

Three Empire State Plaza, Albany, NY 12223-1350 www.dps.ny.gov

Public Service Commission

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January 4, 2023

VIA EMAIL

Hon. Michelle L. Phillips Secretary to the Commission 3 Empire State Plaza Albany, NY 12223-1350

Re: Matter No. 21-01188 – In the Matter of the Indian Point Closure Task Force and Indian Point Decommissioning Oversight Board.

Dear Secretary Phillips:

Please accept for filing in the above-captioned matter, the December 7, 2022 Indian Point Closure Task Force and Indian Point Decommissioning Oversight Board Meeting Transcript. Should you have any questions regarding this filing, please contact me. Thank you.

Respectfully submitted,

Tom Kaczmarek Executive Director

Indian Point Closure Task Force

Indian Point Decommissioning Oversight Board

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NEW YORK STATE
DEPARTMENT OF PUBLIC SERVICE

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INDIAN POINT DECOMMISSIONING OVERSIGHT BOARD
JOINT MEETING

OF

INDIAN POINT CLOSURE TASK FORCE

AND

INDIAN POINT DECOMMISSIONING OVERSIGHT BOARD

WEDNESDAY, DECEMBER 7, 2022

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HELD AT: 1 Heady Street

Cortlandt, NY 10567

-and-

Streamed by Zoom

TIME: 6:00 p.m. to 9:15 p.m.

AGENDA:

Welcome Tom Congdon, The Chair

Roll Call Tom Congdon

Nuclear Regulatory Anthony Dimitriadis

Commission Briana DeBoer

Department of Energy Erica Bickford

Steve Maheras

DOB Discussion All

Public Statements

Task Force/Oversight

Board Updates Tom Congdon

Next Steps and Adjourn Tom Congdon

Presentation to

Assemblywoman Galef Tom Congdon

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2	BOARD MEMBERS IN PERSON:	
3	Rich Becker, Supervisor, Town of Cortlandt	
4	Theresa Knickerbocker, Mayor, Village of Buchanan	
5	Joseph Hochreiter, Superintendent, Hendrick Hudson School District	
6 7	Susan Spear, Deputy Commissioner of Emergency Services, Westchester County	
8	Assemblywoman Sandy Galef	
9	Tom Congdon, Department of Public Service	
10	John Sipos, Department of Public Service	
11	Cliff Chapin, Department of Public Service	
12	Jennifer Wacha, Division of Homeland Security and Emergency Services	
13	Alyse Peterson, New York State Energy Research	
14	and Development Authority	
15	Richard Webster, Riverkeeper	
16	Al Liberatore (obo Lou Picani) Teamsters Local 456	
17	Bill Smith, Vice President, Utility Workers Union of America Local 1-2	
18	Thomas Carey, President, Westchester Putnam	
19	Central Labor Council	
20	BOARD MEMBERS VIRTUALLY:	
21	David Lochbaum, Nuclear Engineer	
22	Tom Kaczmarek, Department of Public Service	
23	Dan Bendell obo Kelly Turturro, Department of Environmental Conservation	
24		
25	Jeff Guynup, Department of Labor (Jane Thompson)	

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2	BOARD MEMBERS VIRTUALLY: (Continued)	
3	Mark Pattison, Department of Public Service	
4	Mark Massaroni, Department of Taxation and Finance	
5	Tom Scaglione, Empire State Development	
6 7	Anthony Hill obo Joe Leary, New York Power Authority	
8	GUEST PRESENTERS IN PERSON:	
9	Anthony Dimitriadis, Nuclear Regulatory Commission	
10	Briana DeBoer, Nuclear Regulatory Commission	
11	briana beboer, Nacrear Regulatory Commission	
	GUEST PRESENTERS VIRTUALLY:	
12	Erica Bickford, U.S. Department of Energy	
13		
14	Steve Maheras, Pacific Northwest National Laboratories	
15		
16	PRESENT IN PERSON:	
	Rich Burroni, Holtec Decommissioning International	
17	Darrell Dunn, Nuclear Regulatory Commission	
18	Noil Chochan Nuclear Deculatory Commission	
19	Neil Sheehan, Nuclear Regulatory Commission	
20	Karl Sturzebecher, Nuclear Regulatory Commission	
	Tito Davila obo Senator Harckham's Office	
21	Members of the Public	
22		
23	PRESENT VIRTUALLY:	
24	Mike Norris, Nuclear Regulatory Commission	
25	Jessie Quichocho, Nuclear Regulatory Commission	

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    PRESENT VIRTUALLY: (Continued)
 3
    Doug Garner, Nuclear Regulatory Commission
     Shawn Anderson, Nuclear Regulatory Commission
4
5
    Kris Banovac, Nuclear Regulatory Commission
    Chris (William) Allen, Nuclear Regulatory
6
                           Commission
7
    Marlone Davis, Nuclear Regulatory Commission
8
     Earl Love, Nuclear Regulatory Commission
9
     Representative from Senator Schumer's Office
10
     Representative from Senator Gillibrand's Office
11
    Members of the Public
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13
    PUBLIC STATEMENTS IN PERSON:
14
    Marilyn Elie
15
    Tina Volz-Bongar
16
    Christopher Vargo
17
    John Sullivan
18
    Paul Blanch
19
    Dan Galinko
20
     PUBLIC STATEMENTS VIRTUALLY:
21
    Lee Gough
22
    Suzannah Glidden
23
     Judy Allen
24
    Diane Turco
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    PUBLIC STATEMENTS VIRTUALLY: (Continued)
 3 Manna Jo Greene
4 Ellen Weininger
 5
    Susan Leifer
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1	Joint Meeting IPCTF and IPDOB	
2	THE CHAIR: If everyone can	
3	please take their seat.	
4	Good evening, everyone. I'm	
5	Tom Congdon. I'm the Chair of the	
6	Decommissioning Oversight Board, and	
7	I'm very happy to be here tonight.	
8	And I want to thank our host,	
9	Supervisor Becker; and I want to	
10	turn it over to our host to say a	
11	few introduction remarks.	
12	SUPERVISOR BECKER: Thank you	
13	so much, Tom.	
14	Thank you, everyone, for	
15	joining us here in the Town of	
16	Cortlandt. Dinner was provided by	
17	the Town of Cortlandt, as well as	
18	through Theresa Knickerbocker, the	
19	Mayor of the Village of Buchanan.	
20	So thank you everyone for	
21	coming, and I hope people are	
22	zooming in from home.	
23	And today is Pearl Harbor	
24	Day, December 7th, so we will begin	
25	with the Pledge of Allegiance, So if	

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1	Joint Meeting IPCTF and IPDOB	
2	everyone can please rise.	
3	(Pledge of Allegiance)	
4	THE CHAIR: Thank you,	
5	Supervisor Becker and thank you very	
6	much for providing dinner and thank	
7	you to Mayor Knickerbocker as well.	
8	That was very nice of you.	
9	Tonight we are very pleased	
10	to be joined by our colleagues at	
11	the Nuclear Regulatory Commission	
12	and the Department of Energy, and	
13	we're going to get to that in a	
14	moment. Before we do, let's just go	
15	through some meeting logistics.	
16	Next slide, please.	
17	Thank you.	
18	So very important for all the	
19	DOB members to always speak into the	
20	mic, that way all of our remarks	
21	will be recorded on a video	
22	recording and all of our virtual	
23	participants can hear us.	
24	All of the virtual panelists,	
25	who are part of the DOB, are muted	

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1	Joint Meeting IPCTF and IPDOB	
2	upon entry, so keep that in mind	
3	when it's your turn to speak. Staff	
4	will unmute the public participants	
5	when it's your turn to speak during	
6	the public statement portion of the	
7	meeting.	
8	For the Zoom participants,	
9	please reserve the chat feature for	
10	recording technical issues. Thank	
11	you.	
12	Next slide.	
13	(Background noise)	
14	THE CHAIR: We're getting	
15	some feedback from the virtual mic.	
16	(Laughter)	
17	THE CHAIR: I thought we were	
18	all muted upon entering. Apparently	
19	not.	
20	(Laughter)	
21	THE CHAIR: It is important	
22	that if folks are not on mute to go	
23	ahead and mute if they are attending	
24	virtually. Thank you.	
25	I'd like to now do roll call.	

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1	Joint Meeting IPCTF and IPDOB	
2	Supervisor Becker?	
3	SUPERVISOR BECKER: Here.	
4	THE CHAIR: Mayor	
5	Knickerbocker I don't think will be	
6	joining us.	
7	Superintendent Hochreiter.	
8	SUPT. HOCHREITER: Here.	
9	THE CHAIR: Deputy	
10	Commissioner for Emergency Services,	
11	Susan Spear?	
12	COMMSR. SPEAR: Here.	
13	THE CHAIR: Assemblywoman	
14	Sandy Galef?	
15	ASSEMBLYWOMAN GALEF: Here.	
16	THE CHAIR: John Sipos, from	
17	the Department of Public Service.	
18	MR. SIPOS: Here.	
19	THE CHAIR: Tom Kaczmarek,	
20	from Department of Public Service,	
21	attending virtually?	
22	Tom?	
23	We'll come back to Tom.	
24	Cliff Chapin, from the	
25	Department of Public Service?	

	10
1	Joint Meeting IPCTF and IPDOB
2	MR. CHAPIN: Here.
3	THE CHAIR: Dan Bendell, from
4	DEC, virtually.
5	MR. BENDELL: Here.
6	THE CHAIR: Jeff Guynup, from
7	the Department of Labor.
8	MR. GUYNUP: Here.
9	THE CHAIR: Thank you, Jeff.
10	Mark Pattison, Department of
11	State?
12	MR. PATTISON: Here.
13	THE CHAIR: Mark Massaroni,
14	Department of Tax and Finance.
15	MR. MASSARONI: Here.
16	THE CHAIR: Jennifer Wacha,
17	Division of Homeland Security and
18	Emergency Services.
19	MS. WACHA: Here.
20	THE CHAIR: Tom Scaglione,
21	from Empire State Development?
22	MR. SCAGLIONE: Good evening,
23	here.
24	THE CHAIR: Thanks, Tom.
25	Anthony Hill, from New York

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1	Joint Meeting IPCTF and IPDOB	
2	Power Authority, or Joe Leary?	
3	MR. HILL: Here.	
4	THE CHAIR: Do you want to	
5	join us? Is there Maybe up	
6	front.	
7	Thank you.	
8	Alyse Peterson, from NYSERDA?	
9	MS. PETERSON: Here.	
10	THE CHAIR: And our technical	
11	experts, we have Dave Lochbaum, our	
12	independent nuclear expert,	
13	virtually.	
14	MR. LOCHBAUM: Here in	
15	Chattanooga.	
16	THE CHAIR: Hi, Dave.	
17	Richard Webster, from	
18	Riverkeeper.	
19	MR. WEBSTER: Yep, here.	
20	THE CHAIR: All right. And	
21	our labor representatives, Al	
22	Liberatore?	
23	MR. LIBERATORE: Here.	
24	THE CHAIR: Thanks, Al.	
25	Bill Smith?	

	1	2
1	Joint Meeting IPCTF and IPDOB	
2	MR. SMITH: Here.	
3	THE CHAIR: And Tom	
4	Carey.	
5	MR. CAREY: Here.	
6	THE CHAIR: Thank you, guys.	
7	Okay. Did I miss anyone on	
8	the DOB?	
9	Okay.	
10	MS. DAVILA: I'm representing	
11	Senator Harckham.	
12	THE CHAIR: I'm sorry, Tito.	
13	Thank you very much.	
14	MS. DAVILA: Tito Davila.	
15	THE CHAIR: Tito's here on	
16	behalf of Senator Harckham. Thank	
17	you.	
18	I'd also like to acknowledge	
19	Rich Burroni from Holtec. Rich?	
20	MR. BURRONI: Here.	
21	THE CHAIR: And now for our	
22	guest presenters.	
23	Anthony Dimitriadis from NRC?	
24	MR. DIMITRIADIS: Good	
25	evening.	

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1	Joint Meeting IPCTF and IPDOB	
2	THE CHAIR: Welcome.	
3	MR. DIMITRIADIS: Thank you.	
4	THE CHAIR: Briana DeBoer	
5	from NRC.	
6	MS. DeBOER: Here.	
7	THE CHAIR: Welcome.	
8	And they are joined by	
9	several of their colleagues in the	
10	audience who may also assist during	
11	the Q&A.	
12	Attending virtually are some	
13	of our colleagues from the	
14	Department of Energy. Erica	
15	Bickford?	
16	Erica?	
17	MS. BICKFORD: Hello.	
18	THE CHAIR: And Steve	
19	Maheras.	
20	Steve?	
21	MR. MAHERAS: Here.	
22	Welcome to both of you.	
23	Thank you very much.	
24	With that, next slide,	
25	please, so this is our agenda for	

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1	Joint Meeting IPCTF and IPDOB	
2	this evening. We have planned to	
3	start with presentations from the	
4	NRC and the DOE.	
5	We will then turn to Q&A	
6	among the DOB members for discussion	
7	with our federal representatives.	
8	We will also then have time	
9	for public statements from the	
10	public, and we have several who have	
11	pre-registered both virtually and in	
12	person.	
13	Following the public	
14	statement portion of the meeting, we	
15	will turn to some business of the	
16	Indian Point Task Force for some	
17	updates, and then we will adjourn.	
18	So with that oh, and	
19	before I get started, we're here	
20	with our federal partners. We also	
21	have with us representatives from	
22	our federal offices, and Senator	
23	Gillibrand's office is represented	
24	as well as Senator Schumer's,	
25	virtually. So thank you for being	

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1	Joint Meeting IPCTF and IPDOB	
2	in attendance as well.	
3	So without further ado, let's	
4	turn to our first presentation on	
5	spent fuel management from the	
6	Nuclear Regulatory Commission. I'll	
7	turn it over to Anthony Dimitriadis	
8	and Briana DeBoer. Thank you for	
9	being here.	
10	MR. DIMITRIADIS: Thank you	
11	very much for having us. Good	
12	evening, everyone. My name is	
13	Anthony Dimitriadis and I'm from NRC	
14	Region 1. I want to take a little	
15	bit of time to talk a little bit	
16	about what the NRC does and doesn't	
17	do just for a minute.	
18	So NRC, the Nuclear	
19	Regulatory Commission, is a federal	
20	agency, an independent agency with	
21	five commissioners. We have our	
22	headquarters office in Rockville,	
23	Maryland, and we have four regional	
24	offices in Philadelphia, Atlanta	
25	Chicago and Dallas, actually	

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1	Joint Meeting IPCTF and IPDOB	
2	Arlington. And so we are from	
3	Region 1 outside of the	
4	Philadelphia, actually it's in King	
5	of Prussia, Pennsylvania. And we	
6	also have some colleagues here from	
7	our headquarters office, and so	
8	and also some folks online so that	
9	we can answer some questions that	
10	may be outside our special area	
11	of specialty.	
12	So we have about fifteen	
13	slides to go over. We wanted to	
14	take about fifteen, twenty minutes	
15	to go over those. We didn't want to	
16	bore you with, you know, a	
17	PowerPoint so we just wanted to go	
18	through a little bit of what spent	
19	fuel is, dry cask storage, and that	
20	way we don't bore you to tears, and	
21	then we wanted to really get to your	
22	questions that you may have. Okay?	
23	So my name is Anthony	
24	Dimitriadis. With me I have Briana	
25	DeBoer, who's a senior health	

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1	Joint Meeting IPCTF and IPDOB	
2	physicist. She's one of our senior	
3	inspectors that relates to ISFSI,	
4	independent spent fuel storage	
5	installation and are the slides	
6	on or are we gonna	
7	SPEAKER: Yeah.	
8	MR. DIMITRIADIS: Ut, thank	
9	you. Okay.	
10	So this slide actually shows	
11	an image of a portion of the ISFSI	
12	pad at the Indian Point, so we	
13	didn't want to give you a canned	
14	presentation with just, you know,	
15	generic things. We wanted to focus	
16	on the interests that you have about	
17	Indian Point.	
18	Next slide please.	
19	Okay. So we just wanted to	
20	go through some basics of an ISFSI.	
21	For some of you who know what an	
22	ISFSI is, this will be a review, we	
23	didn't want to insult your	
24	intelligence, but for others it	
25	would be an introduction if you have	

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1	Joint Meeting IPCTF and IPDOB	
2	limited knowledge of them, and I'm	
3	speaking for those of you who may	
4	not have had really an introduction.	
5	So a dry cask storage system	
6	is basically a cylindrically shaped	
7	cask that is designed to store spent	
8	nuclear fuel in a dry configuration.	
9	I can't stress that enough, that	
10	it's a dry configuration. Basically	
11	a dry cask storage system is a	
12	cylinder that operators lower into a	
13	spent fuel pool and fill with spent	
14	fuel. When loading of the fuel into	
15	the cask is completed, they raise	
16	the cask, drain it, they dry it	
17	before sealing it and placing it	
18	outdoors on a concrete pad.	
19	There are many varieties of	
20	spent fuels storage casks, but of	
21	those, they all need to do the	
22	following: They need to maintain	
23	confinement of the spent fuel. They	
24	need to prevent nuclear fission, the	
25	chain reaction that allows the	

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1	Joint Meeting IPCTF and IPDOB	
2	reactor to produce heat. They	
3	provide they must provide	
4	radiation shielding, maintain the	
5	ability to retrieve the spent fuel,	
6	if necessary, and resist	
7	earthquakes, tornadoes, floods,	
8	temperature extremes and other	
9	scenarios.	
10	Casks come in different	
11	sizes. They are tall enough to hold	
12	spent fuel, which can be up to about	
13	14 feet long, and they can weigh up	
14	to about 150 to 200 tons; basically	
15	as much as about 50 midsize cars.	
16	I'm trying to give you a sense of	
17	scale here for those of you who may	
18	not already know these.	
19	Plants may need a special	
20	train that can handle heavy loads to	
21	be able to lift a loaded cask full	
22	of water and fuel out of the pool	
23	for drying. There is a reason I	
24	bring that up, because Indian Point	
25	is obviously undergoing some crane	

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1	Joint Meeting IPCTF and IPDOB	
2	installations in the next couple of	
3	months. After casks are dried,	
4	robotic equipment is used to seal	
5	them closed to keep doses to workers	
6	as low as possible. So they're	
7	welded closed.	
8	Two basic designs are in wide	
9	use today. Welded canister-based	
10	systems feature an inner steel	
11	canister that contains the fuel	
12	surrounded by three feet or more of	
13	steel and concrete. The canisters	
14	may be oriented vertically or	
15	horizontally, in this case it's	
16	vertical, and in bolted cask systems	
17	there is no inner canister, which is	
18	a different design.	
19	Next slide, please.	
20	So, I thought that we would	
21	include this slide here which shows	
22	a cutaway of a spent fuel storage	
23	cask. This is an image of a cutaway	
24	and it's, as you can see, it's	
25	surrounded by thick by steel	

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1	Joint Meeting IPCTF and IPDOB	
2	and a thick concrete shielding. I	
3	bring this up because there has been	
4	some questions or concerns about the	
5	thin walled casks. It's true that	
6	it's a on the inside, if you	
7	could see that, there a half-inch	
8	steel; however there's a well,	
9	let me get back to that in a minute.	
10	When the company designs the	
11	cask, it must provide an evaluation	
12	that shows the system will be strong	
13	and stable enough to perform its	
14	safety functions even after	
15	experiencing a load such as if the	
16	cask were to be dropped. NRC	
17	reviewers examine the structural	
18	design and analysis of the system	
19	under all credible loads and normal	
20	conditions for normal conditions;	
21	that is, plant operations and	
22	environmental conditions that can be	
23	expected to occur often during	
24	storage. They also look at	
25	accidents, natural events and	

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1	Joint Meeting IPCTF and IPDOB	
2	conditions that can be expected to	
3	occur from time to time but not	
4	regularly.	
5	The NRC review looks at whether	
6	the cask designer evaluated the	
7	proper loading conditions. It will	
8	also ensure the designer evaluated	
9	the system's response to those loads	
10	accurately and completely. Our	
11	reviewers must verify whether the	
12	resulting stresses in the material	
13	meet the acceptance criteria in the	
14	appropriate code, and when I say	
15	"the code," I mean materials code and	
16	various other codes that our tech	
17	reviewers use.	
18	These cases are analyzed to	
19	determine the stresses placed on the	
20	material used to construct the cask	
21	system. To be conservative the NRC	
22	and the designers overestimate loads	
23	and underestimate material strength.	
24	This is part of the conservative	
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1	Joint Meeting IPCTF and IPDOB	
2	assumptions that we use in our	
3	regulatory oversight on a regular	
4	basis. Doing this enhances the	
5	NRC's assurance that the design is	
6	adequate.	
7	Next slide, please.	
8	So casks, we talked about	
9	casks coming in different sizes;	
10	they're all tall enough to hold the	
11	spent fuel, like I said, and they	
12	can weigh up to 150 to 200 tons. As	
13	I mentioned before, plants may need	
14	a special crane that can handle such	
15	heavy loads, be able to lift a	
16	loaded cask full of fuel and water	
17	out of a pool for drying. After	
18	they're dried, the casks are closed	
19	and sealed, that is, they're welded	
20	on the top by robotic equipment and	
21	that is done to keep the doses to	
22	workers as low as possible.	
23	ISFSIs, independent spent	
24	fuel storage installations, which we	
25	consider these systems, have been	

		24
1	Joint Meeting IPCTF and IPDOB	
2	used since 1986 in a very safe	
3	manner. What do I mean by that?	
4	What I mean is that no radiation	
5	release affecting the public or	
6	contaminating the environment;	
7	that's what I mean by that.	
8	Next slide, please.	
9	So plants use special	
10	transporters to move the loaded cask	
11	outdoors to where it will be stored	
12	on the ISFSI concrete pad. At that	
13	point the radioactivity from the	
14	cask must be less than 25 millirem	
15	per year at the site boundary. That	
16	means that the highest dose allowed	
17	to someone standing at the fence for	
18	a full year is about the dose	
19	someone would receive from cosmic	
20	radiation going around the world in	
21	an airplane. The actual dose at the	
22	site boundary is typically much	
23	lower.	
24	And I wanted to include these	
25	pictures to give you a sense of	

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1	Joint Meeting IPCTF and IPDOB	
2	scale with the person next to it.	
3	As you could see, you know, how big	
4	and robust these casks and	
5	transporters are because they're	
6	designed to transport a very heavy	
7	load, as you can imagine.	
8	Next slide, please.	
9	So this is an image of a	
10	construction of an ISFSI pad, not at	
11	Indian Point, at another site, but I	
12	just wanted to give you a sense of	
13	what goes into constructing an ISFSI	
14	pad to be able to withstand the	
15	loads here.	
16	As you can see in these	
17	pictures, the preparation of an	
18	ISFSI pad is quite significant. You	
19	could see the amount of rebar that	
20	is used to build the ISFSI pad. It	
21	is quite strong and is able to	
22	withstand the loads required for	
23	storage. The company that builds	
24	these concrete pads collects samples	
25	from the pads and the samples are	

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1	Joint Meeting IPCTF and IPDOB	
2	sent to an independent laboratory	
3	where they do what's called a 7-day	
4	and a 28-day compression test. This	
5	is civil engineering material	
6	science that they use to, that's	
7	performed to verify that certain	
8	acceptance criteria are met for the	
9	storage duration period with such	
10	heavy loads.	
11	Next slide, please.	
12	So this slide is regarding	
13	aging management. There's been	
14	questions about, you know, what	
15	happens over the years. Aging	
16	management considers the possible	
17	aging mechanisms and effects, that	
18	could affect safety functions of a	
19	dry storage system.	
20	Safety functions include	
21	confinement, structural integrity,	
22	heat removal, shielding, criticality	
23	control, retrievability. Aging	
24	mechanisms and effects are evaluated	
25	using dry storage design	

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1	Joint Meeting IPCTF and IPDOB	
2	information, component safety	
3	functions, component materials, and	
4	operating environments. Aging	
5	effects from metals and alloys	
6	include corrosion, stress-corrosion	
7	cracking, embrittlement and loss of	
8	ductility and loss of strength.	
9	Time-limited aging analysis	
10	calculation using dry storage system	
11	design basis is used, for example,	
12	fatigue, and the aging management	
13	program also deals with specific	
14	activities to detect or prevent	
15	aging effects and corrective actions	
16	when required, inspections and	
17	testing.	
18	The pictures on the left	
19	involves an inspection of a dry	
20	storage system canister at Maine	
21	Yankee, and in the middle is a	
22	robotic crawler for inspection of	
23	canisters and interior of its	
24	shielding overpack. It can be	
25	equipped with a variety of	

		28
1	Joint Meeting IPCTF and IPDOB	
2	non-destructive examination tools,	
3	that robot, that you can see.	
4	And on the right is a	
5	NUREG-2214 that describes our	
6	managing aging processes and storage	
7	report. It was issued in 2019	
8	through a review of aging mechanisms	
9	and effects of dry storage system	
10	designs and materials, and it	
11	includes examples of aging	
12	management programs.	
13	Next slide please.	
14	So we wanted to include this	
15	slide about high burnup fuel.	
16	There's been some questions that we	
17	got about this. So most sites also	
18	have some fuel that's called high	
19	burnup fuel. So what is that	
20	exactly?	
21	So to understand burnup it	
22	helps to know more about the uranium	
23	in the fuel's reactor. Before it's	
24	made into fuel, the uranium is	
25	processed to increase the	

		29
1	Joint Meeting IPCTF and IPDOB	
2	concentration of atoms that can	
3	split in a controlled chain reaction	
4	in the reactor. The atoms release	
5	energy as they split. This energy	
6	produces the heat that is turned	
7	into electricity. In general, the	
8	higher the concentration of those	
9	atoms, the longer the fuel can	
10	sustain a chain reaction and the	
11	longer the fuel remains in the	
12	reactor, the higher the burnup. I	
13	hope that just provides a little	
14	basic, you know, primer on what high	
15	burnup fuel really covers. In other	
16	words, burnup is a way to measure	
17	how much uranium was burned in the	
18	reactor. It's the amount of energy	
19	produced by the uranium. Burnup is	
20	expressed in what we call	
21	gigawatt-days per metric ton of	
22	uranium.	
23	Now, as utilities are able to	
24	get more power out of their fuel	
25	before replacing, burnup can be over	

		30
1	Joint Meeting IPCTF and IPDOB	
2	what we call 45 gigawatt-days per	
3	metric ton of uranium. This means	
4	they can operate longer between	
5	refueling outages, 18 months, 24	
6	months, things like that. It also	
7	means they use less fuel. Operating	
8	experience since dry storage began	
9	in 1986, as I mentioned before, in	
10	short-term tests show that both low	
11	and high burnup spent fuel can be	
12	stored and transported safely.	
13	The NRC has sponsored testing	
14	at Oak Ridge National Laboratory for	
15	high burnup fuel under stresses	
16	greater than the loads expected	
17	during normal storage and transport,	
18	and we continue to gather	
19	information on this subject to	
20	ensure valuable configuration of	
21	our programming.	
22	Next slide, please.	
23	I'll turn it over to Briana	
24	to cover the rest of the slides.	
25	MS. DeBOER: Good evening.	

		31
1	Joint Meeting IPCTF and IPDOB	
2	Again, I'm Briana DeBoer. I'm a	
3	senior ISFSI inspector out of the	
4	NRC Region 1 Office. So I'm going	
5	to discuss a little bit about the	
6	regional inspection program now.	
7	NRC performs inspections to	
8	ensure ISFSIs meet NRC regulations	
9	during their construction and their	
10	operation. These inspections cover	
11	design and construction of the pad,	
12	dry runs, which are performed	
13	without spent fuel, actual cask	
14	loading, and that includes loading	
15	of spent fuel, processing and drying	
16	of the can, welding the cask shut,	
17	and transporting cask to the pad,	
18	and then, routine monitoring	
19	inspections of the casks. And this	
20	includes inspection of casks that	
21	are already loaded on the pad, the	
22	concrete pad itself, and the	
23	licensee's program. NRC routine	
24	monitoring inspections continue as	
25	long as fuel is onsite.	

		32
1	Joint Meeting IPCTF and IPDOB	
2	Pictured here is one of our	
3	inspectors, along with a licensee	
4	representative, doing a walk-down	
5	during routine inspection. And on	
6	the right you can see the VCT, which	
7	is the vertical cask transporter,	
8	getting set up to lift the HI-STORM	
9	prior to its movement to its	
10	location on the ISFSI Pad. The	
11	workers in these pictures provide a	
12	good size comparison for scale.	
13	Our inspectors have conducted	
14	many inspections of ISFSI programs	
15	over the years. The spent fuel	
16	inspection program remains robust	
17	and continues to assure that risk	
18	informed safety focused areas and	
19	the inspection focus is designed to	
20	effectively monitor licensee	
21	performance.	
22	Next slide please.	
23	AUDIENCE MEMBER: Can you get	
24	closer to the mic?	
25	MS. DeBOER: Yes, sorry.	

		33
1	Joint Meeting IPCTF and IPDOB	
2	Better? Hello? Better?	
3	AUDIENCE MEMBER: Leave it to	
4	you.	
5	MS. DeBOER: Better?	
6	AUDIENCE MEMBER: Yes, thank	
7	you.	
8	MS. DeBOER: Okay. All	
9	right. Everybody can hear me?	
10	Okay.	
11	As I just touched upon, the	
12	regional inspection program involves	
13	our inspectors examining and	
14	observing various phases of the	
15	evolution before spent nuclear fuel	
16	is moved, and these phases are	
17	called dry runs. There are about	
18	four dry runs that our staff	
19	inspect that include the following	
20	activities: fuel movement, drying	
21	and processing of cask, welding and	
22	transporting of the cask. Our staff	
23	conduct onsite inspections during	
24	the dry run evolution to ensure that	
25	the work is carefully planned and	

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1	Joint Meeting IPCTF and IPDOB	
2	carefully executed. They are	
3	completed in addition to the onsite	
4	inspections conducted during actual	
5	loading of spent nuclear fuel.	
6	The picture on the left	
7	captured an NRC Inspector during a	
8	welding dry run, at Holtec's Camden	
9	facility in New Jersey back in March	
10	of 2020. He is independently	
11	observing a mockup of a multipurpose	
12	canister.	
13	Here an evaluator is	
14	performing a temperature check of	
15	the MPC lid weld prior to starting	
16	the liquid dye penetrant test.	
17	That's the non-destructive	
18	examination that they do of the weld	
19	after the weld is complete. The	
20	picture on the right captured	
21	another NRC inspector during a	
22	drying and processing dry run, also	
23	at the Camden facility.	
24	Next slide, please.	
25	ISFSI pads are present at	

		35
1	Joint Meeting IPCTF and IPDOB	
2	operating reactor sites, at sites	
3	that are undergoing active	
4	decommissioning, and at such as	
5	Indian Point, and at sites that have	
6	completed decommissioning a long	
7	time ago, such as Maine Yankee,	
8	Yankee Rowe and Connecticut Yankee.	
9	ISFSI pads are secured with	
10	fences and various security	
11	features, as shown in this slide.	
12	Without getting into details about	
13	security that could aid potential	
14	adversaries, I can say this. ISFSI	
15	pads have fences, detection	
16	equipment, alarms, assessment, and	
17	armed response forces.	
18	Whether the pad is at an	
19	operating reactor plant site, an	
20	actively decommissioning site or an	
21	independent site that has long it's	
22	completed it's decommissioning	
23	activities, there's security around	
24	it 24/7. This security will be	
25	present as long as the fuel is	

		36
1	Joint Meeting IPCTF and IPDOB	
2	onsite.	
3	Next slide, please.	
4	Emergency planning is	
5	required at ISFSI sites. The risks	
6	associated with a site that is shut	
7	down and is in decommissioning are	
8	significantly reduced than those of	
9	an operating reactor site.	
10	Therefore, the emergency planning	
11	for a permanently shut down site,	
12	although required, is different than	
13	those at an operating site. This is	
14	reflective of the greatly reduced	
15	risks associated with the	
16	decommissioning facility. This is	
17	the reason that licensees request	
18	changes to their emergency plans.	
19	Next slide, please.	
20	So we talked a little bit	
21	about ISFSIs in general and now	
22	we're going to cover a little bit	
23	about the ISFSI at Indian Point.	
24	So the picture you see here is a	
25	picture of the ISFSI pad at Indian	

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1	Joint Meeting IPCTF and IPDOB	
2	Point taken when the first HI-STORM	
3	was being moved to the second pad	
4	that was just that's newly poured	
5	mealier this year. In the	
6	background you can still see Pad	
7	Number 1.	
8	Currently, as of last week,	
9	Indian Point currently stores	
10	70 HI-STORM 100s, five of those	
11	containing Unit 1 fuel, 47 casks	
12	contain Unit 2 fuel, and 18 casks	
13	contain Unit 3 fuel. Inside each of	
14	these HI-STORMs is a multipurpose	
15	canister that holds 32 fuel	
16	assemblies. When all the fuel has	
17	been removed to the site, the site	
18	expects there will be a total of 127	
19	HI-STORMS loaded on these two pads.	
20	Next slide, please.	
21	So just to summarize what	
22	Tony and I have talked about, as	
23	part of our program, we continue to	
24	inspect ISFSIs for safety and	
25	security as long as fuel is at that	

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1	Joint Meeting IPCTF and IPDOB	
2	site. Further, ISFSIs remain robust	
3	and are secured around the clock,	
4	24/7. And lastly, the NRC staff	
5	will continue to monitor for the	
6	licensee's' aging management	
7	program.	
8	And next slide?	
9	And I will open it now for	
10	questions now.	
11	THE CHAIR: Thank you both	
12	very much.	
13	MS. DeBOER: Thank you.	
14	THE CHAIR: I want to call on	
15	Richard Webster now, who solicited	
16	some questions from the community.	
17	As I think NRC understands, there's	
18	a very active community here with	
19	many individuals who've been working	
20	on nuclear policy and Indian Point	
21	matters for many years; and so, we	
22	have a very active community that	
23	has assisted the Decommissioning	
24	Oversight Board, and they have	
25	several questions, I think, that	

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1	Joint Meeting IPCTF and IPDOB	
2	they've provided to Dave I'm	
3	sorry, Richard Webster. Dave	
4	Lochbaum may have some questions as	
5	well, but I want to turn first to	
6	Richard.	
7	MR. WEBSTER: Thanks, Tom.	
8	Thank you.	
9	Yeah, I have a few questions,	
10	a couple of actually just maybe	
11	I'll just do ones directly related	
12	to the presentation first.	
13	THE CHAIR: Sure.	
14	MR. WEBSTER: And then move	
15	on to the more to the ones that	
16	we have prepared.	
17	The presentation it's kind	
18	of an awkward setup, so I can't	
19	talk	
20	THE CHAIR: Do you want to	
21	just if you'd like, you could go	
22	up to the podium to pose your	
23	questions. That way you're	
24	facing	
25	MR. WEBSTER: But then I've	

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1	Joint Meeting IPCTF and IPDOB	
2	got my back to the audience.	
3	THE CHAIR: Okay.	
4	SPEAKER: Face the audience.	
5	MR. WEBSTER: Let me do it	
6	this way.	
7	THE CHAIR: Okay, there you	
8	go.	
9	MR. WEBSTER: Right, okay.	
10	So just picking up on the	
11	presentation, let me just start with	
12	the back end, you said that the	
13	Emergency Management Plan for the	
14	ISFSI is different for the operating	
15	plant.	
16	Could you just give us the	
17	details on how that works?	
18	MR. DIMITRIADIS: Sure. So	
19	when the plant is operating, the	
20	risks associated with an operating	
21	plant are very different	
22	MR. WEBSTER: Right.	
23	MR. DIMITRIADIS: than a	
24	shut down plant.	
25	MR. WEBSTER: Right.	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. DIMITRIADIS: So that's	
3	why we	
4	MR. WEBSTER: But what's the	
5	difference in the emergency	
6	management?	
7	MR. DIMITRIADIS: Well,	
8	there's many, many differences.	
9	One, it has to do with what levels	
10	of emergencies there would be. For	
11	a shutdown plant with only ISFSIs,	
12	the highest level would be an alert	
13	as opposed to a site area emergency	
14	and a general emergency.	
15	MR. WEBSTER: Right.	
16	So there's no evacuation	
17	plan, for example.	
18	MR. DIMITRIADIS: I'm sorry?	
19	MR. WEBSTER: So, for	
20	example, there's no evacuation plan.	
21	MR. DIMITRIADIS: Correct,	
22	the risks for an evacuation are	
23	zero, almost. I mean, it's not	
24	MR. WEBSTER: Just to be clear, I	
25	think I'm trying to	

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1	Joint Meeting IPCTF and IPDOB	
2	elucidate some information for the	
3	public, and I think the public, you	
4	know, hearing the risks are lower is	
5	one thing but I think the public	
6	wants to hear the actual, concrete	
7	differences between what's required	
8	through an operation and what's	
9	required just for ISFSI.	
10	For example, you know there	
11	are bus stops all around here that	
12	say Indian Point Emergency	
13	Management or Indian Point	
14	Evacuation Route or something. Can	
15	we assume those will not be	
16	operational?	
17	MR. DIMITRIADIS: I'd have to	
18	ask for somebody from our	
19	headquarters office to see if they	
20	can adjust that to answer that.	
21	Are they on?	
22	Mike Norris are you	
23	available?	
24	THE CHAIR: Hi, Mike. I	
25	think you're we see you but you	

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1	Joint Meeting IPCTF and IPDOB	
2	may still be on mute.	
3	Mike, you seem to be muted	
4	unmuted on Zoom. It may be muted on	
5	your personal end.	
6	MR. NORRIS: Okay. Is this	
7	any better?	
8	MR. DIMITRIADIS: Yep, we can	
9	hear you.	
10	THE CHAIR: Yes, now we can	
11	hear you. Thank you.	
12	MR. NORRIS: Okay, good. My	
13	name is Mike Norris. I'm a senior	
14	emergency preparedness specialist	
15	at NRC headquarters, and when the	
16	plant is in operation, it, you	
17	know, as Tony alluded to, it has,	
18	you know, emergency action levels	
19	and classification levels that go	
20	up to a general emergency, which	
21	does bring into play the offsite,	
22	fully formal radiological emergency	
23	preparedness plan, which is, for	
24	all intents and purposes, inspected	
25	by FEMA. It's under FEMA oversight.	

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1	Joint Meeting IPCTF and IPDOB	
2	The NRC, we have the oversight	
3	onsite; FEMA has the oversight for	
4	offsite.	
5	As the plant goes into	
6	decommissioning and the risk of the	
7	accidents goes down and the source	
8	terms also go down and the potential	
9	releases offsite also goes down, the	
10	need for the formal radiological	
11	emergency preparedness plan offsite	
12	is no longer needed. And you have	
13	to realize that that plan is in	
14	place to have predetermined	
15	protective actions for the public	
16	that can be initiated in a very	
17	short period of time. It's	
18	predetermined; everything is already	
19	set up with the protective action	
20	recommendations that the licensee	
21	makes to the state and county that	
22	the state and county implement.	
23	So your evacuation of	
24	things like the buses for the	
25	transient, dependent populations,	

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1	Joint Meeting IPCTF and IPDOB	
2	the schools for reception centers,	
3	all that is gone based on reduced	
4	risk of just the spent fuel pool.	
5	Does that help you?	
6	MR. WEBSTER: Yeah. That's	
7	very helpful. Thank you very much.	
8	So, is all of this, these	
9	requirements for emergency planning,	
10	already in the code, in the CFR?	
11	MR. NORRIS: Yes. Currently	
12	the regulations for operating	
13	reactor power plants are the same.	
14	The regulations don't really allow	
15	for they don't take into	
16	consideration decommissioning. So	
17	the process that we have to use is	
18	the licensee will request relief	
19	from the regulations that would be	
20	no longer applicable through the	
21	exemption process, and the NRC,	
22	based, on its analysis of the design	
23	basis accident, the seismic	
24	evaluations of the spent fuel, the	
25	accidents related to any there's	

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1	Joint Meeting IPCTF and IPDOB	
2	a number of things, but there's	
3	basically, there's no release to the	
4	offsite that would exceed the	
5	Environmental Protection Agency	
6	protected action guides at the site	
7	boundary, we would approve these	
8	requested exemptions and basically	
9	take it down, the regulations for	
10	the operating plant that's going	
11	into decommissioning, to the same	
12	level of emergency planning that the	
13	standalone independent spent fuel	
14	storage installations like Maine	
15	Yankee, Connecticut Yankee and	
16	Yankee Rowe have. So it basically	
17	drops the regulations down to that,	
18	and that's we've been using that	
19	process since the 90s.	
20	MR. WEBSTER: So there's	
21	something I don't understand,	
22	though, because the standalone	
23	ISFSIs have a codified requirement	
24	for emergency planning, right?	
25	MR. NORRIS: Well	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. WEBSTER: Why does the	
3	licensee need exemptions?	
4	MR. NORRIS: When you say the	
5	standalone, the standalone ISFSIs,	
6	it depends on how they're licensed.	
7	Part 72, which is the regulations	
8	for independent spent fuel storage,	
9	has emergency planning requirements,	
10	but those emergency planning	
11	requirements are applicable to	
12	(Audio lost)	
13	THE CHAIR: Mike, you've been	
14	muted. Mike, you went back on mute	
15	somehow.	
16	MR. NORRIS: Okay. How am	
17	I good?	
18	THE CHAIR: Yeah. We lost	
19	you at Part 72 has emergency regs.	
20	MR. NORRIS: Okay.	
21	THE CHAIR: Yeah.	
22	MR. NORRIS: Part 72 has	
23	emergency planning regulations for	
24	ISFSIs that are either wet or dry,	
25	because there is a wet storage ISFSI	

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1	Joint Meeting IPCTF and IPDOB	
2	in Illinois, that are specific to a	
3	specific licensed ISFSI. Most power	
4	reactors have general licensed	
5	ISFSIs. The regulations of Part 72	
6	allow for a general licensed ISFSI,	
7	and in those cases, they used the	
8	Part 50 emergency plan regulations.	
9	So that's why we have to do	
10	exemptions, to bring the regulations	
11	down in alignment with the Part 72	
12	regulations for a specific licensed	
13	ISFSI.	
14	It's kind of complicated, I	
15	guess.	
16	(Laughter)	
17	MR. WEBSTER: Yeah, what can	
18	I say? You know, I find on planning	
19	at NRC things often get complicated,	
20	so this is what we're left with.	
21	Thanks for those answers. That was	
22	very useful.	
23	So next question. You	
24	mentioned security, Briana, I think.	
25	My understanding is that the	

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1	Joint Meeting IPCTF and IPDOB	
2	practice drills for security during	
3	operation actually have a	
4	force-on-force practice and that	
5	goes away during once the fuel is	
6	out of the spent fuel pool; is that	
7	correct?	
8	MR. DIMITRIADIS: That is	
9	correct.	
10	MR. WEBSTER: And why?	
11	MR. DIMITRIADIS: Because the	
12	risks are much different, very	
13	lowered.	
14	MR. WEBSTER: The risk of	
15	what?	
16	MR. DIMITRIADIS: The risks	
17	of certain design basis threat	
18	risks, which I won't get into in a	
19	public forum, the risks are very	
20	different and much significantly	
21	lower. That's why.	
22	MR. WEBSTER: Let me say I	
23	find that hard to understand. I	
24	wouldn't have thought that it would	
25	be any harder to storm an ISFSI than	

		50
1	Joint Meeting IPCTF and IPDOB	
2	storm an operating plant. The	
3	consequences of that might be	
4	different but the actual chance of	
5	that seem to be similar.	
6	MR. DIMITRIADIS: That's	
7	incorrect. The when you have an	
8	operating plant, you have a number	
9	of areas and certain systems that	
10	have to be in place. When the plant	
11	is shut down and the fuel is removed	
12	from the reactor vessel and it's in	
13	the spent fuel pool or in the ISFSI	
14	pad, the risks are very different	
15	and the attack vectors are very	
16	different. So	
17	MR. WEBSTER: It's the word	
18	"risk" that I'm worried about here,	
19	'cause risk in my mind, right, is	
20	is frequency times consequence.	
21	MR. DIMITRIADIS: Mm-hmm.	
22	MR. WEBSTER: Right?	
23	MR. DIMITRIADIS: Yes.	
24	MR. WEBSTER: And I recognize	
25	that for the reactor, for the	

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1	Joint Meeting IPCTF and IPDOB	
2	operating reactor, the consequence	
3	could be higher, but is the	
4	initiating likelihood of the	
5	likelihood of the initiating event	
6	higher?	
7	MR. DIMITRIADIS: I'm not	
8	sure what you're asking but	
9	MR. WEBSTER: I mean, in	
10	other words, a successful attack,	
11	you know, let's assume the attacker	
12	has a goal to achieve entry and then	
13	achieve some sort of either movement	
14	or release. Is that probability	
15	higher or lower for an ISFSI versus	
16	that of an operating reactor?	
17	MR. DIMITRIADIS: High or low	
18	for success, you mean?	
19	MR. WEBSTER: Yes.	
20	MR. DIMITRIADIS: It's much	
21	lower.	
22	MR. WEBSTER: And can you	
23	tell us any I mean, I know it's a	
24	public forum.	
25	MR. DIMITRIADIS: It's lower	

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1	Joint Meeting IPCTF and IPDOB	
2	because of where it's stored and	
3	it's lower because the safety	
4	systems that are required to prevent	
5	any consequences are much simpler.	
6	MR. WEBSTER: Right. But I'm	
7	not asking about consequences.	
8	MR. DIMITRIADIS: I'm sorry?	
9	MR. WEBSTER: I'm not asking	
10	about consequences. I'm asking	
11	about just the event.	
12	MR. DIMITRIADIS: The	
13	successful attack of that is very	
14	different. It's much lower.	
15	MR. WEBSTER: Okay.	
16	MR. DIMITRIADIS: It's easier	
17	to defend	
18	MR. WEBSTER: Okay.	
19	MR. DIMITRIADIS: is	
20	another way of saying it.	
21	MR. WEBSTER: All right.	
22	MR. DIMITRIADIS: So that	
23	that would be incorrect.	
24	MR. WEBSTER: Okay.	
25	That's again, that was helpful.	

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1	Joint Meeting IPCTF and IPDOB	
2	And I know, let me just recognize,	
3	let me just I think everybody	
4	knows here that talking about	
5	potential attacks in a public forum	
6	involves some degree of sensitivity,	
7	so I recognize that.	
8	THE CHAIR: Thank you.	
9	MR. DIMITRIADIS: Yeah, and	
10	just so you're aware, I've been with	
11	the NRC for thirty years. One of my	
12	jobs as a branch chief was for	
13	security in EP. So I think I know	
14	what I'm talking about so I	
15	appreciate the	
16	MR. WEBSTER: No, I get it.	
17	Now I just wanted to comment	
18	a little bit, one thing you didn't	
19	talk about was just the 'cause	
20	one thing I want to understand	
21	better for both myself and for the	
22	members of the public is the nature	
23	of the spent fuel, right?	
24	So my understanding is that	
25	the reason it's underwater, and my	

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1	Joint Meeting IPCTF and IPDOB	
2	understanding is the water is	
3	borated right? It has boron in it.	
4	So the boron absorbs neutrons that	
5	prevents the any kind of chain	
6	reaction occurring. Is that right?	
7	MR. DIMITRIADIS: Not	
8	exactly. So the reason that spent	
9	fuel is kept inside the spent fuel	
10	pool is because when the fuel is	
11	spent, that is, when it's in the	
12	reactor vessel and it's removed, it	
13	has what's called decay heat. It	
14	takes long time for a relatively	
15	long time for it to cool down. So	
16	they put it it's put into the	
17	pool full of water to keep it cool	
18	for a long time for a relatively	
19	long time. It depends upon how it	
20	is, right?	
21	So at Indian Point, it's	
22	the plant's been operating for	
23	35 years; is that right?	
24	MR. WEBSTER: Forty.	
25	MR. DIMITRIADIS: Forty,	

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1	Joint Meeting IPCTF and IPDOB	
2	thank you, forty years.	
3	And so, they have a a	
4	variety of spent fuel there that's	
5	been removed from the reactor for	
6	years. So that's why it's put into	
7	a spent fuel pool to keep it cool.	
8	MR. WEBSTER: Right. And if	
9	it was if it were not underwater	
10	in the spent fuel pool, what would	
11	happen?	
12	MR. DIMITRIADIS: A variety	
13	of things could happen. I'm not	
14	sure can you be a little bit more	
15	specific?	
16	MR. WEBSTER: Would it	
17	would the cladding catch fire, for	
18	example?	
19	MR. DIMITRIADIS: It could.	
20	One of the things that we that's	
21	postulated is, is the a zirconium	
22	fire, yes.	
23	MR. WEBSTER: Okay. And	
24	then, again we talked about drying.	
25	My understanding is that the drying	

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1	Joint Meeting IPCTF and IPDOB	
2	involves helium and then with the	
3	MR. DIMITRIADIS: Not always,	
4	but yes.	
5	MR. WEBSTER: Right.	
6	MS. DeBOER: (Inaudible).	
7	MR. DIMITRIADIS: Or at least	
8	Indian Point, yes.	
9	MR. WEBSTER: And the idea is	
10	basically that the canister ends up	
11	full of helium.	
12	MR. DIMITRIADIS: Correct.	
13	MR. WEBSTER: And what's the	
14	purpose of the helium? Why do you	
15	need helium there?	
16	MR. DIMITRIADIS: Can you	
17	help?	
18	MS. DeBOER: Yeah.	
19	To prevent it from an	
20	oxidate oxidizing environment.	
21	So if there was air in there, then	
22	it would be an oxidizing	
23	environment, the fuel could degrade	
24	but with the helium removes that	
25	oxidizing environment, the chance of	

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1	Joint Meeting IPCTF and IPDOB	
2	an oxidizing environment.	
3	MR. WEBSTER: Okay.	
4	MS. DeBOER: So it prevents	
5	any degradation of the fuel.	
6	MR. WEBSTER: Right. And	
7	does it help with degradation	
8	(Background noise)	
9	MS. DeBOER: (Inaudible).	
10	(Cross-talk)	
11	MR. DUNN: Well, I think	
12	(inaudible).	
13	MS. DeBOER: Okay.	
14	MR. WEBSTER: No. Go ahead.	
15	MR. DUNN: Darrell Dunn	
16	THE CHAIR: If you could	
17	MR. DUNN: from the NRC.	
18	THE CHAIR: just introduce	
19	yourself first in the mic. Thanks.	
20	MR. DUNN: Darrell Dunn,	
21	NRC.	
22	The helium also promotes heat	
23	transfer. So it removes the decay	
24	heat from the assemblies to the	
25	external surfaces of the cask.	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. WEBSTER: Oh, because of	
3	convection.	
4	MR. DUNN: Yeah.	
5	MR. WEBSTER: Right. Okay.	
6	All right.	
7	So I was going to say, does	
8	this oxidizing environment I	
9	mean, lack of oxidizing environment	
10	really only helps with potential	
11	corrosion issues.	
12	MR. DIMITRIADIS: Correct.	
13	MS. DeBOER: Correct.	
14	MR. WEBSTER: Okay.	
15	MR. DIMITRIADIS: So it's all	
16	relative, right? When we say	
17	oxidizing environment, there are a	
18	variety, and the idea of introducing	
19	helium is to remove the 19 percent	
20	of oxygen that's in regular air,	
21	right?	
22	MR. WEBSTER: Right.	
23	MR. DIMITRIADIS: So it	
24	further reduces any risks like that.	
25	MR. WEBSTER: Right, okay.	

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1	Joint Meeting IPCTF and IPDOB	
2	Understood, thank you. So okay.	
3	This could take awhile, by	
4	the way, Tom. I don't mean give	
5	me a signal if you want to move	
6	along. I mean, you know.	
7	THE CHAIR: Well, if other	
8	DOB members have questions, you	
9	know, maybe just flip your card up	
10	and we can turn and come back to	
11	Richard Webster. But, you know, we	
12	can allow Richard to keep going for	
13	a minute and then I'll turn to	
14	Sandy.	
15	MR. WEBSTER: Okay. Let me	
16	do a segment on phy I should	
17	tell you that I did a contention at	
18	a reactor in New Jersey about aging	
19	management. It was all about	
20	corrosion of the second	
21	recontainment and so I learned a	
22	little bit about aging management	
23	systems.	
24	One thing I was never able to	
25	be clear on is, was the purpose of	

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1	Joint Meeting IPCTF and IPDOB	
2	the system, the aging management	
3	program, to detect a problem before	
4	it goes through the allowed margin	
5	or was the purpose to detect a	
6	problem after it had gone through	
7	the allowed margin? So	
8	MS. DeBOER: I believe	
9	before, detect the problem before a	
10	problem occurs.	
11	MR. DIMITRIADIS: So the	
12	aging management program's not	
13	designed because we had any major	
14	concerns. It's designed as a	
15	program for early detection for any	
16	aging effects of the ISFSI casks and	
17	in the components that are	
18	monitoring it, so to be enhanced, a	
19	plan to be developed.	
20	MR. WEBSTER: Okay. I'm not	
21	sure I understand that, but let me	
22	just I think I want to drill down	
23	a little bit.	
24	So my under so let's just	
25	start with I understand that the	

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1	Joint Meeting IPCTF and IPDOB	
2	casks, basically, there's an	
3	assumption that they don't need an	
4	aging management program for some	
5	period of time. Is that right?	
6	MR. DIMITRIADIS: Yeah, I	
7	believe go ahead.	
8	MS. DeBOER: The first twenty	
9	years, yes.	
10	MR. WEBSTER: Right.	
11	MS. DeBOER: And then that	
12	renewal at twenty years, the aging	
13	management program goes into effect.	
14	MR. WEBSTER: Right. And at	
15	Indian Point, is that 2028?	
16	MS. DeBOER: Correct.	
17	MR. WEBSTER: Right, okay.	
18	So is there an approved aging	
19	management program for the casks at	
20	Indian Point already?	
21	MR. DUNN: Darrell Dunn, NRC.	
22	Yes, there is and it's	
23	publicly available. I can give you	
24	ADAMS Accession Number, if you'd	
25	like.	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. WEBSTER: That'd be	
3	great.	
4	MR. DUNN: But it's it is	
5	publicly available.	
6	MR. WEBSTER: Okay. So good.	
7	All right.	
8	So I just want to you	
9	know, this is a for part of I	
10	should say part of the idea of this	
11	is that we bring out information to	
12	the public so everybody knows what's	
13	going on so. So I just want to do	
14	that a little bit with this aging	
15	management program.	
16	So first question, which is,	
17	what methods do you use to detect	
18	what kinds of degradation and how	
19	often?	
20	MR. DUNN: Which system are	
21	you talking about?	
22	MR. WEBSTER: The aging	
23	management program for the casks.	
24	MR. DUNN: Okay. So	
25	there's okay. So there's aging	

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1	Joint Meeting IPCTF and IPDOB	
2	management program for the overpacks	
3	and	
4	MR. WEBSTER: Okay.	
5	MR. DUNN: that looks	
6	that's primarily visual inspection.	
7	MR. WEBSTER: Okay.	
8	MR. DUNN: There's an in	
9	and then there's interior inspection	
10	that's done on one of those every	
11	five years, and then there's another	
12	aging management program for the	
13	multipurpose canister, where there	
14	will be one inspection or one	
15	canister inspected every five years	
16	after it goes through this it's	
17	in it's period of extended	
18	operation. They have to pick the	
19	cask that's gonna be the most	
20	susceptible to aging effects. So	
21	it's typically the one that's been	
22	in service the longest and probably	
23	an early cask that was loaded a low	
24	heat load, so that there's a higher	
25	potential for corrosion reactions to	

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1	Joint Meeting IPCTF and IPDOB	
2	occur.	
3	If they have acceptance	
4	criteria for that.	
5	MR. WEBSTER: Right.	
6	MR. DUNN: It's done by a	
7	visual inspection. If the if	
8	they don't meet that acceptance	
9	criteria, they have to do additional	
10	inspections including	
11	MR. WEBSTER: Okay.	
12	MR. DUNN: volumetric.	
13	MR. WEBSTER: Okay. So	
14	what's okay. So the acceptance	
15	criteria, that's just I mean,	
16	just to make sure everybody gets it,	
17	right, which is, the idea is that if	
18	you see something that doesn't meet	
19	the acceptance criteria, you have to	
20	do something, right?	
21	MR. DUNN: That's correct.	
22	MR. WEBSTER: So on a visual	
23	inspection, what's the this is of	
24	the multipurpose canister.	
25	MR. DUNN: Right.	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. WEBSTER: So what's	
3	the what's the acceptance	
4	criteria?	
5	MR. DUNN: So the so the	
6	accept what the inspection is	
7	looking for is indications of aging.	
8	So things like pitting corrosion or	
9	potentially stress corrosion	
10	cracking, and so they're looking at	
11	the parts of the canister where they	
12	have welds in the canister that	
13	could have residual stresses, where	
14	there's a potential for stress	
15	corrosion cracking, and so, they're	
16	looking for indications of that, as	
17	well as pitting corrosion which can	
18	be a precursor to stress corrosion	
19	cracking.	
20	MR. WEBSTER: Okay. And what	
21	happens if you see those?	
22	MR. DUNN: Well then you have	
23	to so it so it would not meet	
24	the acceptance criteria if you	
25	MR. WEBSTER: Right.	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. DUNN: if you see	
3	those. That gets put then it	
4	goes over to the corrective action	
5	program for the site and they have	
6	to do an evaluation. They may do	
7	additional inspections. They may	
8	characterize that part of the	
9	canister to determine, you know,	
10	whether or not it's it's some	
11	iron contaminations, some	
12	incidental iron contamination that	
13	has some corrosion products that	
14	looks a little funny or if it's	
15	really pitting corrosion or if it's	
16	stress corrosion cracking. They	
17	may do some tests to determine how	
18	far that's progressed and then	
19	determine, you know, what their need	
20	is for either a follow-up inspection	
21	to determine how that's progressing	
22	or a corrective action to, you know,	
23	potentially do some type of	
24	mitigation.	
25	MR. WEBSTER: Right. So	

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1	Joint Meeting IPCTF and IPDOB	
2	let's say in the unlikely event you	
3	see some bad well, let's just	
4	let me just keep let me back up a	
5	little bit, right?	
6	So you're doing one cask; so	
7	it's one out of 70 at the moment,	
8	right?	
9	MR. DUNN: Correct.	
10	MR. WEBSTER: And that would	
11	be one out of a hundred and	
12	something.	
13	MR. DUNN: Yep.	
14	MR. WEBSTER: Why one?	
15	MR. DUNN: Because there's a	
16	very low possibility that we're	
17	going to have aging effects on these	
18	canisters. They are a stainless	
19	steel canister that's very robust	
20	and resistant to corrosion, and	
21	there's only, you know, really one	
22	possibility of an aging effects,	
23	which is that could compromise the	
24	safety function of the canister, and	
25	that's chloride-induced stress	

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1	Joint Meeting IPCTF and IPDOB	
2	corrosion cracking. Not a real big	
3	issue here at this site, you're too	
4	far from the ocean and you're not	
5	close enough to a cooling tower or a	
6	salted road to have that be an	
7	issue.	
8	But if you do one, and again	
9	you have to pick the one that's	
10	going to be most susceptible to an	
11	effect and if you don't meet that	
12	acceptance criteria, then you have	
13	to do an extent of condition	
14	evaluation and that could involve	
15	inspection of other canisters.	
16	The corrective action program	
17	determines how they go forward with	
18	that, and the NRC reviews how	
19	they've handled that.	
20	THE CHAIR: Richard, I think	
21	this is a good exchange on aging	
22	management.	
23	Do you have many more	
24	questions on aging management? I	
25	want to allow the	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. WEBSTER: Yeah, I	
3	THE CHAIR: If you can finish	
4	that topic	
5	MR. WEBSTER: That's what	
6	I	
7	THE CHAIR: and then turn	
8	to Sandy Galef.	
9	MR. WEBSTER: Right. That's	
10	what I was hoping to do.	
11	THE CHAIR: Yeah, good.	
12	MR. WEBSTER: So how do they	
13	know which one's most susceptible?	
14	MR. DUNN: So there is a	
15	criteria that's been developed for	
16	that. It's actually EPRI has	
17	a the Electrical Power Research	
18	Institute has a susceptibility	
19	assessment report that is used to	
20	make that determination.	
21	MR. WEBSTER: Right. And	
22	what does it say (inaudible)?	
23	MR. DUNN: So it looks at	
24	things like what is the age of	
25	canister, the heat load at the time	

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1	Joint Meeting IPCTF and IPDOB	
2	that it was loaded. It looks at	
3	site-specific types of parameters,	
4	like is that canister on a part of	
5	the pad that may be closer to a	
6	chloride source, either closer to	
7	the ocean or closer to a cooling	
8	tower or closer to a salted road.	
9	Is it on the part of the pad that	
10	might be in a condition where it	
11	would get more input from something	
12	like that because of prevailing wind	
13	conditions, and it also looks at	
14	things like is there you know,	
15	was there known conditions of the	
16	canister when it was put into	
17	service.	
18	MR. WEBSTER: Okay. 'Cause	
19	one question I have was, it's seems	
20	like you've got welding on these	
21	canisters, so there's probably some	
22	heterogeneity, right?	
23	MR. DUNN: Some	
24	heterogeneity?	
25	MR. WEBSTER: Yeah, on the	

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1	Joint Meeting IPCTF and IPDOB	
2	welds.	
3	MR. DUNN: I'm going to	
4	say	
5	MR. WEBSTER: I know they're	
6	robotic welds, but they're not all	
7	exactly the same.	
8	MR. DUNN: No, but they all	
9	have to be inspected and they all	
10	have to pass the acceptance	
11	criteria.	
12	MR. WEBSTER: Right.	
13	MR. DUNN: Okay.	
14	MR. WEBSTER: But, I mean	
15	<pre>I well, let's not. I don't mean</pre>	
16	to get into too many details. I can	
17	follow up with you later on that.	
18	But let me let me just ask	
19	a couple of questions, which is, if	
20	you really had a problem with a	
21	multipurpose canister, which I know	
22	is very unlikely well, let's ask	
23	this question here. Have you ever	
24	had a problem with a multipurpose	
25	canister to the point where you had	

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1	Joint Meeting IPCTF and IPDOB	
2	to re-package the fuel?	
3	MR. DUNN: No. We've had	
4	issues with bolted casks that had	
5	seal failure issues and they had to	
6	be taken back to a pool and, you	
7	know, taken apart and seals repaired	
8	and replaced.	
9	MR. WEBSTER: Oh, okay.	
10	MR. DUNN: So that's happened	
11	with bolted casks but not for a	
12	welded cask, no.	
13	MR. WEBSTER: Okay. But	
14	that's a pos you can do that,	
15	right? If you had a problem with	
16	the welded cask, could you	
17	MR. DUNN: The Certificate of	
18	Compliance holder in their safety	
19	analysis report, they have to have a	
20	procedure for reopening that cask	
21	and re-flooding and reopening	
22	that cask if the need ever arises,	
23	so that's already in the safe	
24	COC safety evaluation or safety	
25	analysis report. And the there	

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1	Joint Meeting IPCTF and IPDOB	
2	are different vendors, like Holtec,	
3	has developed different types of	
4	inspection and mitigation, you know,	
5	methods for their systems.	
6	MR. WEBSTER: Right. But	
7	what happens when the spent fuel	
8	pools are no longer there?	
9	MR. DUNN: Well then, you	
10	don't have that as an option. So	
11	you have to do something like what	
12	Holtec has developed for an in situ	
13	mitigation method.	
14	MR. WEBSTER: What does that	
15	mean? I mean	
16	MR. DUNN: So you'd have to	
17	have some type of repair that's done	
18	on the canister because you don't	
19	you're not you don't have a pool,	
20	so you can't unload the fuel at the	
21	site so you would have to do a	
22	repair on the canister.	
23	MR. WEBSTER: Is that	
24	so is there an inherent assumption	
25	that that's always possible?	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. DUNN: Is there what	
3	do you mean?	
4	MR. WEBSTER: I mean, you're	
5	assuming that's always possible;	
6	you're saying it's impossible that	
7	there's not a fault that would	
8	require reloading?	
9	MR. DUNN: Of a canister?	
10	MR. WEBSTER: Yeah.	
11	MR. DUNN: Our operating	
12	experience says no; we haven't had	
13	that as something that's been an	
14	issue but and there are there	
15	are methods to do in situ types of	
16	repairs if the need arises.	
17	MR. WEBSTER: Right. I know	
18	that, but what I'm asking you is,	
19	you just said that for the bolted	
20	canisters, some of them had to be	
21	reloaded.	
22	Let me ask you this question	
23	more as a why. Why isn't that a	
24	possibility with the multipurpose	
25	canisters?	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. DUNN: Because you don't	
3	have the same it's not the same	
4	type of system. It's a	
5	corrosion-resistent canister.	
6	What happened on the bolted	
7	cask was you had a seal that	
8	was a that was an	
9	alluminium-coated seal that was in	
10	between two stainless steel weld	
11	overlay surfaces, and that was a	
12	galvanic corrosion problem. You	
13	don't have that issue for a welded	
14	stainless canister.	
15	MR. WEBSTER: Okay. And then	
16	the last thing I want to ask on	
17	this, because I know Tom wants to	
18	move ahead, is what about my	
19	understanding is that these	
20	canisters when they're loaded, that	
21	there's a limit on the amount of	
22	decay heat that's allowed in each	
23	canister.	
24	MR. DUNN: Yes.	
25	MR. WEBSTER: So when you	

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1	Joint Meeting IPCTF and IPDOB	
2	have different types of fuel, you	
3	make allowance for the amount of	
4	decay heat. Can you just talk a	
5	little bit about how that's done and	
6	why decay heat is an important	
7	parameter.	
8	MR. DUNN: So why the decay	
9	heat is important is because we have	
10	a we have a maximum fuel cladding	
11	temperature limit.	
12	MR. WEBSTER: Right. But why?	
13	MR. DUNN: Because we don't	
14	want the cladding to be degraded	
15	during a loading or drying	
16	operation. We want that cladding	
17	to be it is a regulatory	
18	requirement that you cannot damage	
19	the cladding.	
20	MR. WEBSTER: Okay.	
21	MR. DUNN: So that's why	
22	decay heat is important.	
23	THE CHAIR: Thank you.	
24	So I'd like to allow Sandy to	
25	ask her question.	

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1	Joint Meeting IPCTF and IPDOB	
2	Are any other DOB members	
3	looking to do a question now? We	
4	will also have opportunity after the	
5	DOE presentation for further	
6	exchange and NRC will still be here	
7	at that time. So this isn't our	
8	last chance.	
9	But Sandy?	
10	MS. GALEF: So this is not	
11	so technical.	
12	Emergency Planning. I think	
13	you've given approval for everybody	
14	who asked for an exemption; is that	
15	right?	
16	MR. DIMITRIADIS: I think	
17	that's correct.	
18	MS. GALEF: Right. Has	
19	MR. DIMITRIADIS: For a	
20	I'm sorry. For a shutdown	
21	decommissioning reactor, yes.	
22	MS. GALEF: Right. Has	
23	any have any other plants had a	
24	gas pipeline going through their	
25	plant?	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. DIMITRIADIS: I don't	
3	know the answer to that.	
4	MS. GALEF: I think the	
5	answer may be no.	
6	MR. DIMITRIADIS: Well,	
7	you're asking have we from	
8	MS. GALEF: Yes.	
9	MR. DIMITRIADIS: I would ask	
10	if Mike Norris could if he knows,	
11	he may not know, but you're asking	
12	about all of the United States,	
13	right? I just don't know.	
14	MS. GALEF: I'm talking about	
15	the whole United States, yeah. Is	
16	there any other plant that has a gas	
17	pipeline going through it?	
18	THE CHAIR: And Dave	
19	Lochbaum	
20	MS. GALEF: Several gas	
21	pipelines.	
22	THE CHAIR: Dave Lochbaum has	
23	researched the issue as well. Dave,	
24	if you want to speak up.	
25	MR. LOCHBAUM: Yeah, Fort	

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1	Joint Meeting IPCTF and IPDOB	
2	St. Vrain in Colorado has a number	
3	of gas pipelines, I think within 400	
4	yards of the ISFSI. Even though	
5	it's an operating plant, Waterford	
6	also, I believe has gas pipelines	
7	crossing the site property.	
8	MS. GALEF: Okay, so you are	
9	saying that there are other plants.	
10	MR. LOCHBAUM: There are.	
11	MS. GALEF: There are, okay.	
12	Just, you know, two quick	
13	things. You know, the school	
14	district lost a lot of money, the	
15	community lost a lot of money with	
16	Indian Point closing, and so we're	
17	trying to figure out ways to access	
18	more funds for the community, one of	
19	which now we can access the spent	
20	fuel pool and we can assess the dry	
21	cask.	
22	What other com what have	
23	other communities done to be able to	
24	reap some revenues in lieu of all	
25	the revenues that they have lost	

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1	Joint Meeting IPCTF and IPDOB	
2	over time?	
3	MR. DIMITRIADIS: I'm afraid	
4	I don't know the answer to that. I	
5	don't.	
6	MS. GALEF: No?	
7	MR. DIMITRIADIS: Yeah.	
8	MS. GALEF: Okay.	
9	MR. DIMITRIADIS: And I'm	
10	sorry that that's happening to the	
11	local community. It's one of the,	
12	you know, negative things that come	
13	with the closing of a nuclear power	
14	plant.	
15	MS. GALEF: Maybe somebody	
16	can get back to me with some idea of	
17	ways. I don't know who there is on	
18	your staff that might have found	
19	that out.	
20	The other is, do you have any	
21	news for us about spent fuel rods	
22	going and dry casks going any other	
23	place? Do you have any up-to-date	
24	news?	
25	MR. DIMITRIADIS: I'm sorry.	

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1	Joint Meeting IPCTF and IPDOB	
2	Like where? When you say other,	
3	like transport?	
4	MS. GALEF: I don't know. We	
5	have been hearing about New Mexico.	
6	We've been hearing about Texas.	
7	MR. DIMITRIADIS: Oh, you	
8	mean interim storage	
9	MS. GALEF: Yes.	
10	MR. DIMITRIADIS: as	
11	opposed to storing it onsite?	
12	MS. GALEF: Yes.	
13	MR. DIMITRIADIS: There are	
14	some applications within the NRC	
15	that are being considered right now	
16	for what's called a centralized	
17	interim storage facility, I think in	
18	New Mexico, like you said. It	
19	sounds like you know more than I do	
20	about it, but I don't know the	
21	status of those applications and	
22	their approval processes.	
23	MS. GALEF: All right.	
24	Maybe somebody else could maybe	
25	there's somebody else that might	

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1	Joint Meeting IPCTF and IPDOB	
2	give us some information.	
3	MR. SHEEHAN: Good evening,	
4	everyone. Neil Sheehan, NRC Public	
5	Affairs.	
6	So we have approved the	
7	application for the interim	
8	repository proposed for Texas.	
9	There's litigation involved with	
10	that. We have not yet approved the	
11	Holtec interim repository	
12	application for New Mexico. It's	
13	still under review. We expect to	
14	issue a decision possibly in	
15	February of next year.	
16	MS. GALEF: Okay. Will	
17	Indian Point, those three plants	
18	get priority for the moving the	
19	spent fuel?	
20	MR. SHEEHAN: Our colleagues	
21	from DOE might be able to answer	
22	that one. They're up next.	
23	SPEAKER: That's next.	
24	THE CHAIR: Save that one for the	
25	Q and A there.	

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1	Joint Meeting IPCTF and IPDOB	
2	Thank you, Sandy.	
3	MS. GALEF: I think I have	
4	the answer for that but I was just	
5	checking it out.	
6	THE CHAIR: Susan, did you	
7	have a question?	
8	MS. SPEAR: Yes.	
9	MS. GALEF: Oh, here you go.	
10	You're going to need it.	
11	THE CHAIR: Share.	
12	MS. SPEAR: Need a lot of	
13	microphones.	
14	So just to follow-up on the	
15	question about the New Mexico	
16	application. So, do you have a	
17	sense of the timeline once the	
18	application is approved as to when	
19	the fuel would start to move	
20	offsite?	
21	MR. SHEEHAN: I'm reluctant	
22	to put our DOE colleagues on the	
23	spot again but they would probably	
24	be in a better position to answer	
25	that and, in fact, that's why they	

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1	Joint Meeting IPCTF and IPDOB	
2	were here recently, to look at that	
3	very topic. And you're going to	
4	hear a lot about it during their	
5	presentation.	
6	MS. SPEAR: Okay, we'll wait.	
7	Are they responsible for the	
8	next steps after the NRC's license	
9	approval?	
10	MR. SHEEHAN: You're talking	
11	about with respect to the interim	
12	repository.	
13	MS. SPEAR: Interim storage.	
14	MR. SHEEHAN: application?	
15	MS. SPEAR: Interim storage,	
16	yes.	
17	MR. SHEEHAN: NRC approves	
18	licenses, these the interim	
19	storage facilities. DOE's	
20	responsible well, they're going	
21	to be getting into details. I	
22	really hate to jump ahead of their	
23	presentation.	
24	MR. WEBSTER: Neil, could you	
25	say the effect of litigation? So if	

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1	Joint Meeting IPCTF and IPDOB	
2	somebody challenges a license	
3	approval, which is an NRC approval,	
4	does that put it on hold or does	
5	that or does the repository	
6	become operational or under	
7	construction while litigation goes	
8	on.	
9	MR. SHEEHAN: I don't want to	
10	speak for any legal matters, so as	
11	far as	
12	(Laughter)	
13	MR. SHEEHAN: No. As far as	
14	where it stands. It is before the	
15	D.C. Circuit Court of Appeals	
16	MR. WEBSTER: Right.	
17	MR. SHEEHAN: In fact we	
18	MR. WEBSTER: I understand	
19	that.	
20	MR. SHEEHAN: Right.	
21	MR. WEBSTER: I'm not	
22	asking I'm not asking you to	
23	comment on legal matters. I'm	
24	asking, what is the effect?	
25	MR. SHEEHAN: Right.	

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1	Joint Meeting IPCTF and IPDOB	
2	THE CHAIR: Was there an	
3	injunction? Was it was there an	
4	injunction by the court during the	
5	litigation?	
6	MR. WEBSTER: I don't think	
7	so.	
8	MR. SHEEHAN: Not at this	
9	point. Not at this point.	
10	MR. WEBSTER: But what was	
11	the effect? I mean, does that mean	
12	that the licensee as far as the	
13	NRC's concerned, does the licensee	
14	have the ability to act as though	
15	it's a licensed?	
16	MR. SHEEHAN: I mean, they	
17	are not going to proceed until they	
18	get approval you know, the	
19	approval right now.	
20	MR. WEBSTER: Right.	
21	MR. SHEEHAN: So it's before	
22	the court.	
23	MR. WEBSTER: They have an	
24	approval.	
25	MR. SHEEHAN: They have the	

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1	Joint Meeting IPCTF and IPDOB	
2	approval from the NCR.	
3	THE CHAIR: Right.	
4	MR. SHEEHAN: It's being	
5	litigated.	
6	THE CHAIR: But they're	
7	waiting for the litigation to	
8	proceed	
9	MR. SHEEHAN: Yes.	
10	THE CHAIR: it sounds	
11	like.	
12	Okay. Thanks, Neil. I'd	
13	like	
14	MS. SPEAR: Can I just ask	
15	one more question? I'm sorry.	
16	THE CHAIR: Okay. Go ahead.	
17	MS. SPEAR: You said the	
18	onsite inspection program was	
19	robust. Can you tell us the	
20	frequency of onsite inspections?	
21	MR. DIMITRIADIS: Sure.	
22	THE CHAIR: Good question.	
23	MS. DeBOER: So can you	
24	hear me?	
25	THE CHAIR: Yes.	

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1	Joint Meeting IPCTF and IPDOB	
2	MS. DeBOER: Okay. So, we	
3	inspect the dry runs and then we	
4	inspect the initial loading into a	
5	canister. And, for Indian Point	
6	specifically, right now they're in a	
7	continuous offloading campaign. So	
8	we're there once a quarter. I was	
9	there in September and November.	
10	I'll be back in first quarter. And	
11	then once the all the fuel is on	
12	the pad, we'll be there once every	
13	three years.	
14	MS. SPEAR: Thank you.	
15	MS. DeBOER: You're welcome.	
16	MR. DIMITRIADIS: We also do	
17	the it's I can't stress this	
18	enough. We look at the dry runs for	
19	the reason for watching the licensee	
20	or their contractors do the work	
21	onsite without the fuel, and they	
22	go, just like they do with fuel,	
23	very slowly, very methodically;	
24	they're very careful about how they	
25	do this, 'cause they're dealing with	

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1	Joint Meeting IPCTF and IPDOB	
2	spent fuel. And we're there to	
3	watch the dry run and we're also	
4	there to watch the first loading.	
5	Of course, Indian Point, has been	
6	doing this for in the past, but	
7	also they since they've had spent	
8	fuel canisters onsite. But now	
9	we've been watching them do this on	
10	a quarterly basis.	
11	MS. SPEAR: Okay.	
12	THE CHAIR: Okay, thank you.	
13	Because some of the questions	
14	that popped up were for DOE, I'd	
15	like to allow for DOE to get their	
16	presentation on the table and then	
17	have them be part of the mix for the	
18	continuing Q&A that will follow.	
19	So at this time, next slide,	
20	please. Yeah, thank you.	
21	I'd like to call on Erica	
22	Bickford and Steven Maheras to begin	
23	their presentation from the DOE.	
24	Thank you for being with us.	
25	MS. BICKFORD: Can everyone	

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1	Joint Meeting IPCTF and IPDOB	
2	hear us?	
3	Thank you, everyone, for	
4	inviting us to speak today. My name	
5	is Erica Bickford. I'm the Acting	
6	Director of the Office of Integrated	
7	Waste Management and the Office of	
8	Nuclear Energy at the Department of	
9	Energy.	
10	I'm going to be speaking	
11	today about our program	
12	SPEAKER: Seventy-five	
13	thousand dollar award	
14	MS. BICKFORD: which our	
15	program is the Office of Integrated	
16	Waste Management. I'm gonna talk	
17	about our plans for a consent-based	
18	setting for a federal consolidated	
19	interim storage facility as well as	
20	our transportation planning, and	
21	then I'll hand it over to my	
22	colleague, Steve Maheras, who will	
23	talk about our nuclear power plant	
24	infrastructure valuation to support	
25	moving the spent nuclear fuel	

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1	Joint Meeting IPCTF and IPDOB	
2	offsite and the findings that we	
3	observed from our site visit to	
4	Indian Point this summer.	
5	Next slide, please.	
6	The department has contracts	
7	with utilities to inspect the spent	
8	nuclear fuel. This is our standard	
9	contract disclaimer, just we may	
10	discuss a variety of topics during	
11	today's meeting; however, that	
12	doesn't change the terms of that	
13	contract.	
14	Next slide, please.	
15	All right. So the mission of	
16	the Office of Integrated Waste	
17	Management is currently to implement	
18	federal interim storage for	
19	commercial spent nuclear fuel	
20	following a consent-based siting	
21	process. We heard some questions	
22	during the previous session about	
23	NRC licensing other interim storage	
24	facilities in Texas and New Mexico,	
25	and just to be clear, the	

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1	Joint Meeting IPCTF and IPDOB	
2	authorization the department has	
3	from Congress is specific to federal	
4	interim storage and is specific to	
5	consent-based siting. So those two	
6	other companies that are seeking	
7	licenses from the NRC for their own	
8	private interim storage facilities	
9	would be separate from what the	
10	department is pursuing at this time.	
11	Next slide please.	
12	All right. And so you will	
13	notice that mission statement	
14	doesn't currently include disposal,	
15	and that is because we're currently	
16	authorized by Congress to pursue	
17	interim storage and only interim	
18	storage. We certainly hope, it's	
19	our expectation that in the future	
20	we can	
21	THE CHAIR: Excuse me, Erica.	
22	If you could please pause for a	
23	moment.	
24	MS. BICKFORD: Sure.	
25	THE CHAIR: I think we're	

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1	Joint Meeting IPCTF and IPDOB	
2	having some	
3	AUDIENCE SPEAKER: We're	
4	having a hard time. Could you speak	
5	slower.	
6	AUDIENCE SPEAKER: There's	
7	like an echo.	
8	AUDIENCE SPEAKER: That might	
9	help.	
10	THE CHAIR: There's a slight	
11	echo, and so I think if you slow	
12	down just a little bit it'll be a	
13	little better for the audience here	
14	in person.	
15	MS. BICKFORD: Okay.	
16	THE CHAIR: Thank you.	
17	MS. BICKFORD: How am I	
18	how am I sounding now?	
19	AUDIENCE SPEAKER: We can't	
20	tell.	
21	AUDIENCE SPEAKER:	
22	(Inaudible).	
23	THE CHAIR: That's a little	
24	better, but so if you could just,	
25	yeah, do your best to keep it	

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1	Joint Meeting IPCTF and IPDOB	
2	slow-paced, that way it will be less	
3	of an impact on the echo.	
4	MS. BICKFORD: Okay. So we	
5	are, as I mentioned, we're focusing	
6	on interim storage at this stage	
7	because that's what we're authorized	
8	to focus on, but we do have the	
9	expectation that we will be	
10	hopefully authorized to pursue	
11	consent-based siting for disposal	
12	facilities as well.	
13	But in the near term,	
14	pursuing federal interim storage	
15	will allow us to remove the spent	
16	nuclear fuel from the nuclear power	
17	plant sites, including sites like	
18	Indian Point, provide us with some	
19	opportunities for research on the	
20	long-term management of spent	
21	nuclear fuel, hopefully build public	
22	trust and confidence in the DOE's	
23	ability to fulfill it's obligation	
24	to accept this spent nuclear fuel	
25	material, as well as begin	
1		

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1	Joint Meeting IPCTF and IPDOB	
2	addressing taxpayer liabilities. To	
3	date, due to a partial breach of	
4	contract by the department to begin	
5	accepting the fuel in the 1998,	
6	about \$9 billion in taxpayer money	
7	has been paid out to settle those	
8	contract disputes. So this is an	
9	important issue for really all	
10	taxpayers to care about addressing	
11	our spent nuclear fuel.	
12	Next slide, please.	
13	We are pursuing a	
14	consent-based process for siting	
15	federal interim storage facilities.	
16	And this was authorized by Congress,	
17	recommended by Congress to use a	
18	consent-based siting process. The	
19	term "consent-based siting"	
20	originated from a Blue Ribbon	
21	Commission on America's Nuclear	
22	Future Final Report that was done	
23	back in 2012 and recommended that	
24	the U.S. pursue a consent-based	
25	approach for siting nuclear waste	

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1	Joint Meeting IPCTF and IPDOB	
2	storage and disposal facilities, so	
3	we are enacting that recommendation.	
4	Compared to past facility siting	
5	efforts, consent-based siting is	
6	intended to be more of a bottom up	
7	process, focusing on communities and	
8	their concerns and needs.	
9	There's been many different	
10	approaches taken in the U.S. and	
11	internationally. We think at this	
12	point in time, a consent-based	
13	approach that accounts for community	
14	well-being and their needs is really	
15	the right approach to take at this	
16	point in time and our best chance	
17	for success.	
18	Next slide please.	
19	All right. So the department	
20	had done some work on consent-based	
21	siting in the 2015 to 2017 time	
22	period and then we had a policy	
23	change, and then fast forwards to	
24	2021 and we have another policy	
25	change. And so, this iteration of	

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1	Joint Meeting IPCTF and IPDOB	
2	consent-based siting formally kicked	
3	off just about a year ago with	
4	issuance of a federal register	
5	notice with a request for	
6	information, and the reason we did	
7	this was we collected a lot of	
8	public input in the 2015 to 2017	
9	time period, but since it had been,	
10	you know, four years or so since we	
11	had last engaged, we wanted to	
12	provide an opportunity to seek	
13	additional input or feedback and	
14	understand whether the feedback or	
15	input we received several years	
16	prior was sort of still the status	
17	or still the opinions of the people	
18	and organizations that provided it	
19	or whether anything had changed in	
20	the interim.	
21	We also focused this RFI on	
22	the consent-based siting process	
23	itself, how to conduct that process,	
24	how we engage broader range of the	
25	public than maybe past efforts had,	

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1	Joint Meeting IPCTF and IPDOB	
2	as well as incorporating issues of	
3	equity and environmental justice	
4	into this process.	
5	Next slide, please.	
6	We received around 225	
7	comments from a wide variety of	
8	entities, tribal and state	
9	governments or organizations, local	
10	governments, nongovernmental	
11	organizations or nonprofits,	
12	industry, academia and others. We	
13	compiled the information that we	
14	received into a summary report that	
15	we've published on our website in	
16	September. You can see the cover	
17	page here on the side. You can go	
18	to our website	
19	energy.gov/consentbasedsiting. We	
20	published all of the original	
21	comments we received, as well as in	
22	the order of about 1700 pages to	
23	with any sens you know, any	
24	contact information redacted but	
25	you can see all of the original	

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1	Joint Meeting IPCTF and IPDOB	
2	comments if you'd like as well as	
3	access this summary.	
4	Next slide, please.	
5	So some of the feedback that	
6	we've received through this recent	
7	RFI, as well as in the past, was	
8	that in order to conduct meaningful	
9	engagement with the public and state	
10	governments and tribal governments	
11	and others, the department need to	
12	provide resources, and to enable	
13	that meaningful engagement to occur.	
14	So we took that feedback and then in	
15	September the department issued a	
16	funding opportunity announcement,	
17	\$16 million dollars total. The	
18	focus of this funding opportunity is	
19	to support public engagement, broad	
20	public engagement. We plan to make	
21	around six or eight awards and for	
22	those rewards to have a period of	
23	performance of up to two years. To	
24	be clear, we are not yet asking for	
25	communities to volunteer to be	

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1	Joint Mooting IDCTE and IDDOR	100
	Joint Meeting IPCTF and IPDOB	
2	considered to host a federal interim	
3	storage facility; that will be a	
4	later part of the process. Our goal	
5	is to identify willing and informed	
6	host communities that eventually	
7	will enter into an agreement to host	
8	a federal facility, one or more	
9	federal facilities, and we	
10	understand that we need to spend	
11	some time working on that	
12	information exchange so that we can	
13	get to the point where communities	
14	do feel like they have enough	
15	information to make a decision about	
16	whether they do want to pursue this	
17	or whether they don't want to pursue	
18	this. Either outcome for us is	
19	considered a success of the process.	
20	So early phases of our	
21	consent-based siting process is	
22	going to focus on mutual learning,	
23	information exchange, outreach and	
24	just building national capacity to	
25	understand issues related to spent	

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1	Joint Meeting IPCTF and IPDOB	
2	nuclear fuel management and nuclear	
3	technology and nuclear waste storage	
4	and disposal.	
5	And we plan to make those	
6	awards this spring. We actually	
7	just announced today that in	
8	response to several requests we	
9	received to extend the due date for	
10	those applications, they were	
11	originally due December 19th, we	
12	have extended that due date until	
13	the end of January to accommodate	
14	those requests that we receive, and	
15	so, we to then place those awards	
16	next spring and begin engaging with	
17	the awardees at that time.	
18	Next slide, please.	
19	All right. So this, our	
20	consent-based siting process is	
21	phased and adaptive. We'll be	
22	incorporating feedback and new	
23	information we receive as we go, and	
24	it will inform next steps. Our	
25		

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1	Joint Meeting IPCTF and IPDOB	
2	current near-term objectives are to	
3	further develop the consent-based	
4	siting process. We had issued a	
5	draft consent-based process in 2017.	
6	We've been incorporating additional	
7	information and hope to release an	
8	updated version of that quite soon.	
9	We'll be making those awards, those	
10	will be cooperative agreement awards	
11	from the funding opportunity	
12	announcement and begin engaging with	
13	those awardees and getting input	
14	from their processes. And we'll	
15	also be clarifying our broader	
16	strategy for an integrated waste	
17	management system, and by that I mean	
18	an overall system that includes	
19	storage, disposal, transportation, as	
20	well as the interfaces between each	
21	of those components. And you'll note	
22	there that I do include disposal as	
23	part of the overall integrated waste	
24	management system. While we're not	
25	pursuing any siting	

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1	Joint Meeting IPCTF and IPDOB	
2	for disposal at this time, we still	
3	recognize it as part of that system	
4	that we need to eventually	
5	implement.	
6	Next slide, please.	
7	We have a number of	
8	activities that we're also working	
9	on in parallel. We especially want	
10	to address societal challenges.	
11	We've incorporated a bunch of social	
12	scientists at the federal level and	
13	at our national laboratory levels to	
14	support that component of our	
15	program and help us design a better	
16	process for consent-based siting and	
17	outreach and engagement and how we	
18	incorporate feedback that we get.	
19	We're gonna continue talking	
20	about the need for a disposal	
21	pathway. We, of course, conduct	
22	research and development to support	
23	eventual disposal options but need	
24	to make sure that that's front of	
25	mind, that we're not overlooking the	

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		104
1	Joint Meeting IPCTF and IPDOB	
2	need for a disposal option while we	
3	pursue interim storage.	
4	We continue to do research on	
5	extended storage of spent nuclear	
6	fuel. We're now starting to	
7	consider questions related to	
8	managing spent nuclear fuel that may	
9	be produced from future advanced	
10	reactors that may look quite	
11	different from the types of reactors	
12	that we currently have. So we're	
13	starting to take a look at that and	
14	working with reactor design	
15	companies & collecting information.	
16	And then, any nuclear waste	
17	program is multi-decadal if not a	
18	centennial length program. We have	
19	certainly had, you know, folks	
20	who've been around; I actually have	
21	a colleague who's retiring this	
22	month who's been working for the	
23	federal government for 43 years.	
24	So we have a lot of folks who are	
25	reaching retirement age and heading	
	<u></u>	

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1	Joint Meeting IPCTF and IPDOB	
2	off to hopefully, you know, better	
3	and brighter things, but we want to	
4	make sure that we're retaining as	
5	much of that expertise and knowledge	
6	as they go so that as we bring new	
7	people into the program, we can be	
8	disseminating that historical	
9	knowledge and that great information	
10	and not losing it.	
11	Next slide, please.	
12	And if you want to stay	
13	up-to-date on our consent-based	
14	siting activities, we do have an	
15	email Listserve. You can go to	
16	energy.gov/consentbasedsiting,	
17	scroll down to the bottom of the	
18	page and you can enter an email	
19	address there. It's not a high	
20	volume of emails. It's on the order	
21	of one to two a month. We'll we	
22	issue announcements, like today's	
23	announcement that went out through	
24	that Listserve, that we extended a	
25	deadline to the funding opportunity	

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1	Joint Meeting IPCTF and IPDOB	
2	announcement, applications, and if	
3	we publish new documents and things	
4	like that we announce it through	
5	that mechanism as well.	
6	Next slide, please.	
7	Quickly, I wanted to cover a	
8	little bit about our plans for	
9	transporting spent nuclear fuel from	
10	the nuclear power plant sites when	
11	we do have that federal interim	
12	storage facility available to	
13	receive them. We have a number of	
14	activities, and these are not fresh	
15	activities that we're starting brand	
16	new. This really builds on a lot of	
17	historical work that's been done	
18	from prior programs at the	
19	departments, our partners at the	
20	U.S. Navy that transport spent	
21	nuclear fuel, and many lessons	
22	learned from domestically and	
23	abroad.	
24	But just to kinda paint the	
25	picture of what the spent nuclear	

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1	Joint Meeting IPCTF and IPDOB	
2	fuel transportation system looks	
3	like, here's a map of U.S. showing	
4	where all the reactors are. We've	
5	got about 74 different commercial	
6	reactor sites, 20 of which are shut	
7	down, like Indian Point. Eventually	
8	we'll need to remove the spent	
9	nuclear fuel from all of them to as	
10	yet determined destinations, but	
11	just based on the scale of the size	
12	of the country and the number of	
13	facilities that we'll be	
14	transporting from, this is gonna be	
15	a large scale, spent nuclear fuel	
16	transportation operation. So just	
17	to kinda paint a picture in your	
18	mind of what this could look like.	
19	Next slide, please.	
20	And also, just to give you	
21	another visual, the photo on the	
22	right shows what spent nuclear fuel	
23	will look like in transportation on	
24	railcars. We are planning to	
25	primarily use rail transport to move	

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1	Joint Meeting IPCTF and IPDOB	
2	spent nuclear fuel due to the size	
3	and weight of these packages.	
4	They'll look very much like this	
5	with some variations in size and the	
6	type of cradle, the blue thing is	
7	called a cradle, and how they	
8	connect to a railcar, but it's all	
9	variations on a theme.	
10	And so, a number of the	
11	activities that we are pursuing to	
12	be prepared to transport spent	
13	nuclear fuel when that federal	
14	interim storage facility becomes	
15	available is developing specialty	
16	railcars, a number of computational	
17	tools for engaging state and tribal	
18	government partners to develop	
19	planning. We're plan hoping to	
20	conduct a package performance test	
21	to build public trust and confidence	
22	in the safety of the transport of	
23	this material, and we're also	
24	looking at site-specific histories	
25	and the onsite and near-site	

		1
		109
1	Joint Meeting IPCTF and IPDOB	
2	infrastructure conditions that we'll	
3	need to account for to eventually	
4	remove the spent nuclear fuel, and	
5	that's what Steve Maheras is gonna	
6	talk about next.	
7	Next slide, please.	
8	All right. So in North	
9	America, the Association of American	
10	Railroads is the standard-setting	
11	organization for freight rail. It's	
12	a longstanding organization and they	
13	have a standard S-2043, which is	
14	specific to designing railcars for	
15	transporting high level radioactive	
16	material. The U.S. Navy was the	
17	first entity to design a railcar	
18	meeting this standard, and it took	
19	them about ten years to do it. It's	
20	a very rigorous standard that has	
21	many testing requirements and very	
22	finite parameters that you have to	
23	meet.	
24	So following their lead, we	
25	began in 2014 to look at developing	

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1	Joint Meeting IPCTF and IPDOB	
2	specialty railcars for transport of	
3	commercial spent nuclear fuel. The	
4	Atlas railcar, which is pictured on	
5	the top left here, is our 12-axle	
6	railcar that's designed to carry	
7	spent nuclear fuel casks. It has	
8	been designed, fabricated and	
9	finished its first round of	
10	single-car testing. It will have to	
11	go through multiple-car testing and	
12	demonstration runs in order to be	
13	approved for use in the commercial	
14	rail network.	
15	In addition, we've designed	
16	an 8-axle cask carrying railcar that	
17	has had an approved design, and	
18	we've entered into a contract this	
19	summer for fabrication and testing	
20	of that railcar. And we have a rail	
21	escort vehicle that we collaborated	
22	on with the U.S. Navy in the design.	
23	Again the U.S. Navy transports spent	
24	nuclear fuel from their the	
25	nuclear Navy fleet. They were in	

		111
1	Joint Meeting IPCTF and IPDOB	
2	the process of designing a new rail	
3	escort vehicle to meet this	
4	S-2043 standard, so we were able to	
5	partner with them and we have	
6	we're using the exact same design.	
7	Their rail escort vehicle looks just	
8	like this picture in the lower left	
9	but theirs is blue and ours is gray.	
10	And we are developing an	
11	integrated safety and security	
12	monitoring system for these railcars	
13	that will include safety monitoring	
14	of different 11 different	
15	parameters on the railcar, things	
16	like ball bearing temperatures,	
17	vertical, horizontal and lateral	
18	acceleration, other parameters,	
19	things called truck hunting, which	
20	may be of interest if you're a rail	
21	aficionado, and things of that	
22	nature as well as the security	
23	component. These shipments will	
24	travel with armed guards for each	
25	shipment.	

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1	Joint Meeting IPCTF and IPDOB	
2	Next slide, please.	
3	Oh one of our computation	
4	tools that we've developed is called	
5	the Stakeholder Tool for Assessing	
6	Radioactive Transportation or START.	
7	It's a web GIS-based tool that	
8	allows us to visualize a number of	
9	geospatial data. So, for example,	
10	rail networks, highway networks,	
11	waterway networks, the location of	
12	nuclear power plants, locations of	
13	emergency response assets, so fire	
14	departments, police, hospitals.	
15	It's a very useful tool for our own	
16	analysis, systems analysis purposes	
17	so we can look at what you know	
18	different questions about how many	
19	railcars we think we may need to	
20	have and what the transport rate we	
21	think of the system and how much	
22	fuel we'll be able to transport each	
23	year. But we also use it to engage	
24	with our state and travel partners	
25	to discuss questions related to	

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1	Joint Meeting IPCTF and IPDOB	
2	preparedness, how to train along the	
3	route, identify gaps in training.	
4	The department has a	
5	Transportation Emergency	
6	Preparedness Program or TEP for it's	
7	shipments of radioactive material so	
8	we have included the TEP training	
9	data in there. We update that every	
10	six months. We also still clearly	
11	visualize where you might have a	
12	transportation route and whether	
13	people are testing along it or maybe	
14	that's for an area where we want to	
15	provide more resources for training.	
16	Next slide, please.	
17	We do a fair amount of	
18	intergovernmental engagement. This	
19	is a longstanding activity that goes	
20	back in the department to the 1990s	
21	and it's had kind of starts and	
22	stops in that time as well. We have	
23	been funding cooperative agreements	
24	with four state regional groups in	
25	the northeast. This is the Council of	
1		

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1	Joint Meeting IPCTF and IPDOB	
2	State Governments Eastern Regional	
3	Conference that operates a Committee	
4	of Northeast State Representatives.	
5	We also fund an entity to support	
6	engagement with federally recognized	
7	tribes. We have a subset of state	
8	and tribal government	
9	representatives that we engage with	
10	to our nuclear energy tribal core	
11	group or transportation core group,	
12	sorry.	
13	We coordinate quite a bit	
14	with our federal agency partners at	
15	the Nuclear Regulatory Commission,	
16	at the Department of Transportation,	
17	Department of Homeland Security and	
18	U.S. Coast Guard, Army Corps of	
19	Engineers. Any entity that may have	
20	a role or a regulatory authority	
21	that may intersect with our plans	
22	for transporting spent nuclear fuel	
23	we try to engage with.	
24	The department has a National	
25	Transportation Stakeholders forum at	

		115
1	Joint Meeting IPCTF and IPDOB	
2	the NTSF, which is the mechanism the	
3	department uses to communicate with	
4	states and tribes about	
5	transportation of radioactive	
6	material. That entity has	
7	(Technical difficulties)	
8	THE CHAIR: Erica, if you can	
9	hear us, your screen has frozen.	
10	MS. BICKFORD: with state	
11	and tribal government	
12	THE CHAIR: Oh, you're back.	
13	MS. BICKFORD: and that as	
14	well. If you want to learn more	
15	about entities, I put our new	
16	website on there as well ntsf.info.	
17	Next slide, please.	
18	In addition, under the NTSF,	
19	we operate or our program needs a	
20	number of ad hoc working groups.	
21	These are smaller groups comprised	
22	of state, federal and tribal	
23	government representatives to look	
24	at questions and issues related to	
25	spent nuclear fuel transport. So	

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1	Joint Meeting IPCTF and IPDOB	
2	whether it's railcar inspection	
3	protocols that we've been working on	
4	or identifying mechanisms for and	
5	procedures for providing technical	
6	assistance and training funds to	
7	states and tribes along future	
8	transportation routes. Those are	
9	some of the two main activities. We	
10	also engage with state and tribal	
11	government representatives in	
12	developing communications materials	
13	around our program as will.	
14	Next slide, please.	
15	And then the last item I'm	
16	going to mention is our plans to	
17	conduct a package performance test,	
18	and this would be for a full-sized	
19	rail cask. In the U.S. we have	
20	never done full scale package	
21	testing on a rail size cask of the	
22	size that we're planning to use.	
23	For future DOE transport of spent	
24	nuclear fuel, we've done scale model	
25	testing and a lot of computer	

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1	Joint Meeting IPCTF and IPDOB	
2	modeling testing which all meets	
3	regulations, but it has been	
4	recommended by various bodies,	
5	including the National Academy of	
6	Sciences and that Blue Ribbon	
7	Commission on America's Nuclear	
8	Future, that full scale package	
9	testing could be very beneficial in	
10	building public trust and confidence	
11	in the safety of spent fuel	
12	transport. And so, DOE's goal in	
13	conducting a package performance	
14	test would be to build that public	
15	trust and confidence and have	
16	avenues for public observation and	
17	involvement in those testing as the	
18	federal entity responsible for	
19	certifying those transportation	
20	packages, we would invite the	
21	Nuclear Regulatory Commission to	
22	participate in these activities as	
23	well.	
24	This is far from a certainty.	
25	This is high dollar activity.	

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1	Joint Meeting IPCTF and IPDOB	
2	Buying a transportation cask, a	
3	single transportation cask is going	
4	to be on the order of \$10 million,	
5	and then there's all the testing and	
6	other ancillary things that come	
7	with it. So we are we are	
8	advocating to get appropriations to	
9	support conducting this activity and	
10	hope to get that in the next few	
11	years and be able to conduct this	
12	work, which will probably be about a	
13	five-year time period from the time	
14	that we're you know, including	
15	procurement of casks and testing	
16	facilities and things like that. So	
17	this is something that may be of	
18	interest to you or your constituents	
19	in terms of the future transport of	
20	the spent nuclear fuel from Indian	
21	Point.	
22	Next up, I will hand it over	
23	to Steve Maheras to talk about our	
24	nuclear power plant infrastructure	
25	evaluations.	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. MAHERAS: Yes.	
3	MS. BICKFORD: Go ahead,	
4	Steve.	
5	MR. MAHERAS: Yes.	
6	Could you please go to the	
7	next slide please, to 19. Thank	
8	you.	
9	So I'm here to talk about the	
10	nuclear power plant site	
11	infrastructure evaluations that we	
12	do.	
13	Next, please.	
14	So, the purpose of these	
15	evaluations is to support the	
16	planning for the eventual removal of	
17	the spent fuel from NPP sites, and	
18	we do that by looking at the	
19	inventory at the site, the	
20	conditions at the site, and the	
21	near-site transportation	
22	infrastructure and the site's	
23	experience at transporting large,	
24	heavy loads both offsite and onsite	
25	because that can be the model for	

		120
1	Joint Meeting IPCTF and IPDOB	
2	how the spent fuel casks are moved	
3	offsite. We identify any gaps in	
4	information needed to ship the fuel	
5	from the sites and based upon	
6	available information, we identify	
7	options for transporting the fuel	
8	offsite.	
9	Now at this stage of the	
10	evaluations, we are all about the	
11	options. So we don't make any	
12	decisions on modes or routes or	
13	transport locations or anything like	
14	that. We present options that could	
15	be used in the future.	
16	Next, please.	
17	So, in terms of the actual	
18	evaluations of the sites, really the	
19	proof of the pudding is the site	
20	evaluations, where we actually put	
21	boots on the ground. So, when we do	
22	this, we confirm aspects of the	
23	inventories at the sites, we obtain	
24	detail data, and we obtain detailed	
25	information on loading maps. So we	

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1	Joint Meeting IPCTF and IPDOB	
2	have an idea of which specific spent	
3	fuel assemblies are stored in which	
4	specific canister in which specific	
5	location; and so, we can therefore	
6	do very detailed assessments of	
7	things like the dose rates from a	
8	cask. We can even determine ship by	
9	dates, so the date that a cask could	
10	be transported in the future. We	
11	also observe the transportation	
12	infrastructure at and near the	
13	sites, and the other thing is, it's	
14	not just the Department of Energy's	
15	show when we go off and do these	
16	evaluations of the sites.	
17	We have our tribal, other	
18	federal agencies and state partners.	
19	So it is not unusual for us to have	
20	a site visit that includes up to	
21	15 people. We'll have people from	
22	the FRA. We'll have people from the	
23	tribes. We'll have various people	
24	from the state agencies, all of	
25	whom contribute to the quality of	

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1	Joint Meeting IPCTF and IPDOB	
2	the site visit. And the information	
3	provided by the sites coupled with	
4	the opportunity to go to each one of	
5	these sites is critical to our	
6	understanding of the conditions at	
7	and near the site.	
8	Next please.	
9	So, one of the main things	
10	that we look at is the inventories	
11	at the sites. So, we have data	
12	bases available to us to describe	
13	the number of spent fuel assemblies	
14	at a site. We know the assembly	
15	I.D. and type, its discharge date,	
16	its burnup and its enrichment. We	
17	know the canisters that are used at	
18	the site. We try to obtain loading	
19	maps and logs et cetera, and we also	
20	look at storage features and	
21	conditions, such as the number of	
22	damaged fuel assemblies and the	
23	number of high burnup fuel	
24	assemblies that are at the site.	
25	Next slide, please.	

		123
1	Joint Meeting IPCTF and IPDOB	
2	In terms of site conditions,	
3	we look at the onsite transportation	
4	features, like the presence of	
5	onsite rail, onsite roads for heavy	
6	haul truck access and barge access.	
7	We also look at the presence of any	
8	onsite equipment to support	
9	transportation operations, such as	
10	transfer casks, cranes, and rigging.	
11	We also look at onsite staging areas	
12	that might be available for us to	
13	use.	
14	Some sites are very don't	
15	have much available in terms of	
16	staging areas and those are very	
17	tight sites to work at. They	
18	present issues because your space is	
19	so constrained. Other sites have	
20	gotten loads of room and they're	
21	much less constrained in terms of	
22	the space that you have to work in.	
23	Next slide please.	
24	We also look at the	
25	transportation infrastructure around	

		124
1	Joint Meeting IPCTF and IPDOB	
2	the site, and that helps us to	
3	evaluate the transportation mode	
4	options for the sites. We look at	
5	near-site rail access, the	
6	condition, the capacity of the rail	
7	infrastructure. If the site does	
8	not have direct rail access, we look	
9	at potential transport locations,	
10	and then we look at the sites	
11	experience with rail transport. We	
12	also look at local roads and	
13	highways, such as the distance to	
14	potential transport locations, i.e.,	
15	rail spurs or sidings. We look at	
16	the characteristics and the	
17	conditions of the road and the	
18	associated infrastructure. And we	
19	also look at the site's experience	
20	with heavy haul transport from the	
21	site.	
22	I'll give you an example. If	
23	you look over on the right-hand	
24	side, you see the low overhead	
25	bridge near the Big Rock Point site.	

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1	Joint Meeting IPCTF and IPDOB	
2	That bridge is 14-feet tall, so I	
3	cannot get a spent nuclear fuel cask	
4	underneath that bridge. So I will	
5	need to take another route to bypass	
6	this obstacle. That's just the kind	
7	of thing that we look at when we do	
8	our evaluations of the sites.	
9	We also look at barge access,	
10	the characteristics of onsite or	
11	nearby barge docks or slips. We	
12	also look at the site's experience	
13	with barge transport.	
14	Next slide please.	
15	In terms of the site's	
16	experience, we look at not only	
17	spent fuel casks that have been	
18	moved offsite, but we also look at	
19	various types of components that	
20	sites have shipped both to the sites	
21	or from the sites with the idea that	
22	loads of comparable weights to a	
23	spent nuclear fuel cask on the order	
24	of 300,000 pounds could provide the	
25	model for how the spent nuclear	

		126
1	Joint Meeting IPCTF and IPDOB	
2	fuel is moved from the site in the	
3	future.	
4	Next slide, please.	
5	So now I'm going to talk a	
6	little bit about the Indian Point	
7	evaluation that we did. We did this	
8	over we did this in July of this	
9	year. We had folks from the DOE,	
10	Pacific Northwest National Labs. We	
11	had folks from the tribes, TRMTC.	
12	We had folks from the FRA, the NRC,	
13	the CSG ERC, and then the New York	
14	State agencies had quite a presence.	
15	We had folks from the New York State	
16	Police.	
17	(Background noise)	
18	MR. MAHERAS: We had folks	
19	from Department of Public Service	
20	and then the Department of	
21	Transportation and also NYSERDA.	
22	So the visits are structured	
23	to be a three-day affair. The first	
24	day was spent onsite at Indian	
25	Point, where we look at things like	

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1	Joint Meeting IPCTF and IPDOB	
2	independent spent fuel storage	
3	installation. We also look at the	
4	roads that lead to that independent	
5	spent fuel storage installation. We	
6	look at the barge slips, anything	
7	that can help us understand how we	
8	might move fuel off that site in the	
9	future.	
10	Day No. 2 was looking at	
11	potential transport locations	
12	because the Indian Point site does	
13	not have direct access by rail. So	
14	we met with the Housatonic Railroad	
15	and we also attended an Indian Point	
16	DOB meeting in the evening.	
17	Day No. 3 was spent on	
18	external engagement. So we met in	
19	person with the Indian Point DOB and	
20	we had another meeting with the New	
21	York State Transportation staff to	
22	do a deeper dive on transportation	
23	issues that we were unable to do on	
24	Day No. 2.	
25	Next slide, please.	

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1	Joint Meeting IPCTF and IPDOB	
2	And so, here's an aerial view	
3	of the Indian Point site. You can	
4	see the Hudson River, you can see	
5	potential barge areas on the river,	
6	you can see the independent spent	
7	fuel storage installation, and then	
8	you can see Broadway, with its	
9	three associated entrances and	
10	exits from the site.	
11	Next slide please.	
12	So here's an aerial view of	
13	the independent spent fuel storage	
14	installation from 2020.	
15	Next slide, please.	
16	Here's a view from the	
17	independent spent field storage	
18	installation. In the slide on the	
19	left, I took the photo looking west	
20	towards the Hudson. On the slide	
21	on the right I took the picture	
22	looking north.	
23	Next slide please.	
24	So here's various equipment	
25	that is present at the site set as	

		129
1	Joint Meeting IPCTF and IPDOB	
2	the vertical cask transporter.	
3	Middle slide is just south of the	
4	barge area looking north up the	
5	Hudson. On the slide on the right,	
6	I'm looking west towards the Hudson	
7	on one of roads that could perhaps	
8	be used to get down to the barge	
9	area if barging is the way that is	
10	used to remove spent fuel from the	
11	site. But, as I said before, at	
12	this stage of the game we're all	
13	about options. We don't pick modes	
14	or routes.	
15	Next slide, please.	
16	So, we had a chance to look	
17	at eight potential trans load	
18	locations. That's just a place	
19	where a spent fuel cask would be	
20	moved from it's heavy haul truck,	
21	transporter to rail. So, we looked	
22	at eight sites. Some of these	
23	sites were very close to the Indian	
24	Point site; other ones were much	
25	further away from the Indian Point	

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1	Joint Meeting IPCTF and IPDOB	
2	site. Next slide please.	
3	This kinda gives you an	
4	overview of where these locations	
5	are. So we have the Hawleyville	
6	Road site; that's furthest site	
7	away, furthest over towards the	
8	right-hand side of the slide.	
9	Marching back to the site, we have	
10	the Segar Street site that we looked	
11	at, Agriventure Agway site, the	
12	State Line site, the Hopewell train	
13	yard. Then we look at, Lower South	
14	Street site and the Croton site.	
15	Then we drove further north and we	
16	looked at a location on the west	
17	bank of the Hudson. To get to this	
18	location we would have to cross the	
19	Newburgh Bridge.	
20	Next slide, please.	
21	So, here's the Hawleyville	
22	Road potential site.	
23	AUDIENCE SPEAKER: Do you	
24	want to go up (inaudible)?	
25	MR. MAHERAS: So the entrance	

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1	Joint Meeting IPCTF and IPDOB	
2	to the site you'll see in the middle	
3	photo, and to get into this site, we	
4	would have to take a hard right off	
5	of Hawleyville Road, and we'd have	
6	to bypass the transmission tower	
7	that's that you see on the left	
8	and still make the corner into the	
9	site where you see the train tracks	
10	on the right.	
11	The photo on the left is this	
12	site looking towards the southwest.	
13	The photo on the right shows one of	
14	our team and one of the members of	
15	the NRC looking at potential	
16	distances that we would have to	
17	transload the material at the site.	
18	The photo on the bottom left	
19	shows 131-pound rail. In our	
20	experience that is very heavy weight	
21	rail, more than adequate to support	
22	a spent nuclear fuel cask. At some	
23	locations we find 80-pound rail,	
24	which is much more of an issue when	
25	it comes to supporting large heavy	

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1	Joint Meeting IPCTF and IPDOB	
2	loads. The photo on the bottom	
3	right provides a view of Hawleyville	
4	Road looking north, and you can see	
5	the train tracks in the approximate	
6	middle of the photo.	
7	Next slide, please.	
8	So here is the Croton site.	
9	We're looking southeast in the	
10	picture on the left; we're looking	
11	northwest on the picture in the	
12	middle; and the picture in the	
13	right, I've walked a little bit	
14	further down the track, and you can	
15	see the various spurs that are	
16	available at this location.	
17	Next slide, please.	
18	So, here's a location on the	
19	west bank of the Hudson. The slide	
20	on the left is looking north, the	
21	photo on the right is this location	
22	looking south, and you can see that	
23	we have the beginnings of a spur on	
24	this particular line at this	
25	location.	

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1	Joint Meeting IPCTF and IPDOB	
2	Next slide, please.	
3	We also look at the presence	
4	of schools in the local area. So we	
5	drove out to Hendrick Hudson High	
6	School and Buchanon-Verplanck	
7	Elementary School. Hendrick Hudson	
8	High School is located about a mile	
9	from Broadway; that's the kinda	
10	pinkish line, and the elementary	
11	school is located about .6 miles	
12	from the Broadway.	
13	Next slide, please.	
14	We also looked at the lower	
15	South Street potential transload	
16	location. This is much, much	
17	closer to the site. The downside	
18	of this location is, is that it's	
19	more congested in this area. Also,	
20	this is a Metro North track, so	
21	they would have to agree to allow	
22	us to use that site and we wouldn't	
23	be able to conflict with the local	
24	the commuter traffic that uses	
25	this line.	

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1	Joint Meeting IPCTF and IPDOB	
2	Next slide, please.	
3	This gives a close-up view at	
4	this location. Here we're looking	
5	north, and you can see that we have	
6	double track in this area. The	
7	photo on the left is looking south	
8	and again, you can see we have	
9	double track in this area.	
10	Next slide, please.	
11	So, here's a summary of our	
12	transport mode options. We've been	
13	to 20 sites so far. The last site	
14	that we went to was Palisades back	
15	in October. The important thing	
16	about this particular graphic is	
17	that for all the sites that we've	
18	been to everybody has and option for	
19	the removal of fuel from the site.	
20	So there is no there is no	
21	stranded fuel in the United States.	
22	Everybody's got options for the	
23	removal of fuel from their sites.	
24	Some sites have got direct	
25	rail, some sites I would have to	

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1	Joint Meeting IPCTF and IPDOB	
2	barge to rail or heavy haul truck to	
3	rail. Some sites get a little more	
4	complicated, like Humboldt Bay,	
5	where we have heavy haul truck to	
6	barge to rail. For Indian Point we	
7	identified as options heavy haul	
8	truck to rail and barge to rail.	
9	Next slide please.	
10	With that I'll take anything	
11	that you'd all like to ask.	
12	THE CHAIR: Steve and Erica,	
13	thank you so much for the work that	
14	you're doing and for your thorough	
15	presentations.	
16	I think what's on a lot of	
17	community members' mind as they	
18	think about the potential transport	
19	of the fuel are a few things. One,	
20	what is the soonest practically	
21	speaking that we could consider the	
22	timing of the shipments of fuel out	
23	of this area?	
24	MS. BICKFORD: Thanks for the	
25	question. So in terms of being able	

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1	Joint Meeting IPCTF and IPDOB	
2	to transport the spent nuclear fuel	
3	from Indian Point to a federal	
4	interim storage facility, we're	
5	estimating that we could have a	
6	federal interim storage facility	
7	available sometime next decade.	
8	There is uncertainty there, not so	
9	much with the design, construction	
10	and licensing of the facility. We	
11	expect that to be in the range of	
12	five to seven, maybe ten years, but	
13	because we're pursuing a	
14	consent-based siting process, there	
15	is a fair amount of uncertainty in	
16	the time it will take to reach an	
17	agreement with a host community	
18	that has sufficient consent to give	
19	us confidence in the durability for	
20	the long term.	
21	We've seen historically in	
22	the U.S. you have a consent or	
23	approval or agreements over a short	
24	term but a few years later in some	
25	cases that has no longer been there.	

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1	Joint Meeting IPCTF and IPDOB	
2	So we want to make sure that when we	
3	do this, we do it in a way that it	
4	can be durable option for the time	
5	period that we need interim storage	
6	to operate for until we have a	
7	repository available to receive this	
8	material. But best, best estimate	
9	at this point, which is subject to a	
10	number of factors, is next decade.	
11	THE CHAIR: Thanks. Once the	
12	shipments start, how long would it	
13	take to get all the fuel off the	
14	site at a place like Indian Point	
15	given the amount of fuel?	
16	MS. BICKFORD: Good question.	
17	And it depends a little bit on the	
18	operations and sort of how any given	
19	site folds into an overall	
20	transportation system among, you	
21	know, the 70 different sites that	
22	may be shipping. I think we would	
23	expect that it could be as short as,	
24	you know, within a year or it could	
25	take several years depending on how	

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1	Joint Meeting IPCTF and IPDOB	
2	those operations are designed.	
3	THE CHAIR: Thanks. And this	
4	might be a question for Steve.	
5	MR. MAHERAS: Mm-hmm.	
6	THE CHAIR: In the site	
7	assessments, and looking at all the	
8	various infrastructure in the	
9	region	
10	MR. MAHERAS: Mm-hmm, right.	
11	THE CHAIR: one of the	
12	issues that is of significant	
13	concern locally is the presence of	
14	the gas pipelines	
15	MR. MAHERAS: Right.	
16	THE CHAIR: and how has	
17	that factored into your planning?	
18	MR. MAHERAS: So, the gas	
19	pipeline, if we exit the site from	
20	north entrance, we do not we	
21	bypass the pipeline, i.e., the	
22	pipeline crosses Broadway south of	
23	where the north entrance to the	
24	plant is. So we would not be	
25	driving directly over the pipeline	

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1	Joint Meeting IPCTF and IPDOB	
2	in that area.	
3	So, as part of the heavy haul	
4	truck permitting process, though,	
5	and we we'll have to receive	
6	permits for moving the fuel by heavy	
7	haul truck offsite. And so, those	
8	permits consider things like the	
9	weight of my cask, the dimensions of	
10	my cask, and the limitations of the	
11	infrastructure including presence of	
12	things like gas pipeline, low	
13	overhead bridges, et cetera.	
14	THE CHAIR: Thank you.	
15	Other DOB members have	
16	questions?	
17	Sandy.	
18	MS. GALEF: Oh, okay. This	
19	is this is kind of a	
20	hypothetical. You indicated that	
21	the DOE would have to get an	
22	agreement with the host community.	
23	So the host community would be the	
24	town, I guess, right, to do this?	
25	So, if	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. BECKER: The town and the	
3	village, I believe.	
4	MS. GALEF: And the village?	
5	Okay. Together.	
6	Okay. So if Holtec is going	
7	off in a different direction to get	
8	a site but the DOE has a different	
9	site, can Holtec hold back in any	
10	way if the DOE says we have a site,	
11	you know, we can start that process,	
12	let's get going?	
13	I mean this I'm just	
14	trying to think long term what the	
15	relationship is with Holtec having	
16	their own private place versus the	
17	DOE is not not a private place;	
18	it's a public place for disposal.	
19	Is that a question that's	
20	understandable? Who makes money out	
21	of it? Bottom line. Does Holtec	
22	make	
23	MS. BICKFORD: Sorry. That	
24	sounds to me like that might be a	
25	question for Holtec, so I didn't	

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1	Joint Meeting IPCTF and IPDOB	
2	want to step in.	
3	THE CHAIR: Go ahead, Erica.	
4	MS. BICKFORD: Oh, I was	
5	just that sounds to me like a	
6	question for Holtec.	
7	My understanding would be	
8	that if DOE has a facility available	
9	to receive spent nuclear fuel, my	
10	expectation is that the spent fuel	
11	owners would make that fuel	
12	available to be picked up by DOE and	
13	transported off their sites. If a	
14	site elected not to do that, I I	
15	would expect that would be a highly	
16	unusual circumstance, but again, I	
17	can't speak for Holtec.	
18	THE CHAIR: There was	
19	there was a part of your question,	
20	though, I want to make sure that	
21	there's clarity around, which	
22	community you're seeking consent	
23	from?	
24	MR. WEBSTER: Right.	
25	THE CHAIR: Erica, could you	

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1	Joint Mooting IDCUE and IDDOD	142
1	Joint Meeting IPCTF and IPDOB	
2	just clarify that point?	
3	MS. BICKFORD: Sure. So for	
4	a community that hosts a federal	
5	interim storage facility, we would	
6	be seeking consent from that	
7	community.	
8	And there was a question on	
9	how we're defining community and	
10	whether that was a town. In some	
11	cases it may be a town; in some	
12	cases may be a county; in some cases	
13	may be a tribe. We're trying not to	
14	be too narrow at this stage in the	
15	process because we really want to	
16	leave ourselves open to hear inputs,	
17	ideas from the people that we engage	
18	with through our consent-based	
19	siting process. So it could look	
20	different in different locations.	
21	THE CHAIR: Thank you.	
22	Rich, I don't know if you are	
23	prepared to answer a question about	
24	Holtec's other businesses	
25	MR. BURRONI: No, if	
	· · · · · · · · · · · · · · · · · · ·	

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1	Joint Meeting IPCTF and IPDOB	
2	anything	
3	THE CHAIR: outside of	
4	Indian Point.	
5	MR. BURRONI: I'll talk to	
6	our legal staff.	
7	THE CHAIR: Mm-hmm.	
8	MR. BURRONI: And then see	
9	how we would arrange normally,	
10	we'd go in the queue with the DOE to	
11	get it shipped offsite.	
12	MS. GALEF: Do you does	
13	Holtec make if you have your own	
14	facility for disposal that you get a	
15	place in you're talking about New	
16	Mexico.	
17	MR. BURRONI: Right.	
18	MS. GALEF: Do you have an	
19	interest in that, you know, a	
20	financial interest in that place?	
21	MR. BURRONI: In New Mexico?	
22	MS. GALEF: Yes.	
23	MR. BURRONI: Absolutely.	
24	MS. GALEF: So, you would	
25	prefer to have it go there than the	

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1	Joint Meeting IPCTF and IPDOB	
2	Department of Energy having a	
3	different place that would be a	
4	public place. A Yucca Mountain-type	
5	place.	
6	MR. BURRONI: Yeah, you	
7	know	
8	MS. GALEF: I mean you'd lose	
9	money on that, that deal.	
10	MR. BURRONI: Absolutely.	
11	MS. GALEF: So we have to	
12	watch you, I guess, right?	
13	MR. BURRONI: Yes.	
14	MS. GALEF: For ten years.	
15	THE CHAIR: We'll bring you	
16	back for that part of the process.	
17	Any other questions from the	
18	DOB?	
19	MR. WEBSTER: I have one.	
20	THE CHAIR: Yes, Richard?	
21	MR. WEBSTER: Yeah. So, I	
22	mean, I'm also con I think	
23	everybody I think a lot of people	
24	are confused about this 'cause	
25	and we heard the DOE, as it was said	

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1	Joint Meeting IPCTF and IPDOB	
2	on the side, during the summer and	
3	it took me a while to figure out	
4	what was going on.	
5	So what I I think that	
6	what I figured out, and I want to	
7	check and also to see if other	
8	people understand this, is that	
9	there's the federal interim storage	
10	facility program, then there are	
11	completely separate private interim	
12	storage facility programs.	
13	MS. GALEF: Mm-hmm.	
14	MR. WEBSTER: What I don't	
15	understand I think that's right	
16	so. So let's assume that's right,	
17	what I don't understand is, who is	
18	developing the ability of the	
19	private entities to transport the	
20	fuel from the reactor sites to those	
21	interim storage sites? Does DOE	
22	have any involvement?	
23	If they don't, which federal	
24	agencies are involved in	
25	licensing and approving them?	

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1	Joint Meeting IPCTF and IPDOB	
2	THE CHAIR: Erica, do you	
3	want to start on that one?	
4	MS. BICKFORD: Oh, sure.	
5	It's be real quick for me.	
6	If it's if it's private	
7	companies moving spent nuclear fuel	
8	from nuclear power plants to private	
9	interim storage facilities, then the	
10	Department of Energy would currently	
11	have no involvement in that.	
12	MR. WEBSTER: Right. So,	
13	which which federal agencies do	
14	have involvement in that?	
15	MS. BICKFORD: So the	
16	Department of Transportation would	
17	regulate the transportation, and	
18	then I'd leave it to my NRC	
19	colleagues to chime in on any role	
20	that they have.	
21	MR. DUNN: Darrell Dunn, NRC.	
22	So the NRC has licensed	
23	transportation casks. So, for the	
24	canisters that are here at Indian	
25	Point, there is a transportation	

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1	Joint Meeting IPCTF and IPDOB	
2	cask that has been approved for the	
3	transport of those canisters, the	
4	HI-STORM 190.	
5	Once that's on the road, once	
6	those those systems are loaded	
7	and they're on the road, then DOE	
8	has is has regulatory	
9	authority there.	
10	MR. WEBSTER: Okay.	
11	MR. DUNN: So we do the	
12	licensing of casks. The rules for	
13	the	
14	MR. WEBSTER: Right.	
15	MR. DUNN: transport are	
16	DOE DOT. Sorry, DOT.	
17	MR. WEBSTER: Oh, DOT, right.	
18	MR. DUNN: DOT.	
19	MR. WEBSTER: Okay, right. I	
20	was going to say	
21	MR. DUNN: I said DOE. No,	
22	DOT.	
23	MR. WEBSTER: So, I mean,	
24	this is a I mean, so why is DOE	
25	developing a separate cask if you	

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1	Joint Meeting IPCTF and IPDOB	
2	already have cask?	
3	MR. DUNN: I don't know that	
4	DOE's developing a separate cask.	
5	MR. WEBSTER: Well they a	
6	separate	
7	MR. DUNN: They're talking	
8	about	
9	MR. WEBSTER: trans-	
10	portation, yeah.	
11	MR. DUNN: They're talking	
12	about a railcar.	
13	MR. WEBSTER: Right.	
14	MR. DUNN: Okay? And they're	
15	talking about a facility	
16	MR. WEBSTER: Right.	
17	MR. DUNN: that could be	
18	licensed, a consent-based siting	
19	process.	
20	MR. WEBSTER: Right.	
21	So, you don't the NRC	
22	that how so, how does a	
23	transportation cask get loaded onto	
24	a railcar? I mean, what does it	
25	look like? Does it look like what	

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1	Joint Meeting IPCTF and IPDOB	
2	DOE have got or is it something	
3	totally different?	
4	MR. DUNN: So that, those	
5	casks that you saw in those	
6	pictures, those are licensed	
7	those were licensed by the NRC.	
8	MR. WEBSTER: When you say	
9	those casks, those	
10	MR. DUNN: Those	
11	transportation casks shown in those	
12	pictures.	
13	MR. WEBSTER: The dumbbell	
14	shapes.	
15	MR. DUNN: Yes.	
16	MR. WEBSTER: Okay.	
17	MR. DUNN: Yes. I believe	
18	some of them were probably West	
19	Valley, but those were	
20	transportation casks licensed by	
21	NRC. So we looked we reviewed	
22	and approved those transportation	
23	cask designs.	
24	MR. DIMITRIADIS: Darrell,	
25	can you talk a little bit about what	

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1	Joint Meeting IPCTF and IPDOB	
2	goes what we look at when we	
3	license the transportation casks,	
4	like, you know, accident scenarios,	
5	you know, things like that?	
6	MR. DUNN: Sure. Yeah. So,	
7	they're the regulations for	
8	transportation casks for 10 CFR	
9	Part 71, and there are very rigorous	
10	requirements, especially for a cask	
11	like a fissile material type D	
12	package, which is what you have for	
13	spent fuel.	
14	There's a number of of	
15	tests that they have to have to	
16	be conducted or evaluations that	
17	have to be conducted to show that	
18	those systems will maintain, you	
19	know, confinement and criticality	
20	control and shielding under normal	
21	conditions of transport and	
22	hypothetical accident conditions.	
23	And, some of those tests for	
24	hypothetical accident conditions are	
25	quite ser are quite significant:	

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1	Joint Meeting IPCTF and IPDOB	
2	Thirty-foot drop onto an unyielding	
3	surface, four-foot drop onto a	
4	six-inch diameter steel rod,	
5	immersion in a fully-engulfed	
6	hydrocarbon fire at 1475 degrees	
7	Fahrenheit for 30 minutes,	
8	submersion in up to 50 feet of	
9	water, and there's requirements that	
10	they have to meet in terms of dose,	
11	leakage rates and criticality	
12	control after all of those tests are	
13	completed.	
14	So it's a very rigorous	
15	regulation that we	
16	MR. WEBSTER: Okay.	
17	MR. DUNN: have to meet for them.	
18	MR. WEBSTER: Right. So I	
19	guess this is the question for DOE.	
20	So are these casks already fully	
21	licensed and loaded, the ones that	
22	DOE's gonna use? Are they already	
23	fully licensed and ready to go?	
24		
25	MS. BICKFORD: In some cases	

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1	Joint Meeting IPCTF and IPDOB	
2	yes, and so it's called a	
3	Certificate of Compliance. In other	
4	cases, there would need to be	
5	updates to the Certificate of	
6	Compliance.	
7	But, something that may be	
8	more pertinent of an answer to your	
9	question is that most of these	
10	transportation casks have not yet	
11	been fabricated, and so, with some	
12	exceptions, in general, you have	
13	different transportation casks used	
14	versus the storage casks that are	
15	used onsite.	
16	So the department for DOE	
17	shipment of spent nuclear fuel we	
18	would need to procure those	
19	transportation casks, provide them	
20	to a site, the site would be	
21	responsible for loading, and then	
22	DOE would transport those casks.	
23	Does that answer your	
24	question?	
25	MR. WEBSTER: Yeah, that's	
1		

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1	Joint Meeting IPCTF and IPDOB	
2	helpful. Thank you.	
3	MS. GALEF: Right.	
4	MS. BICKFORD: Sure.	
5	THE CHAIR: Thank you, Rich.	
6	John Sipos, do you have some	
7	questions?	
8	MR. SIPOS: Hi. Good	
9	evening. Erica, thank you and Steve	
10	for your presentations tonight.	
11	Just at the beginning of your	
12	presentation, did I hear you say	
13	that 9 billion, billion with a B,	
14	has been paid out by the federal	
15	government for the contract	
16	breeches?	
17	MS. BICKFORD: Yes, that's	
18	correct.	
19	MR. SIPOS: And that	
20	financial figure is current as of	
21	what date?	
22	MS. BICKFORD: I believe	
23	September of this year but I'd have	
24	to check on that. It's it's a	
25	number that continues to grow.	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. SIPOS: Thank you.	
3	Appreciate that.	
4	And, those funds come from?	
5	Is it the Department of Justice	
6	Judgment Fund?	
7	MS. BICKFORD: Yes, that's	
8	correct.	
9	MR. SIPOS: Okay, thank you.	
10	MS. BICKFORD: Sure, thank	
11	you for the questions.	
12	THE CHAIR: Do you just want	
13	to explain the significance of	
14	that?	
15	MR. SIPOS: So, there has	
16	been, I think, an issue generally	
17	in, you know, state and federal	
18	regulation, in that regulatory space	
19	about what happens to that money,	
20	how that money is used, the money	
21	recovered from the contract	
22	breaches, and in some instances	
23	nuclear power plants would seek	
24	payments from the Decommissioning	
25	Fund, which is a separate fund, use	

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1	Joint Meeting IPCTF and IPDOB	
2	that for certain spent fuel	
3	management purposes, and at the same	
4	time they would still have a	
5	contract breach or breach of	
6	contract claim against the federal	
7	government.	
8	Later on they would receive	
9	or obtain this money from the United	
10	States Government, paid from the	
11	Judgment from the Department of	
12	Justice Judgment Fund. And then the	
13	question is, well, what happens to	
14	the Decommissioning Trust funds that	
15	initially paid that money out, and	
16	does that how does that affect	
17	the timeline, the speed of which	
18	or the speed of overall	
19	decommissioning of and site	
20	restoration, which is also	
21	important, especially to the State	
22	of New York, how fast is that	
23	project going.	
24	So, I think Tom, Tom and I	
25	and the other folks from the state,	

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1	Joint Meeting IPCTF and IPDOB	
2	Erica, we very much appreciate that	
3	up-to-date cost accounting	
4	concerning the Judgment Fund and	
5	contract breach payout. So,	
6	those that was a question I had	
7	for DOE.	
8	MR. WEBSTER: So I have one	
9	more quickly, if I can.	
10	THE CHAIR: Go ahead.	
11	MR. WEBSTER: So, it occurs	
12	to me that a private entity could	
13	attempt to move fuel to an interim	
14	storage facility and then attempt to	
15	suggest that that was reimbursable	
16	through the Judgment Fund. Has DOE	
17	thought about that idea?	
18	MS. BICKFORD: Sorry. Can	
19	you could you repeat the	
20	question? I didn't I lost the	
21	first part.	
22	MR. WEBSTER: An entity could	
23	save you money by moving fuel to	
24	their own interim storage facility	
25	and then claim a reimbursement of	

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1	Joint Meeting IPCTF and IPDOB	
2	that 'cause they've avoided your	
3	costs.	
4	MS. BICKFORD: I guess it's	
5	not clear to me where the it's	
6	not clear to me where avoided costs	
7	are. One of the challenges of the	
8	circumstance and the funding is that	
9	it is not necessarily direct	
10	offsets. So for the department's	
11	activities, you know, the funds that	
12	we use to pursue federal interim	
13	storage and transportation would be	
14	appropriated by Congress; whereas,	
15	things like the Judgment Fund	
16	payouts from the breaches of	
17	contract are paid out of the	
18	Judgment Fund, which is not an	
19	appropriated amount of funds. So	
20	it's, you know, just a shorthand is	
21	that the ledgers don't offset.	
22	MR. WEBSTER: Right,	
23	understood. But let me just say	
24	that offset costs are if somebody	
25	else moves fuel from Indian Point to	

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1	Joint Meeting IPCTF and IPDOB	
2	an interim storage facility, you	
3	don't have to, right? So there's an	
4	offset cost.	
5	MS. BICKFORD: Well, I think	
6	there's a question of whether they	
7	would seek reimbursement for	
8	MR. WEBSTER: Well that's	
9	what I'm asking, yeah.	
10	MS. BICKFORD: Yeah. I	
11	can't I don't know if they would	
12	or if they could.	
13	MR. WEBSTER: Thank you.	
14	THE CHAIR: Other questions?	
15	There may have been questions also	
16	for NRC. I know I had to move on to	
17	the DOE. So any other questions?	
18	For DOE or NRC? Okay.	
19	MR. WEBSTER: Somebody texted	
20	me one, so let me ask you something	
21	that somebody texted me, which is a	
22	question, which is, is there a	
23	requirement in federal law for a	
24	permanent disposal facility before	
25	setting up interim storage	

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1	Joint Meeting IPCTF and IPDOB	
2	facilities?	
3	MS. BICKFORD: Was that	
4	question	
5	THE CHAIR: Was that DOE?	
6	MS. BICKFORD: for DOE?	
7	MR. WEBSTER: Well, DOE, I'm	
8	sure, who	
9	THE CHAIR: Yes.	
10	MS. BICKFORD: Sure. So for	
11	DOE, so the Nuclear Waste Policy Act	
12	of 1982, as amended is what	
13	establishes DOE as the responsible	
14	entity for accepting the spent	
15	nuclear fuel from nuclear power	
16	plants, and as designed there is a	
17	provision for DOE to have a	
18	monitored retrievable storage	
19	facility, MRS, which is equivalent	
20	to what we now call consolidated	
21	interim storage facility. And there	
22	is a limitation in the current	
23	Nuclear Waste Policy Act language	
24	that in order to be able to receive	
25	fuel at a monitored retrievable	

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1	Joint Meeting IPCTF and IPDOB	
2	storage facility or a consolidated	
3	interim storage facility, there	
4	would need to be a license to	
5	construct a repository. So that is	
6	a limitation of what we're currently	
7	doing.	
8	However, Congress has	
9	authorized the DOE to pursue interim	
10	storage. Congress believes that we	
11	have enough authority under the	
12	Nuclear Waste Policy Act currently	
13	to make significant progress. Our	
14	assessment is that we can pursue	
15	consent-based siting, siting design,	
16	and preparation of a license	
17	application is how far we can get	
18	but we will not be able to construct	
19	and operate an interim storage	
20	facility without new authorization	
21	from Congress.	
22	MR. WEBSTER: Right. So	
23	doesn't that mean unless the law is	
24	changed, that ten-year, that the	
25	next decade time horizon that you	

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1	Joint Meeting IPCTF and IPDOB	
2	gave is unrealistic.	
3	MS. BICKFORD: It's highly	
4	uncertain for sure, yeah, whenever	
5	you need new legal authorization.	
6	It's certainly our hope that by	
7	demonstrating a successful	
8	consent-based siting process and	
9	especially when we get to the point	
10	where we're seeking volunteers, that	
11	that will demonstrate enough	
12	confidence in the success of this	
13	process that Congress will be	
14	motivated	
15	MR. WEBSTER: Well	
16	MS. BICKFORD: to act.	
17	MR. WEBSTER: Well, you're	
18	not seeking authorization. You're	
19	seeking Congress to overturn its	
20	prevention of this activity,	
21	correct?	
22	MS. BICKFORD: For our	
23	purposes, it could be new	
24	legislation or it could be	
25	congressional authorization through	

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1	Joint Meeting IPCTF and IPDOB	
2	another mechanism; there's	
3	flexibility for us.	
4	MR. WEBSTER: Sorry. I'm	
5	confused. I thought we just said	
6	that federal law currently prevents	
7	the construction of an interim	
8	stor a DOE interim storage	
9	facility if there isn't a disposal	
10	facility in place; is that right?	
11	MS. BICKFORD: Under the	
12	Nuclear Waste Policy Act, that's	
13	correct.	
14	MR. WEBSTER: Okay. So	
15	doesn't that mean that unless the	
16	law is changed, the timeline is	
17	dependent on when a final repository	
18	can be constructed?	
19	MS. BICKFORD: Either it	
20	changed the law or a new	
21	authorization from Congress.	
22	MR. WEBSTER: What's the	
23	second part of your answer confuses	
24	me. Are you suggesting that you can	
25	overturn federal legislation by	

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1	Joint Meeting IPCTF and IPDOB	
2	something other than a new law?	
3	MS. BICKFORD: There's	
4	different mechanisms. For example,	
5	our current pursuit of federal	
6	interim storage is under	
7	authorization from Congress that was	
8	passed as part of an appropriations	
9	bill.	
10	THE CHAIR: Separate	
11	MS. BICKFORD: So it's	
12	THE CHAIR: Separate	
13	statutory authorization.	
14	MS. BICKFORD: Yes.	
15	MR. WEBSTER: That's still	
16	sorry. That's still a new law.	
17	It's just under a different I	
18	mean, it's just in a a must pass	
19	vehicle.	
20	All right, okay. I think I	
21	understand what you're saying.	
22	FEMALE SPEAKER: (Inaud-	
23	ible).	
24	FEMALE SPEAKER: Tom, it's	
25	very hard to hear her answer. Could	

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1	Joint Meeting IPCTF and IPDOB	
2	you please summarize what she just	
3	said?	
4	THE CHAIR: She explained	
5	FEMALE SPEAKER: (Inaudible)	
6	THE CHAIR: Yeah. She	
7	explained, and, Erica, please correct	
8	me if I'm wrong, but I believe she	
9	explained that the authorization that	
10	DOE has for pursuing the interim	
11	storage sites is through separate	
12	statutory authorizations that were	
13	provided to the DOE through, you know,	
14	a budget appropriation or a budget	
15	an act of Congress, separate act of	
16	Congress.	
17	Erica, did I capture that	
18	correctly?	
19	MR. BICKFORD: Yeah, I think	
20	so. The fiscal year '21 and fiscal	
21	year 2022 appropriations for the	
22	Department of Energy included that	
23	language that authorized that.	
24	THE CHAIR: Fiscal year '21,	
25	'22	

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1	Joint Meeting IPCTF and IPDOB	
2	MS. BICKFORD: And '22.	
3	THE CHAIR: authorizations	
4	to the DOE	
5	MS. BICKFORD: Yes	
6	(inaudible)	
7	THE CHAIR: included	
8	authorization for them to pursue	
9	these sites.	
10	MR. WEBSTER: Right.	
11	FEMALE AUDIENCE MEMBER:	
12	Despite the federal law.	
13	MR. WEBSTER: No, wait.	
14	THE CHAIR: The	
15	MR. WEBSTER: Pursue but not	
16	construct, I think is the right.	
17	Design	
18	THE CHAIR: Pursue but not	
19	construct.	
20	MR. WEBSTER: Right.	
21	THE CHAIR: Is that correct,	
22	Erica?	
23	MS. BICKFORD: I mean, the	
24	language doesn't say pursue but not	
25	construct, but it does say for the	

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1	Joint Meeting IPCTF and IPDOB	
2	department I can't think of the	
3	exact language at this time but	
4	THE CHAIR: But to plan,	
5	essentially to plan.	
6	MS. BICKFORD:	
7	(inaudible)	
8	MR. WEBSTER: Right.	
9	MS. BICKFORD: interim	
10	storage, yeah.	
11	And Congress has asked us or	
12	some members of Congress have asked	
13	us to provide them with feedback on	
14	what we can do under that current	
15	authorization, under both that, that	
16	authorization as well as the Nuclear	
17	Waste Policy Act until we need	
18	further action from Congress. So	
19	those discussions are occurring.	
20	MR. SIPOS: And, Erica, on	
21	that last point, has the DOE	
22	provided those members of Congress	
23	with DOE's view as to the extent of	
24	the scope of its authority under	
25	that budget?	

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1	Joint Meeting IPCTF and IPDOB	
2	MS. BICKFORD: Yeah. When	
3	we're asked the question our	
4	response has been that we believe	
5	that we can, you know, develop a	
6	consent-based siting process, pursue	
7	sites, design a facility, and	
8	prepare a license application but	
9	that we won't be able to construct	
10	and get to operate a facility	
11	without further action from	
12	Congress.	
13	MR. SIPOS: And has that	
14	communication been reduced to a	
15	letter or in writing to Congress?	
16	MS. BICKFORD: I I	
17	we've gotten questions for the	
18	record and different mechanisms that	
19	I've seen that come through, and I	
20	don't I can't say for sure. The	
21	questions for the record do go back	
22	to the member eventually but it goes	
23	through a long, a long review	
24	process before. So I can't speak to	
25	whether there is a specific letter	

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1	Joint Meeting IPCTF and IPDOB	
2	publicly available at this point.	
3	But we do have it in our some of	
4	our public materials that I can try	
5	to provide you.	
6	THE CHAIR: Thank you so	
7	much, Erica. Thank you, Steve.	
8	Thank you, Anthony. Thank you,	
9	Briana. Thank you for your	
10	colleagues who joined to answer	
11	questions. Really greatly	
12	appreciate the partnership with our	
13	federal agency partners, and really	
14	appreciate all the work that you do	
15	every day to help keep these	
16	communities safe. And the planning	
17	that you're doing, you know, is	
18	critically important. Even though	
19	it is many years away, it's going to	
20	take a while to get all of this in	
21	place.	
22	And, you know, Steve, your	
23	presentation showing all of the	
24	considerations that have to be made,	
25	shows why it's so important to do	

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1	Joint Meeting IPCTF and IPDOB	
2	the planning this far in advance.	
3	So we really greatly appreciate your	
4	presentations and information	
5	exchange, your willingness to answer	
6	the questions, and I hope you will	
7	return. I think there will likely	
8	be a lot of questions we get from	
9	our members of the community	
10	following this presentation.	
11	We always endeavor to answer	
12	questions we get during meetings and	
13	after meetings. To the extent that	
14	we don't answer them at the meeting,	
15	we always intend to answer them in	
16	writing ahead of the next meeting.	
17	If we get any questions following	
18	this for the NRC or the DOE, we'll	
19	be sure to reach out to you and ask	
20	for responses that we can provide to	
21	members of the public.	
22	So again thank you.	
23	MR. MAHERAS: Thank you.	
24	MS. BICKFORD: Great. Thanks	
25	for inviting us; thanks for the	
1		

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1	Joint Meeting IPCTF and IPDOB	
2	questions.	
3	THE CHAIR: Okay, terrific.	
4	At this point we're going to	
5	turn to public statements. We have	
6	a number of speakers preregistered.	
7	Tom Kaczmarek, who is	
8	attending tonight's meeting	
9	virtually is going to call on	
10	speakers. Each speaker has three	
11	minutes. Your statements will be	
12	entered into our record. If you	
13	have questions we will endeavor to	
14	answer those questions before the	
15	next meeting of the DOB in writing	
16	and we will post those answers on	
17	our website.	
18	So Tom, are you with us, and	
19	can you begin to call on registered	
20	speakers?	
21	MR. KACZMAREK: Yes. Can we	
22	go to the next slide, please.	
23	THE CHAIR: Next slide.	
24	MR. KACZMAREK: Next slide	
25	again.	

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1	Joint Meeting IPCTF and IPDOB	
2	As Tom mentioned, again, as	
3	you're called on in we're going	
4	to actually start tonight with those	
5	joining the meeting in person, and I	
6	will read off your names here so you	
7	can be prepared to come up to the	
8	mic and speak, but during the	
9	portion where those joining by Zoom	
10	will be delivering their public	
11	statements, we will unmute your line	
12	when it is your time your turn to	
13	speak.	
14	Next slide, please.	
15	As Tom mentioned, we'll have	
16	three minutes for each speaker to	
17	speak. I will make a note when	
18	there's 30 seconds left just to make	
19	sure you can begin to wrap up your	
20	comments and again at three minutes	
21	to afford the opportunity we'll move	
22	on to the next speaker.	
23	So with that, the we're	
24	going to begin with those who	
25	registered first and we're going to	

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1	Joint Meeting IPCTF and IPDOB	
2	go with those in Cortlandt.	
3	First up is Marilyn Elie, and	
4	then following Marilyn, we'll go to	
5	Tina Volz-Bongar.	
6	THE CHAIR: Marilyn Elie	
7	please come to the mic and Tina will	
8	be next.	
9	MR. KACZMAREK: All right.	
10	And, Tina, when you're ready to	
11	begin.	
12	MS. ELIE: Am I okay from	
13	here?	
14	MR. KACZMAREK: Go right	
15	ahead.	
16	THE CHAIR: Oh, please come	
17	to the mic. Thank you.	
18	MR. KACZMAREK: I'm sorry.	
19	I'm sorry, Marilyn.	
20	THE CHAIR: Take your time.	
21	MS. ELIE: Thank you.	
22	THE CHAIR: Thank you.	
23	MS. ELIE: My name is	
24	Marilyn Elie. I am a Cortlandt	
25	resident, and I should have put my	
1		

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1	Joint Meeting IPCTF and IPDOB	
2	glasses on. I think we can do this.	
3	First of all, thank you.	
4	This has been a very informative	
5	meeting. I am particularly	
6	interested in that last question.	
7	And it looks to me like we have two	
8	branches of our government at odds	
9	with each other and not settled. I	
10	would certainly like more	
11	information about the law as written	
12	and what DOE's authorization is for	
13	that. And I'd also like to think	
14	about the other information that I	
15	heard tonight, and after thinking	
16	about it maybe come up with some	
17	questions that I would like to refer	
18	to the DOE.	
19	But I'm really here tonight	
20	to take a step back in time. I know	
21	everyone of this board is really	
22	ready to move on from emergency	
23	preparedness. You've looked at it,	
24	you've had some experts, and made	
25	some decisions. However, it's still	

		1 🗆 4
1	T	174
1	Joint Meeting IPCTF and IPDOB	
2	a grave community concern and I am	
3	looking at the notice announcing the	
4	meeting concerning the Indian Point	
5	decommissioning. This was on	
6	November 16th, 2022. And what it	
7	says at the bottom is, "The	
8	Oversight Board is charged with	
9	assessing how to protect the	
10	financial, environmental, physical	
11	interests of the communities	
12	affected by decommissioning,	
13	including the interests the current	
14	workforce as it relates to	
15	continuing public safety of the	
16	surrounding communities." That's a	
17	really important part of your	
18	charge, and a lot of the questions	
19	in regard to an emergency evacuation	
20	plan have been left hanging.	
21	What I would like to see, and	
22	I think would be useful to many	
23	others, is some kind of booklet, the	
24	kind that we used to get when Indian	
25	Point was operating and, you know,	

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1	Joint Meeting IPCTF and IPDOB	
2	you have you I understand now	
3	that you can go to the website and	
4	download copies of some of these	
5	booklets. I can't think that is	
6	going to be useful for a whole lot	
7	of people (A) to find it, (B) to	
8	download it, and (C) to just	
9	remember, you know, how to get	
10	there.	
11	So I think people in the	
12	10-mile area deserve something	
13	concrete in their hand that they can	
14	look at and say, okay, should we	
15	have an emergency between	
16	MR. KACZMAREK: Thirty	
17	seconds.	
18	MS. ELIE: the spent fuel	
19	rods and the gas line. This is what	
20	you do. Because right now, those	
21	two emergency plans are in conflict	
22	with each other, and that's really	
23	not acceptable.	
24	So I would ask this board to	
25	really see what you can do about	

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1	Joint Meeting IPCTF and IPDOB	
2	producing, actually producing	
3	something, not something that Holtec	
4	says, okay, fine it's all well, no	
5	danger to the public, which we hear	
6	a lot of, but something that's	
7	sensible, based upon the expert	
8	opinions and something that people	
9	can read and look at and understand.	
10	So please don't take this off	
11	the table, and I will certainly be	
12	back later in regard to all of the	
13	things that we've heard tonight. It	
14	was very useful, so thank you very	
15	much for that.	
16	THE CHAIR: Thank you very	
17	much.	
18	MR. KACZMAREK: Thank you.	
19	Next, Tina Volz-Bongar, and	
20	then following that will be	
21	Christopher Vargo.	
22	MS. VOLZ-BONGAR: Hi. I am	
23	Tina Volz-Bongar, and I was here at	
24	the last meeting to present on a	
25	community emergency preparedness	

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1	Joint Meeting IPCTF and IPDOB	
2	plan and a co-location incident of	
3	the gas pipelines at Indian Point.	
4	And you know, I've always heard that	
5	the NRC is responsible for	
6	everything, including public safety,	
7	and what it feels like as a	
8	community member is that the NRC is	
9	responsible for everything but	
10	accountable for nothing.	
11	And, right now we have this	
12	(displaying a document), and my	
13	neighbors, who speak Spanish, they	
14	can't read this. Forty-three point	
15	five percent of our population is	
16	Hispanic and they don't you know,	
17	yes, some of them can read this.	
18	But, we live in an environmental	
19	justice community, which I know some	
20	of you know, and we really need to	
21	walk the talk here.	
22	So, I'm asking our federal	
23	representatives who came through to	
24	demand a risk assessment of the	
25	pipeline that PHMSA is doing and	

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1	Joint Meeting IPCTF and IPDOB	
2	that no one has yet, it occurred to	
3	me today when I was driving, I said,	
4	you know why we don't have the risk	
5	assessment because that's the big	
6	question. It's been done for six	
7	months and I said, I bet it's in the	
8	NRC's hands, that's why we haven't	
9	seen it, of course, Tina.	
10	So Senators Schumer and	
11	Gillibrand we're asking you to call	
12	on the NRC, and I believe this	
13	board, I think that what Marilyn	
14	read is correct, that you have some	
15	agency here, and that what has	
16	happened is you end up being	
17	accountable for everything; and in	
18	the sense you're respon you	
19	know, are you responsible for this?	
20	How are we going to fund the right	
21	kind of risk you know, disaster	
22	risk analysis which is what we need.	
23	So Grassroots Environmental	
24	Education is going to sponsor an	
25	experts' forum on Indian Point in	

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1	Joint Meeting IPCTF and IPDOB	
2	February, on February 16th. We're	
3	asking a disaster risk management	
4	expert to come and speak to us or	
5	the division at Columbia University	
6	to tell us exactly what's involved	
7	with the right kind of disaster risk	
8	analysis management analysis, and	
9	that's done by forensic disaster	
10	risk experts who come in and look at	
11	something like 9/11. That's real to	
12	us.	
13	MR. KACZMAREK: Thirty	
14	seconds.	
15	MS. VOLZ-BONGAR: We've lived	
16	through 9/11 and we had a Indian	
17	Point was a target, and could those	
18	ISFSI pad, could that survive a 747	
19	jet, with jet fuel burning for over	
20	an hour and a half. You know, what	
21	would happen then? And I believe	
22	that that's those are the kinds	
23	of questions and answers that we	
24	should have and we deserve.	
25	So, anyway, thank you very	

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1	Joint Meeting IPCTF and IPDOB	
2	much for you allowing me to speak	
3	and go over my three minute and I'll	
4	talk to you again.	
5	THE CHAIR: Thank you, Tina.	
6	MR. KACZMAREK: Thank you.	
7	Next Christopher Vargo	
8	followed by John Sullivan.	
9	THE CHAIR: Christopher	
10	Vargo.	
11	MR. VARGO: How are you	
12	doing? Chris Vargo, I live at	
13	26 Hardie Street in Verplanck,	
14	lifelong resident.	
15	If can you understand me	
16	with the mask on?	
17	THE CHAIR: Yes.	
18	MR. KACZMAREK: Yes.	
19	MR. VARGO: Okay. I'm going	
20	to talk to you like I talk. At this	
21	point, we have known Indian Point	
22	was going to close down in 2017, and	
23	we're having a discussion about	
24	removing the fuel offsite. Yucca	
25	Mountain was proposed in 1987. It's	

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1	Joint Meeting IPCTF and IPDOB	
2	still not accepting nuclear waste.	
3	Your whole perspective is just	
4	completely distorted.	
5	Mrs. Galef asked excuse	
6	me Assemblywoman Galef, I	
7	apologize, she said does anybody	
8	have an idea about economic	
9	development? The place is closed,	
10	our taxes are going through the	
11	roof, and we're talking about it	
12	now.	
13	Both of those domes are filled	
14	with radioactive water, and I hear	
15	no discussion on it. I hear the	
16	Riverkeeper's here; he doesn't bring	
17	it up. Are there any radiological	
18	devices that can indicate any	
19	leakage of radioactive water into	
20	the Hudson? Does anybody know?	
21	MR. SULLIVAN: (Inaudible).	
22	MR. WEBSTER: Let me say let me	
23	say	
24		
25	THE CHAIR: Yeah.	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. WEBSTER: I mean, I know	
3	this	
4	THE CHAIR: Go ahead.	
5	MR. WEBSTER: isn't a	
6	question/answer session	
7	THE CHAIR: Go ahead,	
8	Richard.	
9	MR. WEBSTER: but I just	
10	want to say that this wasn't the	
11	reason we haven't talked about it	
12	this session is because we're gonna	
13	do that in a different in a	
14	separate session.	
15	MR. VARGO: But that's	
16	MR. WEBSTER: We're talking	
17	about it.	
18	MR. VARGO: my exact my	
19	point, though.	
20	MR. WEBSTER: We can't talk	
21	about every issue in every meeting,	
22	right?	
23	MR. VARGO: But don't you	
24	think it's more important to talk	
25	about the how to dispose of the	

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1	Joint Meeting IPCTF and IPDOB	
2	water that's in the domes and how	
3	to get an economic development plan.	
4	MR. WEBSTER: Well, no	
5	MR. VARGO: before talking about	
6	removing waste, that there's no	
7	place to put it in?	
8	MR. WEBSTER: I mean, with	
9	respect, everything's important,	
10	right? We have to try to deal with	
11	all of these issues. We've already	
12	talked some to some in	
13	previous meetings a little bit	
14	about this water issue. It's	
15	coming up. The discharge of that	
16	water won't occur until we figure	
17	out what's gonna happen to it.	
18	MR. VARGO: But just hold on.	
19	Just stop right there. Hold on one	
20	second.	
21	MR. WEBSTER: Can you just wait.	
22	Wait, wait, wait.	
23	The casks are already there. We	
24	want to make sure that they don't	
25	leak, they don't have a problem	

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1	Joint Meeting IPCTF and IPDOB	
2	while they're there.	
3	It's not just about moving	
4	the fuel offsite; it's about storing	
5	it safely while it's on the site.	
6	And that's an important issue, too,	
7	and people in the community have	
8	been concerned about this issue,	
9	which is why it's on the agenda.	
10	MR. VARGO: But in my mind, I	
11	would put devices in the water now	
12	to see if there was an accidental	
13	leak into the Hudson River.	
14	MR. WEBSTER: Okay. Let me	
15	there's always (inaudible)	
16	THE CHAIR: Richard.	
17	MR. WEBSTER: plenty of	
18	leaks.	
19	THE CHAIR: Richard, if I	
20	may.	
21	MR. WEBSTER: Yeah.	
22	THE CHAIR: We could be here	
23	all night. We've got to try to get	
24	to all the speakers.	
25	MR. WEBSTER: Okay.	

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1	Joint Meeting IPCTF and IPDOB	
2	THE CHAIR: Your points are	
3	well taken.	
4	MR. WEBSTER: Yes.	
5	THE CHAIR: There is	
6	radioactive monitoring in the water.	
7	That's ongoing. Department of	
8	Health publishes that data. It's on	
9	a website.	
10	MR. VARGO: Fantastic.	
11	THE CHAIR: Okay?	
12	MR. VARGO: That makes me	
13	feel good.	
14	THE CHAIR: But I just wanted	
15	to clarify that, but I do want to	
16	let you finish your three minutes.	
17	So go ahead.	
18	MR. VARGO: Basically, that's	
19	it. I'm just concerned about the	
20	radiological water the	
21	radioactive water in the domes.	
22	It seems like there shouldn't even	
23	be discussion; it has to be	
24	removed. End of conversation. It	
25	can't be released into the Hudson.	

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1	Joint Meeting IPCTF and IPDOB	100
2	And my other problem is the	
3	economic development. There's no	
4	plan. There's absolutely no plan.	
5	I feel like the community is left	
6	holding the bag. I think for Holtec	
7	it's a 2 million dollar a 2	
8	billion dollar clean up. Am I	
9	correct in that number?	
10	That's how much they're	
11	allotted to clean it up. So, I	
12		
	mean, some of the things you do.	
13	Cover up the casks it's brackish	
14	water in the Hudson River. You	
15	understand what I'm saying? Just	
16	simple things to make the community	
17	feel safer. You know, it's just	
18	you know you get everything clear in	
19	your head and you come up to speak	
20	and it gets muddled.	
21	THE CHAIR: No, it's not	
22	muddled. I think you've made clear	
23	points and we appreciate it.	
24	MR. VARGO: But I appreciate	
25	your time. I just I hope it's	

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1	Joint Meeting IPCTF and IPDOB	
2	understood.	
3	THE CHAIR: It is. Thank	
4	you, Chris.	
5	MR. KACZMAREK: Next John	
6	Sullivan and following that will be	
7	Paul Blanch.	
8	MR. SULLIVAN: Thank you.	
9	John Sullivan, Requa Street,	
10	Peekskill. Just a point of	
11	information about the brackish	
12	water. The Iona Marsh, the NRC is	
13	salt water marsh. It's the furthest	
14	salt water marsh on the river. So	
15	there is salinity in the river. I	
16	don't know the degree of corrosion	
17	or the degree of solemnity. So it's	
18	not not the ocean. So	
19	I have seven questions. I	
20	hope the DOE folks are online. I'll	
21	just run through them real quick.	
22	Okay?	
23	Will the NRC/DOE comply with	
24	the 2004 appeals court ruling and	
25	establish deep geological repository	

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1	Joint Meeting IPCTF and IPDOB	
2	following the National Academy	
3	safety guidelines of 300,000 years?	
4	That's what the National Academy of	
5	Sciences expects out of a deep	
6	geological repository.	
7	Number two, as consent-based	
8	pricing will the NRC and the DOE	
9	forego their safety preemption? All	
10	right? If they don't, I would	
11	compare it to greasing a pig, what	
12	the process is.	
13	Third, is the DOE committed	
14	by law or regulation to accept spent	
15	fuel in the order of reactor's	
16	closing? Okay?	
17	Four, given issues of	
18	transportation and processing at any	
19	repository, including the	
20	consolidated ones, what would be a	
21	reasonable expectation of how many	
22	canisters could be processed in a	
23	year?	
24	Five, roughly how far down	
25	the queue are Units 2 and 3; so how	

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1	Joint Meeting IPCTF and IPDOB	
2	long do we have to wait? Okay?	
3	Number six, if Holtec and	
4	(inaudible) succeed in their scheme	
5	to establish consolidating interim	
6	storage facilities, will they be	
7	able to choose how they accept spent	
8	fuel based on their proprietary	
9	needs? That's Sandy's question.	
10	Okay?	
11	Are there currently written	
12	regulations by the NRC establishing	
13	procedures and practices for such	
14	proprietary facilities? What does	
15	licensing mean? Are there actual	
16	regulations in place now that would	
17	govern what the CISFs look like and	
18	how they handle stuff? Okay?	
19	Where do we cross the line	
20	between doing that and basically	
21	reversing the MPWA of 1982?	
22	And given the fact that there	
23	is no permanent repository in sight,	
24	is that licensing of the CISFs	
25	actually a violation of the NNWPA of	

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1	Joint Meeting IPCTF and IPDOB	
2	1982. Thank you.	
3	THE CHAIR: Thank you, John.	
4	If you could, John, could you	
5	please email those questions to us	
6	as well? We captured it with the	
7	transcript but it would be good to	
8	have the questions in writing from	
9	you, and we'll be sure to follow up	
10	with the DOE and NRC and get	
11	answers. Okay? Thank you.	
12	MR. KACZMAREK: Thank you.	
13	Next is Paul Blanch followed	
14	by Dan Galinko.	
15	MR. BLANCH: Thank you and	
16	good evening. My name is Paul	
17	Blanch and I reside in West	
18	Hartford, Connecticut, and I'm	
19	familiar or at least I believe most	
20	of the people are familiar with my	
21	history. But tonight I want to talk	
22	and thank John Sipos, when I was	
23	working for him a few years ago, he	
24	taught me about the importance of	
25	regulations and only regulations and	

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1	Joint Meeting IPCTF and IPDOB	
2	don't go by, you know, internal	
3	papers from any agency. Stick with	
4	the regulations. We're working on	
5	relicensing.	
6	And I'd like to talk about a	
7	regulation that appears both in the	
8	National Waste Policy Act of 1983,	
9	it appears in 10 CFR 72.3, where	
10	they define spent nuclear fuel and	
11	what it is. And it also appears as	
12	a firm requirement under 10 CFR	
13	72.122(1). And let me read it to	
14	you, and it's to me a very	
15	understand understandable	
16	statement that it leaves little room	
17	for interpretation. And I will read	
18	it verbatim. This is a requirement	
19	of the decommissioned plants:	
20	"Retrievability. Storage	
21	systems must be designed to allow	
22	ready retrieval of spent fuel	
23	(previously defined), high-level	
24	waste, and reactor-related greater	
25	than Class C	

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1	Joint Meeting IPCTF and IPDOB	
2	waste for the purpose of processing	
3	and disposal."	
4	This is an extremely	
5	important regulation that has been	
6	ignored by various people and the	
7	NRC. I met with the chairman of the	
8	NRC, along with Admiral Haring	
9	(phonetic) in May about this, to try	
10	and have discussions. It just	
11	didn't go anywhere. Well, we had a	
12	good meeting but no follow-up. But	
13	I think this panel, board, assembly	
14	need to take a careful look at that	
15	regulation.	
16	Now, when I say what John	
17	taught me is go by the regulations,	
18	don't go by some internal opinion,	
19	and we do have internal opinions	
20	from the NRC but they're not	
21	regulations. And they say, well, we	
22	can move if we can move the	
23	canisters 10 feet or move them	
24	somewhere	
25	MR. KACZMAREK: Thirty seconds.	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. BLANCH: that meets	
3	the requirement. And that is not	
4	true.	
5	I think that this panel, and	
6	I have little handouts as far as the	
7	definitions from the Atomic Energy	
8	Act, Nuclear Waste Policy Act and 10	
9	CFR 72, but I think this panel needs	
10	to really take a look at it. We	
11	have no way to ever access that	
12	spent fuel, at least from the Holtec	
13	cask. Absolutely no spent fuel	
14	pool, no dry cask. That one	
15	elephant in the room, and I only	
16	have so much time, but there's	
17	another elephant in the room.	
18	MR. KACZMAREK: Mr just	
19	to let you know, you are at your	
20	three minutes.	
21	MR. BLANCH: Okay. I'll cut	
22	it off with what the other element	
23	is.	
24	THE CHAIR: Tom, no, that's	
25	okay.	

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1	Joint Meeting IPCTF and IPDOB	-
2	Paul, we'll give another 30	
3	seconds or so.	
4	MR. BLANCH: Okay.	
5	THE CHAIR: Go ahead.	
6	MR. BLANCH: The other	
7	element is on page 3, and that has	
8	to do with the residual radiation,	
9	what is left on the site. There is	
10	no limit to the amount of resi	
11	radiation or radioactive material	
12	that the licensee can bury onsite,	
13	and it makes it essentially a waste	
14	site when they leave it.	
15	So with that, thank you very	
16	much for listening to me, and I hope	
17	you understood what I said.	
18	And thank you, John, for the	
19	education.	
20	THE CHAIR: Thank you, Paul.	
21	MR. KACZMAREK: Thanks Paul.	
22	Is Dan Galinko present?	
23	THE CHAIR: Dan? Hi.	
24	MR. GALINKO: Thank you.	
25	Appreciate the floor. Maybe Dan	

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1	Joint Meeting IPCTF and IPDOB	
2	Galinko. I've lived in Cortlandt	
3	Manor, have kids in the Hendrick	
4	Hudson School District, elementary	
5	school age. Maybe first point of	
6	order is that the town to the south	
7	of Cortlandt is "KROE-ton," so just	
8	for the record, not "KRA-ton."	
9	Some of the questions here, I	
10	wish could be answered directly and	
11	it's sort of a shame we don't have a	
12	community rep that could directly	
13	pose these questions to the	
14	participants in these meetings, but	
15	that's for another topic.	
16	But, I think it's good for	
17	the board and the NRC to be honest	
18	with the public of just how much	
19	danger would be to the public if	
20	there's a breach of canisters in	
21	some way. I'd like to hear from the	
22	NRC what testing has been done about	
23	natural gas pipeline explosion and	
24	how safe those are under heat,	
25	duration of heat blast, et cetera.	

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1	Joint Meeting IPCTF and IPDOB	
2	That's the risk, and Tina mentioned	
3	the possibility of a 747 crashing	
4	into the site. But obviously it's a	
5	site with a lot of danger and	
6	understanding just how vulnerable	
7	those casks are to those type of	
8	events is quite important	
9	considering we have a 42-inch gas	
10	pipeline.	
11	Obviously, there is an NRC	
12	inspector general report that found	
13	some issue with the safety	
14	assessment that was done, saying it	
15	was reverse engineered. So I think	
16	we need a little bit more public	
17	confidence around just how safe	
18	those casks are in light of the	
19	highly dangerous gas that's nearby.	
20	I guess just another point	
21	I'd like to hear is just how close a	
22	playground should be to defueling	
23	and demolition. We have playgrounds	
24	very close to the facility. So	
25	that's something I'd be interested	

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1	Joint Meeting IPCTF and IPDOB	
2	to hear NRC weigh in on.	
3	And then just maybe a last	
4	point and a bit of me	
5	editorializing, but fuel transport,	
6	to me, seems like a science fiction.	
7	You know, it takes 15 years to	
8	permit just an electric transmission	
9	line in this country. I think we'd	
10	be litigating this for 150 years if	
11	we're actually gonna try to move	
12	uranium by rail. So I don't know, I	
13	think that's something that	
14	everybody should keep in mind.	
15	Thank you.	
16	MALE SPEAKER: Thank you.	
17	THE CHAIR: Thanks, Dan.	
18	MR. KACZMAREK: Thank you.	
19	With that, we'll move on to	
20	our Zoom participants who have asked	
21	to speak.	
22	First we have Lee Gough. Is	
23	Lee with us tonight?	
24	May I ask if Lee can be	
25	unmuted.	

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1	Joint Meeting IPCTF and IPDOB	
2	MS. GOUGH: Hi. This is Lee.	
3	THE CHAIR: Hi, Lee. We can	
4	hear you.	
5	MS. GOUGH: I'm calling from	
6	the Town of Esopus, and we're one of	
7	the seven towns that draw our	
8	drinking water from the Hudson. And	
9	I know today's topic was emergency	
10	management, but I want to echo the	
11	concerns of the other parent, I am a	
12	parent, and it is an emergency if	
13	any amount of radioactive material	
14	is leaking into the Hudson. And it	
15	is not easy to find on the	
16	Department of Health website nor	
17	are as some other public	
18	members of the public have pointed	
19	out, it's how would people even	
20	know where that information is?	
21	I did a quick search and	
22	couldn't find it just now, and I'm	
23	surprised that the representative	
24	from Riverkeeper seems hostile to	
25	the man from Verplanck who had some	

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1	Joint Meeting IPCTF and IPDOB	
2	very legitimate questions.	
3	And I just want to say that,	
4	in addition, a lot of talk was given	
5	to rail workers, and I certainly	
6	hope that all the actors involved	
7	and all the profiteers in this	
8	decommissioning are ensuring the	
9	health and safety of rail workers.	
10	It's happening at a time where we're	
11	well aware that rail workers have	
12	been banned from sick time or paid	
13	time off. And that should be a	
14	consideration given in any talk or	
15	planning for transport. And that's	
16	all I have to say tonight.	
17	THE CHAIR: Thank you, Lee.	
18	I just want to defend	
19	Richard. I don't think he meant to	
20	sound argumentative. I think he was	
21	simply pointing out that we do have	
22	this spent fuel pool discharge on	
23	our agenda for the next meeting.	
24	We've discussed it at previous	
25	meetings, but we will go in-depth	

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1	Joint Meeting IPCTF and IPDOB	
2	with multiple presentations on the	
3	topic at the next meeting.	
4	Thank you, Lee, for your	
5	comment.	
6	MR. KACZMAREK: Thank you.	
7	Next we have Suzannah	
8	Glidden. I ask Suzannah to be	
9	unmuted.	
10	MS. GLIDDEN: Hello, Tom,	
11	can you hear me?	
12	THE CHAIR: Yes, we can.	
13	MS. GLIDDEN: Thank you.	
14	We must have time to process	
15	any presentation that the NRC and	
16	DOE present about material safety.	
17	We also must hear from experts on	
18	emergency preparedness and response,	
19	medical public health, air	
20	monitoring, site contamination,	
21	discrete particles, canister cask	
22	systems, accessibility and hardened	
23	onsite storage, and release of	
24	radioactive water.	
25	I'm very pleased to announce	

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1	Joint Meeting IPCTF and IPDOB	
2	we will hold a forum of outstanding	
3	technical experts in mid February or	
4	early March and announce details as	
5	soon as available. And may I cede	
6	the rest of my time of two minutes	
7	to Paul Blanch to augment time for	
8	his comments tonight? Thank you.	
9	THE CHAIR: Paul, would you	
10	like to take Suzannah up on another	
11	two minutes? You're welcome to the	
12	mic.	
13	MR. BLANCH: I I	
14	appreciate the additional time, and	
15	the second issue, the second	
16	elephant in the room that no one is	
17	addressing is site remediation,	
18	which is covered under 10 CFR	
19	2013.01 and Part 20 2002, and it	
20	basically says we can release the	
21	site for unrestricted use if the	
22	radiation level waste height is x	
23	millirem. I forget what it is.	
24	The problem here, and we were	
25	on in a meeting with the NRC a	

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1	Joint Meeting IPCTF and IPDOB couple	
2	weeks ago, Michel Lee and myself and	
3	I said, you know, if it's not low	
4	enough to meet the requirements, you	
5	can just put a little more dirt on	
6	top of it. The problem is here with	
7	Indian Point where they're talking	
8	about repurposing, there is no	
9	limit, and the NRC cannot provide me	
10	an answer, of what can be buried on	
11	the site.	
12	For instance, at Maine Yankee	
13	and Connecticut Yankee, they have	
14	highly radioactive pipes embedded in	
15	concrete, and I think this panel,	
16	this group needs to get	
17	clarification from the NRC of what	
18	will be buried, how many curies or	
19	becquerels or mac you, know,	
20	microcuries.	
21	And what it boils down to, if	
22	you're going to bury manmade	
23	radioactive material, which they are	
24	doing, it becomes a low-level waste	
25	site, and if it's a low-level ways	

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1	Joint Meeting IPCTF and IPDOB	
2	site there are specific	
3	requirements. But, if you think	
4	about repurposing, just ask the NRC	
5	what is buried there.	
6	And I don't want to I	
7	appreciate all the time you've given	
8	me, but on the other issue, I think	
9	the panel here has to contact the	
10	NRC on that retrievability thing and	
11	demand an exemption or a rule	
12	change.	
13	But thanks very much for	
14	listening to me.	
15	THE CHAIR: Thank you very	
16	much, Paul.	
17	MR. KACZMAREK: Thank you.	
18	Next we have Judy Allen.	
19	If we could please unmute	
20	Judy Allen.	
21	THE CHAIR: Oh. Judy, I	
22	think you need to unmute.	
23	There you go.	
24	MS. ALLEN: Okay. Can you	
25	hear me?	

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1	Joint Meeting IPCTF and IPDOB	
2	THE CHAIR: Yes, we can hear	
3	you. Thank you.	
4	MS. ALLEN: Okay. So, I am	
5	reading questions that have come in	
6	from Jacqui Drechsler who is not	
7	able to be here tonight, but she	
8	wanted to read these into the	
9	record. And we understand that they	
10	will not be answered tonight, but	
11	anyway hear we go.	
12	We would like a radioactive	
13	water specialist, community advocate	
14	should be able to use some of the	
15	decommissioning funds to hire health	
16	experts.	
17	We would like a letter of	
18	agreement with the NRC that they	
19	will never allow Holtec to use	
20	decommissioning funds for	
21	international or national	
22	investments.	
23	We would like no waivers on	
24	cask checks, no exemptions on	
25	dismantling safety standards, for	

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1	Joint Meeting IPCTF and IPDOB	
2	instance, air monitoring for schools	
3	and for workers, homeland security,	
4	safety et cetera.	
5	And finally, we would like to	
6	know, is the inspector living there	
7	yet; and if not, why not?	
8	Thank you.	
9	THE CHAIR: I have to answer	
10	the last one. Our inspector doesn't	
11	live there, but he does have an	
12	office there and is there nearly	
13	full time?	
14	MR. CHAPIN: Nearly full	
15	time.	
16	THE CHAIR: But thank you for	
17	the comments, and we will get to	
18	those questions with the others	
19	before the next meeting.	
20	Thank you, Judy.	
21	MS. ALLEN: Thank you.	
22	MR. KACZMAREK: Thank you.	
23	Next we have Diane Turco.	
24	MS. TURCO: Hi. Can you	
25	hear me?	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. KACZMAREK: Yes, we can.	
3	MS. TURCO: Oh, hi. Hi. I'm	
4	Diane Turco and Director of Cape	
5	Downwinders, and I'm just sending a	
6	message from Pilgrim and the people	
7	in Massachusetts. Just quickly,	
8	just to answer some of what people	
9	have been saying. At Pilgrim,	
10	Holtec has been given exemptions to	
11	have emergency planning to the fence	
12	for radiological accidents, and then	
13	the state has picked up an all	
14	hazards plan, which is inappropriate	
15	for a radiological accident.	
16	Yucca Mountain is owned by	
17	the Shoshone Nation. Consent-based	
18	siting. The New Mexican Government	
19	and the people and citizens rejected	
20	Holtec's plan for a CIS but it's	
21	going forward.	
22	So I just wanted to warn you	
23	folks, Holtec here in Massachusetts	
24	is planning to dump over a million	
25	gallons of radioactive waste into	

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1	Joint Meeting IPCTF and IPDOB	
2	beautiful Cape Cod Bay. The	
3	Environmental Protection Agency has	
4	already warned Holtec that it is	
5	illegal under their NPDES permit to	
6	release that water and yet Holtec	
7	keeps that plan in place.	
8	Senator Markey has sent a	
9	letter to Holtec and asked them to	
10	commit to complying to the EPA	
11	regulations, and Holtec still has	
12	not done that. So just the other	
13	day, the EPA did send a letter to	
14	Holtec telling them that there would	
15	be fines and perhaps imprisonment if	
16	they go through with the plan.	
17	So just to let you know,	
18	every community from Scituate all	
19	the way to Provincetown, our	
20	legislators or senators,	
21	representatives have all said no	
22	dumping in the bay, use a more	
23	responsible and legal plan to manage	
24	that high-level that waste water.	
25	But it is illegal in the State of	

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1	Joint Meeting IPCTF and IPDOB	
2	Massachusetts to dump but Holtec is	
3	still planning to do so.	
4	So look at what's happening	
5	in Massachusetts 'cause you folks	
6	are just right behind us, and Holtec	
7	is not a corporation to be trusted.	
8	Thank you for your time	
9	thank you for the time.	
10	THE CHAIR: Thank you.	
11	MR. KACZMAREK: Thank you.	
12	Next we have Manna Jo Greene.	
13	MS. GREENE: Can you hear me	
14	now?	
15	THE CHAIR: Yes, thank you,	
16	Manna.	
17	MS. GREENE: Okay. I have	
18	three follow-up questions and some	
19	information.	
20	The first is for the NRC, if	
21	the canisters are welded shut, how	
22	are the fuel assemblies retrievable	
23	if a problem occurs? And that's a	
24	follow-up to what Paul Blanch said.	
25	My second question is, are	

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1	Joint Meeting IPCTF and IPDOB	
2	samples currently being taken for	
3	nuclear autopsy to test for	
4	embrittlement or other effects of	
5	intense exposure to radiation?	
6	My third question is, how is	
7	scratching to be prevented? These	
8	are indeed thin-walled canisters;	
9	they're a half inch to five-eighths	
10	an inch. The're essentially a big	
11	tin can made of steel, of	
12	stainless steel. But how will	
13	Holtec prevent scratching when	
14	loading, because scratching can	
15	ultimately lead to through-wall leak.	
16	And then, I was able to send	
17	the information that Kelly Turtoro	
18	presented about the community air	
19	monitor plan to Eric Epstein of	
20	Three Mile Island, who's one of the	
21	leading experts probably in the	
22	world and certainly in the country	
23	on air monitoring. And he sent back	
24	a lot of information, we went	
25		

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1	Joint Meeting IPCTF and IPDOB	
2	through that, and I will send it to	
3	Kelly to share with the DOB and the	
4	committee working on community air	
5	monitoring.	
6	I am concerned that there is	
7	a difference between emergency	
8	preparedness for a nuclear incident	
9	versus a pipeline incident and what	
10	would happen if they were	
11	concurrent. And with all the	
12	discussion, I don't think that	
13	question has been answered yet.	
14	And lastly, I will be	
15	circulating information from Bob	
16	Alvarez, who is one of the leading	
17	experts, worked I believe for	
18	Department	
19	MR. KACZMAREK: Thirty	
20	seconds.	
21	MS. GREENE: of Energy and	
22	on tritium. It's not something to	
23	dismiss easily, and his comments I	
24	think are really important. Thank	
25	you.	

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1	Joint Meeting IPCTF and IPDOB	
2	THE CHAIR: Thank you, Manna.	
3	MS. GREENE: And I will	
4	send I will email my questions.	
5	THE CHAIR: Thank you, that	
6	will be helpful.	
7	MR. KACZMAREK: Next we have	
8	Ellen Weininger.	
9	Ellen, I believe you may be	
10	unmuted.	
11	MS. WEININGER: Okay. Can	
12	you hear me now?	
13	THE CHAIR: Yes.	
14	MR. KACZMAREK: Yes.	
15	MS. WEININGER: Thank you	
16	very much, and thank you for this	
17	opportunity for this meeting.	
18	I want to emphasize the	
19	importance of all those topics and	
20	issues that need to be addressed,	
21	and most especially the importance	
22	of medical experts and public health	
23	experts as pertains to all of these	
24	issues. There has not been anyone	
25	in invited to the DOB or part of	

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1	Joint Meeting IPCTF and IPDOB	
2	the DOB that has those kinds of	
3	qualifications.	
4	And I'd like to read a	
5	statement from Ira Helfand, who's	
6	the cofounder and past president of	
7	Physicians for Social Responsibility	
8	in the United States and also a 1985	
9	Nobel Peace Prize winner: "I have	
10	been aware of the extraordinary	
11	public health risks posed by the	
12	Indian Point Nuclear Power Plant for	
13	decades and was gratified to learn	
14	several years ago that the plant was	
15	finally being shut down. While	
16	aware of the continued dangers to	
17	the public that accompany the	
18	decommissioning process, I was	
19	nonetheless shocked to learn that	
20	these dangers are compounded in the	
21	case of Indian Point by the	
22	colocation of three large diameter	
23	high pressure natural gas pipelines.	
24	Indeed, it is barely credible that	
25	these pipelines were ever allowed to	

		213
1	Joint Meeting IPCTF and IPDOB	
2	pass in such close proximity to the	
3	plant, and it is truly incredible	
4	that there is a public school less	
5	than 400 feet from the pipelines and	
6	less than 4,000 feet from the	
7	reactor.	
8	"If this situation were part	
9	of the proposed plotline for a Grade	
10	B movie, it would be dismissed as	
11	too unrealistic to be usable. No	
12	one would ever allow such an	
13	unexpectedly dangerous situation.	
14	Yet while this arrangement would not	
15	pass muster in a movie, it has been	
16	allowed to develop at Indian Point.	
17	The fact that the current	
18	decommissioning work is being	
19	allowed to progress without a	
20	mandated public health assessment	
21	adds to the picture of spectacularly	
22	negligent oversight of this	
23	extraordinarily hazardous site.	
24	The only thing missing is an actual	
25	catastrophic accident.	

		214
1	Joint Meeting IPCTF and IPDOB	
2	"So several steps must be	
3	taken immediately to try to prevent	
4	the disastrous outcome. First,	
5	natural gas transmission through the	
6	three pipelines must be stopped	
7	immediately so that the	
8	decommissioning can continue without	
9	the added risk created by this	
10	co-siting. Second, there must be	
11	independent health impact risk	
12	assessment and the creation of	
13	monitoring, safety and emergency	
14	protocols for the community and	
15	nearby school during these	
16	decommissioning operations."	
17	MR. KACZMAREK: Thirty	
18	seconds.	
19	MS. WEININGER: "Third, the	
20	Buchanan-Verplanck Elementary School	
21	must not be allowed to reopen in	
22	September" that's this past	
23	September "at the current	
24	location until this assessment has	
25	been completed, and then only if it	

		215
1	Joint Meeting IPCTF and IPDOB	
2	is found that it can operate safely	
3	as the decommissioning progresses.	
4	I hope that New York State will take	
5	the necessary steps to protect its	
6	citizens from the totally	
7	unacceptable risk to public health,	
8	which has been brought to its	
9	attention. Sincerely, Ira Helfand,	
10	M.D."	
11	Thank you so much and would	
12	very much appreciate your urgent	
13	attention to this issue of public	
14	health by medical experts and public	
15	health experts. Thank you much	
16	very much again.	
17	THE CHAIR: Thank you, Ellen.	
18	MS. WEININGER: Have a good	
19	night.	
20	MR. KACZMAREK: Thank you.	
21	Next we have actually, our	
22	final speaker tonight is Susan	
23	Leifer.	
24	MS. LEIFER: Hi. I guess	
25	I'm gonna go back over something	

		216
1	Joint Meeting IPCTF and IPDOB	
2	that's troubling all of us.	
3	There's been no real safety	
4	assessment of the combination of a	
5	rupture from the gas pipeline and	
6	it's effect on the nuclear material.	
7	And there's been no discussion with	
8	the public as to what to do. I	
9	doubt if the workers who are in	
10	charge of our health emergency have	
11	any idea what to do, and it seems to	
12	me the elephant in the room, and	
13	because it's not under one, it's not	
14	under the NRC and it's not under	
15	it's not under one organization and	
16	we just avoided connecting it.	
17	Thank you.	
18	MR. KACZMAREK: Thank you.	
19	That concludes our public	
20	statement portion of tonight's	
21	meeting. Information on other	
22	comment opportunities will be	
23	provided on a later slide. Thank	
24	you.	
25	THE CHAIR: Thank you, Tom.	

		217
1	Joint Meeting IPCTF and IPDOB	
2	Generally speaking, we try to	
3	wrap the meetings by 9, that's in	
4	five minutes, so I'd ask the DOB	
5	members if we can stick around a	
6	little beyond 9 probably go to 9:10	
7	or so. We have just a few more	
8	presentations with updates.	
9	I want to thank all of the	
10	speakers from the public statement	
11	portion of the meeting. As I said,	
12	any questions that you raised we	
13	will endeavor to answer before our	
14	next meeting and post on our	
15	website.	
16	You know, there were a few	
17	comments regarding the natural gas	
18	pipeline, and I would encourage	
19	those speakers if they haven't	
20	already done so to review previous	
21	presentations on our website that	
22	we've made. We had a guest speaker	
23	come, a pipeline expert, discuss	
24	ways to mitigate the risks. We	
25	appreciate the ongoing concerns in	

		218
1	Joint Meeting IPCTF and IPDOB	
2	the community. We share those	
3	concerns; that's why we take the	
4	issue so seriously and why there are	
5	several protocols that we have	
6	established to be responsive to that	
7	concern.	
8	We appreciate the ongoing	
9	attention to it, and we will	
10	continue to have ongoing attention	
11	to it. We do anticipate the federal	
12	safety assessment to be released	
13	soon. When that is released,	
14	obviously we will distribute it,	
15	we'll will post it on our website,	
16	and we will invite the authors to	
17	present at a future meeting.	
18	But with that being said	
19	let's turn to the next few brief	
20	presentations. We do have a few	
21	updates that we want to provide to	
22	the members and to the public.	
23	Next slide, please.	
24	And Tom Scaglione from ESD is	
25	gonna give us a review of cessation	

		219
1	Joint Meeting IPCTF and IPDOB	
2	mitigation fund activity since	
3	well, for the year.	
4	So, Tom, could you just give	
5	a brief update?	
6	MR. SCAGLIONE: Absolutely,	
7	Tom.	
8	Good evening, board members	
9	and members of the public. So just	
10	a quick update on the electric	
11	generation facility cessation	
12	mitigation program and its	
13	associated fund. Some payments,	
14	some updated payment amounts hear	
15	that have taken place over the	
16	course of November of this year. As	
17	you see on the slide, Buchanan	
18	received its second payment in the	
19	amount \$1,095,303, the County of	
20	Westchester received it's first	
21	payment in the amount of \$1,201,316	
22	also in November, and the Town of	
23	Cortlandt received it's first	
24	payment in the amount of \$348,240	
25	also in November, and we have	

		220
1	Talah Masalian IDCEE and IDDOD	220
1	Joint Meeting IPCTF and IPDOB	
2	reported previously that Hendrick	
3	Hudson School District received it's	
4	first payment in the amount of	
5	\$6,984,755 in May. Just overall on	
6	the fund balance of \$140 million	
7	that had been previously authorized	
8	there's approximately \$86 million	
9	remaining, and also will note that	
10	we have again new applicants since	
11	October of 2021, including Tompkins	
12	County for the Cayuga facility,	
13	Niagara County for the Somerset	
14	facility and the Town of Somerset	
15	for the Somerset facility, and that	
16	concludes our update.	
17	THE CHAIR: Thank you, Tom.	
18	For our friends at NRC, to	
19	the extent that you're in other	
20	communities with power plant	
21	closures and the concern around lost	
22	tax revenue, we're very proud of	
23	this one in New York. There is a	
24	program that provides seven years of	
25	transitional funding to the taxing	

		221
1	Joint Meeting IPCTF and IPDOB	
2	jurisdictions to ease the transition	
3	and gradually reduce the grants as	
4	the tax base adjusts to the loss of	
5	revenue from the closed power plant.	
6	But, Tom, thanks for the	
7	update, and it's really great to see	
8	that the money is flowing to all the	
9	effected taxing jurisdictions.	
10	Any questions for Tom?	
11	Okay. Next slide, please.	
12	And, Sandy, at the last	
13	meeting you'd asked for an update on	
14	the \$15 million Community and	
15	Environmental Benefits Fund. This	
16	was part of the settlement with	
17	Entergy closing the plant. Fifteen	
18	million was set aside for the	
19	community for environmental and	
20	community benefit projects and to	
21	provide and update on the grants	
22	that were announced previously,	
23	Alyse Peterson from NYSERDA.	
24	And just so you know NYSERDA	
25	is custodian of the funds, the 15	

		222
1	Joint Meeting IPCTF and IPDOB	
2	million is in an account managed by	
3	NYSERDA, and as the grantees meet	
4	their the milestones, they are the	
5	ones that get to cut the check. So	
6	thank you, Alyse. Thank you,	
7	NYSERDA, for being custodian of the	
8	funds, and thank you for providing	
9	us a brief update.	
10	Go ahead.	
11	MS. PETERSON: Sure. It's	
12	always a good position to be in to	
13	be handing out money.	
14	THE CHAIR: Mm-hmm, mm-hmm.	
15	MS. PETERSON: Thank you.	
16	Yeah.	
17	The slide that we have up	
18	provides you with an interim report	
19	on the projects that Tom described	
20	that have been awarded. There are	
21	some formal reporting requirements	
22	built into the program, but those	
23	won't kick in until next year. So	
24	we have this informal report for you	
25	now.	

		223
1	Joint Meeting IPCTF and IPDOB	
2	Awards have been made for the	
3	Hudson River Foundation and	
4	Teamsters Local 456, Historic Hudson	
5	Valley, a combined award for the	
6	Village of Buchanan and the Town of	
7	Cortlandt, and finally the Hendrick	
8	Hudson School District.	
9	Looking at the status of each	
10	and you see bullets on the slide,	
11	the Hudson River foundation was	
12	awarded \$6.5 million to support the	
13	continuation of the Hudson River	
14	Biological Monitoring Program.	
15	Jonathan Kramer, the President and	
16	CEO of the Hudson River Foundation	
17	has reported that a work plan has	
18	been developed and that this	
19	award is expected to support	
20	monitoring activities through 2027.	
21	Second, the Teamster's Local	
22	456 was awarded \$250,000 for the	
23	purchase and operation of a	
24	commercial driver trainingsimulator	
25	to support those members and former	

		224
1	Joint Meeting IPCTF and IPDOB	
2	plant employees seeking a commercial	
3	driver's license. Denise June,	
4	Training Director for the Teamster's	
5	Local 456 has reported that numerous	
6	students have already been trained	
7	or are actively training on that	
8	simulator.	
9	Next, the Historic Hudson	
10	Valley was awarded \$750,000 to	
11	support historical and environmental	
12	integrity improvements to the Van	
13	Cortlandt Manor property. Peter	
14	Pockriss, Senior Vice-President at	
15	Historic Hudson Valley has reported	
16	that planning is actively	
17	progressing and they are on track to	
18	put the project out to bid next	
19	spring and initiate construction in	
20	December of 2023.	
21	The Village of Buchanan and	
22	Town of Cortlandt were jointly	
23	awarded up to \$7 million for	
24	intermunicipal projects. Both	
25	communities are activity discussing	

		225
1	Joint Meeting IPCTF and IPDOB	220
2	projects at this time.	
3	And then finally, a half	
4	million excuse me. Yes, a half	
5	million dollars was awarded to	
6	support community monitoring for the	
7	benefit of Hendrick Hudson School	
8	District. Dan Bendell, from the	
9	Department of Environmental is on	
10	the line to provide a brief update	
11	on the status of that project.	
12	Now, do we want to go to Dan	
13	first before taking questions on	
14	these?	
15	THE CHAIR: Yeah, let's go to	
16	Dan.	
17	MS. PETERSON: Yeah.	
18	THE CHAIR: And then if there	
19	are questions, we can take them.	
20	Go ahead, Dan.	
21	Next slide, please.	
22	Dan Bendell, are you with us?	
23	MR. BENDELL: Yes, I am. I'm	
24	trying to see the slide.	
25	THE CHAIR: There you are.	
25	ind chair. There you are.	

		226
1	Joint Meeting IPCTF and IPDOB	
2	We hear you.	
3	MR. BENDELL: Okay. Good	
4	evening. Dan Bendell with New York	
5	State DEC. So, as part of, as	
6	they've said we're working with the	
7	DOB through a work group for the	
8	community air monitoring plan, and	
9	we've been working with the	
10	Department of Health and other New	
11	York State experts to develop an RFP	
12	for this plan, which I believe we're	
13	on schedule to have out before the	
14	end of December, this month. And	
15	we've already gone through some	
16	versions of it and we're the	
17	technical experts from both the	
18	Department of Health and the DEC	
19	have combined to put this together.	
20	And it's now in the DPS's with	
21	the Public Service to go out for	
22	proposals.	
23	THE CHAIR: Thank you, Dan,	
24	very much.	
25	Questions for Alyse, Dan or	

		227
1	Joint Meeting IPCTF and IPDOB	
2	any of us on the status of projects?	
3	Sandy?	
4	MS. GALEF: Well, I guess I'm	
5	concerned about the \$7 million for	
6	Buchanan and Cortlandt, that there	
7	doesn't seem to be any progress	
8	or you know, on that chart. And	
9	I'm just wondering if maybe another	
10	proposal might be accepted for that	
11	amount of money. Isn't that the	
12	largest disbursement of dollars	
13	THE CHAIR: Yes, so	
14	MS. GALEF: from this	
15	fund?	
16	THE CHAIR: on the 7	
17	million that is targeted, we say	
18	into municipal projects but what	
19	we're specifically referring to is	
20	sewer infrastructure projects, which	
21	we are excited about. We think	
22	there's a number of benefits	
23	associated with doing sewer project;	
24	obviously, environmental benefits to	
25	the river, economic to the town, and	

		228
1	Joint Meeting IPCTF and IPDOB	
2	there's real taxpayer benefits as	
3	well because the village is on the	
4	hook to do significant upgrades of	
5	their sewage treatment facility	
6	which without this grant would be	
7	costs would be borne by their	
8	taxpayers. So we're still hopeful	
9	that the intermunicipal agreements	
10	can be reached between the town and	
11	the village. And I'm encouraged	
12	that I understand the discussions	
13	are still underway.	
14	So I don't think, Sandy, to	
15	answer your question that there	
16	that we need to go to alternatives,	
17	but if agreement isn't reached and	
18	the town and the village choose not	
19	to pursue the joint sewage projects,	
20	then yes, we would have to find	
21	alternatives. I don't know if	
22	MS. GALEF: Is there a	
23	timeframe? Have we put a you	
24	know, say within the next two	
25	months?	

		229
1	Joint Meeting IPCTF and IPDOB	
2	THE CHAIR: Rich, do you want	
3	to talk to that?	
4	MS. GALEF: Rich?	
5	MR. BECKER: Sure. We have	
6	a preliminary document that was	
7	drawn up by the Village of Buchanan,	
8	and we're trying to negotiate it. I	
9	believe we've made some good	
10	progress recently.	
11	The plant belongs to Buchanan	
12	and they're very protective of it	
13	and in an understandable way, and	
14	we're trying to reach an agreement	
15	that will allow the first portion of	
16	the funds to go for the rehab of the	
17	program to bring of the plant to	
18	bring it into compliance. The	
19	second portion of funds would go to	
20	the expansion of the plant so that	
21	they could accept the additional	
22	capacity and the third portion would	
23	be to go to put the sewer pipes in	
24	that would allow the Town of	
25	Cortlandt to connect into it.	

		230
1	Joint Meeting IPCTF and IPDOB	
2	So, we tentatively have	
3	scheduled on our follow-up meeting,	
4	we met here about two weeks ago, and	
5	we have another meeting scheduled a	
6	week from Monday, I think it's the	
7	19th, so I'll keep you posted.	
8	THE CHAIR: Thank you, Sandy.	
9	Thank you, Rich.	
10	We had been joined earlier by	
11	Mayor Knickerbocker. I'm not sure	
12	if she's still on, wants to weigh in	
13	on this issue at all.	
14	I don't think we still have	
15	her, but I know she shares the	
16	sentiment that there are fruitful	
17	discussions still underway.	
18	If you could go to the next	
19	slide, please.	
20	Okay. As we did for 2022 and	
21	at the request of many members of	
22	the community, we'd like to proceed	
23	with publishing our meeting schedule	
24	for 2023. Tom Kaczmarek has reached	
25	out to all of the DOB members and	

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1	Joint Mooting IDCUE and IDDOD	231
1	Joint Meeting IPCTF and IPDOB	
2	solicited feedback on this schedule.	
3	It seems to be the consensus, so we	
4	will be posting this on our website.	
5	The next meeting will be on	
6	February 2nd, and as we've discussed	
7	earlier, the topic, the main topic	
8	will be spent fuel pool water	
9	removal. All the meetings will take	
10	place here at Cortlandt Town Hall,	
11	generally at the same time, 6 to 9.	
12	So, with that, please go to	
13	the next slide unless are any	
14	questions on the schedule.	
15	Okay. Another quick	
16	announcement. Many of you know Dave	
17	Lochbaum, our independent nuclear	
18	expert, has been extremely generous	
19	with his time; he's a volunteer.	
20	Any questions that comes up of a	
21	technical nature, he is quick to	
22	respond to and members of the DOB	
23	often receive slide decks from Dave	
24	even when no one has asked him for a	
25	slide deck, it seems a question is	

		232
1	Joint Meeting IPCTF and IPDOB	
2	out there, he knows it will be of	
3	interest to us and he put some	
4	really incredible information	
5	together for us. And we are really	
6	greatly appreciative of that, and we	
7	want to share that with the world.	
8	So we asked Dave if we'd	
9	posted his work that he has been	
10	doing behind the scenes for the DOB	
11	on our website. And we will be	
12	dedicating a portion of our website	
13	to Dave Lochbaum's research and	
14	presentations that he has provided	
15	to the DOB, and I think members of	
16	the public will find it very, very	
17	educational.	
18	Dave, I don't know if you	
19	wanted to say anything about this,	
20	but we're excited to present this.	
21	MR. LOCHBAUM: Well, thanks,	
22	Tom. I appreciate the arrangement	
23	to do that. I also appreciate the	
24	fact that there's a disclaimer on	
25	that page saying that the materials	

		233
1	Joint Meeting IPCTF and IPDOB	
2	present my my views and opinions,	
3	not necessarily those of the DOB or	
4	New York State or the Joint Task	
5	Force. They're my views. Any	
6	opinions are mine and any mistakes	
7	are mine as well.	
8	THE CHAIR: Well, we are	
9	very grateful and appreciate all the	
10	work that you're doing.	
11	Next slide, please.	
12	I want to just remind the	
13	public that in addition to the	
14	public statement portion, there are	
15	opportunities to comment at any time	
16	on our website, and these are the	
17	instructions how to go there.	
18	Next slide, please.	
19	This is an important thing I	
20	don't think enough members of the	
21	community take advantage of.	
22	There's an opportunity to subscribe	
23	to our proceeding essentially, which	
24	means that anytime new documents get	
25	posted into our document management	

		234
1	Joint Meeting IPCTF and IPDOB	
2	system, there could be an email	
3	alert. So, when there are meetings,	
4	you'll get the meeting notices.	
5	When there are new documents posted,	
6	there's correspondence maybe from	
7	agencies on the DOB to the NRC,	
8	there's an opportunity for you to be	
9	notified that those documents have	
10	been entered into our website and	
11	you can stay up-to-date on those	
12	kind of things.	
13	When the video broadcast of	
14	these meetings gets posted, the	
15	archives, when it gets posted, a	
16	notification will go out. But you	
17	need to subscribe and so we really	
18	encourage the members of the public	
19	to go through the steps on our	
20	website to subscribe to our service	
21	list, and that will provide you with	
22	those notifications so that you can	
23	stay up-to-date and see all the	
24	information that is flowing through	
25	the DOB.	

		235
1	Joint Meeting IPCTF and IPDOB	
2	Next slide, please.	
3	Again, another very good	
4	recommendation from the community	
5	was to create a website that is a	
6	little easier to navigate than our	
7	regulator website at the DPS. We	
8	did that. It's within the DPS	
9	website but it's dedicated to Indian	
10	Point. The address is on this	
11	slide, dps.ny.gov/indianpoint.	
12	You'll find there all of the	
13	decommissioning updates, our	
14	schedule for the meetings, links to	
15	document library that I was just	
16	referring to, there are	
17	notifications for when federal	
18	comments are due.	
19	When we post answers to all	
20	of your questions that we hear at	
21	these meetings, it's available; we	
22	post them on this website, and as I	
23	just mentioned, Dave Lochbaum's work	
24	will also be available.	
25	Next slide, please.	

		236
1	Joint Meeting IPCTF and IPDOB	
2	The Indian Point tip line,	
3	you know, I want to just remind the	
4	workers at Holtec, you see	
5	something, say something. We	
6	obviously are here to ensure public	
7	safety is protected. We care about	
8	the workers as well, and if the	
9	workers there who are doing all of	
10	the amazing work to continue to make	
11	the site safer every single day see	
12	concerns, we want you to know that	
13	we have a whistleblower process.	
14	You can call us at this number	
15	518.486.1487. You can e-mail tips	
16	to us at IP.Tips@dps.ny.gov.	
17	And, Tom, or sorry, next	
18	slide. As I said, next slide.	
19	Next meeting is February 2nd,	
20	and before I adjourn, I also want to	
21	acknowledge that Sandy Galef is	
22	retiring. This is her last meeting	
23	with us. Sandy has been just an	
24	incredible partner, and it is really	
25	thanks to Sandy that this whole body	
	in the state of th	

		237
1	Joint Meeting IPCTF and IPDOB	
2	exists. Sandy introduced the	
3	legislation to create the Indian	
4	Point Closure Task Force. She	
5	introduced the legislation that	
6	would have created the	
7	Decommissioning Oversight Board.	
8	You typically, you know, as the	
9	head of an agency, you know, we can	
10	sometimes get annoyed with a lot of	
11	legislation telling the agency what	
12	it should or shouldn't do. In this	
13	case we really welcomed it and it	
14	was a good idea and it's been a	
15	great success, in my opinion. Of	
16	course we've had some bumps in the	
17	road, but with your leadership and	
18	working with the community, we've	
19	been listening to what the host	
20	community needs. We've brought	
21	state government to the local	
22	community, and it's really due to	
23	your tireless efforts and we greatly	
24	appreciate you. We will miss you	
25	dearly. And we've put together a	

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1	Joint Meeting IPCTF and IPDOB	
2	Certificate of Appreciation for	
3	Sandy Galef.	
4	(Standing ovation)	
5	Ms. GALEF: (Inaudible),	
6	thank you so much. Maybe the NRC	
7	some time.	
8	Anyway I just really want to	
9	thank Tom and the whole	
10	Decommissioning Oversight Board is	
11	terrific.	
12	And it wasn't just me. It	
13	was you have to remember Pete	
14	Harckham	
15	THE CHAIR: Yes.	
16	MS. GALEF: my pal, right,	
17	Tito? We had the legislation but we	
18	worked with so many people that are	
19	in this community that are sitting	
20	here today on that legislation. It	
21	didn't turn it changed you know	
22	every week. We never knew whether	
23	it was going to happen, and we're so	
24	excited when Andrew Cuomo, as	
25	Governor, really picked up on it and	

		239
1	Joint Meeting IPCTF and IPDOB	
2	said this is a good idea and then we	
3	have what we have today. And it's	
4	just really been I think every	
5	meeting is so informative, so	
6	involving. I think we've made a lot	
7	of progress and I it will go on	
8	for a long time. I don't think	
9	there's an end to this DOB, is	
10	there? Until	
11	THE CHAIR: Your statute	
12	sunsets on the Indian Point Task	
13	Force, not that I'm, you know	
14	looking forward to that day but	
15	MS. GALEF: Thank you all so	
16	very much. It's just really been a	
17	pleasure and I will track you all as	
18	you go forward with all these other	
19	issues. Thank you.	
20	THE CHAIR: Thank you, Sandy.	
21	MR. SIPOS: Thank you, Sandy.	
22	(Applause)	
23	THE CHAIR: So thank you all	
24	very much. That I'm sorry.	
25	Richard?	

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1	Joint Meeting IPCTF and IPDOB	
2	MR. WEBSTER: I just have one	
3	last thing.	
4	THE CHAIR: Yeah, sure.	
5	MR. WEBSTER: Just in case we	
6	get accused of not, not doing	
7	things, right, is that first of	
8	all, obviously let's thank Sandy yet	
9	again because, you know, if it	
10	wasn't for Sandy and Pete Harckham,	
11	who actually picked up on the	
12	community ideas, it wouldn't have	
13	happened. But of course if the	
14	community hadn't had the ideas in	
15	the first place, it wouldn't have	
16	happened.	
17	THE CHAIR: Right.	
18	MR. WEBSTER: And if the	
19	Governor hadn't have picked up so	
20	there were a lot of steps along the	
21	way but it's great that it happened.	
22	I hope that it's not just the	
23	members of the task force that	
24	thinks it's a good thing. At least,	
25	you know, information's getting out	

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1	Joint Meeting IPCTF and IPDOB	
2	there. We are developing some	
3	solutions. The situation, I think	
4	I hope most people believe that	
5	it's better than it would have been	
6	without the task force.	
7	That said there was a	
8	violation, an NRC violation that	
9	Holtec received in the last quarter,	
10	I believe, since the last meeting	
11	about the negative pressure on the	
12	containment, and I don't think we	
13	want to deal with it tonight. But I	
14	want to acknowledge it and say we're	
15	concerned about it. These	
16	violations should not happen. I	
17	think I want to go into detail on	
18	this and understand why it happened	
19	and make sure that these violations	
20	won't be repeated, not just for the	
21	containment but for other systems.	
22	THE CHAIR: Richard, I think	
23	that's thank you for raising it,	
24	and I failed to mention that	
25	typically with our meetings it's	

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1	Joint Meeting IPCTF and IPDOB	
2	routine for us to have a	
3	presentation by Holtec and by the	
4	agency oversight entities to discuss	
5	activities since the last meeting.	
6	In the interests of time because we	
7	had so many presentations we didn't	
8	do that this time. We did circulate	
9	presentations by both Holtec and the	
10	state agencies to the DOB members;	
11	they're posted on our website.	
12	But, you're absolutely	
13	correct; there was a violation. We	
14	should discuss that at the next	
15	meeting in more depth than we have	
16	time for tonight and we will do	
17	that. So thank you for raising it.	
18	With that, I think we should	
19	adjourn. I appreciate everyone's	
20	attendance and participation and	
21	engagement. Thank you.	
22	(Time noted: 9:14 p.m.)	
23		
24		
25		

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2	CERTIFICATE	
3	STATE OF NEW YORK)	
4) ss.: COUNTY OF WESTCHESTER)	
5		
6	I, BARBARA HIGHTOWER, a	
7	Shorthand Reporter and Notary Public	
8	and Kathleen T. Keilty, a Certified	
9	Shorthand Reporter and Notary Public	
10	within and for the State of New	
11	York, do hereby certify the	
12	foregoing transcript is a true	
13	record of said proceedings;	
14	We further certify that we	
15	are not related by blood or	
16	marriage, to any of the parties in	
17	this matter and that we are in no	
18	way interested in the outcome of	
19	this matter.	
20	IN WITNESS WHEREOF, we	
21	hereunto set our hand this 20th day	
22	of December 2022.	
23	Barbara Hightower BARBARA HIGHTOWER	
24		
25	Kathleen T. Keilty KATHLEEN T. KEILDY	

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