Power Reactor Event # 46165

Site: COOPER		**Notification Date / Time:** 08/10/2010	13:43 (EDT)
Unit: 1 **Region:** 4 **State :** NE		**Event Date / Time:** 08/09/2010	12:30 (CDT)
Reactor Type: [1] GE-4		**Last Modification:** 08/10/2010	
Containment Type: MARK I			
NRC Notified by: DAVID NELSON MADSEN		**Notifications:** NEIL OKEEFE	R4DO
HQ Ops Officer: MARK ABRAMOVITZ		PART 21 GROUP	
Emergency Class: NON EMERGENCY			
10 CFR Section:			
21.21	UNSPECIFIED PARAGRAPH		

Unit	Scram Code	RX Crit	Init Power	Initial RX Mode	Curr Power	Current RX Mode
1	N	Yes	100	Power Operation	100	Power Operation

4160 VAC CONTROL AND TRANSFER BREAKER SWITCH DEFECT

"On August 9, 2010 at 12:30 CDT, Nebraska Public Power District (NPPD) completed a reportability determination which concluded that certain General Electric - Hitachi (GEH) Type SB-1 Control and Transfer Switches, contained a defect that would have prevented the remote and/or automatic opening and closing of safety related 4160 VAC breakers at Cooper Nuclear Station (CNS), had the switches been installed as received. NPPD has concluded this condition is reportable per 10 CFR Part 21.

"Specifically, GEH supplied 23 Type SB-1 Control and Transfer Switches under GEH part number Q16SB1EB4G75SSS1C142 to CNS. 14 of the 23 switches exhibited a failure to maintain the established contact logic when implementing the logic feature of these switches. This condition was discovered during pre-installation testing in support of a station modification of 4160 VAC breaker control. The defect would have prevented the remote and/or automatic opening and closing of the essential affected 4160 VAC breakers. This would have prevented the transfer of the essential 4160 VAC switchgear from the normal station service transformer to either source of offsite power or the emergency diesel generators and the sequential loading of emergency core cooling system pumps in response to a design basis accident LOCA.

"All of the switches have been returned to GEH, and none were installed in the station. Therefore, the condition is not reportable under 10 CFR 50.72 or 50.73. These switches were designed and supplied by GEH as a safety related part, specifically for CNS. NPPD is unaware as to if this specific switch design has been supplied to any other licensee. The condition is being reported under 10 CFR 21.21(d)(3)(i). The Responsible [NPPD] Corporate Officer has been notified of this condition per 10 CFR 21.21(d)(3)(i) on August 9, 2010 at 15:45 CDT- Pursuant to 10 CFR 21.21(d)(3)(ii) written notification is due to the NRC within 30 days of this notification."

The licensee will notify the NRC Resident Inspector.

IE19
NRR

NRC FORM 361
(12-2000)

U.S. NUCLEAR REGULATORY COMMISSION
OPERATIONS CENTER

REACTOR PLANT EVENT NOTIFICATION WORKSHEET

EN #

NRC OPERATION TELEPHONE NUMBER: PRIMARY – 301-816-5100 OR 800-532-3469*, BACKUPS – (1ST) 301-951-0550 OR 800-449-3694* (2ND) 301-415-0550 AND (3RD) 301-415-0553 *Licensees who maintain their own ETS are provided these telephone numbers.

NOTIFICATION TIME	FACILITY OR ORGANIZATION	UNIT	NAME OF CALLER	CALL BACK #
	Cooper Nuclear Station	1	David Nelson Madsen Steven Gocek	402-825-5817

EVENT TIME & ZONE	EVENT DATE	POWER / MODE BEFORE	POWER / MODE AFTER
12:30 CDT	08/09/2010	100% / Mode 1	100% / Mode 1

EVENT CLASSIFICATIONS			1-Hr. Non-Emergency 10 CFR 50.72(b)(1)					
	GENERAL EMERGENCY	GEN/AAEC		TS Deviation	ADEV		(v)(A) Safe S/D Capability	AINA
	SITE AREA EMERGENCY	SIT/AAEC	4-Hr. Non-Emergency 10 CFR 50.72(b)(2)				(v)(B) RHR Capability	AINB
	ALERT	ALE/AAEC		(i) TS Required S/D	ASHU		(v)(C) Control of Rad Release	AINC
	UNUSUAL EVENT	UNU/AAEC		(iv)(A) ECCS Discharge to RCS	ACCS		(v)(D) Accident Mitigation	AIND
	50.72 NON-EMERGENCY	(see next column)		(iv)(B) RPS Actuation (actual)	ARPS		(xiii) Offsite Medical	AMED
	PHYSICAL SECURITY (73.71)	DDDD		(xi) Offsite Notification	APRE		(xiii) Loss Comm/Asmt/Resp	ACOM
	MATERIAL/EXPOSURE	E???	8-Hr. Non-Emergency 10 CFR 50.72(b)(3)			60-Day Optional 10 CFR 50.73(a)(1)		
	FITNESS FOR DUTY	HFIT		(ii)(A) Degraded Condition	ADEG		Invalid Specified System Actuation	AINV
	OTHER UNSPECIFIED REQMT	(see last column)		(ii)(B) Unanalyzed Condition	AUNA	Other Unspecified Requirement (Identify)		
	INFORMATION ONLY	NINF		(iv)(A) Specified System Actuation	AESF	X	21.21(d)(3)(i)	NONR
								NONR

DESCRIPTION

Include: Systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc (Continue on back)

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NOTIFICATIONS	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	☐ YES (explain above)	☒ NO
NRC RESIDENT			X			
STATE(s)		X		DID ALL SYSTEMS FUNCTION AS REQUIRED?	☒ YES - None Required	☐ NO (explain above)
LOCAL		X				
OTHER GOV AGENCIES		X		MODE OF OPERATION UNTIL CORRECTED: 1	ESTIMATED RESTART DATE: N/A	ADDITIONAL INFO ON BACK? ☐ YES ☒ NO
MEDIA/PRESS RELEASE		X				