Dominion Energy Kewaunee, Inc.
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OCT 16 2006

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

Serial No. 06-896
KPS/LIC/RS: RO
Docket No. 50-305
License No. DPR-43

DOMINION ENERGY KEWAUNEE, INC.
KEWAUNEE POWER STATION
LICENSEE EVENT REPORT 2006-009-00

Dear Sirs:

Pursuant to 10 CFR 50.73, Dominion Energy Kewaunee, Inc., hereby submits the following Licensee Event Report applicable to Kewaunee Power Station.

Report No. 50-305/2006-009-00

This report has been reviewed by the Plant Operating Review Committee and will be forwarded to the Management Safety Review Committee for its review.

If you have any further questions, please contact Mr. Richard Sattler at (920) 388-8121.

Very truly yours,

Leslie N. Hartz
Site Vice President, Kewaunee Power Station

Attachment

Commitments made by this letter: NONE

IE22

cc: Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

Mr. D. H. Jaffe
Project Manager
U.S. Nuclear Regulatory Commission
Mail Stop O-7-D-1
Washington, D. C. 20555

NRC Senior Resident Inspector
Kewaunee Power Station

NRC FORM 366 (6-2004) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104 EXPIRES 6-30-2007

Estimated burden per response to comply with this mandatory collection request: 50 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0066), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Kewaunee Power Station	05000305	1 of 4

TITLE (4)

Emergency Diesel Generator (EDG) Fuel Oil Leak

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MO	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO	MO	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
08	17	2006	2006	009	00	10	16	2006	FACILITY NAME	DOCKET NUMBER

OPERATING MODE (9)	N
POWER LEVEL (10)	100

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR : (Check all that apply) (11)

	20.2201(b)		20.2203(a)(3)(ii)		50.73(a)(2)(ii)(B)		50.73(a)(2)(ix)(A)
	20.2201(d)		20.2203(a)(4)		50.73(a)(2)(iii)		50.73(a)(2)(x)
	20.2203(a)(1)		50.36(c)(1)(i)(A)		50.73(a)(2)(iv)(A)		73.71(a)(4)
	20.2203(a)(2)(i)		50.36(c)(1)(ii)(A)		50.73(a)(2)(v)(A)		73.71(a)(5)
	20.2203(a)(2)(ii)		50.36(c)(2)	X	50.73(a)(2)(v)(B)		OTHER
	20.2203(a)(2)(iii)		50.46(a)(3)(ii)		50.73(a)(2)(v)(C)		Specify in Abstract below or in NRC Form 366A
	20.2203(a)(2)(iv)		50.73(a)(2)(i)(A)	X	50.73(a)(2)(v)(D)		
	20.2203(a)(2)(v)	X	50.73(a)(2)(i)(B)		50.73(a)(2)(vii)		
	20.2203(a)(2)(vi)		50.73(a)(2)(i)(C)		50.73(a)(2)(viii)(A)		
	20.2203(a)(3)(i)		50.73(a)(2)(ii)(A)		50.73(a)(2)(viii)(B)		

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER (Include Area Code)
Richard Sattler	(920) 388- 8121

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX

SUPPLEMENTAL REPORT EXPECTED (14)				EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
X	YES (If yes, complete EXPECTED SUBMISSION DATE).		NO		01	15	2007

ABSTRACT

At 17:35 on 8/17/06, after approximately 10 minutes of operation during a planned surveillance test on Emergency Diesel Generator (EDG) A, a previously identified minor fuel oil leak (approximately 1 drop/minute) increased and required an unplanned engine shutdown. The EDG had been declared inoperable at the start of the surveillance test and remained so following the leak. At its maximum, the leakrate was estimated at between 0.12 and 0.25 gpm.

By 05:53 on 8/18, the leak had been repaired, the surveillance test completed, and the EDG restored to OPERABLE status.

The fuel oil leak was initially identified on 6/28/06 at 16:48. Between 6/28 and 8/17, the EDG had been operated four times with a cumulative run time of approximately 3.1 hours.

The investigation is ongoing and the leak failure mechanism has not been determined. However, since the June leak increased after approximately 3.1 hours of engine operation, a conservative decision has been made to declare the EDG inoperable from 6/28/06 to 8/17/06.

EVENT DESCRIPTION

At 17:35 on 8/17/06, after approximately 10 minutes of operation during a planned surveillance test on EDG A [DG], a previously identified minor fuel oil leak increased and required an unplanned engine shutdown. The EDG had been declared inoperable at the start of the surveillance test and remained so following the leak. At its maximum, the leakrate was estimated at between 0.12 and 0.25 gpm. The leak did not atomize.

By 05:53 on 8/18, the leak had been repaired, the surveillance test completed, and the EDG restored to OPERABLE.

The fuel oil leak (approximately 1 drop/minute) was initially identified on a copper tubing Swagelock fitting (downstream of the engine-driven fuel oil pump [P] and the fuel priming pump), on 6/28/06 and a Work Order was written to repair it. Between 6/28 and 8/17, with the leak not repaired, the EDG had been operated four times with a cumulative run time of approximately 3.1 hours.

EVENT ANALYSIS

This event is being reported under § 50.73(a)(2)(v)(B) and (D) as a condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to remove residual heat and mitigate the consequences of an accident.

This event is also being reported under § 50.73(a)(2)(i)(B) as an operation which was prohibited by the plant's Technical Specifications.

The investigation is ongoing, the failure mode and exact flowrate of the leak have not yet been determined. Also, the leak rate is not known to have increased between 6/28/06 and 8/17/06. However, it is conservatively assumed that the 3.1 hours of cumulative engine operation caused the pre-existing minor leak to increase in size. Therefore, a decision has been made to declare the EDG inoperable from 6/28/06 until 8/17/06.

The following B Train safety equipment was also inoperable between 6/28/06 at 16:48 and 8/18/06 @ 05:53:

Equip	Inoperable	Operable	Duration (hrs)	Total (hrs)
EDG B	6/29/06 @ 9:27	6/30/06 @ 00:56	15.48	29.97
EDG B	7/27/06 @ 7:00	7/27/06 @ 15:49	8.82	
EDG B	8/13/06 @ 8:54	8/13/06 @ 14:34	5.67	
SW [BI] Train B	7/23/06 @ 12:30	7/23/06 @ 22:00	9.50	30.10
SW Train B	7/26/06 @ 13:27	7/27/06 @ 4:35	15.13	
SW Train B	8/9/06 @ 7:46	8/9/06 @ 11:49	4.05	
SW Train B	8/13/06 @ 8:55	8/13/06 @ 10:20	1.42	

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Kewaunee Power Station	**05000305**	**2006**	**-- 009 --**	**00**	3 of 4

TEXT *(If more space is required, use additional copies of NRC Form 366A)* **(17)**

Equip	Inoperable	Operable	Duration (hrs)	Total (hrs)
RHR [BP] Pmp B	7/13/06 @ 8:43	7/14/06 @ 12:41	27.97	32.52
RHR Pump B	7/12/06 @ 15:51	7/12/06 @ 16:33	0.70	
RHR Pump B	7/27/06 @ 13:35	7/27/06 @ 16:31	2.93	
RHR Train B	7/12/06 @ 14:54	7/12/06 @ 15:25	0.52	
RHR Train B	8/13/06 @ 13:12	8/13/06 @ 13:36	0.4	
ICS [BE] Pump B	7/12/06 @ 14:46	7/12/06 @ 15:37	0.85	0.85
SI [BQ] Pump B	7/14/06 @ 1:03	7/14/06 @ 1:19	0.27	1.67
SI Train B	8/10/06 @ 9:41	8/10/06 @ 11:05	1.4	
Chg [CB] Pump B	7/11/06 @ 7:04	7/11/06 @ 15:58	8.9	19.3
Chg Pump B	8/8/06 @ 7:09	8/8/06 @ 17:35	10.4	
CC [CC] Pump B	7/02/06 @ 10:15	7/02/06 @ 10:30	0.25	3.98
CC Pump B	7/28/06 @ 23:40	7/28/06 @ 23:45	0.08	
CC Train B	7/30/06 @ 21:39	7/30/06 @ 23:30	1.85	
CC Train B	8/13/06 @ 12:04	8/13/06 @ 12:10	0.10	
CC Train B	8/13/06 @ 10:21	8/13/06 @ 12:03	1.7	
TDAFW [BA] Pmp	7/3/06 @ 8:58	7/3/06@ 9:07	0.15	0.65
TDAFW Pump	7/10/06 @ 9:18	7/10/06 @ 9:26	0.13	
TDAFW Pump	8/3/06 @ 12:32	8/3/06 @ 12:45	0.22	
TDAFW Pump	8/7/06 @ 10:24	8/7/06 @ 10:33	0.15	
AFW [BA] Pmp B	7/10/06 @ 8:49	7/10/06 @ 8:56	0.12	2.16
AFW Train B	7/27/06 @ 10:15	7/27/06 @ 10:45	0.5	
AFW Pump B	8/7/06 @ 10:00	8/7/06 @ 10:07	0.12	
AFW Pump	8/13/06 @ 8:55	8/13/06 @ 10:20	1.42	
Sfgds [JE] Train B	7/11/06 @ 9:18	7/11/06 @ 11:11	1.88	5.43
Sfgds Train B	8/8/06 @ 9:29	8/8/06 @ 13:02	3.55	

With EDG A inoperable, the plant should have entered Tech Spec LCO 3.7.b.2, which states: "One diesel generator may be inoperable for a period not exceeding 7 days provided the other diesel is tested daily to ensure OPERABILITY and the engineered safety features associated with this diesel generator are OPERABLE." This event exceeded 7 days and EDG B was never tested for operability.

Also, each of the 32 occasions above (involving concurrently inoperable Train B engineered safety features), should have resulted in entry into Tech Spec LCO 3.0.c, which did not occur. Tech Spec LCO 3.0.c states:

> When a LIMITING CONDITION FOR OPERATION is not met, and a plant shutdown is required except as provided in the associated ACTION requirements, within one hour action shall be initiated to place the unit in a MODE in which the specification does not apply by placing it, as applicable, in:
>
> 1. At least HOT STANDBY within the next 6 hours,
> 2. At least HOT SHUTDOWN within the following 6 hours, and
> 3. At least COLD SHUTDOWN within the subsequent 36 hours.

SAFETY SIGNIFICANCE

During the entire time that EDG A was out of service, offsite power was available. Therefore, at all times power was available to both trains of safeguards equipment. Furthermore, over 97% of the time period, EDG B was available to provide backup power to train B equipment. Station blackout procedures were in place in the highly unlikely event that these sources failed. The safety significance of this event is under review and will be provided in a supplement to this LER.

CAUSE

The cause evaluation of this event is still in progress. The final cause determination will be provided in a supplemental report.

CORRECTIVE ACTIONS

Repaired the leak, performed an operability test, and restored the EDG to OPERABLE status. Any additional corrective actions will be provided in an LER supplement.

PREVIOUS SIMILAR EVENTS

LER 79-025, Non-isolatable leak was discovered on the lube oil sample line for one of the two diesel generator sets