

Northeast Nuclear Energy

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The Northeast Utilities System

Donald B. Miller Jr., Senior Vice President – Millstone

Re: 10CFR50.73(a)(2)(v)

September 11, 1995 MP-95-281

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

Reference: Facility Operating License No. DPR-65 Docket No. 50-336 Licensee Event Report 94-040-02

This letter forwards updated Licensee Event Report 94-040-02.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

Donald B. Miller, Jr. Senior Vice President – Millstone Station

DBM/PHB:dlr

Attachment: LER 94-040-02

CC: T. T. Martin, Region I Administrator
 P. D. Swetland, Senior Resident Inspector, Millstone Unit Nos. 1, 2, and 3
 G. S. Vissing, NRC Project Manager, Millstone Unit No. 2

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NRC F (5-92)		ICE		U.S. NU EVENT RE		(LEF	R)	COMMIS	SION	ESTI COLL BURG BRAN WASI PRO.	MATED BI LECTION DEN ESTII NCH (MI) HINGTON JECT (3)	URDEN PE REQUEST MATE TO NBB 7714).	EX R RESP 50.0 H THE IN U.S 55-000 OFF	PIRES: ONSE TO O HRS FOR FORMATIO NUCLEAR 1. AND TO	5/31/ COMPL RWARD N AND R REI O THE	3150-011 95 Y WITH THIS COMMENT RECORDS GULATORY PAPERWOY GEMENT	S INFOR IS REG MANAC COMM	BARDING GEMENT AISSION DUCTION	
FACILIT	NAME (1)	11.1							1		10		NUMBER			PAGE		
TITLE (4			Millst	one Nuclear F	Power St	ation L	Jnit 2	2	-					050003	336		1 0	F 9	
	Ve	Intilati	on De	sign Deficienc	y Affecti	ng End	closu	ure Buil	ding	Inte	grity								
EVE	NT DA	TE (5)	1	LER NUMBER	R (6)	REP	ORT	DATE (n			OTHER	R FAC	ILITIES	and the second second	LVED (8)			
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION	MONTH	DA	Y YEA	R F	ACILITY	NAME				DOC	KET NUMBE			
12	6	94	94	- 040 -	02	09	1	1 9	5 5	ACILITY NAME					05000 DOCKET NUMBER 05000				
OPERAT	NG		THIS	REPORT IS BEI	NG SUBM	ITTED	PURS	UANT T	OTH	E REC	UIREN	AENTS C	DF 10	CFR §: (Chec	married in conversion of the	more) (11)	
MODE		*	+	402(b)		20.405				T	50.73(a)(2)(iv) 73.71(b)					73.71(b)			
POWE			20	405(a)(1)(l)		50.36(c	:)(1)			X	60.73(a)	(2) (V)	73.71 (c)						
LEVEL (.(10) O 20.405(a)(1)(0) 50.36(c)(2)		50.73(a)	(2) (v11)				OTHER											
				50.73(a	(2)(1)				50.73(a)	(2) (viii) (A)	9			ity in Abstra and in Taxt,	NRC				
				50.73(a	(2)(8)	and contains restore			50.73(a)	(2) (viii) (B)			Form	366A)	1410				
			20	405(a)(1)(v)		50.73(a	50.73(a)(2)(iii)				50.73(a)(2)(x)								
				LIC	CENSEE C	ONTAC	TFO	RTHIS	LER (12)									
NAME														TELEPH	ONE N	UMBER (Incl	ude Are	e Code)	
	P	hilip .	J. Lutzi	, Nuclear Lice	ensing									(203)	440	-2072			
		co	MPLET	ONE LINE FOR	EACH CO	MPON	ENT	FAILUR	EDES	SCRIB	ED IN 1	THIS RE	PORT	(13)		a desired in the state of the s			
CAUSE	SYSTE	T	MPONENT	T	REPO	RTABLE		CAUS	T	T				MANUFACTURER		REPORTABL TO NPRDS			
		+																	
				SUPPLEMENT	AL REPO	RTEXP	ECTE	ED (14)						XPECTE		MONTH	DAY	YEAR	
VI 01		plete EXF	ECTED SU	BMISSION DATE)			X	NO						DATE (15				1.1	
On	Dece Enclo	mber	6, 199 Buildir	a, i.e., approximately 1 4, at 2223 hou ng that would bt receive cha	urs, with allow for	the pla a dire	ant d	lefuele	d, it v e to	was c atmo	leterm spher	ined the follow	hat a ving	release a Loss	of C	h existe oolant /	d fro Accid	m lent	

Further investigation revealed that there were other potential single failure scenarios that could have resulted in a release path from the Enclosure Building that would allow a direct discharge to the atmosphere without charcoal filtration following a LOCA if Enclosure Building Purging operations were being performed.

The root cause is a deficiency in the original design.

Net Comm 386A U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OWN 10.3 1500-0104 LICENSEE EVENT REPORT (LER) TEXT CONTINUATION Itemato management associate to comment and the production mediate to a set of commend and the production mediate to a set of commend and the production mediate to a set of commend and the production mediate to a set of commend and the production mediate to a set of commend and the production mediate to a set of commend and the production mediate to a set of commend and the production mediate to a set of commend and the production mediate to a set of commend and the production of the production the production of the production of the production			RDING EMENT SSION ICTION								
FACILITY	NAME (1)	DOCKET NUMBER (2)			presentation of the second second	NAME AND POST OFFICE ADDRESS OF		PAG	3E (3)		
		05000336		YEAR NUMBER NUMBER			OF	09			
TEXT (If more space is required, use additional copies of NRC Form 366A) (17)										
1.	Description of Event										
	existed from the Enclosure Building that is Coolant Accident (LOCA) that would not determined to be an oversight in the origin With the establishment of the system eng immediately identified the discrepancy in The design basis of the Enclosure Suildir	would allow a dim receive charcoal inal design of the gineering program this non – safety ng Filtration Syste	ect disc filtration dischar n, the er related em is to	harge n. The rge flo nginee syster collec	to the a cause w path or review n and i and i	atmos of this for the wing a nitiate	phere dur e event ha e Hydroge work pac d an inves from the	ring a s beer en ana ckage stigatio	n alyzer on.		
	(HEPA) and Charcoal Filtration system. This method of discharge minimizes the publics exposure to lodine and maintains off site dose less than 10CFR100 limits.										
	building and discharge approximately 1000 cfm out the Unit 2 Main Exhaust stack. This flow path has HEPA filters but does not have any Charcoal Adsorber filtration. This non-safety related exhaust fan normally runs to maintain a negative pressure on the sample hood to prevent technicians from being exposed to gas while obtaining routine chemistry samples. The fan has no automatic shut off feature and there are no isolation dampers in the line to prevent a release during an event that would actuate the Enclosure Building Filtration System.										
	Their analysis was based upon a major accident assuming a substantial meltdown of the cure with subsequent release of appreciable quantities of fission products as identified in 10CFR100 and concluded										
	the enclosure building integrity inoperable. The plant was in an undefined mode due to the core being off loaded when the discrepancy was found and declared inoperable. Enclosure Building integrity is not										
	additional findings. On February 9, 1995 deficiency in the enclosure building purg component failure, a release path from th atmosphere without charcoal filtration foll	, at 1300 hours, v e system was ide le Enclosure Buil	vith the intified. ding wo	plant In the ould al	defuele event low for	of a si a direc	otential di ngle facili ct dischar	esign ty or ge to			
	important to note that in order for any of t operations must be in progress coincider	these unsatisfacto	ory cond	ditions	to exis	st, Enc	losure Bu	ilding		10	
	The first single failure problem scenario of the Enclosure Building is being purged, a System (ESAS) operation is postulated, t signal. EBFS fan 'B' will attempt to draw and most likely would not achieve this re-	and a complete fa then AC-1 will re down the Enclos	ailure of main op	facilit ben ar	y 1 Eng nd EBF	ineere S fan '	d Safety A' will not	Actua get a	tion start		
	The second problem deals with AC-11. If the Enclosure Building is being purged and damper AC-11 fails to close (either facility 2 ESAS or mechanical damper failure), then fans 34A, B, and C (main exhaus fans) will have a direct suction on the Enclosure Building atmosphere (AC-8 is open for the purge) and will result in an unfiltered release which may exceed 10CFR100 limits for offsite dose - post LOCA.										

U.S. NUCLEAR REGULATORY COMMISS	ON
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LICENSEE EVENT REPORT (LER)

NRC'Form 386A (5-92)

APPROVED BY OMB NO. 3150-0104

EXPIRES: 5/31/95 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 50.0 HRS FORWARD COMMENTS REGARDING

	TEXT CONTINUATION		BURDEN ESTIMA BRANCH (MNBI WASHINGTON, D PROJECT (2150 WASHINGTON, D	8 7714). XC 2068 (-0104)	U.S M 55-0001 OFFICE	AND	TON AND RE EAR REGUL TO THE PAR MANAGEN	TORY	COMMI K REDU	SSION.
FACILIT	Y NAME (1)	DOCKET NUMBER (2)	Le contraction de la contracti	LEP	NUMBER	(6)	1	PA	GE (3)	
PAGIGI	(I)		YEAR	SE	OUENTIAL	T	REVISION			
	Millstone Nuclear Power Station Unit 2	05000336	94	_	040	_	02	03	OF	09
TEXT	(If more space is required, use additional copies of NRC Form 366A) (17)	dame and a second s		alica, carane		ar a nar dea	and appropriate property specific		And a second	
	However Radiation Monitoring alarms an operators to take corrective action to qui	d trends would in ckly terminate the	dicate an ab event.	norm	al con	ditio	on and al	lert th	Θ	
	A review of historical documents has det and has existed since initial startup. The by the NRC as meeting the Design Basis	se conditions wer	e addressed	in co	orrespo	ond	ence and	acce	ptabl epted	Ð
	There were no automatic or manually init	iated safety syste	ms actuated	as a	result	of th	nese eve	nts.		
П.	Cause of Event									
	The root cause of the hydrogen analyzer cabinet ventilation system.	event is the desig	n and install	ation	of the	hyd	drogen a	nalyz	er	
	The root cause of the Enclosure Building Enclosure Building purge system was no operations. The system does have isolat	t originally design	ned for single	failu	re, coi	ncia	dent with	purg	ie ing	
111.	Analysis of Event									
	Based on event investigation, this conditi event or condition that alone could have systems that are needed to mitigate the c	prevented the fulf	illment of the	safe	of 10Cł ity func	R5	0.73(a)(2 n of struc	2)(v), ' tures	'Any or	
	The Radiological Assessment branch per analyzer condition. Their analysis was b the core with subsequent release of appr and concluded that the calculated site bo configuration has existed since initial pla	based upon a major reciable quantities bundary thyroid d	or accident a of fission pr ose would ex	oduc	ning a ts as i	sub den	stantial r tified in 1	neltdo 0CFF	own (of
	The Radiological Assessment branch per enclosure building purge condition. The substantial meltdown of the core with sub identified in 10CFR100 coincident with Er component and significant leakage from Assessment branch concluded that the c limits if the release went undetected. Bas that the plant is adequately and safely de	ir analysis was ba bsequent release nclosure Building containment into calculated site bou sed upon the prev	sed upon a lof appreciab purge opera the enclosur undary thyroi vious discuss	majo le qu tions e bu d do sion,	r accid lantitie s, a sin ilding. se wou howev	ent gie The IId e	assumin fission p failure of P Radiolo exceed 1 t has bee	g a roduc a fac ogical 0CFR	cts as ility o	r.
IV.	Corrective Action									
	Following the discovery of this condition the Enclosure Building integrity inoperab and Enclosure Building integrity is not re required.	le. Since the plar	nt was defuel	ed w	hen th	e di	screpan	cy wa	s fou	nd
	Work has been completed to relocate the building to correct this deficiency.	e hydrogen analy:	zer and samp	ola he	ood to	out	side the	enclo	sure	
	Since postulating a single failure during plant, no further corrective action is required by our engineering staff, it was decided to isolation capability and preclude the pote currently scheduled to be completed in the completed in the second statement of the second st	ired. However, aft to install a gravity ential for an unmo	ter the single damper in th	failu e su	re vulr pply di	uct 1	bility was to provid	s iden e redi	unda	nt

CILITY NAME (1) CILITY NAME (1) DOCKET NUMBER (2) LER NUMBER (6) PAGE (3) YEAR SEQUENTIAL REVISION NUMBER NUM NUMBER NUMBER NUMBER NUM NUMBER NUMBER NUM NUMBER NUMBER NUM	09
Millistone Nuclear Power Station Unit 2 05000336 94 - 040 - 02 04 0 XT (If more space is required, use additional copies of NRC Form 366A) (17)	09
Unit 2 05000336 94 - 040 - 02 04 01 XT (If more space is required, use additional copies of NRC Form 366A) (17) - 040 - 02 04 01	09
Similar LERs: None	
EIIS Codes	
Hydrogen Analyzer Cabinet IK-CAB	
Hydrogen Analyzer Cabinet Fan IK-FAN	
Containment Leakage Control System BD	
Reactor Containment Building NG	
Plant Exhaust System VL	

NRO Form 366A (5-92) LICENSEE EVENT REPORT (I TEXT CONTINUATION		COLLECTIO BURDEN EI BRANCH WASHINGTO PROJECT	D BURDE ON REQ STIMATE (MNBB ON DC (3150-	EXPIRES IN PER RESPONSE UEST 50.0 HRS E TO THE INFORMA 7714). U.S. NUCL 20555-0001, AND 0104). OFFICE C	5/31/95 TO COMPLY W FORWARD CO TION AND RE EAR REGUL TO THE PAR	TH THIS I DIMMENTS CORDS M ATORY PERWORK	REGA AANAGE COMMIS REDU	RDING EMENT SSION
FACILITY NAME (1)	DOCKET NUMBER (2)	EXPIRES: \$/31/95 ESTIMATED BURDEN PER RESPONDE TO COMPLY WITH THIS INFORM DURLECTION REQUEST SO THESE PORTALITATION COMMENTS FEED ANDER, ESTIMATE TO THE INFORMATION REGULATION COMMENTS INFORMATION TO 2005 AND TO THE RAPEWORK REDUC PROJECT 3190-3104). OPFICE OF MANAGEMENT AND BUIL WASHINGTON DC 20050 MILLER NUMBER (0 PROJECT 3190-3104). OPFICE OF MANAGEMENT AND BUIL WASHINGTON. DC 20050 MILLER NUMBER (0 PROJECT 3190-3104). OPFICE OF MANAGEMENT AND BUIL WASHINGTON. DC 20050 MILLER NUMBER (0 PROJECT 3190-3104). OPFICE OF MANAGEMENT AND BUIL WASHINGTON. DC 20050 MILLER NUMBER (0 PROJECT 3190-3104). OPFICE OF MANAGEMENT AND BUIL WASHINGTON. DC 20050 MILLER NUMBER (0 PROJECT 3190-3104). OPFICE OF MANAGEMENT AND BUIL WASHINGTON. DC 20050 MILLER NUMBER (0 PROJECT 3190-3104 MILLER NUMBER (0 PROJECT 3100-300 MILLER NUMBER (0 PAGE (3) MILLER NUMBER (0 PAGE (3) MILLER NUMBER (0 MILLER NUMBER (0 MILLER NUMBER (0 MILLER NUMBER (0						
			YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Millstone Nuclear Power Station Unit 2	05000336		94	- 040 -	ned to ventilate the Enclosure			
TEXT (If more space is required, use additional copies of NRC Form 366A) (17)		nt 1						
Building (all modes) and the Containment non-QA, and non seismic. The portion	nt (modes 5 and 6 of the CEBPS wh seismic class I. T	6 only). It ich penet he purge	t was trates	purchased a the containr	nd install nent and	ed as ties to	EBF	S A,
QA status. This was to accomplish he is	solation function f	rom CIAS	sign	als post LOC	A. Purge	a fan (l	F23)	0
The EBFS system was purchased and in and seismic class I also.	nstalled as QA and	d seismic	class	I. The EBFS	6 tie to CE	EBPS i	s QA	
the Atomic Energy Commission as a me	asure to reduce o he latter part of M	ffsite dos illstone U	es po	ost-LOCA. 7	he buildi	ng wa	S	
seismic. They considered it a reportable seismic and made seismic design impro Building design basis. Although the buil seismic. After a seismic event (SSE), it v Filtration Region. The sheet metal siding condition, however is within the plant's o LOCA mitigation post SSE. Justification	e situation. The new wements. Finally, Iding was seismic will not maintain no g may be damage priginal licensing b for clearly separa ction 3.9 for the N	ext year the in 1979 value designed and so basis. The tring the S $P - 2$ operations of the tring the S $P - 2$ operations of the tring the S $P - 2$ operations of the tring the S $P - 2$ operations of the tring	hey re we cle ned, ressu me p erefor SSE e arating	ealized more early defined many of its p ure in the Enc enetrations n re, EBFS may event and LO g license and	penetration the Enclose enetration losure But nay fail. The continued CA mitigation the NRC	ons we osure ns are uilding <i>This</i> operab	ere n not le foi the	ot
A review of NRC Questions and Answers operating license process in 1973-1974	s applicable to the t clearly states ou	CEBPS r position	and E 1:	Enclosure Bu	ilding dur	ing th	e pla	nt
Qstn 5.39								
"assess through line leakage from	n the containment	which m	ay by	pass the End	closure B	uilding]. "	
Answer								
NNECO stated the following assum	ptions to postulat	e the sce	nario	s:				
 There is either a seismic occur seismic occurrence and all no 			lines	are broken,	or there i	s not a	a	
 The single failure criterion apprendiction 	olies only to seism	nic class l	com	ponents.				

a.

(5-92			ESTIMATED B COLLECTION BURDEN EST BRANCH (M WASHINGTOM PROJECT (S	IURD REC IMAT INBE I. DC 3150-	EN PER RESPONSE QUEST 50.0 HRS DE TO THE INFORM. 17714). U.S. NUC 2 20555-0001 AND -0104). OFFICE	5/31/95 TO COMPLY W FORWARD CO ATION AND RE LEAR REGUL TO THE PA	TH THIS DMMENT CORDS ATORY PERWOR	S REGA VANAGI COMMI (REDU	ARDIN IEMEN ISSION UCTION	
FACILITY	NAME (1)	DOCKET NUMBER (2)			LER NUMBER (6)		PA	PAGE (3)		
			YE.	AR	SEQUENTIAL NUMBER	REVISION NUMBER				
	Millstone Nuclear Power Station Unit 2	05000336	9)4	- 040 -	02	06	OF	09	
TEXT	fmore space is required, use additional copies of NRC Form 366A) (17)	a la cancia da cancia		and should						
	Qstn 6.17									
	" specify containment isolation va assuming either 2AC-08 or 03 fail t	ERN I ERN I ERN I ESTIMATED BURGEN PER RESORTS TO COMPY WITH TH COLLECTON HEDLEST BOD HES FORMARD COMME PROJECT SIDE STATUS DURGEN PER RESOLUTION I ENAMBLE 714, U.S. NUCLEAR REGULTION I PARENTON. OCCUSS-001, MAN TO THE PARENTON I DECOMPTING USE STATUS NOT THE PARENTON I DECOMPTING USES STATUS NOT THE PARENTON TO THE PARENTON I DECOMPTING USES STATUS NOT THE PARENTON TO THE PARENTON USES STATUS PARENTON USES STATUS PARENT (EBFAS) IS functionally identical to the I DECOMPTING USES STATUS PARENTON USES TO THE PARENTON TO THE PARENTON USES STATUS PARENT USES THE DECOMPTING USES STATUS PARENT (EBFAS) IS functionally identical to THE I PARENTON USES THE DECOMPTING USES TO THE PARENTON USES TO THE PARENT USES TO THE PARENT USES TO THE PA	limits ding).	nits ng)."						
	Answer		EXPIRES: 5/31.95 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH HIS MECRANA BURDEN ESTIMATE TO THE INFORMATION AD RECORDAS NAMAGEMENT BURDEN ESTIMATE TO THE INFORMATION AD RECORDAS NAMAGEMENT BURDEN ESTIMATE TO THE INFORMATION AD RECORDAS NAMAGEMENT MARHINGTON DO 2005-2001 AND TO THE PAPERION REDUCT MARHINGTON DO 2005-2001 AND TO THE PAPERION REDUCT MARHINGTON DO 2005-2001 AND TO THE PAPERION REDUCT MARHINGTON DO 2005-201 AND TO THE PAPERION REDUCT PARE (3) CRET NUMBER (4) 2AC - 06 and 07 Technical Specification leakage limits been (to vent leakage gasses to the Enclosure Building)." asst the containment isolation valves of 4.8 softh, and expressed asst the containment isolation valves of 4.8 softh, and expressed asst the containment isolation valves of 4.8 softh, and expressed asst the containment isolation valves of 4.8 softh, and expressed asst the containment isolation valves of 0.8 to close.". The assessment is 2AC - 03 or 08 "in the closed position". Inward following a LOCA including failure of AC - 01 or 11." A 2 EBFS fans running, that flow would still be into the and amper. Then they stated that this was more conservative IP-2, dated May 10, 1974 came up with the following section: the proposed design and predicted performance of the EBFS ets the intent of the GDC 41, 42, 43, and 64." Actuation System tuation system (EBFAS) is functionally identical to the Calvert actuation of the GDC 41, 42, 43, and 64." Actuation system (EBFAS) is functionally identical to the Calvert actuation of the GDC 41, 42, 43, and 64." Actuation sy							
	that this wasn't a concern since it was analysis. Then the stated, "Howeve the Enclosure Building Filtration Rec	as less than 0.1% r, damper leakage gion even with the	of that ass e (2AC-06 failure of	sun S or dar	ned for off site 07) is consid mpers 2AC	e bounda dered to b 03 or 08 to	ry dos e rele o clos	e ased e.".	to	
	Qstn 6.15.4					HRS FORWARD COMMENTS REGA FORMATION AND RECORDS MANAGE NUCLEAR RECORDS MANAGE NUCLEAR REQUATORY COMMENT 1 AND TO THE PAPERWORK REDU ICE OF AL REVISION R NUMBER 02 06 OF AL REVISION R 02 06 OF AL REVISION R 02 06 OF AL AL REVISION AL SCO AL				
	"demonstrate flow in purge lines wil	I be inward follow	ing a LOC	A ir	ncluding failu	re of AC-	01 or	11."		
	Answer									
	NNECO calculated for AC-01, that Enclosure Building through the 48" that the 2AC-11 scenario.	with 2 EBFS fans open damper. Th	running, th nen they st	hat	flow would s ad that this wa	till be into as more c	the onsen	ative	Ð	
	Review of the NRCs Safety Evaluation for which contribute to our licensing basis:	or MP-2, dated N	/lay 10, 19	74	came up with	the follow	ving s	ectio	ns	
	Section 6-20 "Based on our review we have concluded that the system	v of the proposed meets the intent of	design an of the GDC	d p 3 41	predicted per 1, 42, 43, and	ormance 64."	of the	EBF	S,	
	Section 7.3 "Engineered Safety Fea	ture Actuation Sys	stem							
	Cliffs system, except for two addition actuation channel, which is actuated actuation channel, which is actuated actuation from the main control boa	nal actuation char d automatically by d by high radiation rd. The applicant ance with IEEE-2	nnels: (1) i v a safety in n in the fue is have doo 79. We ha	an njeo el h cur ive	enclosure bu ction actuatio andling area nented that the evaluated the	ilding filtra n signal c or by mar his system	ation or by nual n is de	signe	ed	
	Section 7.4 "Bypass Status of ESF s	systems								
	addition to the position indicating lig equipment item, which is automatic	ghts for valves, pu ally initiated to sat ocated on the safe	imps, fans tisfy safety ity status p	an fur	d dampers, enctions, is pro	ach safet	y relat a whi	ed te an	id	
	power to control circuit is lost for an	y reason includin	g a blown	fus	e, tripped or	racked ou	it circu	lit		
	therefore, all blue lights in safety fur	nction group shou ne operator if any	Id be lit wh	her	the safety ad	tuation si	gnal e	xists	і. Ю	

NRO Form (5–92)		U.S. NUCLEAR REGULA		COLLECT BURDEN BRANCH WASHING	ED BURD ION RE ESTIMAT (MNBB STON, D (3150	ROVED BY OME EXPIRES EN PER RESPONSE 20EST 50.0 HRS TO THE INFORMA 7714). U.S. NUCL C 20555-0001. AND -0104). OFFICE C 20503.	5/31/95 TO COMPLY W FORWARD CI TION AND RE EAR REGUL TO THE PA	TTH THIS OMMENTS CORDS M ATORY PERWORK	REGARI MANAGEN COMMISS REDUC	DIN MEN SION
FACILITY NAM	HE (1)		DOCKET NUMBER (2)	L		LER NUMBER (6)		PAC	E (3)	
					YEAR	SEQUENTIAL	REVISION			and the second
	lillsto Init 2	one Nuclear Power Station	05000336		94	- 040 -	02	07	OF	05
TEXT (# mo	The proc	e is required, use additional copies of NRC Form 366A) (17) PRA group was asked to evaluate th duced, "The Single Failures of EBFS A concludes the following:	he safety significar	nce of th on Pub	ne sin lic Sa	gle failure defi fety".	ciencies.	They		
	*	The public safety impact associat determination, when averted pers life.	ted with these sing con-REM is used,	le failur shows	es is r a ben	negligible. Th efit of \$60 ove	e benefit or the rem	aining	plant	t
	*	Due to the significance of maintal recommend "Negligible Risk Sign recommend compensatory action	nificance" as a bas	is to not	t perfe	for design bas orm modificati	is events ons here	, we . They	/	
		AC-11Trip main exha	ust fans or shut 24	AC-8 b	oth fro	orn the control	room.			
		AC-01Manually start	EBFS fan 25A fron	n contro	ol roor	n.				
	vent whe 600	itionally, the single failure scenarios tilating the Enclosure Building. This on the Enclose Building gets too hot hours. This is 6.8% of the year. The uced to 6.8% of the assumed 6.0E-0 4.	is an infrequent pl for comfort. 1994 refore if the PRA c	ant ope the Enc alculatio	losur on has	and is only p e Building was s the Core Da	erformed s only ver mage Fre	i at por ntilated squenc	wer, d for y	
		educe the risk of the single failures r be expected without procedure cha		nificant	comp	lication, there	are othe	r actio	ns tha	it
	 If main exhaust is still running enough time after the LOCA when containment leakage is highly radioactive; the discharge will go to the MP-2 stack. There rad monitor elements and control aiarms from instrument loop 8132 will tell the operators of the unfiltered release condition and will secure main exhaust fans. 								I room	
	•	If AC-11 sticks open, post LOCA Building, the supply will quickly d 13,900 cfm until vacuum results in the Enclosure Building Filtration F capabilities of the EBFS fans will demands satisfied by other source	windle to negligib n the Enclosure Bu Region will allow o remove most of th	le amou uilding. nly abou is leaka	At this at this at 250 ge. N	s the EBFS far s point, the de 0 cfm. The gi lain exhaust fa	ns will sta sign in – reater su ans have	rt to p leakag ction suctio	ull je into	2
	Also, indication of dampers AC $-1 \& 11$ position and EBFS fans A & B status is shown on control board C01X "Safety Status Panel". The operators will have the indication of the postulated 'wrong' accident positions, although we're not taking credit here for any immediate actions on them.									
	and	ssessing how original design could 11; it becomes apparent that it was luation of integrated plant systems re	n't so large an ove	ersight b	out mo					
	Rea	sons that come up to address why /	AC-1 and 11 were	en't fully	singl	e failure proof	designs	are:		
	•	The single failures postulated for Enclosure Building. The original	AC-1 and 11 are	only po	ssible	when the pla	nt is vent	ilating	the	

infrequently performed evolution and thus not necessary for single failure design philosophy.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION			APPROVED BY OMB NO. 3150-0104 EXPIRES: 5/31/95 LESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORM COLLECTION REQUEST 500 HRS. FORWARD COMMENTS REGAR BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGE BRANCH (MNBB 7714). U.S. NUCLEAR REGULATORY COMMIS WASHINGTON DC 20655-0001 AND TO THE PAPERWORK REDU PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BU WASHINGTON, DC 20563.								
FACILITY NAME (1)		DOCKET NUMBER (2)	A	LER NUMBER (6)		PAG	E (3)				
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			still an infre	quent operatio	on as seer	n by las	st				
	This alone reduces the vulneral	bility to these sing	le failure occ	urrences by a	factor of	ten.					
	7 would vent to the Enclo the ducting is about 100' exit and is low pressure.	osure Building upo ' in length betweer SMACNA, non se	on a AC-8 fa n the Contair ismic ducting	ilure to close. ment and the g. This type d	This is re Enclosur ucting nor	e Build mally	ible a ling	as			
	 Containment isolation valve leakage was estimated to be a very low of overall offsite dose leakage. 										
	much more conservative	failure of one enti	re ESAS cab	inet, resulting	e. We are in AC-1	ə assuı remair	ming hing	а			
that	operators will accomplish the reason	one of the two sin nable steps requir	ngle failures o ed from their	lescribed abo indications a	ve, it can nd existin	be exp g	ecte	d			
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