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NLS2014099
December 10, 2014

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Subject: Licensee Event Report No. 2014-005-00
Cooper Nuclear Station, Docket No. 50-298, DPR-46

Dear Sir or Madam:

The purpose of this correspondence is to forward Licensee Event Report 2014-005-00.

There are no new commitments contained in this letter.

Sincerely,

Oscar A. Limpias
Vice President Nuclear-
Chief Nuclear Officer

/jo

Attachment: Licensee Event Report 2014-005-00

cc: Regional Administrator w/attachment
USNRC - Region IV

Cooper Project Manager w/attachment
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector w/attachment
USNRC - CNS

SRAB Administrator w/attachment

NPG Distribution w/attachment

INPO Records Center w/attachment
via ICES entry

SORC Chairman w/attachment

CNS Records w/attachment

COOPER NUCLEAR STATION
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NRR

NRC FORM 366 (02-2014) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104 EXPIRES: 01/31/2017

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), 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 Page 2 for required number of digits/characters for each block)

1. FACILITY NAME	2. DOCKET NUMBER	3. PAGE
Cooper Nuclear Station	05000298	1 of 3

4. TITLE

Lube Oil Leak Results in a Potential Condition Prohibited by Technical Specifications and a Potential Loss of Safety Function

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER 05000
10	13	2014	2014 -	005 -	00	12	10	2014	FACILITY NAME	DOCKET NUMBER 05000

9. OPERATING MODE	11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)			
5	☐ 20.2201(b)	☐ 20.2203(a)(3)(i)	☐ 50.73(a)(2)(i)(C)	☐ 50.73(a)(2)(vii)
	☐ 20.2201(d)	☐ 20.2203(a)(3)(ii)	☐ 50.73(a)(2)(ii)(A)	☐ 50.73(a)(2)(viii)(A)
	☐ 20.2203(a)(1)	☐ 20.2203(a)(4)	☐ 50.73(a)(2)(ii)(B)	☐ 50.73(a)(2)(viii)(B)
	☐ 20.2203(a)(2)(i)	☐ 50.36(c)(1)(i)(A)	☐ 50.73(a)(2)(ii)	☐ 50.73(a)(2)(ix)(A)
	☐ 20.2203(a)(2)(ii)	☐ 50.36(c)(1)(ii)(A)	☐ 50.73(a)(2)(iv)(A)	☐ 50.73(a)(2)(x)
10. POWER LEVEL	☐ 20.2203(a)(2)(iii)	☐ 50.36(c)(2)	☐ 50.73(a)(2)(v)(A)	☐ 73.71(a)(4)
000	☐ 20.2203(a)(2)(iv)	☐ 50.46(a)(3)(ii)	☐ 50.73(a)(2)(v)(B)	☐ 73.71(a)(5)
	☐ 20.2203(a)(2)(v)	☐ 50.73(a)(2)(i)(A)	☐ 50.73(a)(2)(v)(C)	☐ OTHER
	☐ 20.2203(a)(2)(vi)	☒ 50.73(a)(2)(i)(B)	☒ 50.73(a)(2)(v)(D)	Specify in Abstract below or in NRC Form 366A

12. LICENSEE CONTACT FOR THIS LER

LICENSEE CONTACT	TELEPHONE NUMER (Include Area Code)
Jim Shaw, Licensing Manager	(402) 825-2788

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

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

14. SUPPLEMENTAL REPORT EXPECTED	15. EXPECTED SUBMISSION DATE	MONTH	DAY	YEAR
☒ YES (If yes, complete 15. EXPECTED SUBMISSION DATE) ☐ NO		03	31	2015

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

On October 13, 2014, Cooper Nuclear Station (CNS) observed an oil leak on the southeast corner of the Diesel Generator 2 engine during the performance of the monthly operability test. Upon further investigation, the right bank camshaft thrust bearing cover bolting was found completely loose or missing.

The event is currently under investigation. CNS will provide a supplement to this Licensee Event Report.

1. FACILITY NAME	2. DOCKET	6. LER NUMBER			3. PAGE
		YEAR	SEQUENTIAL NUMBER	REV NO	
Cooper Nuclear Station	05000298	2014	- 005	- 00	2 of 3

NARRATIVE

PLANT STATUS

Cooper Nuclear Station (CNS) was in Mode 5, Refueling, at 0 percent power, at the time of the event.

BACKGROUND

The purpose of the standby (emergency) Alternating Current (AC) power system [EIIS:EK] is to provide a single failure proof source of on-site AC power adequate for maintaining the safe shutdown of the reactor following abnormal operational transients and postulated accidents. This system consists of two independent AC power sources, the Emergency Diesel Generators (EDG) [EIIS:DG].

Each DG shall be capable of automatic start at any time and capable of continued operation at rated load, voltage, and frequency until manually stopped.

During normal plant operations, both DGs are in standby. A DG starts automatically on a loss of coolant accident signal (i.e., low reactor water level signal or high drywell pressure) or on loss of voltage on a critical bus. The DG automatically connects to its respective bus after off-site power is tripped as a consequence of critical bus loss of voltage or degraded voltage.

CNS Technical Specifications (TS) requires that two EDGs be operable when the plant is in Modes 1, 2 or 3, and that one DG be operable when the plant is in Modes 4 or 5, or during movement of irradiated fuel assemblies in the secondary containment.

EVENT DESCRIPTION

On October 13, 2014, during the performance of the monthly operability test on DG2, an oil leak on the southeast corner of the DG2 engine was observed. Upon further investigation, the right bank camshaft thrust bearing cover bolting was found loose or missing resulting in a lube oil leak from the loose bearing cover.

The event is currently under investigation. CNS will provide additional event details, the safety significance, cause evaluation, and corrective action(s) to reduce the probability of recurrence in a supplement to this Licensee Event Report.

BASIS FOR REPORT

Preliminary evaluation indicates that the condition that caused the oil leak may have existed since April 2011. Therefore, the event is being conservatively reported per 10 CFR 50.73(a)(2)(i)(B), as "any operation or condition which was prohibited by Technical Specifications" and conservatively reportable in accordance with 10 CFR 50.73(a)(2)(v), as "any event or condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to ... (D) Mitigate the consequences of an accident."

Other criteria, if determined to be applicable, will be provided in the supplemental report.

PREVIOUS EVENTS

On October 7, 2013, DG1 was discovered to have a crack in the liner wall near the top of the 1-Left cylinder liner, which allowed jacket water to leak into the engine lubrication oil. Subpar mechanical properties of the liner caused the crack. This event was reported under LER 2014-002-00, in accordance with 10 CFR 50.73(a)(2)(i)(B) as, "any operation or condition which was prohibited by Technical Specifications" and reportable in accordance with 10 CFR 50.73(a)(2)(v) as "any event or condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to ...(D) Mitigate the consequences of an accident."

On April 11, 2012, DG1 failed to start after performance of on-line maintenance activities. The failure was due to improper installation of a starting air distributor rotor in October 2011. This was reported under LER 2012-002-00, in accordance with 10 CFR 50.73(a)(2)(i)(B) as "an operation or a condition which was prohibited by Technical Specifications" and also in accordance with 10 CFR 50.73(a)(2)(v) as "any event or condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to ...(D) Mitigate the consequences of an accident."