1/24/83

UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

*83 JAN 24 P3:06

DOCKETED

In the Matter of	?
UNITED STATES DEPARTMENT OF ENERGY	1
PROJECT MANAGEMENT CORPORATION) Docket No. 50-537
TENNESSEE VALLEY AUTHORITY	1
(Clinch River Breeder Reactor Plant)	Ś

APPLICANTS' TRANSCRIPT CORRECTIONS

The United States Department of Energy and Project Management Corporation, for themselves and on behalf of the Tennessee Valley Authority (the Applicants), hereby submit these transcript corrections, which consist of errors in transcription or typing, and request that they be incorporated in the record of these proceedings.

CORRECTIONS

PAGE	LINE	NOW READS	SHOULD READ
1282	11.23	CRBR-3	CRBRP-3
1292	9	Corporations	Corporation
1292	18	Argon	Argonne
1295	20	th is	this
1296	24	portentially	potentially
1311	8	CVA's	CDAs
1325	8	in	and
1325	8	CRBR-3	CRBRP-3
1325	9	actions	sections
1325	16	decay removal	decay heat removal
1327	17	CRBR-3	CRBRP-3
1337	8	desparately	desperately
1341	25	suddently	suddenly
1350	2	addmited	admitted
1352	24	interrogatory	interroga- tories
1352	25	interrogatory	interroga- tories
830124			

8301250281 830124 PDR ADOCK 05000537 PDR

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PAGE	LINE	NOW READS	SHOULD READ
1361	11	inclusion	conclusion
1378	21	reduce the	reduced
1378	21	reduced whole	Reduced Whole
		core heat	Core Heat
		removal	Removal
1378	22	shutdown heat	Shutdown Heat
		removal systems	Removal
			Systems
1378	22	insert	initial
1379	5	reduced whole	Reduced Whole
		core heat	Core Heat
		removal	Removal
1379	6	shutdown heat	Shutdown Heat
-317	·	removal systems	Removal
		removar systems	Systeme
1 2 9 1	22	deala	design
1201	24	desig	design
1301	24	evaluate to	evaluate, to
1382	4	testimony and in	testimony,
1000		4	and in
1383	2	doubled	double
1383	8	are there	there are
1384	15,18	in	an
1385	24	in	an
1387	23-25	The answer to th be missing.	is question seems to
1392	7	of the	ofthe
1392	15	anyway	any way
1393	6	necessary and	necessary, it
		would	would
1468	16	Nord	Nort
1476	13	accident	accidents
1476	15	at	85
1483	14	emphasized	emphasize
1484	21	in	and
1484	21	fast flux test	Fast Flux Test
1404		facility	Facility
1487	6	119	list
1488	5	Denise DeCaffey	Denise to
1400	-	,	Caffey
1489	18	testimony, in	testimony, and
1400	10	the	the
1/90	17	11	100.11(a)
1403	10	door	dose
1491	10	does	enecifically
1491	22	specifically	specifically
1494	16	possible	impossible
1495	13	flow of block-	flow block-
		ages	ages
1496	15	miracle	numerical
1498	8	projects	project's
1499	5	That the	The of
		of DBA's	these DBAs
1499	6	available	envelop all
1499	19	on the	in the

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PAGE	LINE	NOW READS	SHOULD READ
1501	7	defens	defense
1502	12	FFTF in the	FFTF, in the
1502	13	in SEFOR in-	in SEFOR, in-
		cluded	cluded
1505	16	advisory com-	Advisory Com-
		mittee on	mittee on
		reactor safe-	Reactor Safe-
		guards	guards
1505	18,20	Dixon	Dickson
1505	21,23	Dixon	Dickson
1506	5	Dixon	Dickson
1506	16,19	Dixon	Dickson
1506	19	don't that	don't know
			that
1506	16	Dixon	Dickson
1533	1	ture	true
1533	11	onthe	on the
1535	13	group	100p
1537	15	42. we've	42. We've
1541	25	contain	containing
1542	16	PWR	BWR
1542	24,25	Clinch River is	(no para-
		that the	graph)
1542	24,25	delete period, c	ontinue
1	21	plant but to	plant, to
1550	21	fadaral	general
1554	3	rederal	mechanics
1557	22	mechanic s	mechanics
1558	2	mechanis	Phonix
1563	6,10	Phoenix	Phonix
1564	13	Phoenix	Phonix
1565	11	Phoenix	any of the
1583	10	elt.er of the	other three
		Scher rour	anguar
1587	0	disse-	diverse
1588	17	divers	decay
1590	12,22	decayed	not
1593	20	nor an auxiliary	nor auxiliary
1505	20	form	requirement
1505	21	source avail-	available
1333	21	able.	source.
1506	3	desing	design
1596	13	in multiple	multiple
2370		failures	failures

28

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PAGE	LINE	NOW READS	SHOULD READ
1596 1596 1596	5 9 8,9	signle of failure, act of	single failure, active
1596	13	in	a
1600	1	cover	covered
1600	5	feasability	feasibility
1606	18	indentify	indemnity
1608	22	supposed	suppose
1609	10	that	where
1609	21	sudden	sodium
1613	22	operation	operator
1615	15	fist	first
1616	18	second "the"	to
1617	25	withour	without
1620	17	useday	Tuesday
1620	21	nontheless	nonetheless
1633	14	LAWRENCE W.	L. WALTER
		DEITRICH	DEITRICH
1638	23	likelihood or	likelihood or
1646	17	had	head-
1647	18	plan	plant
1648	3	project office	Project
		a second second second	Office
1648	7	consider where	consider
			failures
			where
1649	13	a	an
1652	13	ceiling	sealing
1655	3	no, it	I don't
			know. It
1657	8	in	on
1657	12	documented at	documented,
		least in part in	at least in
			part, in
1659	12	generator con-	generator,
		denser cooling	condenser,
			cooling
1659	20	actually	actuate
1659	24	cooler	heat trans-
			port path
1659	24	temperature	(delete)
1659	7.10.18	Witness Brown	Witness
			O'Block
1660	10.24	Witness Brown	Witness
			O'Block
1660	5	controlled	control
1661	2.10.15.24	Witness Brown	Witness
	-,,,		O'Block
1661	6	exasperate (sic)	exacerbate
1662	10.18	Witness Brown	Witness
1001			O'Block

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PAGE	LINE	NOW READS	SHOULD READ
1663	2	The	They
1663	4	report.	reports.
1664	20	line absorber	line,
			absorber
1667	17	contro	control
1672	24	conducted West-	contucted at
		inghouse	Westinghouse
1673	5	scram	scrams
1674	23	possible design	possible,
			design
1675	5	accomodate	accommodate
1682	7	larged	larger
1683	19	in	on
1683	19	particular of	particular of
1684	4	ists	istics
1686	10	Susanna	Susana
1691	22	start	stop
1692	1	document	documented
1603	17	rapidaly	rapidly
1694	5	water	what are
1695	10	motor	order
1697	3	indocporated	incorporated
1607	Ĩ.	HCDAR	HCDA
1700	10-20	fast flux test	Fast Flux
1,00	19-20	facility	Test Facility
1700	20	Phoenix	Phenix
1700	20	rod and	rodded
1716	ŝ	the reactor	the primary
1/14	,	the reactor	reactor
1714	10	reactor	system
1720	12	-seconday	-secondary
1724	3	indetermining	in deter-
		 Second and the second seco	mining
1724	9	absolute	absolutely
1724	14	there were	(deleted)
1727	1	auziliary	auxillary
1727	7	colling	cooling
1727	25	liguid	liquid
1728	17	phase	Dase
1731	16	to	do
1739	12	dosess	doses
1742	15	testimony. We	we
1749	5	heat	feed
1750	12	and	in
1751	5	been through	been,
			through
1752	16	programatic	programmatic
1754	22	dose? That	dose that
1765	19	results	result
1777	14	and	a
1770	5	85	on

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PAGE	TINE	NOW READS	SHOULD READ
1783	22	you'r	you're
1786	16	assume	assumed
1789	1	HCDA's	HDCAs
1790	20	ducument	document
1791	5	CRBRP Volume 3	CRBRP-3,
1803	11	on	in
1803	17	basic	basis
1803	18	marginal	margin
1804	6	with	both
1804	18	off-site	oxide
1805	7	top	TOP
1805	10	will	or a
1810	11	Energetic	Energetics
1811	6	SMDB	SMBDB
1811	13	relying the	relving on
			the
1813	2	contaminant	containment
1816	5	SDATRY	sparging
1822	15	lenthenites	lanthanides
1824	17	in Case 2	in Case 2.
1024	- /	that	that
192/	18	polinium	nolonium
1024	17	portitium	portrack
1020	1/	whatever	whatever
1000	14	ended also	whatever
1828	10	Whick	which
1828	19	nave extended	nave,
		and the Report of the	extended
1828	20	structure what	structure,
			what
1830	24	double	noble
1833	8	Pn-240	Pu-240
1834	25	facilities, plus	facilities.
			Plus,
1834	14	a	on
1834	20	LMFPR	LMFBR
1836	8	design basis	Design Basis
		accident	Accident
1836	9	envelope.	Envelope.
1837	23	754 will in fact	7.5.4 will,
			in fact,
1837	17,20	fail	failed
1837	22	fail	failed
1838	2	85	of
1839	3	calcaulations	calculations
1840	13-22	Strawbridge	Deitrich
		quoted twice:	omitted.
1842	21	atmospher	atmospheric
1843	20	suddently	suddenly
1846	20	move	remove
1847	11	many	Any
1847	23	heat	steam
104/	23	11000	

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PAGE	LINE	NOW READS	SHOULD READ
1848	15	liquid metal engineering	Liquid Metal Engineering
		center	Center
1848	25	piping.	piping
1849	1	(no new para-	
70 (S. 14)		graph or	
		sentence)	
		Following	following
1850	17	ordinate and	ordinate.
		whereas	And areas
1850	7	someting	something
1852	24	considerably	considerable
1863	20	analyze them	analyze them,
1863	21	metallurgically,	metallurgi-
		test	cally test
1863	5	involute	involved
1863	19	cupons	coupons
1864	5	cupons	coupons
1865	8	up to the	onto the
1866	17.18	Delete "not a	fission gas"
1870	10	GMI	TMI
1871	5	double	noble
1871	15	term that	term. That
1973	2	achieve	achieved
1973	24	consisted	consistent
1975	- 3	to be, as Mr.	to be. As
10/3	2		Mr.
1976	4	in the time	in time
1978	ž	cetera, those	cetera.
10/0	-		Those
1878	6	condidions	conditions
1878	15	calcualtions	calculations
1880	9	CLARE :	STRAWBRIDGE :
1991	ó	process but	process.
1001	,	analyses	But analyses
1001	1	CLARE	STRAWBRIDGE
1991	7	truly	to
1001	13 14	delete "twenty-	four hours,
1001	13,14	which we found"	
1881	15	assessments, you	u assessments.
2002			You.
1884	17	I'm	I am
1887	5.6	inh tax res int	Inhalation
1007			Toxicology
			Research
			Institute
1887	11	institute	Institute
1887	17	institute	Institute
1888	4	come	comes
1889	15	in the	pen to
1891	16	Thyroidwithin	Thyroid
1071	••		within
1891	16	understandin	understanding

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PAGE	LINE	NOW READS	SHOULD READ
1893 1894 1910 1911 1912 1912	15 20 25 23 1 15	correct ICRP LAI's waiting The model does employ numbers which	to respond clarify ICRP-2 ALI's weighting The model doesn't employ numbers
1915 1915	13 25	ICRP Then we draw back in terms of ICRP-26 and	which ICRP- These are then used with ICRP-26 which contains
1915	9-11	It is animal data. It is human clinical data. It is autopsy data, epidemiological	It contains animal data, human clinical data, human autopsy data and epidemio-
1916 1918 1918 1919 1919	1 2 5 25	data there which are in or potential soon gives you a of those	(delete) (delete) change as a to a problems being addressed
1920	1-4	that come immediately to mind that jump out that say thatyou know, that there's som thing that I've got a great concern about if we don't get you know some thing that's	(delete and add) that are
1972	11	0	to

Page	No.	Line	No.
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Now Reads

Should Read

5	LAWRENCE W. DEITRICH	L. WALTER DEITRICH
5	LAWRENCE W. DEITRICH	L. WALTER DEITRICH
2	Safety	Safety and
10	beings	begins
16	respace	respect
23	is	if
11	brith	birth
23	BY WITNESS DEITRICH	BY WITNESS CLARE
11	BY WITNESS DEITRICH	BY WITNESS CLARE
25	on	in :
1	have you	you have
6	in	and
1	frequency failure	frequency of failure
1	Sovient	Soviet
17	leak	lead
1	systen	system
20	reidrect	redirect
4	but	ьу
9	yeu	You
24	disclosed	enclosed
2	not	no
3	close	coast
23	actual .	natural
22	trictly	strictly
16	issues.	issue.
10	Allen Walters	Alan Waltar
12	Allen Walters	Alan Waltar
13/14	Allen Walters	Alan Waltar
8	Allen E. Walter	Alan E. Waltar
22	consequent	consequence
	5 5 2 10 16 23 11 23 11 25 1 6 1 1 25 1 6 1 1 17 1 20 4 9 24 2 3 22 16 10 12 13/14 8 22	5LAWRENCE W. DEITRICH5LAWRENCE W. DEITRICH2Safety10beings16respher23is11brith23BY WITNESS DEITRICH11BY WITNESS DEITRICH11BY WITNESS DEITRICH25on1have you6in1frequency failure1Sovient17leak1systen20reidrect4but9you24disclosed2not3close23actual22trictly16issues.10Allen Walters13/14Allen Walters8Allen E. Walter22consequent

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5096	4	Allen E. Walter	Alan E. Waltar
5096	14	Allan Walter	Alan Waltar
5097	1	stimulant	simulant
5103	3	convensional	conventional
5105	22	pressure-type	pressure-time
5139	8	post	proposed
5152	22	cetera.	cetera,
5152	22	That	that
5152	22	Ventori	Venturi
5154	12	mock-ups	mark-ups
5154	13	there	that
5157	2	for	or
5157	5	does	dose
5158	31	conversation	conversion
5158	23	conversation	conversion
5158	25	converstion	conversion
5159	3,11	meteorlogical	meteorological
5159	18	does	dose
5160	8,14	meteorlogical	meteorological
5160	21	items	iodine
5168	10	occasions	equations
5170	10	equations methodology	equations and methodology
5171	16	seal	steel
5181	5	anlyses	analysis
5182	8	differe	differ
5186	20	feasbile	feasible
5191	12	NCDA's	HCDA's
5192	21	CEA	CDA
5203	15	working the respirator	working in respirators
5204	12	dose in ground	dose from ground
5213	7,9,11	Ameresium	Americium
5213	10	This has been	It has been
5217	17	far	for
5238	11	Sectors	Sector
5242	16	TOWS	rose

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-			
_	э.	- 84	-
	* *	-	

5257	4	LAWRENCE W. DEITRICH	L. WALTER DEITRICH
5259	12	LAWRENCE W. DEITRICH	L. WALTER DEITRICH
5261	17	requirements	requirement
5263	16	sodium	system
5264	14	moving	removing
5265	6	product,	product
5268	7	knack	Nak
5268	10	pumped	dumped
5281	15	particular	particulate
5281	18	and there hence	and hence
5281	19	particular	particulate
5304	10	are big tanks	are in big tanks
5305	2	if	is
5305	12	ORO	ORR
5318	14	repressurizing	overpressurizing
5319	2	actions	accidents
5319	19	address is	address it
5320	6	Or the	Our
5327	17	philosophy	velocity
5327	21	depostion philosophy	deposition velocity
5334	18	prtected	protected
5336	2	active	reactive
5337	8	IA checks	IHX
5340	19	aprt	apart
5343	22	Clare	Strawbridge
6291	14	acronisms	acronyms
6297	14	cooled generators	cooled steam generators
6298	6-7	available.	available, incorporated.
		Incorporated	
6299	18	tubes we	tubes. We
6299	19	equipment. The	equipment, the
6300	5	out	at
6300	14	behave	beor have
6300	21	welding and	welding. And
6300	23	flow loose vibration	flow induced vibration

	25		
6301	25	on	TWP It has roughly 757
6302	0	LWR Which, to a degree	tubes.
****		has 757 cubes,	T believe one
6302	8	we believe on	into play
6302	12	into.	Into play.
6303	7	To avoid the	1.d like to avoid a
6303	11	unit is one	unit, one
6303	20	you question, in	your question in
6303	21	differencs	differences
6303	24	to	by far
6304	11	series tests	series of tests
6304	16	operation,	operation and
6304	17	20 years R and D test	20 years of R&D and test
6304	22	do is, we will	do first is, we will
6304	24	in 1983	in the 1983
6305	7	at temperature	and at temperature
6306	20	1985 and 1986	1985
6306	22	E-Tech where we are	ETEC where we are
6307	1	You begin preparing	You'd begin conducting
		tests in '87,	tests in 1987,
6307	3	in the	into the
6307	4	those.	those units.
6307	5	'88	1988
6307	6	the units	the plant units
6307	8	estimate	estimate a
6307	9	project to	project, to
6307	15	that's	it's
6307	23	Your question is a	Your question was, is
		system	there a system?
6307	25	to during	during
6308	2	have as to	have so it may
6308	13	components of	component or
6309	6	regulations, and in	regulations. And in
		particular any	particular, any environ-
		environ-	

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6309	7	to LMFBR's.	of LMFBR's.
6309	8	and measuring their	and physically measuring
		physical and	their
6310	3	regulations.	regulations."
6310	10	that just	that was just
6310	11	to the environmental	to environmental
6311	12	materials	waterial
6311	15	to for	to details for
6311	17	that.	it.
6311	21	can for	can, for
6311	22	gories distinguish and document. First	gories, distinguish and document first
6312	13	in here we are using those	here that we are using those data
6312	14-15	large developmental plant	Large Developmental Plant
6314	8-9	allow it to pass through in order	allow such material to pass through, in order
6314	14-15	high temperature,	high temperature sodium
		sodium and fuel debris	and fuel debris that would
		that would be within	be within the core
		the core catcher in order	catcher, in order
6315	23	air bags in	air packs in
6319	8	power,	power
6319	10	objectives	objectives,
6319	16	project. Again, the	project, again,
6319	18	jectives after	jectives. After
6321	6	asking program	asking about program
6321	17	in its	and its
6321	19	program project	program and project
6322	•	That'sTo me, yes, that's	That to me is
6322	5	program	program and
6325	13	answer.	question.

6325	1	as a	from a
6326	2	as said	as I said
6327	11	means and whether it be	means, and whether it could be
6327	13	can't	can't answer.
6333	23	that	that,
6333	24	aggregate	aggregate,
6338	3	significantly	significantly or
6342	18	we	it
6342	23	we would meet as	we made would meet as
6343	8	plan	plant
6347	20-21	large developmental plant	Large Developmental Plant
6348	6	that which	that plant which
6349	6	gneral	generally the
6350	11	in the Page	on the pages
6350	15	technilogical	technological
8,51	21-22	large developmental plant	Large Developmental Plant
6351	24	reguel	refuel
6352	4	exvessel transfer machine	ExVessel Transfer Machine
6352	9	for that is	is
6352	10	megawatt or 25,500	megawatt or 2550
6352	13	again, of	again, because of
6352	18	large	larger
6354	21	thewe	thatas we
6354	22	testimony	testimony,
6354	23	LMFBR but I	LMFBR. But, I
6357	9	data in any manner	data, in any manner,
6359	8	when we talk about	where we talk about,
6359	9	phase, having	phase, of having
6359	21	project with	project office with
6360	21	the both cooperative	the cooperative
6360	23	has	have

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6361	12	those in	those qualify in
6362	7	Rowe	Roe
6363	10	in diameter	diameter
6363	20	amountof	amount of
6363	23	way	way,
6363	25	ahopa	shop
6364	16	I don't know the	I don't know. The
		bigger	bigger
6365	15	anyplace	any place
6365	19	boilding	boiling
6366	9	occur	occurs
6369	12	don'	don't
6369	21	inacceissible	inaccessible
6370	2	say categorically	say that categorically
6370	5	after to	after an accident to
6370	7	of	for
6371	8	design	design.
6371	22	such as event-purge	such as a vent-purge
6374	5	NCDA	HCDA
6382	12	Reading gain is as one	Breeding gain is one
6382	14	over	in
6382	16	cor	core
6382	25	facilities that we	facilities, give
		have give	
6383	21	isotopesplutonium	isotopic plutonium
6385	7	EBR-2	EBR-II
6385	9	from the fuel	from the core
6386	10	things	thing
6386	23	base, and to	base. And to,
6386	24	used would	used, it would
6388	12	at a larger	from a larger
6391	1	this operation FFTF	this operation of FFTF,
6391	2	continued	and continued
6392	1	Rowe	Roe
6392	2	Oradale	Oradell

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6392	9-10	Walsh	Waltz
6392	12	illustration	illustration in
		Figure 2	Figure 2
6392	13	get our picture	get in a picture
6392	14	immense, but the	immense; the
6393	6	breeding	breeder
6393	21	Can't make that with	I can't make that correlation with
6394	19	LRLMFBR	LMFBR
6394	20	process and	process. And
6395	2	have on the	have the
6395	5	generally design is	generally find is
6395	6	advantage one	advantage, one
6395	7	whole and	whole. And
6395	8	out in here	out here
6395	11	materials	materials,
6395	18	incorporation	incorporated
6395	25	differences	difference
6396	2	designs and we find that in	designs. And we find that in
6396	7	it	there
6399	20	uprotected	unprotected
6403	15	that could	that I could
6403	15	crearly the	clearly
6403	15	statement that	that statement
6403	18	you've	and you've
6405	13	go to	going to
6472	4	megajewel	megajoule
6473	12	megajewel	megajoule
6473	14	megajewel	megajoule
6504	20	captured residence	capture resonance
6513	6	dealsy	delays
6515	14	things	thinks

Respectfully submitted,

Attorney for Project Management Corporation

William D. Luck Attorney for the Department of Energy

DATED: January 24, 1983

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

In the Matter of UNITED STATES DEPARTMENT OF ENERGY PROJECT MANAGEMENT CORPORATION TENNESSEE VALLEY AUTHORITY (Clinch River Breeder Reactor Plant)

) Docket No. 50-537

)

)

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