17	comments. We're in listening mode today.
18	We want to hear from you about what you
19	think about the sections that have been presented in
20	the Federal Register. And also your general thoughts
21	about the whole approach that we're having, that we're
22	talking about.
23	So the closing date for submission of
24	public comments for 2.3.3, 2.4.6, 2.4.9, and 2.5.3,
25	i.e., the sections we have talked about today, would

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1	be Monday, October 29, 2018. So that's the end of
2	the month.
3	Comments can either be submitted too
4	online. And that's a http://www.regulations.gov.
5	The Docket ID number is NRC-2018-0178.
6	Or you can mail it in, in the regular
7	mail care of Ms. May Ma, Office of Administration,
8	Mail Stop TWFN7. That's Two White Flint North 7.
9	A60M, that's a mail stop. U.S. Nuclear Regulatory
10	Commission, Washington, D.C. 20555-0001.
11	We intend to respond to all public
12	comments. And availability of public comments
13	disposition to accompany Federal Register notices
14	announcing the availability of the final revised SRE
15	sections.
16	So, as we announce the final, we will
17	have a full section of dispositioning every single
18	comment or set of comments that have been made or
19	that section.
20	For SRP sections discussed today, the
21	final SRP revisions are expected some time in calendar
22	year 2019.
23	And so with that I'm going to turn it
24	over to Dan Mussatti, our Facilitator. And we'll
25	open it up to public comments.

1	Take it away Dan.
2	MR. MUSSATTI: All right. Thank you.
3	According to our agenda, it is now ten o'clock. And
4	we were planning on having a short ten minute break
5	in here before we start with the comments.
6	Which will give me an opportunity to try
7	an experiment here, since we haven't got the webinar
8	up and running because of some bandwidth issue or
9	whatever. We do have the phone lines open. And
10	we're hoping that the people that are on the phones
11	would have an opportunity to be able to ask their
12	questions live.
13	So, while everyone's taking a break here,
14	we're going to perform a small experiment to see if
15	we can actually communicate with the folks on the
16	phone. And have it heard in the room here and by our
17	court reporter.
18	So, if you could be back by ten after, I
19	would certainly appreciate it. And we stand
20	temporarily adjourned here.
21	Could I get the phone lines opened up so
22	we can see if we can communicate? Okay. Is there
23	anybody on the line?
24	(No response)
25	MR. MUSSATTI: If you're on the line,

1	we're not able to hear you yet. We're still working
2	on it.
3	Okay. Mark, could you put slide three
4	up again so that I can read it off to these folks
5	that are on the phone in case they're still there?
6	Oh, you're calling in to see. Okay.
7	MR. NOTICH: We're going to experiment.
8	MR. MUSSATTI: Right. We have an
9	experimenter right here in the room. Yes, please.
10	In case you're on the phone and we're not
11	able to hear your comments live, please remember that
12	http://www.regulations.gov will gladly accept your
13	comments to us.
14	Just make sure you include the Docket ID,
15	NRC-2018-0178. That's probably your most efficient
16	way to be able to get that information to us.
17	That's also the on the last slide that
18	was presented by Andy just a few minutes ago.
19	And we're trying a live version. I've
20	got a gentleman in the room here that's trying to
21	call me live. You can hear me.
22	Okay. He can hear me, but I can't hear
23	him. Is there some setting in the booth that we can
24	play with?
25	Yeah, you're not coming over the

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1	speakers. Okay. It doesn't look like this
2	experiment has been very successful.
3	We will proceed with comments from
4	whoever is in the room when they get back. And when
5	there aren't any more comments, I guess we're done.
6	So, I ll see you at about ten after.
7	(Whereupon, the above-entitled matter
8	went off the record at 10:05 a.m. and
9	resumed at 10:16 a.m.)
10	MR. MUSSATTI: We are going to be
11	abandoning the telephone line that we have. And
12	we're going to open up a regular conference line
13	upstairs here that we should be able to have people
14	call in then.
15	So, it's going to take another minute or
16	two to be able to get that set up upstairs. And
17	until then, I don't think we're going to fill up a
18	full two hours with comments anyway. So, bear with
19	me, please.
20	MR. CAMPBELL: And are we going to
21	announce the number they need to call?
22	MR. MUSSATTI: We'll get the new number
23	here in a minute, as soon as we get the conference
24	information from the guy that just ran upstairs.
25	MR. CAMPBELL: Okay.

1	MR. MUSSATTI: All right. We're ready
2	to make a change. Grab a pencil and a piece of paper
3	so you can write down some numbers.
4	And we're going to ask you to hang up in
5	a minute. And then to dial into this new number.
6	The toll-free number is (866) 617-1024.
7	Once again, that number is (866) 617-
8	1024. And we would like to have you use this pass
9	code to get into the line, 2406646. 2406646.
10	So if you've got that information now,
11	please hang up. And give it a good strong ten count.
12	And then try calling back in again to these new
13	numbers. Thank you.
14	(Phone dialing)
15	MR. MUSSATTI: This is the NRC.
16	(Phone speaking)
17	MR. MUSSATTI: Can you hear me now?
18	(Phone speaking)
19	MR. MUSSATTI: All right. We're going
20	to have to we re going to give it a little more
21	time as people are signing in here.
22	But, we're going to have to have just a
23	little bit of patience amongst you folks on the phone
24	as you're trying to make your comments. Eventually
25	you will be heard.

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1	But, when you're trying to talk over each						
2	other it's going to be a little confusing. So, bear						
3	with us, because we have no way to be able to really						
4	manage who's talking next, other then you guys helping						
5	us out with that as much as you possibly can.						
6	So, we're back from our break. Hopefully						
7	everyone had a chance to follow through this morning						
8	on the slides that we had.						
9	And we're going to take questions now.						
10	I'm going to start with since we haven't heard						
11	from you all day long, I'm going to start with one						
12	question from on the phone first.						
13	And please state your name and						
14	affiliation when you start. I have no comments on						
15	the phone?						
16	(No response)						
17	MR. MUSSATTI: Cool. We'll go to the						
18	room then. Would somebody in the room like to speak?						
19	(No response)						
20	MR. MUSSATTI: This could be a very, very						
21	fast comment section.						
22	(No response)						
23	MR. MUSSATTI: Back to the phones.						
24	Anybody on the phone that would like to speak?						
25	(No response)						

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1	MR. MUSSATTI: Okay. Back to the room.
2	(No response)
3	MR. MUSSATTI: All right. Einstein said
4	that insanity is defined as doing the same thing over
5	again and expecting a different result. I'm only
6	going to do this one more time.
7	Back to the phones. Is there somebody
8	on the phone would like to make a comment?
9	(No response)
LO	MR. MUSSATTI: And now back to the room.
L1	(No response)
L2	MR. MUSSATTI: Okay. Andy?
L3	MR. CAMPBELL: Okay. So this is Andy
L4	Campbell. Maybe I can stimulate some questions.
L5	One of the things we wanted to get
L6	information on was not just your input on these
L7	particular sections, but the overall approach to
L8	revising the SRP.
L9	Are there any comments on that overall
20	approach? Both as articulated by our Office
21	Director, Fred and by myself, as well as the Staff
22	approaches that you saw in each of these sections
23	that you can see in the slides.
24	Anybody on the phone want to make
25	comments about that?

1	(No response)
2	MR. CAMPBELL: So, let me repeat the next
3	steps in terms of public comments. Even though there
4	may not be some comments at this point, we do direct
5	people to the slide deck on the public meeting
6	announcement.
7	The closing date for a submission of
8	public comments on SRP Sections that are in that slide
9	deck that we've talked about today, the hydrology,
10	the meteorology monitoring, and the ground
11	deformation section, and the tsunami section and the
12	channel migration section at 2.4.
13	The closing date is the end of the month.
14	Not quite the end of the month, but October 29.
15	That's next Monday. And with that said, you know,
16	if someone feels the need for an extension, we will
17	consider that.
18	And again, www.regulations.gov. With
19	Docket ID Number NRC-2018-0178.
20	(Background noise)
21	MR. CAMPBELL: Was that a comment?
22	(No response)
23	MR. CAMPBELL: Okay. And then you can
24	also respond via standard mail to Ms. May Ma, Office
25	of Administration, Mail Stop

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1	(Telephone interference)
2	MR. CAMPBELL: BWFN-7-A60M, U.S. Nuclear
3	Regulatory Commission, Washington, D.C. 20555-0001.
4	And so with that, I'm going to turn it
5	back to Dan.
6	MR. MUSSATTI: Okay. Normally by now
7	I'd be reminding you that we need you to fill out
8	your feedback form for us. But, I'm pretty sure I
9	know what the feedback's going to be on this meeting.
10	I'd like to again apologize and voice our
11	frustration here that the electronics didn't work as
12	well as we wanted it to today. I'm hoping the meeting
13	was informative to everybody.
14	This isn't the only meeting that's going
15	to be on this. There's going to be other
16	opportunities for people to comment on the SRPs
17	further on down the line as well.
18	And what I'd like to do is adjourn the
19	meeting. I don't think there's anything left to do,
20	is there?
21	(No response)
22	MR. MUSSATTI: All right. Well, we'll
23	see you the next time. And thank you up in the booth
24	for all your help.
25	(Whereupon, the above-entitled matter

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