

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

Before Administrative Judges:

Lawrence G. McDade, Chairman  
Dr. Michael F. Kennedy  
Dr. Richard E. Wardwell

In the Matter of

ENTERGY NUCLEAR OPERATIONS, INC.

(Indian Point Nuclear Generating Units 2 and 3)

Docket Nos. 50-247-LR and 50-286-LR

ASLBP No. 07-858-03-LR-BD01

February 28, 2013

ORDER

(Adopting Proposed Transcript Corrections and Resolving Contested Corrections)

On February 5, 2013, Entergy Nuclear Operations, Inc., Riverkeeper, Inc., the State of New York, the NRC Staff, and Hudson River Sloop Clearwater, Inc. filed a joint proposal of transcript corrections for the evidentiary hearing held on November 28 and December 10-13, 2012.<sup>1</sup> The Board adopts the parties' proposed transcript corrections. The Board resolves the contested corrections as follows:

Page	Line	Now Reads	Should Read	Witness/Speaker
4225	10	state, something that is quiescent or	state, something that is quiescent or	MR. CRAIG
4277	14-15	or liability impact	<u>a reliability</u> impact	MR. McCAFFREY
4317	23	clarify that that is	clarify that that is	DR. DOBBS
4447	12	polite suggestion to the next time	polite suggestion to the next time	MR. CRAIG

<sup>1</sup> Letter from Counsel for Entergy Nuclear Operations, Inc., Counsel for Riverkeeper, Inc., Counsel for the State of New York, Counsel for the NRC Staff, and Counsel for Hudson Sloop Clearwater, Inc., to Lawrence G. McDade, Chairman, Dr. Michael F. Kennedy, and Dr. Richard Wardwell, Atomic Safety and Licensing Board (Feb. 5, 2013) at 1.

In the case of the contested corrections, the Board reviewed an audio recording of the appropriate section of the transcript to resolve each contested correction.

In accordance with 10 C.F.R. § 2.327(d), the Board has attached an appendix of all corrections to the November 28 and December 10-13, 2012 transcripts to this order, which shall be included in the record of this proceeding. Pursuant to 10 C.F.R. § 2.327(d), the Office of the Secretary will “make the necessary physical corrections in the official transcript, so that it will incorporate the changes ordered.”<sup>2</sup>

It is so ORDERED.

FOR THE ATOMIC SAFETY  
AND LICENSING BOARD

***/RA/***

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Lawrence G. McDade, Chairman  
ADMINISTRATIVE JUDGE

Rockville, Maryland  
February 28, 2013

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<sup>2</sup> 10 C.F.R. § 2.327(d).

**APPENDIX TO THE TRANSCRIPT PURSUANT TO 10 C.F.R. § 2.327(d)**

**Proceeding Name:** Entergy Nuclear Operations, Inc. (Indian Point Generating Units 2 and 3)

**Docket Nos.:** 50-247-LR and 50-286-LR

**ASLBP No.:** 07-858-03-LR-BD01

**Contention:** NYS-37

**Hearing Date(s):** November 28, 2012

**ACCEPTED CORRECTIONS:**

<b>Page</b>	<b>Line</b>	<b>Now Reads</b>	<b>Should Read</b>	<b>Witness/Speaker</b>
3171	11	(202) 739-5435	(202) 739-5061	
3172	9	(301) 415-3172	(301) 415-3122	
3175	9	on a contention New York	on contention New York 37	CHAIR McDADE
3175	22	Office of General Council	Office of General <u>Counsel</u>	MS. SUTTON
3177	3	individual who are here	individual <u>s</u> who are here	CHAIR McDADE
3177	23	Mrs. Schlissel	<u>Mr.</u> Schlissel	CHAIR McDADE
3181	4	to the CheckWorks	to the <u>CHECWORKS</u>	CHAIR McDADE
3181	19	MS. SUTTON	MS. MIZUNO	
3183	6	third and second	third	MS. SUTTON
3187	16	Units 1 and 2	Units <u>2 and 3</u>	CHAIR McDADE
3188- 3189	25-3	Whereupon was called as a witness by the parties, and having previously first duly sworn, assumed the witness stand and was examined and testified as follows:	[indent]	
3190	2	New York's 30 X 15	New York's 30 <u>by</u> 15	JUDGE WARDWELL
3190	4	for	from	JUDGE WARDWELL

Page	Line	Now Reads	Should Read	Witness/Speaker
3190	25	30 X 15	30 <u>by</u> 15	JUDGE WARDWELL
3191	20	of the Indian Point's unit close	of the Indian <u>Point</u> <u>units</u> close	MR. BRADFORD
3194	23	that Kewaunee	<u>at</u> Kewaunee	MR. BRADFORD
3195	7	go offline. Suddenly it happens	go offline <u>suddenly</u> . It happens	MR. BRADFORD
3196	20	or	for	CHAIR McDADE
3197	10	end of	and	MR. BRADFORD
3198	13	types generation	types <u>of</u> generation	MR. BRADFORD
3199	1	unfold3if	unfold_if	MR. BRADFORD
3199	19	conversation	conservation	MR. BRADFORD
3205	16	as a the	as a	CHAIR McDADE
3206	23	would two	would <u>be</u> two	MR. BRADFORD
3207	24	you reserve	<u>your</u> reserve	MR. BRADFORD
3209	5	there is plenty	there <u>are</u> plenty	JUDGE KENNEDY
3209	16	much is those	much <u>are</u> those	JUDGE KENNEDY
3211	16	shut down	shutdown	MR. BRADFORD
3211	24	grade	grid	CHAIR McDADE
3216	23	where decided that	where <u>we</u> decided that	MR. STUYVENBERG
3217	22	a need for power as	a need for power <u>assessment</u> as	MR. STUYVENBERG
3225	10	something to effect of	something to <u>the</u> effect of	MR. BRADFORD
3226	24	conservation in lower demand	conservation <u>and</u> lower demand	JUDGE

Page	Line	Now Reads	Should Read	Witness/Speaker
				WARDWELL
3227	11-12	conservation energy efficiency	conservation/energy efficiency	MR. STUYVENBERG
3227	22	assuming that one	<u>according</u> to one	MR. STUYVENBERG
3227	24	is	<u>it</u> is	MR. STUYVENBERG
3228	4	over achieve	overachieve	MR. STUYVENBERG
3234	7	towards to more	towards more	MR. STUYVENBERG
3235	21	foresaw	<u>oversaw</u>	MR. STUYVENBERG
3241	23	pretrial	prefiled	MR. STUYVENBERG
3241	23	megawatts wind	megawatts <u>of</u> wind	MR. STUYVENBERG
3242	6	Commission	Commission <u>er</u>	MR. STUYVENBERG
3242	11	renewals	renewables	CHAIR McDADE
3242	25	the result	<u>they</u> result	MR. STUYVENBERG
3244	1	counties. And point	counties.” And <u>we</u> point	MR. STUYVENBERG
3244	2	people good services	people, goods, <u>and</u> services	MR. STUYVENBERG
3244	13	renewals	renewables	CHAIR McDADE
3245	11	put up page 19 and 20	put up <u>pages</u> 19 and 20	JUDGE

Page	Line	Now Reads	Should Read	Witness/Speaker
				KENNEDY
3246	25	right to left the various columns	right to left <u>through</u> the various columns	JUDGE KENNEDY
3248	10	closed cycle cooling	<u>closed-cycle</u> cooling	MR. STUYVENBERG
3248	12	retrofit to	retrofit to <u>a</u>	MR. STUYVENBERG
3248	12-13	ones through	<u>once</u> -through	MR. STUYVENBERG
3248	14-15	combined cycle generation	<u>combined-cycle</u> generation	MR. STUYVENBERG
3249	22	conservation energy efficiency	conservation/energy efficiency	MR. STUYVENBERG
3250	4	conservation energy efficiency	conservation/energy efficiency	JUDGE KENNEDY
3251	2	conservation energy efficiency	conservation/energy efficiency	JUDGE KENNEDY
3254	9	choose	<u>to</u> choose	MR. STUYVENBERG
3254	11	but	with	MR. STUYVENBERG
3254	21	I think	If we think	MR. STUYVENBERG
3259	18	not a class	not <u>in</u> a class	MR. BRADFORD
3259	21	to me in that lean	to me <u>to</u> lean	MR. BRADFORD
3266	6	operation	operate	MR. BRADFORD
3266	7	importance	important	MR. BRADFORD
3268	22	the copies	the <u>parties</u>	CHAIR McDADE

**APPENDIX TO THE TRANSCRIPT PURSUANT TO 10 C.F.R. § 2.327(d)**

**Proceeding Name:** Entergy Nuclear Operations, Inc. (Indian Point Generating Units 2 and 3)

**Docket Nos.:** 50-247-LR and 50-286-LR

**ASLBP No.:** 07-858-03-LR-BD01

**Contention:** NYS-5

**Hearing Date(s):** December 10-11, 2012

**ACCEPTED CORRECTIONS:**

<b>Page</b>	<b>Line</b>	<b>Now Reads</b>	<b>Should Read</b>	<b>Witness/Speaker</b>
3279	10	15 and 16	NRC000015 and NRC000016	
3281	13	To left	To <u>my</u> left	MR. TURK
3302	13	15 and 16	NRC000015 and NRC000016	
3308	5	fuel	fuel <u>oil</u>	MR. HOLSTON
3312	9	symptoms	<u>systems</u>	JUDGE WARDWELL
3312	13	brought	brought <u>up</u>	JUDGE WARDWELL
3312	19	then.	<u>since</u> then.	MR. COX
3313	19	GALL a program	GALL program	MR. COX
3314	15-16	program of implementing procedures	program. <u>Procedures</u>	MR. COX
3318	13	that the industry knowledge is advanced	<u>as</u> the industry knowledge <u>has</u> advanced	MR. COX
3321	14	we	will be	MR. HOLSTON
3323	17	be granting	being granted	JUDGE WARDWELL
3325	16	--	procedures.	MR. HOLSTON

Page	Line	Now Reads	Should Read	Witness/Speaker
3329	18	in	and	MR. HOLSTON
3330	3	importances	important <u>ones</u>	MR. HOLSTON
3330	3-4	you are risk assessed	you risk <u>assess</u>	MR. HOLSTON
3330	14	of provided guidance	<u>have</u> provided guidance <u>that</u>	MR. HOLSTON
3336	14	in August 2,	<u>on</u> August 2,	MR. HOLSTON
3339	25	(m)(34)	XI.M.34	MR. COX
3340	1	(m)(34)	M34	MR. COX
3340	14	M.34	M34	MR. COX
3343	8	separately	separating	JUDGE WARDWELL
3343	20	section that called	<u>section called</u>	MR. COX
3346	9	that described in	that <u>is</u> described in	MR. COX
3349	5	there was the amount of	<u>the amount of</u>	MR. COX
3349	15	There's	<u>There was</u>	MR. COX
3349	17	coating was installed	coating <u>that</u> was installed	MR. COX
3349	23	need to inspection	need to <u>inspect</u>	MR. COX
3352	4-5	implement that was described	implement <u>the program</u> that was described	MR. COX
3355	13	shoulders the same	shoulders <u>at</u> the same	MR. COX
3356	15	entrain of	<u>licensee entering</u>	MR. HOLSTON
3360	5	is it that the UFSAR	is it <u>in</u> the UFSAR	MR. HOLSTON
3363	13	JUDE McDADE	JUDGE McDADE	
3365	10	were	we're	MR. HOLSTON
3369	14	it has	that	JUDGE



Page	Line	Now Reads	Should Read	Witness/Speaker
				WARDWELL
3369	20	--	experience	MR. HOLSTON
3370	18	And it is the aging effect	And the aging effect	MR. HOLSTON
3371	25	is	are	MR. COX
3372	1	that in that	that <u>are</u> in that	MR. COX
3376	14	When a Standard	When, a Standard	MR. HOLSTON
3376	20	detail and applications	detail <u>in the</u> application,	MR. HOLSTON
3386	11-12	effects on the floor	effects, <u>program element four</u>	MR. COX
3388	11	an submitted	<u>and</u> submitted	MR. HOLSTON
3390	5	Supplement Safety	<u>Supplemental</u> Safety	MR. HOLSTON
3391	19	that the Entergy's	that Entergy's	JUDGE WARDWELL
3392	22	name the of	name of	MR. AZEVEDO
3396	12	If New York	If <u>Entergy</u>	JUDGE WARDWELL
3397	10	JUDE McDADE	JUDGE McDADE	
3398	10	JUDE McDADE	JUDGE McDADE	
3398	14	JUDE McDADE	JUDGE McDADE	
3398	21	JUDE McDADE	JUDGE McDADE	
3399	3	JUDE McDADE	JUDGE McDADE	
3399	8	JUDE McDADE	JUDGE McDADE	
3401	18	JUDE McDADE	JUDGE McDADE	
3403	7	JUDE McDADE	JUDGE McDADE	
3403	22	JUDE McDADE	JUDGE McDADE	

Page	Line	Now Reads	Should Read	Witness/Speaker
3404	10	JUDE McDADE	JUDGE McDADE	
3404	17	plan	plant	MR. HOLSTON
3404	20	JUDE McDADE	JUDGE McDADE	
3406	24	coating. That	<u>coating that</u>	MR. COX
3408	22	SRPLR	SRP-LR	MR. HOLSTON
3411	19	Program.	Program.”	JUDGE WARDWELL
3413	14	--	priority	MR. HOLSTON
3414	23	IMP	AMP	JUDGE WARDWELL
3418	22	John Cavallo	<u>Jon</u> Cavallo	MR. CAVALLO
3419	4	NEI09-14	<u>NEI-09-14</u>	MR. CAVALLO
3426	16	JUDE McDADE	JUDGE McDADE	
3426	19	JUDE McDADE	JUDGE McDADE	
3427	4	JUDE McDADE	JUDGE McDADE	
3427	6	JUDE McDADE	JUDGE McDADE	
3428	12	JUDE McDADE	JUDGE McDADE	
3428	24	JUDE McDADE	JUDGE McDADE	
3429	14	JUDE McDADE	JUDGE McDADE	
3429	20	JUDE McDADE	JUDGE McDADE	
3430	24	JUDE McDADE	JUDGE McDADE	
3431	16	JUDE McDADE	JUDGE McDADE	
3432	12	JUDE McDADE	JUDGE McDADE	
3432	22	JUDE McDADE	JUDGE McDADE	

Page	Line	Now Reads	Should Read	Witness/Speaker
3441	2	JUDE McDADE	JUDGE McDADE	
3441	5	JUDE McDADE	JUDGE McDADE	
3443	20	JUDE McDADE	JUDGE McDADE	
3444	20	JUDE McDADE	JUDGE McDADE	
3444	21	need	<u>needs</u>	JUDGE McDADE
3446	22	JUDE McDADE	JUDGE McDADE	
3447	13	so on so forth	so on <u>and</u> so forth	DR. DUQUETTE
3450	1	JUDE McDADE	JUDGE McDADE	
3451	11	JUDE McDADE	JUDGE McDADE	
3452	5	areas there	areas <u>where</u> there	MR. AZEVEDO
3452	9	we also did an impact survey	we also did an <u>APEC</u> survey	MR. AZEVEDO
3452	13	JUDE McDADE	JUDGE McDADE	
3452	18	JUDE McDADE	JUDGE McDADE	
3452	21	JUDE McDADE	JUDGE McDADE	
3452	25	JUDE McDADE	JUDGE McDADE	
3453	2	JUDE McDADE	JUDGE McDADE	
3453	4	JUDE McDADE	JUDGE McDADE	
3453	6	JUDE McDADE	JUDGE McDADE	
3453	8	JUDE McDADE	JUDGE McDADE	
3462	3-4	number infrequency	number <u>and frequency</u>	DR. DUQUETTE
3462	19	that referenced	that <u>are</u> referenced	JUDGE WARDWELL
3463	19	normally	formally	MR. O'NEILL

Page	Line	Now Reads	Should Read	Witness/Speaker
3467	20	AMP 41	AMP <u>XI M41</u>	MR. HOLSTON
3469	24	procedure	procedures	MR. COX
3472	17	to whether a	to <u>see</u> whether a	MR. HOLSTON
3474	21	principle	principal	MR. HOLSTON
3475	21	principle	principal	MR. HOLSTON
3475	22	principle	principal	MR. HOLSTON
3476	13	principle	principal	MR. HOLSTON
3479	2	11M34	XI.M34	JUDGE WARDWELL
3482	14	I agree with applicant	I agree with <u>Mr. Cox</u>	MR. IVY
3483	11	which is stated in the same question	which is <u>included</u> in the same question	MR. IVY
3483	19	procedures in oversight	Procedures <u>and</u> Oversight	MR. IVY
3483	22	document, to put those in your procedures and your	document, <u>including</u> those in procedures and <del>your</del>	MR. IVY
3483	23	oversight, that has been implemented at the site.	oversight <del>that</del> has been implemented at the site	MR. IVY
3489	20	Unit 1, 2 and	Units <u>1</u> , 2 and	MS. GREEN
3489	22	major management review	<u>aging</u> management review	MS. GREEN
3491	6	we did an extended condition review	we did an <u>extent of</u> condition review	MR. AZEVEDO
3491	10	Why does all	Why <u>do</u> all	JUDGE WARDWELL
3493	17	keep field	keep-filled	MR. COX
3495	15	to do piping	to do <u>sampling</u>	MR. COX

Page	Line	Now Reads	Should Read	Witness/Speaker
3497	16	The procedure was written by,	The procedure was written by <u>corporate</u> ,	MR. IVY
3497	18	every guidance documents,	guidance documents,	MR. IVY
3497	20	acceptance criteria. However, the acceptance criteria	acceptance criteria <u>were specified</u> . However, the acceptance criteria	MR. IVY
3503	24	Azevedo	<u>Mr.</u> Azevedo	MR. COX
3509	4	on my	<u>in</u> my	MR. AZEVEDO
3509	16	extended condition	<u>extent of</u> condition	MR. AZEVEDO
3509	19	extended condition	<u>extent of</u> condition	MR. AZEVEDO
3510	1	extended condition	<u>extent of</u> condition	MR. AZEVEDO
3510	18-19	Yeah, stick with paint fluid	[delete]	MR. CAVALLO
3511	25	of the effects	<u>defects</u>	MR. CAVALLO
3512	13	Oh	No	MR. CAVALLO
3513	4	team in	T <sub>min</sub>	MR. BIAGIOTTI
3518	19	extended condition	<u>extent of</u> condition	MR. AZEVEDO
3528	20	the 153	<u>NY000153</u>	MR. HOLSTON
3532	6	request for official	request for <u>additional</u>	MR. HOLSTON
3533	19	[ ] We have periodic	<u>MR. HOLSTON:</u> We have periodic	MR. HOLSTON
3536	16	MR. IVY: Ken Ivy for the Applicant.	MR. IVY: <u>Ted</u> Ivy for the Applicant.	MR. IVY
3541	1	quick placed	<u>then</u> placed	MR. HOLSTON
3545	10	(b)(1)(6)	B.1.6	MR. COX
3545	15	(b)(1)(6)	B.1.6	JUDGE WARDWELL
3546	14	license	licensee	MR. COX
3570	18	In the current licensing	The current licensing basis	MR. HOLSTON

Page	Line	Now Reads	Should Read	Witness/Speaker
3574	6	statements consideration	statements <u>of</u> consideration	MR. HOLSTON
3575	1	coolant	cool <u>ing</u>	MR. HOLSTON
3577	7	Why doesn't those sections	Why <u>don't</u> those sections	JUDGE WARDWELL
3584	23	DR. DUQUETTE	MR. COX	
3587	12	attended	intended	JUDGE WARDWELL
3602	13	10.16.456	1016456	JUDGE WARDWELL
3602	20	program/procedure	procedure	MR. COX
3603	21	Blog	log	MR. O'NEILL
3610	19	speak at	speak <u>to</u>	MR. AZEVEDO
3611	5	pictures when	pictures <u>from</u> when	MR. AZEVEDO
3613	3	John	Jon	MR. CAVALLO
3614	18	we pulled clean	we <u>put</u> clean	MR. AZEVEDO
3615	8	alluded	alluded <u>to</u>	MR. AZEVEDO
3616	13	John	Jon	MR. CAVALLO
3616	20	alleviate	alleviated <u>ed</u>	JUDGE WARDWELL
3617	5	Although Entergy has been detected	“Although Entergy has detected	JUDGE WARDWELL
3620	18	involved a UP	involved a <u>UT</u>	MR. LEE
3623	2	UP TEMP	UPTIMP	JUDGE WARDWELL
3625	17	protected coating	<u>protective</u> coating	MR. COX

Page	Line	Now Reads	Should Read	Witness/Speaker
3627	24	so many	<u>to any</u>	JUDGE WARDWELL
3629	13	of	in	MR. HOLSTON
3633	2	That proves the soil	<u>If corrosive soil, they</u>	MR. HOLSTON
3633	24	corroded	corrosive	MR. HOLSTON
3640	10	John	Jon	MR. CAVALLO
3645	12	when they received the	when they <u>receive</u> the	MS. GREEN
3647	7	it's kinda of not	it's <u>kind</u> of not	MS. GREEN
3649	13	they will a	they will <u>do</u> a	MS. GREEN
3650	10	Think there's	<u>I</u> think there's	MS. GREEN
3653	3	would seem unnecessarily	would seem <u>unnecessary</u>	MS. GREEN
3654	4	Commission approve	Commission <u>approval</u>	MR. COX
3662	13	I haven't known	I haven't <u>done</u>	MR. COX
3676	20	got to this	got to <u>have</u> this	MR. COX
3677	22	New	New <u>York</u>	JUDGE McDADE
3678	19	And at the time, we had not	And at the time, <u>they</u> had not	MS. GREEN
3679	16	and TRA audits as	and <u>TLAA</u> audits as	MS. GREEN
3681	21	read to	<u>related</u> to	MR. HOLSTON
3684	13	on from	from	JUDGE McDADE
3686	19	7103	71003	MR. HOLSTON
3687	6	I looked at inspection reports for AFW piping for condensate piping	I looked at inspection reports for AFW piping, for condensate piping	MR. HOLSTON
3688	25	period of extended,	period of extended <u>operation</u> ,	MR. HOLSTON
3689	20	000247	000447	MR. BIAGIOTTI

Page	Line	Now Reads	Should Read	Witness/Speaker
3695	23	all the	<u>of</u> the	JUDGE WARDWELL
3697	17	tube and a heat	tube <u>in</u> a heat	MR. COX
3697	22	pressure and containment	pressure <u>in</u> containment	MR. COX
3699	21	saw	say	JUDGE WARDWELL
3703	24	features	feature	JUDGE WARDWELL
3705	7	on	or	MR. BIAGIOTTI
3705	11	sketch	sketch <u>ed</u>	MR. BIAGIOTTI
3706	13	on	from	JUDGE WARDWELL
3706	18-25	“So representing more than 400 buried lines as part of its buried pipe database population in risk analysis effort, further SIA reviewed, compiled, and discussed with IPEC system engineers, information to include the comprehensive BPWorks database including design specifications, pipe drawings, system descriptions, inspection reports, and soil data.”	“representing more than 400 buried lines, as part of its buried pipe database population and risk analysis effort .... Further, SIA reviewed, compiled, and discussed with IPEC system engineers information to include in the comprehensive BPWorks <sup>TM</sup> database, including design specifications, pipe drawings, system descriptions, inspection reports, and soil data.”	JUDGE WARDWELL
3708	24	gsa	gas	MR. LEE
3720	1	159	10059	MR. BIAGIOTTI
3720	15	NEI 0914	<u>NEI 09-14</u>	MR. BIAGIOTTI
3722	14	licensing basis	licensing <u>functions</u>	JUDGE WARDWELL



Page	Line	Now Reads	Should Read	Witness/Speaker
3723	12-23	“Inasmuch as AMP XIM41 was issued after Entergy submitted its license renewal application, the staff has not applied this AMP to the IP2-IP3 license renewal application. "Nonetheless, as discussed below, the staff, through a series of RAIs, received responses to Question 16, evaluated the applicant's AMP against key elements of the AMP XIM41 and the draft ISG for XIM41 in regards to the number of inspections, soil sampling and the use of plant-specific operating experience, and concluded that Entergy's AMP, as revised through a series of responses to the staff RAIs,	“Inasmuch as AMP <u>XI.M41</u> was issued after Entergy submitted its <u>LRA</u> , the <u>Staff</u> has not applied this AMP to the <u>IP2/IP3 LRA</u> ; <u>nonetheless</u> , as discussed below, the staff, through a series of RAIs ( <u>see response</u> to Question 16) evaluated the <u>Applicant’s</u> AMP against key elements of the AMP <u>XI.M41</u> and the draft ISG for <u>AMP XI.M41</u> (e.g., number of inspections, soil sampling the use of plant-specific operating experience), and concluded that Entergy's AMP (as revised through <u>its</u> responses to the staff RAIs)	JUDGE WARDWELL
3725	23	GALL AMP 41	GALL AMP XI.M41	MR. HOLSTON
3725	25	GALL AMP 41	GALL AMP XI.M41	MR. HOLSTON
3726	3	GALL AMP 41	GALL AMP XI.M41	MR. HOLSTON
3726	23	what’s what	<u>that’s</u> what	JUDGE WARDWELL
3727	3	Wilkie	Welkie	JUDGE WARDWELL
3728	13	and barrier	of buried	DR. DUQUETTE
3730	12-13	license renewal applications, stakeholder input	license renewal applications <u>and</u> stakeholder input	Mr. HOLSTON
3730	19	it’s set	it’s <u>a</u> set	MR. HOLSTON
3734	9	AMP 1141	AMP XI.M41	MR. HOLSTON
3734	10	1141	XI.M41	MR. HOLSTON
3734	15	11M41	XI.M41	MR. HOLSTON
3734	24	41	XI.M41	MR. HOLSTON

Page	Line	Now Reads	Should Read	Witness/Speaker
3735	4	M41	XI.M41	MR. HOLSTON
3736	3	HOLston	Holston	MR. AZEVEDO
3738	6	M41	<u>XI.M41</u>	MR. BIAGIOTTI
3738	7	guide	guided	MR. BIAGIOTTI
3740	13	gilded	guided	MR. BIAGIOTTI
3741	9	and	any	MR. BIAGIOTTI
3741	22	takes over	takes <u>place</u> over	MR. BIAGIOTTI
3742	20-22	The rate of external degradation may be affected by aggressive chemicals, if present. Temperature,	The rate of external degradation may be affected by aggressive chemicals (if present), <u>temperature</u> ,	JUDGE WARDWELL
3748	23-24	all the corrosion damage	all <u>of</u> the corrosion damage	JUDGE WARDWELL
3749	1	He also claims that "The interphase between the coating and the pipe surface may introduce an effective crevice for corrosion. However, these corrosion phenomena are not expected at IPEC, for the buried piping applications have a common electric ground, a specific galvanic or impressed driving force, for instance, stray current or closed galvanic is required for the corrosion phenomena cited by Dr. Duquette.	“He also claims that the <u>interface</u> between the coating and the pipe surface may introduce an effective crevice for corrosion. However, these corrosion phenomena are not expected at IPEC, <u>where</u> the buried piping applications have a common <u>electrical</u> ground. <u>A</u> specific galvanic or impressed driving force ( <u>e.g.,</u> stray current or close galvanic <u>couple</u> ) is required for the corrosion phenomena cited by Dr. Duquette.”	JUDGE WARDWELL
3749	22	all connected to any	<u>also</u> connected to <u>all</u>	MR. BIAGIOTTI
3750	1	MR. LEE	MR. BIAGIOTTI	
3755	6	corrosion is	corrosion <u>and</u> is	MR. BIAGIOTTI
3755	15	animes	anions	MR. BIAGIOTTI

Page	Line	Now Reads	Should Read	Witness/Speaker
3760	11-12	Steels and the exposure	Steels <u>exposed</u>	MR. BIAGIOTTI
3762	1	are	will be	JUDGE WARDWELL
3763	9	area	buried	JUDGE WARDWELL
3771	25	please,	please, <u>(witness pointed to equations 1, 2 and 3 on top of page 2 in ENT000390)</u>	MR. BIAGIOTTI
3774	22	negative the	negative <u>side of</u> the	MR. BIAGIOTTI
3775	9	is	is <u>for</u>	MR. BIAGIOTTI
3775	12	to where is	to where <u>there's</u>	MR. BIAGIOTTI
3776	12	ho	how	MR. BIAGIOTTI
3776	22	type	pipe	MR. BIAGIOTTI
3778	15	want until	<u>wait</u> until	JUDGE WARDWELL
3778	21	use a reference	use <del>a</del> reference	MR. BIAGIOTTI
3779	2	tome	cone	MR. BIAGIOTTI
3783	2	79	<u>89</u>	MR. BIAGIOTTI
3783	19	system has	system <u>that</u> has	MR. BIAGIOTTI
3784	6	as this	as this <u>site</u>	MR. BIAGIOTTI
3784	12	the system	the <u>BPWorks</u> system	MR. BIAGIOTTI
3786	23-24	didn't any terrible spots. We do have that. I believe	didn't <u>see</u> any terrible spots. We do have <u>what</u> I believe	MR. BIAGIOTTI
3788	21	straight	stray	MR. BIAGIOTTI
3789	10	explanations	excavations	MR. BIAGIOTTI

Page	Line	Now Reads	Should Read	Witness/Speaker
3790	12	would	wouldn't	MR. BIAGIOTTI
3791	4	API 571	API 57 <u>0</u>	MR. BIAGIOTTI
3794	2	electric - - they're there	electrically connected	MR. BIAGIOTTI
3796	7	that my	that	MR. BIAGIOTTI
3799	3	the	to	MR. AZEVEDO
3800	23	that remember,	that, remember,	MR. BIAGIOTTI
3805	1	coding	coating	MR. CAVALLO
3806	21	MR. BIAGIOTTI	JUDGE McDADE	
3806	22	activate	excavate	JUDGE McDADE
3809	16	hands	hand's	JUDGE WARDWELL
3811	8	pump building in the IP2, city water storage tank in	pump building, <u>and</u> the IP2 city water storage tank <u>to the</u>	JUDGE WARDWELL
3815	10	so	to	DR. DUQUETTE
3817	5	oh-centimeters	oh <u>m</u> -centimeters	MR. BIAGIOTTI
3820	13	no damage at all the coating	no damage at all <u>to</u> the coating	DR. DUQUETTE
3829	16	to start the	<u>the</u> start <u>of</u> the	MR. BIAGIOTTI
3830	2	at	yet	MR. BIAGIOTTI
3838	1	inc	inch <u>h</u>	JUDGE WARDWELL
3842	23	"the spacing	the "spacing	JUDGE WARDWELL
3843	22	streams	screens	MR. BIAGIOTTI
3854	24	into	to	MR. HOLSTON
3855	20	scope	pipe	MR. HOLSTON

Page	Line	Now Reads	Should Read	Witness/Speaker
3855	25	messages	measures	MR. HOLSTON
3856	22-23	is there any other locations or is that's what	<u>are</u> there any other locations or is <u>that</u> what	JUDGE WARDWELL
3857	22	criteria.	criteria.	MR. HOLSTON
3858	20	tell	tells	MR. HOLSTON
3866	2-5	"The applicant has conducted 10 of its committed 34 inspections that are to be conducted in a 10-year period prior to the extended operation before responded to staff's RAI."	"The <u>Applicant</u> <u>had</u> conducted 10 of its committed 34 inspections that are to be conducted in <u>the ten-year</u> period prior to extended operation before <u>it</u> responded to <u>the Staff's</u> RAI."	JUDGE WARDWELL
3866	6-7	The inspections exposed 80 feet of pipe during which coatings and backfill were inspected.	<u>These</u> inspections exposed 80 feet of pipe during which <u>the</u> coatings and backfill were inspected.	JUDGE WARDWELL
3866	11-16	inspections of 30 feet of condensate storage tank return line and 28 feet of city water piping and 8 feet of fire protection piping found one instance of adverse conditions involved the condensate storage tank return line. And inspections	inspections of 30 feet of <u>the CST</u> return line, 28 feet of city water piping, and 8 feet of fire protection piping. . . . found one instance of adverse conditions ( <u>involving the CST</u> return line); <u>and</u> inspections	JUDGE WARDWELL
3870	5	that's include in	<u>that includes</u>	MR. BIAGIOTTI
3871	15	will, an	will <u>have</u> an	MR. BIAGIOTTI
3873	22	attended	intended	JUDGE WARDWELL
3874	10	referring	referring <u>to</u>	JUDGE WARDWELL
3882	2	MR. HOLSTON:	JUDGE WARDWELL:	
3887	16	can you down	can you <u>go</u>	JUDGE McDADE

Page	Line	Now Reads	Should Read	Witness/Speaker
3889	8	is an intended	is <u>if an</u> intended function	MR. HOLSTON
3889	11	water steam generator safety	water, steam generator, safety	MR. HOLSTON
3890	11	corrosion protection	<u>cathodic</u> protection	JUDGE WARDWELL
3890	13	such as	such <u>that</u>	JUDGE WARDWELL
3910	2	of extended operation	of <u>initial</u> operation	MR. HOLSTON
3912	12-13	I think for fact it was in FAC 202L	I think for <u>FAC</u> it was in <u>NSAC-202L</u>	MR. COX
3920	21	I'm going to - - multiple,	I'm going to <u>say you need</u> multiple,	MR. HOLSTON
3921	14	M41	XI.M41	MR. HOLSTON
3923	1	through-walls	through-wall	MR. HOLSTON
3928	9	like to know	like <u>you</u> to know	MR. SIPOS
3929	25	GAP	gap	MR. HOLSTON
3930	2	GAP	gap	MR. HOLSTON
3930	5	in the GALL	<u>on</u> the GALL	MR. HOLSTON
3930	15	we didn't ask him	we didn't ask <u>them</u>	MR. HOLSTON
3934	16	open applicants	open <u>applications</u>	MR. HOLSTON
3934	22	GAP	gap	MR. HOLSTON
3935	13	AMP 34	AMP XI.M34	MR. HOLSTON
3962	1	fire	cathodic	MR. BIAGIOTTI
3963	17	would you	<u>did</u> you	MR. FAGG
3964	11	just fact witnesses	just <u>staff</u> witnesses	MR. TURK
3967	5	are many different	are <u>there</u> many different	MR. TURK

Page	Line	Now Reads	Should Read	Witness/Speaker
3969	2	they can,	they <u>cannot</u> ,	MR. TURK
3969	15-16	a significant question	a significant <u>safety</u> question	MR. TURK
3970	23-24	what respect to	<u>with</u> respect to	MR. TURK
3971	4	public public	public comment	MR. HOLSTON
3972	6	that *Indian Point	that the Indian Point	MR. TURK
3972	7	license mill AMP	license <u>renewal</u> AMP	MR. TURK
3972	24	pip	pipe	MR. HOLSTON
3973	8	instructions	inspections	MR. HOLSTON
3973	9	instructions	inspections	MR. HOLSTON
3973	11	Indian point	Indian <u>P</u> oint	MR. TURK
3974	6	varied piping	<u>buried</u> piping	MR. TURK
3974	13	and	<u>A</u> nd	MR. TURK
3974	23	department	document	MR. TURK
3975	11	us	is	MR. HOLSTON
3975	12	It refers to me	It <u>means</u> to me	MR. HOLSTON
3976	8	equitable	<u>equatable</u>	MR. HOLSTON
3976	15	the AMP 41.	the AMP in XI M41.	MR. TURK
3977	8	chemistries	chemistry	MR. HOLSTON
3977	17	pips	pipes	MR. HOLSTON
3977	22	that are	that <u>you</u> are	MR. TURK
3978	2	peer	peer <u>reviewer</u>	MR. HOLSTON

**APPENDIX TO THE TRANSCRIPT PURSUANT TO 10 C.F.R. § 2.327(d)**

**Proceeding Name:** Entergy Nuclear Operations, Inc. (Indian Point Generating Units 2 and 3)

**Docket Nos.:** 50-247-LR and 50-286-LR

**ASLBP No.:** 07-858-03-LR-BD01

**Contention:** NYS-6/7

**Hearing Date(s):** December 12, 2012

**ACCEPTED CORRECTIONS:**

<b>Page</b>	<b>Line</b>	<b>Now Reads</b>	<b>Should Read</b>	<b>Witness/Speaker</b>
3989	10	One of the last things we don't want	One of the last things that we want is for a witness from New York	JUDGE McDADE
3991	9	non EQ	non-EQ	JUDGE KENNEDY
3993	18	non EQ	non-EQ	JUDGE KENNEDY
3994	4	non EQ	non-EQ	JUDGE KENNEDY
3994	25	Non EQ	Non-EQ	MR. RUCKER
3996	4	Non EQ	Non-EQ	MR. RUCKER
3998	9	A review license	A <u>renewed</u> license	MR. NGUYEN
3998	11	54.38	54. <u>31</u>	MR. NGUYEN
3998	17	the -- by	the <u>GALL Report</u> by	MR. NGUYEN
3999	1	expand	expanded	MR. NGUYEN
3999	4	request	requested	MR. NGUYEN
3999	7	a manual inspection	<u>a manhole</u> inspection	MR. NGUYEN
4002	5,6	computable to 35 feet of --	<u>is 2kV to 35kV</u>	MR. NGUYEN
4002	15	side	site	MR. NGUYEN



Page	Line	Now Reads	Should Read	Witness/Speaker
4002	16	basic	basis	MR. NGUYEN
4006	20	basic document on the other side	<u>basis</u> document on <u>site</u>	MR. NGUYEN
4006	22	don't consider GALL	<u>are not consistent with</u> GALL	MR. NGUYEN
4008	6	is well as	<u>as</u> well as	MR. RUCKER
4014	8	predictive	<u>insulation</u>	MR. NGUYEN
4014	24	POO	PEO	MR. NGUYEN
4018	15	doesn't say that the	doesn't say that. <u>The</u>	MR. COX
4024	24	were look at this	were <u>to</u> look at this	JUDGE KENNEDY
4025	6	audible	auditable	MR. DOUTT
4026	14	audible	auditable	MR. DOUTT
4026	16	scoping the screen	scoping <u>and screening</u>	MR. DOUTT
4026	17	RSCR	SER	MR. DOUTT
4026	20	and turn the	<u>during</u> the	MR. DOUTT
4026	21	scoping the screen	scoping <u>and screening</u>	MR. DOUTT
4029	23-24	EN-DC-000346	EN-DC-346	MR. RUCKER
4032	1-2	covers the basis and gives you all the information needed to apply those basis	covers the <u>bases</u> and gives you all the information needed to apply those <u>bases</u>	MR. RUCKER
4034	8	do something	do something <u>else</u>	MR. COX
4034	13	water train	water <u>treeing</u>	MR. COX
4036	2	EN-DC-000346	EN-DC-346	MR. RUCKER
4036	9	EN-DC-00346	EN-DC-346	JUDGE McDADE
4040	3	steps	tests	MR. NGUYEN

Page	Line	Now Reads	Should Read	Witness/Speaker
4041	21	scope	scoping <u>and screening audit</u>	MR. NGUYEN
4041	22	Brookhaven	Buchanan	MR. NGUYEN
4041	22	I did my testing during	I did my <u>inspection</u> during	MR. NGUYEN
4041	24	scope	scoping	MR. NGUYEN
4041	25	and screen in the system to construct the component	and <u>screening of the systems, structures, and components</u>	MR. NGUYEN
4042	5	process level guidance and technical report	<u>project level guidelines</u> and <u>topical</u> report	MR. NGUYEN
4044	13	by auditing	by <u>another team</u>	MR. NGUYEN
4047	5	program in the second would	<u>identifies the systems that</u> would	MR. NGUYEN
4049	21	basic	<u>basis</u>	MR. NGUYEN
4050	1	benefit	<u>verify</u>	MR. NGUYEN
4050	6	No, sir	<u>Yes</u> , sir	MR. NGUYEN
4050	20	the type of cable	the type of <u>tests</u>	MR. NGUYEN
4050	21	basic	basis	MR. NGUYEN
4052	18	Riverkeeper New York 000067 and New York 000038	<u>Riverkeeper TC-2, New York 6/7 and New York 38</u>	MR. SIPOS
4053	3	basic	<u>basis</u>	MR. NGUYEN
4053	7	basic	<u>basis</u>	MR. NGUYEN
4054	8	Just Kennedy	<u>Judge</u> Kennedy	MR. COX
4054	13	we were asking to	we were <u>asked</u> to	MR. COX
4059	19	a secondary cable	<u>an inaccessible</u> cable	MR. NGUYEN
4061	17	power cable. We performed	power cable <u>that</u> performed	MR. NGUYEN
4061	21	for 80 volt	<u>480</u> volt	MR. NGUYEN

Page	Line	Now Reads	Should Read	Witness/Speaker
4062	5	low cable is not known	<u>failure</u> is not known	MR. NGUYEN
4062	10	technical frequency for	<u>testing</u> frequency <u>from</u>	MR. NGUYEN
4062	11	file	find	MR. NGUYEN
4062	12	acceptable	acceptance	MR. NGUYEN
4063	16	60 volt voltage	<u>significant</u> voltage	MR. NGUYEN
4063	17	35 cables	2 kV to 35 kV	MR. NGUYEN
4064	5	manual	manhole	MR. NGUYEN
4068	1	sectional report	SER	MR. NGUYEN
4068	8	Thee's	<u>There's</u>	MR. COX
4069	12	ago	<u>go</u>	JUDGE KENNEDY
4069	23	to the two	<u>for</u> the two	MR. COX
4070	3	A1.22	A2.1.22	MR. COX
4070	4	I mean 3	I mean <u>A3</u>	MR. COX
4070	8	a 90Q	a non-EQ	JUDGE KENNEDY
4070	17	commits to preform	commits to <u>perform</u>	MR. NGUYEN
4073	15	EN-DC-343 provision 2	<u>EN-DC-346 revision 2</u>	MR. O'NEILL
4073	18	EN-DC-343	<u>EN-DC-346</u>	MR. O'NEILL
4075	11	test is describing the	test is <u>described in</u> the	MR. COX
4076	23	front of me	front of me <sub>2</sub>	MR. COX
4077	14	EN-DC	<u>EN-DC-346</u>	JUDGE KENNEDY
4078	8	DC-346	<u>EN-DC-346</u>	MR. McCaffrey

Page	Line	Now Reads	Should Read	Witness/Speaker
4079	3	103	71003	MR. DOUTT
4079	7	actually – that procedure that	actually <u>implemented</u> that	MR. DOUTT
4080	1	I’m not	Not	MR. DOUTT
4085	13	prepared reviewer process	<u>peer-reviewed</u> process	MR. McCAFFREY
4089	9	a more frequent	more frequent	MR. BASCOM
4099	19	as Entergy modified	<u>has</u> Entergy modified	JUDGE KENNEDY
4100	16-17	cables in connection with the program	cables <u>and connections</u> program	MR. COX
4100	23	ground table	ground <u>cable</u>	MR. RUCKER
4104	7	everyone aware is	everyone aware <u>of</u> is	MR. McCAFFREY
4104	10	references of	references <u>to</u>	MR. McCAFFREY
4104	11	impacity	ampacity	MR. McCAFFREY
4105	20	there is no	there <u>are</u> no	MR. McCAFFREY
4108	11	that was	there <u>were</u>	MR. McCAFFREY
4108	13	impacity	ampacity	MR. McCAFFREY
4109	22	impacity	ampacity	MR. BASCOM
4110	2	impacity	ampacity	MR. BASCOM
4110	23	crossing polyethylene	<u>cross-linked</u> polyethylene	MR. BASCOM
4114	22	Is there any methods	<u>Are</u> there any methods	MR. McCAFFREY
4116	7	forensic analysis	forensic <u>analyses</u>	DR. SEDDING
4118	8	impacity	ampacity	DR. SEDDING
4118	9	impacity	ampacity	DR. SEDDING
4119	11	impacity	ampacity	DR. SEDDING

Page	Line	Now Reads	Should Read	Witness/Speaker
4123	17	impacity	ampacity	MR. McCAFFREY
4125	3-4	MR. McCAFFREY	JUDGE WARDWELL	
4126	16	there is	there <u>are</u>	MR. McCAFFREY
4143	16	improve	prove	DR. SEDDING
4144	16	nominal almost no point	nominal <u>nameplate</u>	DR. SEDDING
4147	13	were	was	MR. NGUYEN
4147	23	impacity. Impacity	ampacity. Ampacity	MR. NGUYEN
4148	4	site	size	MR. NGUYEN
4148	5	impacity	ampacity	MR. NGUYEN
4148	9	go	go up	MR. NGUYEN
4148	10	impacity	ampacity	MR. NGUYEN
4148	12	basic	basis	MR. NGUYEN
4148	15	impacity	ampacity	MR. NGUYEN
4148	18	capacity	ampacity	MR. NGUYEN
4148	20	impacity	ampacity	MR. NGUYEN
4149	3	is not – if it is the designed	is not <u>an issue</u> if it is designed	MR. NGUYEN
4149	3	is	it	MR. NGUYEN
4149	4	not should	should not	MR. NGUYEN
4149	5	alerts	alleges	MR. NGUYEN
4149	6	correctly	correct	MR. NGUYEN
4150	3	pressurized	pressurizer	MR. NGUYEN
4150	14	impacity	ampacity	MR. NGUYEN
4150	17	the load will not	the <u>cable</u> will not	MR. NGUYEN

Page	Line	Now Reads	Should Read	Witness/Speaker
4150	21	site	size	MR. NGUYEN
4150	24	impacity	ampacity	MR. NGUYEN
4151	5	for **12:23:22** XI.E1	for <u>localized heat source</u> , we have <u>GALL AMP XI.E1</u>	MR. NGUYEN
4154	10	NUREG-07000	NUREG/ <u>CR-7000</u>	MR. DOUTT
4155	25	actually on an intimate	actually <u>in</u> intimate	DR. SEDDING
4160	8	well-know	well- <u>known</u>	MR. BASCOM
4168	1	it also takes about a sheath	it also <u>talks</u> about a sheath	MR. McCAFFREY
4169	8	the water, and returning that	the water, and <u>entering</u> that	MR. McCAFFREY
4170	21	MR. O'NEILL	JUDGE WARDWELL	
4171	20	grade	degrade	MR. BASCOM
4178	3	(reading)	wetting	MR. DOUTT
4178	14	From our,	From our <u>perspective</u>	MR. DOUTT
4178	16	there is	there <u>are</u>	MR. DOUTT
4179	7, 8	can't get of	can't <u>eliminate</u>	MR. DOUTT
4180	9	not	no	MR. DOUTT
4182	20	Duke	Duc	MR. DOUTT
4185	3	capacity	ampacity	MR. NGUYEN
4185	8	wide	wire	MR. NGUYEN
4185	9	optic cable, maximum capacity	cable, maximum <u>ampacity</u>	MR. NGUYEN
4185	12	will be low	or be-low	MR. NGUYEN
4185	14	capacity	ampacity	MR. NGUYEN
4188	2	Mr. McCafferty (sic)	<u>Mr. McCaffrey</u>	MR. FAGG

Page	Line	Now Reads	Should Read	Witness/Speaker
4188	8	Mr. McCafferty	<u>Mr. McCaffrey</u>	MR. FAGG
4188	18	bracket [2] is for the medium voltage, and bracket [5]	ENT000243 is for the medium voltage, and ENT000 <u>242</u>	MR. McCAFFREY
4189	9	MR. BASCOM	<u>MR. COX</u>	
4189	13	MR. BASCOM	<u>MR. COX</u>	
4190	24	Mr. McCafferty	<u>Mr. McCaffrey</u>	MR. FAGG
4193	23	the 20E we have from Unit 3	the <u>OE</u> we have from Unit 3	MR. McCAFFREY
4194	20-21	to do	due to	MR. FAGG
4201	14	basic	basis	MR. NGUYEN
4201	21	basic	basis	MR. NGUYEN
4204	22	form	from	JUDGE McDADE

**APPENDIX TO THE TRANSCRIPT PURSUANT TO 10 C.F.R. § 2.327(d)**

**Proceeding Name:** Entergy Nuclear Operations, Inc. (Indian Point Generating Units 2 and 3)

**Docket Nos.:** 50-247-LR and 50-286-LR

**ASLBP No.:** 07-858-03-LR-BD01

**Contention:** NYS-8

**Hearing Date(s):** December 13, 2012

**ACCEPTED CORRECTIONS:**

Page	Line	Now Reads	Should Read	Witness/Speaker
4217	3	your	you	JUDGE MCDADE
4220	12	impassive	passive	JUDGE WARDWELL
4221	19	for 54	for <u>Part 54</u>	MR. CRAIG
4223	20	secondary site, it should be	secondary site, it <u>could</u> be	MR. CRAIG
4223	25	condition.	condition <u>is monitored</u> .	MR. CRAIG
4227	22	a staff	staff	MR. CRAIG
4227	23	MR. MATTHEW: This is Roy Matthew	MR. <u>MATHEW</u> : This is Roy <u>Mathew</u>	MR. MATHEW
4227	25	An SOC	An <u>SSC</u>	MR. MATHEW
4228	10	that an SOC is really monitored	that <u>if</u> an <u>SSC</u> is <u>readily</u> monitored	MR. MATHEW
4228	21	MR. MATTHEW	<u>MR. MATHEW</u>	
4228	24	MR. MATTHEW	<u>MR. MATHEW</u>	
4229	4	MR. MATTHEW	<u>MR. MATHEW</u>	
4230	16	risk, the	risk. <u>The</u>	MR. CRAIG
4233	14	that. You	that, <u>if</u> you	MR. CRAIG
4233	15	fluctuations, frequency fluctuations	fluctuations <u>or</u> frequency fluctuations	MR. CRAIG



Page	Line	Now Reads	Should Read	Witness/Speaker
4235	5	induces	induced	JUDGE WARDWELL
4236	12	ultimately	ultimate	JUDGE WARDWELL
4240	3	it's not * (8:44:01).	it's not <u>limited to cables</u> .	MR. CRAIG
4241	5-6	answer 32, transistors,	answer 32. <u>“Transistors,</u>	JUDGE WARDWELL
4241	10	Gross failure, and	Gross failure,” and	JUDGE WARDWELL
4241	11	to that, of	to that, <u>“of</u>	JUDGE WARDWELL
4241	13	operation.	operation.”	JUDGE WARDWELL
4246	18	MR. MATTHEW: This is Roy Matthew	<u>MR. MATHEW</u> : This is Roy Mathew	MR. MATHEW
4247	3	MR. MATTHEW	<u>MR. MATHEW</u>	
4249	10	Matthew	Mathew	JUDGE WARDWELL
4249	15	MR. MATTHEW	<u>MR. MATHEW</u>	
4249	18	MR. MATTHEW	<u>MR. MATHEW</u>	
4249	22	recommends	recommended	MR. MATHEW
4250	4	MR. MATTHEW	<u>MR. MATHEW</u>	
4251	3	MR. MATTHEW	<u>MR. MATHEW</u>	
4251	6	MR. MATTHEW	<u>MR. MATHEW</u>	
4251	12	MR. MATTHEW	<u>MR. MATHEW</u>	
4251	23	MR. MATTHEW	<u>MR. MATHEW</u>	

Page	Line	Now Reads	Should Read	Witness/Speaker
4260	12	MR. McCAFFREY	DR. DEGENEFF	
4260	16	MR. McCAFFREY	DR. DEGENEFF	
4260	23	MR. McCAFFREY	DR. DEGENEFF	
4261	11	MR. McCAFFREY	DR. DEGENEFF	
4261	14	MR. McCAFFREY	DR. DEGENEFF	
4261	23	assuming	assume	DR. DEGENEFF
4262	8	MR. McCAFFREY	DR. DEGENEFF	
4263	1-2	but let back off	but let <u>me</u> back off	DR. DEGENEFF
4263	12	with, if someone puts in a new transformer and it	with, <u>is</u> if someone puts in a new transformer and	DR. DEGENEFF
4263	13-15	says it's a new transformer and I'm not going to look at it for two years or four years.  Then I've missed that.	says, "It's a new transformer <u>so</u> I'm not going to look at it for two years or four years." [delete return] Then <u>they've</u> missed that.	DR. DEGENEFF
4264	24	cause	caused	MR. MCCAFFREY
4265	4	DR. DEGENEFF: This is Roy Matthew	MR. <u>MATHEW</u> : This is Roy <u>Mathew</u>	
4265	6	to	that	MR. MATHEW
4265	7	those are	those <u>were</u>	MR. MATHEW
4265	12	now required	not required	MR. MATHEW
4265	16	now referred	not required	MR. MATHEW
4265	18	are referred	are <u>required as</u>	MR. MATHEW
4265	22	regulation	regulatory	MR. MATHEW
4265	23	not loaded pretty	not loaded very	MR. MATHEW

Page	Line	Now Reads	Should Read	Witness/Speaker
4266	1	kinds	kind	MR. MATHEW
4266	7	firewall base	offsite	MR. MATHEW
4266	13	649	6.9	MR. MATHEW
4266	14	480	480 V	MR. MATHEW
4266	18	on the	only	MR. MATHEW
4266	19	most	rest	MR. MATHEW
4266	20	no	not	MR. MATHEW
4267	7	rarely	readily	JUDGE WARDWELL
4267	25	the entirety	the integrity	MS. RAY
4268	9-10	such as an oil filled transformer	such as a Doble test	MS. RAY
4269	5	of a test?	of a <u>transformer</u> ?	JUDGE WARDWELL
4269	23-24	“The primary voltage and current are regularly monitored for both.”	The primary voltage and current are regularly monitored for both. [no quotation marks]	JUDGE WARDWELL
4270	7	our Operations monitor.	our <u>operators</u> monitor	MR. McCAFFREY
4270	13	our 400 volt and 6.9 kV buses	our <u>480</u> volt and 6.9 kV buses	MR. McCAFFREY
4271	11	are used directly to its life	are used directly to <u>determine</u> its life	MR. McCAFFREY
4274	1	at 4 or 15	at <u>14 and</u> 15.	JUDGE WARDWELL
4274	2	as “polymerization,	as polymerization [no quotation mark]	JUDGE WARDWELL
4274	3	core and core	core and <u>coil</u>	JUDGE WARDWELL

Page	Line	Now Reads	Should Read	Witness/Speaker
4274	7	to failure.”	to failure. [no quotation mark]	JUDGE WARDWELL
4274	12	MR. MATTHEW: I don't think this	MR. <u>MATHEW</u> : I don't think this <u>is</u>	MR. MATHEW
4274	18	MR. MATTHEW	MR. MATHEW	
4274	19-20	In the testimony at 21, New York states that	<u>NUREG-5753 (NYS000012)</u> at 21, states that	JUDGE WARDWELL
4278	12	you state that in addition to	you state that “In addition to	JUDGE WARDWELL
4279	22	It that where	<u>Is</u> that where	JUDGE WARDWELL
4280	15	that a corona	that “ <u>A</u> corona	JUDGE WARDWELL
4282	25	the Unit 2 21M	the Unit 2 21 <u>Main Transformer</u>	MR. McCAFFREY
4284	5	MR. MATTHEW: This is Ryan Matthew	MR. <u>MATHEW</u> : This is <u>Roy</u> <u>Mathew</u>	MR. MATHEW
4284	7	on really	on a <u>review</u>	MR. MATHEW
4284	9	know that	noted	MR. MATHEW
4284	15	transformers are from	transformers are <u>important</u> from	MR. MATHEW
4284	15-16	from a plant report, plant	from a plant <u>performance</u>	MR. MATHEW
4284	17	happened	happens	MR. MATHEW
4284	17	challenged	challenges	MR. MATHEW
4284	21	industry there are	industry <u>that</u> there are	MR. MATHEW
4285	2	arcing for	before	MR. MATHEW
4285	13	MR. MATTHEW	MR. MATHEW	
4286	5	when I would say	<u>then</u> I would say	DR. DOBBS

Page	Line	Now Reads	Should Read	Witness/Speaker
4286	11	more expanded	more <u>expansive</u>	DR. DOBBS
4289	5	let me	let <del>me</del>	MR. CRAIG
4290	3	10 CFR 65	10 CFR <u>50.65</u>	MR. CRAIG
4297	6	the major	the major <u>issue</u>	DR. DEGENEFF
4297	12	measure issue	<u>major</u> issue	DR. DEGENEFF
4298	3	My only thought would be	My only thought	DR. DEGENEFF
4298	4	really need to	really <u>needs</u> to	DR. DEGENEFF
4301	23	Mr. Matthew	Mr. Mathew	JUDGE WARDWELL
4302	2	MR. MATTHEW: This is Roy Matthew	MR. <u>MATHEW</u> : This is Roy <u>Mathew</u>	
4302	16	MR. MATTHEW	MR. MATHEW	
4302	9	occurs	requires	MR. MATHEW
4303	14	Mr. Matthews	Mr. <u>Mathew</u>	MR. McCAFFREY
4303	17	Mr. Matthew	Mr. Mathew	JUDGE WARDWELL
4303	25	MR. MATTHEW: So	MR. <u>MATHEW</u> : <u>Some</u>	MR. MATHEW
4304	10	failures	failure's	JUDGE WARDWELL
4304	14	MR. MATTHEW: This is Roy Matthew	MR. <u>MATHEW</u> : This is Roy <u>Mathew</u>	
4304	17	cousins	causes	MR. MATHEW
4304	18	almost	are	MR. MATHEW
4305	1	loss	auxiliary	MR. MATHEW
4305	2	which is useful	versus	MR. MATHEW

Page	Line	Now Reads	Should Read	Witness/Speaker
4305	3	those	though	MR. MATHEW
4305	4	affect	occur	MR. MATHEW
4305	12	MR. MATTHEW	MR. MATHEW	
4312	16	was wanted to assure	<u>wanted</u> to <u>ensure</u>	JUDGE WARDWELL
4313	17	pages 18-21	pages 18-2 <u>2</u>	JUDGE WARDWELL
4313	22	explosion or in a fire	explosion <u>and</u> /or fire	JUDGE WARDWELL
4322	17	You can	You <u>can</u> 't	JUDGE WARDWELL
4324	19	of details it controls	<del>of</del> details it controls	DR. DOBBS
4324	22	Th	The	DR. DOBBS
4325	3	Now if you look at the secondary,	Now you look at the secondary, <u>if</u>	DR. DOBBS
4326	24-25	the ending terminal and it ratifies on the ex-ending terminal.	the <u>entering</u> terminal and it <u>rarifies</u> on the <u>exiting</u> terminal.	DR. DOBBS
4335	19	field, the terminals, voltages and currents	field <u>and</u> the <u>terminal</u> voltages and currents	DR. DOBBS
4337	5	the or the regulation	<u>properties for</u> the regulation.	DR. DOBBS
4339	21	MR. COX	<u>JUDGE McDADE</u>	
4340	4	But whether there's the actual	But <u>whatever is</u> the actual	DR. DEGENEFF
4341	24	iron ore	iron <u>core</u>	DR. DEGENEFF
4343	8-9	we're really I think driving at is the transformer passive, do the characteristics change or not.	we're really, I think, driving at is, <u>is</u> the transformer passive? <u>Do</u> the characteristics change or not?	DR. DEGENEFF
4343	11	effective	effect	DR. DEGENEFF

Page	Line	Now Reads	Should Read	Witness/Speaker
4343	18-19	that transformer -- The nameplate on all of these transformers are going to have a nameplate which	that transformer -- all of these transformers are going to have a nameplate which	DR. DEGENEFF
4344	13	On	In	DR. DOBBS
4345	8-9	that like charges are repeal	that like charges <u>repel</u>	DR. DOBBS
4346	19	simply	simple	DR. DEGENEFF
4346 - 4347	25-1	It is electricity is just simply charge.	It is, “electricity is just simply charge”?	DR. DEGENEFF
4348	13	looking is an aging	looking <u>at</u> is an aging	DR. DEGENEFF
4350	8	coulomb which is charged	coulomb which is <u>charge</u>	DR. DOBBS
4350	17	closes analogy	closest analogy	JUDGE WARDWELL
4351	14	lead	be	MS. RAY
4354	20	MR. MATTHEW: Roy Matthew	MR. <u>MATHEW</u> : Roy <u>Mathew</u>	MR. MATHEW
4354	23	is so called in how the transformer works	<u>a special way</u> in how the transformer works	MR. MATHEW
4355	1	vortex	voltage	MR. MATHEW
4355	17	acting	active	MR. MATHEW
4355	24	MR. MATTHEW	MR. MATHEW	
4356	3	MR. MATTHEW	MR. MATHEW	
4356	11	MR. MATTHEW	MR. MATHEW	
4356	17	MR. MATTHEW	MR. MATHEW	
4356	20	MR. MATTHEW	MR. MATHEW	
4356	21	you can only put a transformer to a pipe	you <u>can't compare</u> a transformer to a pipe	MR. MATHEW

Page	Line	Now Reads	Should Read	Witness/Speaker
4357	11	MR. MATTHEW	MR. MATHEW	
4357	16	649 kV	6.9 kV	MR. MATHEW
4357	23	MR. MATTHEW	MR. MATHEW	
4358	2	MR. MATTHEW	MR. MATHEW	
4359	4	Matthew	Mathew	JUDGE WARDWELL
4361	11	MR. MATTHEW: This is Roy Matthew	MR. <u>MATHEW</u> : This is Roy <u>Mathew</u>	MR. MATHEW
4361	15	MR. MATTHEW	MR. MATHEW	
4364	13	MR. MATTHEW: This is Roy Matthew	MR. <u>MATHEW</u> : This is Roy <u>Mathew</u>	MR. MATHEW
4364	20	MR. MATTHEW	MR. MATHEW	
4364	23	Matthew	Mathew	MS. MIZUNO
4365	3	Matthew	Mathew	MR. TURK
4365	5	MR. MATTHEW	MR. MATHEW	
4365	10	MR. MATTHEW	MR. MATHEW	
4365	13	tact	tack	JUDGE WARDWELL
4371	16	profession	professional	DR. DOBBS
4371	17	profession	professional	DR. DOBBS
4371	19	in any similar	in any <u>way</u> similar	DR. DOBBS
4371	21	Well	We'll	JUDGE WARDWELL
4375	15	that transformers	that, <u>"Transformers</u>	JUDGE WARDWELL



Page	Line	Now Reads	Should Read	Witness/Speaker
4375	16-17	state; that is, a change in voltage, current and magnetic flux.”	state ( <u>i.e.</u> , a change in voltage, current and magnetic flux). [no quotation mark]	JUDGE WARDWELL
4375	20	electrical energy.	electrical energy.”	JUDGE WARDWELL
4380	2-3	two-lining transformer, two cables	two <u>winding</u> transformer <u>and</u> two cables	DR. DEGENEFF
4380	22	heart of the argument. Ms. Ray led	heart of the argument Ms. Ray led [no period]	JUDGE WARDWELL
4382	24-25	Transformers are readily monitored and even though it monitorable,	Transformers <u>aren't</u> readily monitored even though <u>they're</u> monitorable	JUDGE WARDWELL
4383	4	because the neater change state	because <u>neither</u> change state	DR. DEGENEFF
4384	21	device, but in itself not change	device, but itself <u>does</u> not change	DR. DEGENEFF
4384	23-24	the pump part of the valve casing,	the pump <u>casing</u> <u>or</u> the valve <u>body</u>	DR. DEGENEFF
4387	2	So why it's not	So <u>while</u> it's not	JUDGE WARDWELL
4391	25	classified as AMR --	classified as AMR- <u>excluded</u>	DR. DOBBS
4392	6	list and the regulation	list <u>in</u> the regulation	DR. DOBBS
4399	13	field is larger in opposite	field is in opposite	DR. DOBBS
4399	16	But since it's been leaking on	But since it's been <u>weakened</u> on	DR. DOBBS
4407	25	Matthew	Mathew	JUDGE WARDWELL
4408	2	MR. MATTHEW	MR. MATHEW	
4409	3	wire core	<u>iron</u> core	DR. DEGENEFF
4409	11	magnetic forks	magnetic <u>flux</u>	DR. DEGENEFF
4409	24	MR. MATTHEW	MR. MATHEW	

Page	Line	Now Reads	Should Read	Witness/Speaker
4409	25	Robert Matthew	Roy Mathew	MR. MATHEW
4410	9	MR. MATTHEW	MR. MATHEW	
4410	20	differentiated	differential	MR. MATHEW
4410	24-25	a transformer	an alarm	MR. MATHEW
4411	6	really	readily	MR. MATHEW
4411	17	MR. MATTHEW	MR. MATHEW	
4411	20	38 kv	138 kv	MR. MATHEW
4412	1	MR. MATTHEW	MR. MATHEW	
4412	6	MR. MATTHEW	MR. MATHEW	
4412	10	MR. MATTHEW	MR. MATHEW	
4412	21	MR. MATTHEW	MR. MATHEW	
4412	23	MR. MATTHEW	MR. MATHEW	
4413	2	MR. MATTHEW	MR. MATHEW	
4415	18	transformers, the basic	transformers <u>perform their</u> basic	MR. CRAIG
4416	18	structure component	structure <u>or</u> component	MR. CRAIG
4417	9	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4418	24	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4419	8	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4419	13	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4420	17	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4420	24	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4421	11	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4422	8	DR. DEGENEFF:	<u>DR. DOBBS:</u>	

Page	Line	Now Reads	Should Read	Witness/Speaker
4422	17	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4422	18	Even have it	<u>Don't</u> even have it	JUDGE WARDWELL
4422	20	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4423	2	MR. MATTHEW: Roy Matthew	MR. <u>MATHEW</u> : Roy <u>Mathew</u>	MR. MATHEW
4423	18	MR. MATTHEW	MR. MATHEW	
4424	8-11	Jim Harlow, that were essentially written. There were 22 chapters in the book, if I remember correctly, but all written by senior members of the IEEE.	Jim Harlow, that were essentially written -- there were 22 chapters in the book, if I remember correctly -- but all written by senior members of the IEEE.	DR. DEGENEFF
4425	2	(i).	(i).”	JUDGE WARDWELL
4427	2	MR. MATTHEW: Roy Matthew	MR. <u>MATHEW</u> : Roy <u>Mathew</u>	MR. MATHEW
4427	7	MR. MATTHEW	MR. MATHEW	
4427	12	MR. MATTHEW	MR. MATHEW	
4428	7	MR. MATTHEW	MR. MATHEW	
4428	13	MR. MATTHEW	MR. MATHEW	
4428	17	MR. MATTHEW	MR. MATHEW	
4428	21	MR. MATTHEW	MR. MATHEW	
4428	16	CLI12-05	<u>CLI-12-05</u>	JUDGE McDADE
4429	19	CLI12-05	<u>CLI-12-05</u>	JUDGE McDADE
4429	25	MR. MATTHEW	MR. MATHEW	
4430	3	MR. MATTHEW	MR. MATHEW	
4430	7	MR. MATTHEW	MR. MATHEW	

Page	Line	Now Reads	Should Read	Witness/Speaker
4430	10	MR. MATTHEW	MR. MATHEW	
4431	1	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4431	4	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4438	9-10	is on Energy Report 00347	is <u>in Entergy Exhibit</u> 00347	DR. DEGENEFF
4438	11	Energy	Entergy	DR. DEGENEFF
4438	16	with green.	with “ <u>Green</u> .”	MS. HESLIN
4438	17	Energy	Entergy	MS. HESLIN
4438	18	Energy	Entergy	DR. DEGENEFF
4438	19	identify and in	identify in	DR. DEGENEFF
4438	24-25	The data from that testing indicated	“The data from that <u>test</u> indicated	DR. DEGENEFF
4439	12	failures to nuclear plants	failures <u>at</u> nuclear plants	MS. HESLIN
4440	1	Energy	Entergy	MS. HESLIN
4441	6	state that “A significant	state that <u>a</u> significant [no quotation marks]	MS. HESLIN
4441	9	station operators.”	station operators. [no quotation marks]	MS. HESLIN
4441	13	state that “A	state that <u>a</u>	MS. HESLIN
4441	16	station operators.”	station operators. [no quotation marks]	MS. HESLIN
4442	9-10	I’ve served for, on working groups	I’ve served on working groups	DR. DEGENEFF
4442	12	Sigre	Cigre	Dr. DEGENEFF
4444	5	Energy	Entergy	MS. HESLIN
4445	17	maintenance rule, that's either in	maintenance rule, <u>changes</u> either in	MR. CRAIG
4447	2	If there are components	<u>There</u> are components	MR. CRAIG

Page	Line	Now Reads	Should Read	Witness/Speaker
4447	3	components are going	<u>that</u> are going	MR. CRAIG
4448	15	conform	perform	MS. HESLIN
4449	18	ENT 91	<u>ENTR00091</u>	MR. McCAFFREY
4450	17	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4450	23	DR. DEGENEFF:	<u>DR. DOBBS:</u>	
4456	3	The ones in Exhibit 3AR	The ones <u>we discussed</u>	MR. McCAFFREY
4459	10	Matthew	Mathew	MS. MIZUNO
4459	12	MR. MATTHEW	MR. MATHEW	
4459	14	MR. MATTHEW	MR. MATHEW	
4459	17	MR. MATTHEW	MR. MATHEW	
4459	25	MR. MATTHEW	MR. MATHEW	
4459	21	configuration, all properties	configuration or properties	MR. MATHEW
4460	5	MR. MATTHEW	MR. MATHEW	
4460	12	MR. MATTHEW	MR. MATHEW	
4460	16	MR. MATTHEW	MR. MATHEW	
4460	20	MR. MATTHEW	MR. MATHEW	
4460	22	MR. MATTHEW	MR. MATHEW	
4460	25	MR. MATTHEW	MR. MATHEW	
4470	9	Riverkeeper TC-3	Riverkeeper TC-5	JUDGE McDADE
4470	11	ROIs (sic)	RAIs	JUDGE McDADE
4471	5	PP	MR. MUSEGAAS	

**APPENDIX TO THE TRANSCRIPT PURSUANT TO 10 C.F.R. § 2.327(d)**

**Proceeding Name:** Entergy Nuclear Operations, Inc. (Indian Point Generating Units 2 and 3)

**Docket Nos.:** 50-247-LR and 50-286-LR

**ASLBP No.:** 07-858-03-LR-BD01

**Contention:** NYS-8

**Hearing Date(s):** December 13, 2012

**CONTESTED CORRECTIONS:**

For the following, the State of New York objected to Entergy's corrections on grounds that (1) Entergy's corrections do not reflect what the speaker said, and (2) Entergy's proposed changes change the meaning of given testimony. The Board resolves the contested corrections as follows:

<b>Page</b>	<b>Line</b>	<b>Now Reads</b>	<b>Should Read</b>	<b>Witness/Speaker</b>
4225	10	state, something that is quiescent or	state, something that is quiescent or	MR. CRAIG
4277	14-15	or liability impact	<u>a reliability</u> impact	MR. McCAFFREY
4317	23	clarify that that is	clarify that that is	DR. DOBBS
4447	12	polite suggestion to the next time	polite suggestion to the next time	MR. CRAIG

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

In the Matter of )  
)  
) Docket Nos. 50-247-LR  
) and 50-286-LR  
(Indian Point Nuclear Generating, )  
Units 2 and 3) )

CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing **ORDER (Adopting Proposed Transcript Corrections and Resolving Contested Corrections)** have been served upon the following persons by Electronic Information Exchange.

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[Original signed by Brian Newell \_\_\_\_]  
Office of the Secretary of the Commission

Dated at Rockville, Maryland  
this 28<sup>th</sup> day of February, 2013