ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9	107020387 DOC.DATE: 91/06/28 NOTARIZED: NO	DOCKET #
FACIL:50-263 M	onticello Nuclear Generating Plant, Northern States	05000263
AUTH.NAME	AUTHOR AFFILIATION	
SCOTT, D.	Northern States Power Co.	
PARKER, T.M.	Northern States Power Co.	_
RECIP.NAME	RECIPIENT AFFILIATION	R
		T

SUBJECT: LER 91-009-01:on 910427, secondary containment isolation damper solenoids & SGTS cables did not meet requirements. Caused by inadequate controls.Secondary containment isolation dampers rerouted.W/910628 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR / ENCL / SIZE: 8 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:NRR/LONG,W.

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INTERNAL:	ACNW	2	2	AEOD/DOA	1	1	
	AEOD/DSP/TPAB	1	1	AEOD/ROAB/DSP	2	2	
	NRR/DET/ECMB 9H	1	1	NRR/DET/EMEB 7E	1	1	
	NRR/DLPQ/LHFB10	1	1	NRR/DLPQ/LPEB10	1	1	
	NRR/DOEA/OEAB	1	1	NRR/DREP/PRPB11	2	2	
	NRR/DST/SELB 8D	1	1	NRR/DST/SICB8H3	1	1	
	NRR/DST/SPLB8D1	1	1	NRR/DST/SRXB 8E	1	1	
	REG FILE 02	1	1	RES/DSIR/EIB	.1	1	
	RGN3 FILE 01	1	1	, .			
EXTERNAL:	EG&G BRYCE, J.H	3	3	L ST LOBBY WARD	1	1	_
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Northern States Power Company

414 Nicollet Mall Minneapolis, Minnesota 55401-1927 Telephone (612) 330-5500

June 28, 1991

Report Required by 10 CFR Part 50. Section 50.73

U.S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555

> MONTICELLO NUCLEAR GENERATING PLANT Docket No. 50-263 License No. DPR-22

Inadequate Control of Construction Activities Causes Failure to Meet Cable Separation Requirements

The Supplemental Licensee Event Report for this occurrence is attached.

This event was originally reported via the Emergency Notification System in accordance with 10 CFR Part 50, Section 50.72 on April 27, 1991.

IECon fra Thomas M Parker

Thomas M Parker¹ Manager Nuclear Support Services

c: Regional Administrator - III NRC Sr Resident Inspector, NRC NRR Project Manager, NRC MPCA Attn: Dr J W Ferman

Attachment





NRC E	IBM 365																				_		
(6-39)	••••						•	U. <u>S.</u> N	UCLEAR H	ECOLATO.	RY COMMI	NOIZZ			Аррі	ROVE	0 0	B NO	3150-0	104			
	LICENSEE EVENT REPORT (LER) LICENSEE EVENT REPORT (LER) AND REPORTS MANAGEMENT BRANCH (F-530), WAS, FORWARD COMMENTS REAGADING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (F-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 10555, AND TO THE PAPERWORK REDUCTION PROJECT (D150-901-4), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.																						
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NRC FORM 366A (6-89). LICENSEE EVENT REPORT TEXT CONTINUATION	APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 50.0 MRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P.530). U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.				
FACILITY NAME (1)	OOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)		
Monticello Nuclear Generating Plant	0 5 0 0 0 2 6 3	YEAR SEQUENTIAL REVISION • • • • 9 1 • 0 0 9 • 0 1	0 2 0 F 0 7		
TEXT (If more spece is required, use additional NRC Form 305A's) (17)					
DESCRIPTION:					

On 4/27/91, with the plant in cold shutdown, during cable (EIIS Component Code: CBL3) replacement for Environmental Qualification maintenance, engineering personnel determined that the cables for one pair of solenoids (EIIS Component Code: SOL) for Secondary Containment (EIIS System Code: NG) Isolation Dampers (EIIS Component Code: DMP), V-D-25 & V-D-26, were routed in a common cable tray (EIIS Component Code: TY) for approximately 10 feet. This violated the separation requirements stated on controlled drawings and is therefore reportable as a condition being outside design basis of the plant.

The remaining Secondary Containment isolation damper solenoid cable routings were reviewed. This revealed an additional problem of lack of divisional separation for the solenoid valves for Secondary Containment Isolation Dampers V-D-9 & V-D-10, which were routed through a common junction box (EIIS Component Code: JBX) near the solenoid valves.

As a result of these findings, all cable routings for the Secondary Containment System including the Standby Gas Treatment System (EIIS System Code: BH) were reviewed and inspected. Three more instances of lack of separation were found in the Standby Gas Treatment System.

The wiring for two sets of position indications for AO-2982, Primary Containment Exhaust to Main Exhaust Plenum Room Secondary Containment Isolation Valve (EIIS Component Code: ISV), were routed through a common flexible conduit (EIIS Component Code: CND) between divisional junction boxes.

Control power circuits for the Standby Gas Treatment System Room Heaters (EIIS Component Code: EHTR), E-34A-2 and E-34B-2, were routed through a common conduit between panels (EIIS Component Code: PL) C87A and C87B and routed between the panels and the wall mounted thermostat (EIIS Component Code: TH) for the Room Heater, E-34A-2.

Cables for the Off-Gas Dilution Fan (EIIS Component Code: FAN) Low Flow switches (EIIS Component Code: FS), PS-8000-J15 and PS-8000-J16, were found to be routed through a common conduit from the Off-Gas Stack to the Cable Spreading Room. A modification was prepared with the intent of correcting this condition but, due to communication errors, the modification was performed on cables leading to a second set of switches (FS-8000-J11 & FS-8000-J12) located in close proximity to PS-8000-J15 and PS-8000-J16. Modification of the FS-8000-J11 and FS-8000-J12 cables was unnecessary since separation requirements were already satisfied. This error was subsequently discovered by plant engineering personnel on 6/10/91.

NRC FORM 3664 U.S. N (6-89)	UCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150 EXPIRES: 4/30/92	0-0104		
LICENSEE EVENT REPORT (I TEXT CONTINUATION	ESTIMATEO BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS, FORWARO COMMENTS REGARDING BURDEN ESTIMATE TO THE RECOROS AND REPORTS MANAGEMENT BRANCH (#5301, U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, ANO TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT ANO BUDGET, WASHINGTON, DC 20503.				
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)		
		YEAR SEQUENTIAL REVISION	· · ·		
Monticello Nuclear Generating Plant	0 5 0 0 0 2 6 3		013 010 17		
TEXT (H more space is required, use additional NAC Form 3854'47(17) The review of cable separation systems: Reactor Protection Sy Cooling System (EIIS System Code System (EIIS System Code: JM). following components were not Primary Containment Isol SV-4081 Post Accid SV-4082 Post Accid SV-4082 Post Accid SV-3307 Drywell 02 SV-3311 Torus 02 A SV-3312 Torus 02 A SV-3313 02 Analyze	a was extended to in (EIIS System (ode: JE), and Primar It was determined separated as requir (ation System: lent Sampling Inboar lent Sampling Outboard Analyzer Outboard I analyzer Inboard Is analyzer Inboard Is analyzer Inboard Is analyzer Inboard Is analyzer Inboard Is analyzer Inboard Is analyzer Inboard Is	nclude other Safety Re Code: JC), Emergency C cy Containment Isolati d that cables for the red: and Isolation Valve Isolation Valve Solation Valve Solation Valve	lated ore on		
SV-3267 Torus N2 P SV-3268 Drywell N2 SV-3269 Containmen Source Range Monitors	Purge Supply Valve Purge Supply Valve It N2 Purge Supply V	alve			
MO-2029 Residual Heat Re	emoval Shutdown Cool	ing Suction Isolation	Valve		
<u>CAUSE:</u>					
The root cause of this conditi and verification activities we schedules indicated the proper during the cable installations	on was that origina re inadequate. Dra routing. However,	al construction instal awings and cable routi this was not always	lation ng met		
A contributing cause to the Of separation was personnel error needing modification was impre groups involved.	fgas Dilution Fan I in that the identi cisely communicated	Low Flow switch lack o fication of the cable d between the engineer	f s ing		
ANALYSIS:					
1. Lack of Secondary Contai	nment isolation cab	le separation:			
The "as-built" configura inoperability of both se since the damper control schemes are deenergized	tion could not have ts of Secondary Cor s were "fail safe" by separated relays	e resulted in the ntainment Isolation Da in that configuration s within Control Room	mpers . Both panels.		

NRC FORM 366A	U.S. 1	NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150-0104
(6-49)	LICENSEE EVENT REPORT (TEXT CONTINUATION	(LER)	EXTINCT HOUSE INCOMENTATION FOR THE STIMATED BURGEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGAROING BURGEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-510), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUGGET, WASHINGTON, OC 20503.
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (8) PAGE (3)
			YEAR SEQUENTIAL REVISION NUMBER
Monticello 1	Nuclear Generating Plant	0 5 0 0 0 2 63	91-009-01040F07
TEXT (If more spece is required	The only conceivable adampers to be inoperab	ccident scenario that	at could cause both sets of
	Monticello's licensing considered. The probat cable tray is very low separated prior to hand	basis does not requ bility of a "hot sho . To comply with de dling fuel or resta:	aire that "hot shorts" be bort" between cables in the esign basis the cables were rting the Reactor.
2.	Lack of Standby Gas Tre	eatment System Room	Heater cable separation:
	This configuration was either Standby Gas Trea circuits had fuses and power and Filter Heater Train. Also, each Room Standby Gas Treatment S signal. Failure of the section of conduit and Treatment System Trains System Train is operati	evaluated as not af itment System Train, breakers which were power for each Stan Heater is deenergi System is operating e deenergized heaten thermostat could no s to be inoperable v ing.	Efecting the operability of , since the Room Heater = independent from the control andby Gas Treatment System ized when its respective due to an automatic initiation r control circuit in the common ot cause both Standby Gas when one Standby Gas Treatment
	However, a failure with while both Standby Gas Automatic/Standby mode, A third Room Heater, E- Gas Treatment System B Heating and Ventilation immediate area around e Standby Gas Treatment S once per shift by the C Treatment System Train Therefore, the probabil Heaters is low.	nin the conduit or t Treatment System Tr could cause both F 34B-3 provides supp Train only. Also, provides heated for each Standby Gas Tre System Train tempera Operations staff to is greater or equal lity of an undetecte	the thermostat junction box cains are in the Room Heaters to be inoperable. Dementary heating of Standby normal Reactor Building Dreed draft air to the eatment System Train. The atures are monitored locally verify that each Standby Gas to 72 degrees Fahrenheit. ed failure of both Room
3.	Lack of AO-2982 wire se	eparation:	
	The safety function of initiation. The valve only opened during oper Containment is being in this valve during this	this valve is to cl is normally closed ation for only shor werted or purged. I period is extremely	ose upon Standby Gas Treatment in a deenergized state and is t periods while Primary The likelihood of failure of small.
I			

NRC FORM 365A (6-89)	U.S. 1	NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 315 EXPIRES: 4/30/92	.0-0104		
	LICENSEE EVENT REPORT (TEXT CONTINUATION	LER)	ESTIMATED BURDEN PER RESPONSE T INFORMATION COLLECTION REQUEST COMMENTS REGARDING BURDEN ESTIM AND REPORTS MANAGEMENT BRANCH REGULATORY COMMISSION, WASHINGT THE PAPERWORK REDUCTION PROJEC OF MANAGEMENT AND BUOGET, WASHI	0 COMPLY WTH THIS 50.0 HRS. FORWARD IATE TO THE RECORDS (P-530), U.S. NUCLEAR ON, DC 20555, ANO TO T. 13150-01041, OFFICE NGTON, DC 20503.		
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)		
			YEAR SEQUENTIAL REVISION			
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Monticello N	uclear Generating Flant					
	When the lask of constant	tion was discovered	the value was block	d in its		
	fail-safe position to as refueling. Later, when required, the cables wer	ssure Secondary Cont Secondary Containme re rerouted to compl	ainment integrity dur nt integrity was not y with design basis.	ing		
. 4.	Lack of Off-Gas Low Flow	Alarm cable separa	tion:			
	The cables for Off-Gas Dilution Fan Low Flow switches, PS-8000-J15 and PS-8000-J16, provide a low flow control signal to start the associated standby Offgas Dilution Fan, either V-EF-81A or V-EF-18B. The configuration created conditions which could have lead to simultaneous grounding of both normally energized cables. These faults could then result in the blowing of the control power fuses to both Offgas Dilution Fans, which are required for Standby Gas Treatment System operability. However, recent testing has shown that substantial vacuum could still be maintained by running the remaining fans. Also, the physical layout of the raceways in question was such that incidental damage to the conduits or junction boxes was unlikely and damage to the cables was very improbable.					
	The actions taken to mod 8000-J11 and FS-8000-J12	lify cables to the s 2) did not adversely	econd set of switches affect that circuit.	(FS-		
5.	Primary Containment Iso]	ation System cable	separation:			
	Two raceway locations we Isolation cables that di location involved cables location involved cables SV-3313, SV-3314, SV-408	ere identified as ha d not meet the sepa for SV-3267, SV-32 for SV-3307, SV-33 81, and SV-4082.	ving Primary Containm ration requirements. 68, and SV-3269. The 08, SV-3311, SV-3312,	ent One other		
	Each of these circuits w Each combination of thes licensing basis for sing	vere designed to fai se cables was analyz gle failure criteria	l-safe upon loss of p ed and found to meet 	ower.		
6.	Source Range Monitors					
	Cables from the Source F separation requirements spreading room.	lange Monitors were through two junctio	found not to meet the n boxes in the cable			

NRC FORM 365A (6-89)	U.S. N	UCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 315 EXPIRES: 4/30/92	0-0104	
	LICENSEE EVENT REPORT (TEXT CONTINUATION	ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH TH INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWAR COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORI AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEJ REGULATORY COMMISSION, WASHINGTON, DC 20555, AND ' THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFI OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.			
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
			YEAR SEQUENTIAL REVISION NUMBER		
				01605 017	
Monticello	Nuclear Generating Plant	0 5 0 0 0 2 0 3			
TEXT (If more space is requir	The Source Range Monitors Protection System in the required by Technical Spe effect a scram if the sho noncoincident logic, and routing they could still defeat the Reactor Protec System. MO-2029 Residual Heat Rem Cables from MO-2029 posit automatic isolation logic providing input to automa MO-2015 are the A & B Res Application of single fai the lack of separation wa containment isolation fur	are not`called out Updated Safety Anal ecifications. The S orting links are rem assuming single fai effect a scram. Fa tion System or the noval Shutdown Cooli tion indicating switt for MO-2014 were resting isolation logic sidual Heat Removal lure criteria to the sont safety signifuction could not be	as an input to the R ysis Report and are n ource Range Monitors oved. This puts them lure criteria with ex ailure of cables would Reactor Manual Contro ang Suction Isolation thes providing input ot separated from cab of MO-2015. MO-201 Injection Valves. mese cables determined ficant in that the disabled by the failu	to less that that tre.	
<u>CORRE</u>	CCTIVE ACTIONS:	Takan :			
Summe	ing of corrective Actions 1	unell,			
1.	Secondary Containment iso establish required separa	olation damper soler ation.	noid cables were rerou	ted to	
2.	AO-2982 position indicati separation.	on wiring was modif	ied to establish requ	ired	
3.	Offgas Low Flow Alarm cir isolation of the Low Flow circuits.	cuits were modified Switches from the	l to provide electrica Offgas Dilution Fan c	l fault ontrol	
4.	One Offgas Low Flow Contr eliminate all possibility Dilution Fans becoming in procedures were revised t the circuit is deenergize	ol circuit was deen of a single active operable. The Offg o assure system ope ed.	ergized and disconnec failure causing both as Dilution Fan opera rability is maintaine	ted to Offgas ting d while	

NRC FORM 366A	U.S. NUC	LEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150-	0104			
	LICENSEE EVENT REPORT (LE TEXT CONTINUATION	R)	EXTINATED BURGEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 500 HPS. FORMARD COMMENTS REGARDING BURGENESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530). U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0)04). OFFICE OF MANAGEMENT AND BUOGET, WASHINGTON, DC 20503.				
FACILITY NAME (1)	DO	CKET NUMBER (2)	LER NUMBER (6)	PAGE (3)			
Ne . e 11	N 1 Our plant		YEAR SEQUENTIAL REVISION NUMBER				
MONTICEIIO	Nuclear Generating Plant						
5	Remaining Secondary Conta	inment and Standby	, Cas Treatmont System	ashla			
5.	separation requirements we problems were identified.	ere field verified	d. No additional sepa	ration			
6.	Investigations were perfo Reactor Protection System Primary Containment Isola	rmed to field veri , the Emergency Co tion System.	ify cable separation of ore Cooling System, and	f the d the			
7.	Corrective actions taken we conducted	were reverified by d on the appropria	y engineering personne ate electrical circuit	l to s.			
Sum	ary of Corrective Actions to	o be Taken:					
1.	The drawing for the Source delete the note indicating	e Range Monitor ca g that mandatory s	ables will be changed separation is required	to			
2.	The following circuits will prior to or during the 199	ll be modified to 93 Refueling Outag	provide cable separat: ge:	ion			
	a. Standby Gas Treatment b. Offgas Dilution Fan 1	t System Room Heat Low Flow Control c	cer cables				
	c. SV-3267, SV-3268, and	d SV-3269 cables					
	d. SV-3307, SV-3308, SV- SV-4082 cables	-3311, SV-3312, SV	7-3313, SV-3314, SV-408	81, and			
	e. MO-2029 position ind	icating switch cab	oles				
3.	Cables through the Cable S separation requirement by Refueling Outage.	Spreading Room wil tracing a sample	l be verified for meet of the cables during t	ting the 1993			
<u>ADD1</u>	TIONAL INFORMATION:						
1.	Failed Component Identificat	tion: NONE					
2.	Previous Similar Events:	NONE					