

Mark B. Bezilla
Vice President - Nuclear

419-321-7676
Fax: 419-321-7582

Docket Number 50-346

NP-33-06-001-01
10 CFR 50.73

License Number NPF-3

May 22, 2006

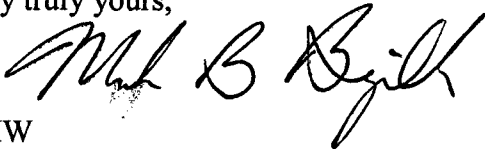
United States Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555-0001

Ladies and Gentlemen:

Licensee Event Report 2006-001-01
Emergency Diesel Generator Engine Damaged Due to Improper Torquing of Lock Nut
Davis-Besse Nuclear Power Station, Unit No. 1
Date of Occurrence – January 20, 2006

Enclosed is Revision 01 to Licensee Event Report (LER) 2006-001. This LER was submitted to provide written notification of the discovery that an Emergency Diesel Generator (EDG) was inoperable following maintenance, for a period of time longer than the seven days permitted by the Technical Specifications. The EDG was returned to service with an improperly torqued lash adjustment screw lock nut on engine cylinder 4, which was due to an inadequate level of verification of the torquing operation. The damage observed on the cylinder 4 valve bridge would have prevented the EDG from supplying power to its respective 4160 Volt Essential Bus for the seven days specified in the Safety Analysis Report. Because this condition existed for approximately 14.7 days, this event is being reported in accordance with 10 CFR 50.73(a)(2)(i)(B) as a condition prohibited by the Technical Specifications. In accordance with the guidance of NUREG-1022, revision bars have been added to the right margin to denote changes from the previous submittal of LER 2006-001 dated March 21, 2006. This revision provides the results of the evaluation into the decision that led to the conclusion that none of the possible causes of the tapping noise identified as part of post-maintenance testing warranted immediate investigation. Commitments associated with this LER are listed in the Attachment.

Very truly yours,



GMW

Attachment
Enclosure

cc: Regional Administrator, USNRC Region III
DB-1 Project Manager, USNRC
DB-1 NRC Senior Resident Inspector
Utility Radiological Safety Board

JE22

COMMITMENT LIST

The following list identifies those actions committed to by the Davis-Besse Nuclear Power Station in this document. Any other actions discussed in the submittal represent intended or planned actions by Davis-Besse. They are described only as information and are not regulatory commitments. Please notify the Manager – Regulatory Compliance (419-321-8585) at Davis-Besse of any questions regarding this document or associated regulatory commitments.

COMMITMENTS

DUE DATE

- | | |
|---|---|
| <p>1. Revise procedure DB-MM-09320, "Emergency and Station Blackout Diesel Engine Maintenance," to:</p> <ul style="list-style-type: none">• Incorporate concurrent verification signoffs for the step that requires torquing of the lash adjustment screw lock nuts and any other operation for which concurrent verification is appropriate.• Add additional signoffs for steps that require a torquing operation to be performed.• Reorganize the procedure and associated enclosures to accommodate field work sequencing.• Separate the procedure into individual procedures for each preventive maintenance activity (2-year, 4-year, 6-year, and 12-year preventive maintenance activities). <p>2. Report the results of the evaluation into the decision that led to the conclusion that none of the possible causes of the tapping noise identified as part of post-maintenance testing warranted immediate investigation. Also include in this LER supplement any remedial or preventive corrective actions from this evaluation.</p> | <p>1. Prior to the next major EDG outage, which is currently scheduled for the week of August 28, 2006 (EDG 1).</p> |
| <p>3. Review event with mechanical maintenance personnel on the lessons learned. This review will focus on the expectation of using the approved place keeping method when performing a procedure that is designated "Step-By-Step" level of use. In addition, this review will include the consequences related to this event to the station and personnel.</p> | <p>2. Complete with submittal of Revision 01 of this LER.</p> <p>3. June 30, 2006</p> |

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COMMITMENTS

DUE DATE

- | | |
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| 4. Training will be presented to improve worker understanding and performance in the area of problem solving techniques. The target audience for this training will be engineering personnel, maintenance supervisors and above, and operations supervisors and above, who are typically involved in these types of problem solving issues. | 4. September 14, 2006 |
| 5. The latest revision to procedure NOP-ER-3001, "Problem Solving and Decision Making," which has been implemented at other FirstEnergy Nuclear Operating Company facilities, will be implemented at the DBNPS. The current revision of this procedure provides a simplified, yet structured troubleshooting technique that can be used for equipment deficiencies that do not rise to the level of requiring a formal problem solving team. | 5. July 14, 2006 |

LICENSEE EVENT REPORT (LER)

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

Estimated burden per response to comply with this mandatory collection request: 50 hrs. 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 infocollect@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.

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4. TITLE
Emergency Diesel Generator Engine Damaged Due to Improper Torquing of Lock Nut

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
01	20	2006	2006	001	01	05	22	2006	FACILITY NAME	DOCKET NUMBER
										05000
										05000

9. OPERATING MODE 1	10. POWER LEVEL 100	11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: <i>(Check all that apply)</i>							
		<input type="checkbox"/> 20.2201(b)	<input type="checkbox"/> 20.2203(a)(3)(i)	<input type="checkbox"/> 50.73(a)(2)(i)(C)	<input type="checkbox"/> 50.73(a)(2)(vii)				
		<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(ii)(a)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)				
		<input type="checkbox"/> 20.2203(a)(1)	<input type="checkbox"/> 20.2203(a)(4)	<input type="checkbox"/> 50.73(a)(2)(ii)(B)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)				
		<input type="checkbox"/> 20.2203(a)(2)(i)	<input type="checkbox"/> 50.36(c)(1)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)(A)				
		<input type="checkbox"/> 20.2203(a)(2)(ii)	<input type="checkbox"/> 50.36(c)(1)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(iv)(A)	<input type="checkbox"/> 50.73(a)(2)(x)				
		<input type="checkbox"/> 20.2203(a)(2)(iii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(v)(A)	<input type="checkbox"/> 73.71(a)(4)				
		<input type="checkbox"/> 20.2203(a)(2)(iv)	<input type="checkbox"/> 50.46(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(v)(B)	<input type="checkbox"/> 73.71(a)(5)				
		<input type="checkbox"/> 20.2203(a)(2)(v)	<input type="checkbox"/> 50.73(a)(2)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(v)(C)	<input type="checkbox"/> OTHER				
		<input type="checkbox"/> 20.2203(a)(2)(vi)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)(B)	<input type="checkbox"/> 50.73(a)(2)(v)(D)	Specify in Abstract below				

12. LICENSEE CONTACT FOR THIS LER

FACILITY NAME Gerald M. Wolf, Staff Engineer, Regulatory Compliance	TELEPHONE NUMBER (Include Area Code) (419) 321-8001
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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 <input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE). <input checked="" type="checkbox"/> NO	15. EXPECTED SUBMISSION DATE MONTH: DAY: YEAR:
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ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

On January 20, 2006, while preparing Emergency Diesel Generator (EDG) 2 for testing, an investigation was performed of a tapping noise heard following overhaul maintenance the prior week. When the top deck on the EDG engine was opened, damage was discovered to a cylinder valve bridge. The damage was determined to be due to an improperly torqued lash adjustment screw lock nut, which was caused by inadequate verification of the torquing. The observed damage would have prevented the EDG from operating for its duty time of one week as specified in the Safety Analysis Report. Because the EDG was inoperable from the start of the six year preventive maintenance overhaul on January 8, 2006, until repairs were completed on January 23, 2006, or more than the seven days permitted by the Technical Specifications, this event is being reported in accordance with 10 CFR 50.73(a)(2)(i)(B) as a condition prohibited by the Technical Specifications. The diesel engine maintenance procedure will be revised to incorporate concurrent verification for the step that requires torquing of the lash adjustment screw lock nuts and add additional signoffs for steps that require a torquing operation to be performed. Because a structured problem solving technique was not used when the tapping sound was first heard, training in problem solving techniques will also be given to applicable personnel.

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

DESCRIPTION OF OCCURRENCE:

System Description:

The onsite electric power system [EB] at the Davis-Besse Nuclear Power Station (DBNPS) is powered by two separate and independent Emergency Diesel Generators (EDGs) [EK-DG]. These EDGs provide onsite standby electrical power sources to supply their respective 4160 Volt Essential Buses [EB-BU]. Each of the EDGs are equipped with a twenty cylinder model 645-E4 diesel engine manufactured by Electro-Motive Division, and are nominally rated for 2600 kilowatts continuous electric service. A minimum of 36,000 gallons of fuel oil is stored on site for each of the EDGs to permit operation for at least seven days following a Loss of Offsite Power. Additionally, one non-class 1E diesel generator can be aligned to power either 4160 Volt essential bus in the event of a station blackout.

DBNPS Technical Specification (TS) Limiting Condition for Operation (LCO) 3.8.1.1.b requires two separate and independent EDGs to be Operable while the plant is operating in Modes 1, 2, 3, and 4. With one EDG inoperable, the Operability of the remaining A.C. sources must be demonstrated by performing Surveillance Requirement 4.8.1.1.1.a (verification of correct breaker alignments and indicated power availability) within one hour and at least once per 8 hours thereafter and by performing Surveillance Requirement 4.8.1.1.2.a.4 (verification that the Operable EDG starts and accelerates up to 900 rpm) within 24 hours. Two EDGs must be restored to Operable status within 7 days or the plant must be in Hot Standby (Mode 3) within the next 6 hours and in Cold Shutdown (Mode 5) within the following 30 hours.

Event Description:

On January 8, 2006, at 1505 hours, with the plant at power operation (Mode 1), EDG 2 was removed from service to perform six year preventive maintenance activities. The main purpose of the EDG 2 outage was to perform an overhaul of the engine to replace the head to liner gaskets. Based on inspection criteria, replacement of the valve bridges was determined to be required. During the process of engine reassembly, the exhaust valve lash is set for each of the cylinders. Once the lash is set, a lock nut is tightened and torqued to 80 foot-pounds to ensure the lash adjustment screw remains in position. The entire six year preventive maintenance activity was governed by procedure DB-MM-09320, Revision 10, "Emergency and Station Blackout Diesel Engine Maintenance."

After completion of the maintenance activities, a three hour test run of EDG 2 was performed. During this test run, a tapping noise was identified in the area of cylinders 4 and 5 at approximately 2000 hours on January 13, 2006. Discussions between the vendor representative and FENOC personnel present as well as examination of test data concluded that the tapping noise was due to a lash adjustment being off and that the cylinders were operating normally. Follow-up documentation was initiated to further investigate the noise at a later time. EDG 2 was declared operable on January 14, 2006 at 0000 hours.

On January 20, 2006, at 1557 hours, the air start motors were tagged out for barring of the EDG prior to running the engine for post-maintenance testing after change out of a fuel filter. The top deck on EDG 2 was opened to investigate the tapping noise heard on January 13, and damage was discovered to the cylinder 4 left valve bridge. The left rocker arm of cylinder 4 was found with the lash adjustment screw lock nut missing from the top of the rocker arm. The missing lash adjustment screw lock nut was

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DESCRIPTION OF OCCURRENCE: (continued)

eventually located in the oil trough. The extent of damage to EDG 2 was isolated to cylinder 4. Repairs to the EDG 2 engine were initiated. On January 23, 2006, after completion of maintenance and testing activities, EDG 2 was declared operable at 0642 hours.

As a result of the damage discovered to the cylinder 4 left valve bridge of EDG 2, the EDG would not have been able to supply power to its respective 4160 Volt Essential Bus for the seven days specified in the Safety Analysis Report. This condition existed from January 14, 2006, when EDG 2 was declared operable following preventive maintenance, until January 23, 2006, at 0642 hours when repairs to the engine were completed and EDG 2 declared operable. This timeframe, in conjunction with the approximately 5.4 days EDG 2 was inoperable for preventive maintenance, resulted in EDG 2 being incapable of performing its required safety function for a total of approximately 14.7 days. Because EDG 2 was incapable of performing its required safety function for longer than the 7 days permitted by TS LCO 3.8.1.1 Action b while the plant remained in Mode 1, the plant was operated in a condition prohibited by the Technical Specifications, which is reportable per 10 CFR 50.73(a)(2)(i)(B). During this timeframe, both EDG 1 (except for approximately 3 minutes as explained later under the Analysis of Occurrence Section) and the non-Class 1E diesel generator were Operable.

APPARENT CAUSE OF OCCURRENCE:

The most probable cause of the damage to EDG 2 is the failure to torque the left lash adjustment screw lock nuts due to an inadequate level of verification. Miscommunications between the lead mechanic and the vendor representative are more than likely the initiator. Both the lead mechanic and the vendor representative are aware that the lash adjustment screw lock nuts are required to be torqued, but the vendor representative normally only tightens the lash adjustment screw lock nuts with a hand wrench. The lash adjustment screw lock nuts are normally torqued after all cylinders have had their lash set. The miscommunication may have occurred upon completion of the lash adjustment by the vendor representative communicating to the lead mechanic. The lead mechanic did not adequately verify whether the torquing of the lash adjustment screw lock nuts was completed as part of the lash adjustment, and signed off for the torquing of the lash adjustment screw lock nuts as complete when the torquing had not been performed.

The basis for declaring a probable cause is due to not being able to prove conclusively whether the lash adjustment screw lock nuts were properly torqued, or that a component failure occurred. The overall evidence indicates that the lock nuts were not torqued even though all but one of the lash adjustment screw lock nuts were tight. However, the damaged components from EDG 2 are being sent to the vendor for failure analysis, to determine if a faulty component existed.

Three contributing causes were identified relating to this event. The first is that the lead mechanic is expected to sign off the procedure for the work performed regardless of who performs the maintenance. The expectation is that the lead mechanic provides direction to those working on the engine, ensures the work is completed correctly, and signs the procedure to document the work performed. The diesel engine is a V-20 that has work platforms on either side of the engine, which are blocked from direct view of each other. While this dual platform configuration allows for simultaneous maintenance activities, it also increases the difficulty of one person verifying the completion of the work activities on both platforms.

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APPARENT CAUSE OF OCCURRENCE: (continued)

The second contributing cause is the structure of the procedure used to perform the six year preventive maintenance activity on the diesel engine. Procedure DB-MM-09320, Revision 10, "Emergency and Station Blackout Diesel Engine Maintenance," includes 33 enclosures of which 13 are not directly related to maintenance on the engine cylinders. The procedure enclosures are not ordered in specific sequence to facilitate ease of use. Some of the enclosures have only one signoff for each cylinder even though the enclosure includes several steps.

The third contributing cause is the failure to use proper place keeping in a procedure designated as "Step-By-Step" level of use. While procedure DB-MM-09320 had proper place keeping in a number of the enclosures, this proper place keeping was not used consistently.

An evaluation was performed regarding the conclusion that none of the possible causes of the tapping noise identified as part of post-maintenance testing on January 13, 2006, warranted immediate investigation. Had this tapping noise been addressed without delay, the repairs to EDG 2 may have been completed within the TS allowed outage time of seven days. The cause for not fully investigating the issue prior to declaring EDG 2 operable was determined to be that a structured problem solving and decision making technique was not used when evaluating the tapping sound. The collective opinion of those involved was that the tapping sound was related to an exhaust valve lash being slightly out of adjustment, and similar diesel engine tapping sounds are not unusual. The group consensus was that the condition would not affect the ability of the equipment to perform its function, and that adjustment could be made at a later date. The noise level adjacent to the operating diesel engine was very high (to the point that normal discussions were difficult), and the group did not assemble to a better environment (less noise) to discuss and brainstorm the concern.

ANALYSIS OF OCCURRENCE:

The damage to the EDG 2 engine's left valve bridge was due to a loss of compression between the head and rocker arm, caused by the lash adjustment screw backing out to the fully retracted position. The valve bridge was then free to lift off of the head, which eventually resulted in the damage to the bronze spring retainer. As the valve bridge cycled up and down, the lip of the bronze spring retainer broke off, allowing the retainer to slide up the center post. This allowed the center post to strike the top of the head, resulting in elongation of the spherical depression that held the bronze spring retainer. The left rocker arm was damaged where it contacted the valve bridge that was found skewed from its normal position.

A damaged valve bridge will result in a higher rotation rate of the associated exhaust valves due to the loss of the hydraulic snubbing effect of the lash adjusters. The higher rotational rate of the exhaust valves will result in wearing of the exhaust valve stem in the area of the valve keeper. The accelerated wear of the exhaust valve stem could result in failure of the valve stem, and the exhaust valve would then drop into the engine cylinder.

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ANALYSIS OF OCCURRENCE: (continued)

The amount of time that it would take to cause a failure of the exhaust valve stem due to the accelerated rotational rate is unknown. There is one known case in the nuclear industry where an exhaust valve dropped into an engine cylinder of similar design. The failure of the exhaust valve occurred 19 hours into a 24-hour test run following a maintenance outage, resulting in catastrophic failure of the engine. The cause of this exhaust valve failure was suspected to be failure to torque the lash adjustment screw lock nut.

During the time EDG 2 was inoperable due to the loose/missing lash adjustment screw lock nut, EDG 1 was also declared inoperable on January 18, 2006, from 2259 to 2302 hours while swapping the operating Component Cooling Water (CCW) Pumps [CC-P] on train 1. When CCW Pump 1 was started with CCW Pump 3 operating, EDG 1 was considered inoperable due to the potential overload condition that would exist if a Loss of Coolant Accident were to occur coincident with a Loss of Offsite Power. However, based upon engineering judgment, no loss of safety function existed during this brief period of time (3 minutes) since EDG 2 remained functional and exhibited no abnormal operating characteristics when it was shutdown following testing on January 13, 2006, and returned to service on January 14, 2006. Except for these 3 minutes, EDG 1 remained operable during the time EDG 2 was inoperable for the planned maintenance outage as well as due to the loose/missing lash adjustment screw lock nut.

During the time EDG 2 was inoperable, Containment Spray (CS) Pump 1 [BE-P] was inoperable from January 17, 2006, at 0233 hours until January 20, 2006, at 0539 hours for a planned maintenance outage. DBNPS TS LCO 3.6.2.1 requires two independent containment spray systems to be Operable while the plant is operating in Modes 1, 2, 3, and 4. With one containment spray system inoperable, the inoperable spray system must be restored to Operable status within 7 days. However, while CS Pump 1 was inoperable for maintenance, redundant CS Pump 2 was also inoperable because it had no emergency power source (EDG 2). Because the plant remained in Mode 1 with both CS Pumps inoperable, this represents an additional example of operation in a condition prohibited by the Technical Specifications.

During the time EDG 2 was inoperable, Station Vent Radiation Monitor [IL-MON] RE4598AA was inoperable on January 16, 2006, from 1234 hours to 1524 hours for maintenance, and again on January 17, 2006, from 1055 hours to 1201 hours for a filter change. DBNPS TS LCO 3.7.6.1 requires two independent control room emergency ventilation systems [VI] to be Operable while the plant is operating in Modes 1, 2, 3, and 4. With both channels of Station Vent Normal Range Radiation Monitoring instrumentation inoperable, the control room normal ventilation system [VI] must be isolated and at least one control room emergency ventilation system train be placed in operation within one hour. While RE4598AA was inoperable for maintenance and for a filter change, redundant Station Vent Radiation Monitor RE4598BA was also inoperable because it had no emergency power source. Because the plant remained in Mode 1 with both Station Vent Radiation Monitors inoperable and the control room normal ventilation system in service, this represents an additional example of operation in a condition prohibited by the Technical Specifications.

Based upon the availability of train 1 equipment to respond to any actual event during the time EDG 2 was inoperable due to the loose/missing lash adjustment screw lock nut except for the brief periods of time described above involving trains, independent of the EDGs, this event had minimal safety significance.

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CORRECTIVE ACTIONS:

On January 20, 2006, upon discovery of the damage to EDG 2 cylinder 4 left valve bridge, repairs to the engine were initiated. All other adjusting screw lock nuts were checked and found to be tightened to at least the required torque value. The other 19 cylinders were inspected and no damage was found. EDG 2 was declared operable on January 23, 2006, at 0642 hours after completion of maintenance and testing activities.

Procedure DB-MM-09320, "Emergency and Station Blackout Diesel Engine Maintenance," will be revised to incorporate concurrent verification signoffs for the step that requires torquing of the lash adjustment screw lock nuts and any other operation for which concurrent verification is appropriate.

Additional signoffs will also be added to the procedure for steps that require a torquing operation to be performed, which will allow the individual performing the torquing to initial that the task was completed. The procedure and associated enclosures will be reorganized to accommodate field work sequencing, and the procedure will be separated into individual procedures for each preventive maintenance activity (2-year, 4-year, 6-year, and 12-year preventive maintenance activities). These procedure changes will be implemented prior to the next major EDG outage.

This event will be reviewed with mechanical maintenance personnel on the lessons learned. This review will focus on the expectation of using the approved place keeping method when performing a procedure that is designated "Step-By-Step" level of use. In addition, this review will include the consequences related to this event to the station and personnel.

Training will be presented to improve worker understanding and performance in the area of problem solving techniques. The target audience for this training will be engineering personnel, maintenance supervisors and above, and operations supervisors and above, who are typically involved in these types of problem solving issues.

The latest revision to procedure NOP-ER-3001, "Problem Solving and Decision Making," which has been implemented at other FirstEnergy Nuclear Operating Company facilities, will be implemented at the DBNPS. The current revision of this procedure, which was not previously implemented at the DBNPS due to the impending Fourteenth Refueling Outage, provides a simplified, yet structured troubleshooting technique that can be used for equipment deficiencies that do not rise to the level of requiring a formal problem solving team.

FAILURE DATA:

There have been no Licensee Event Reports submitted by FENOC for the DBNPS in the last three years reporting an event associated with inoperability of an Emergency Diesel Generator due to damaged engine components or a maintenance activity.

An event was documented on a Condition Report in 2003 where inadequate written Preventive Maintenance instructions led to improper torquing of the EDG 2 piston cooling oil pipe flange bolts for one cylinder. Contributing to this 2003 event was the lack of sufficient written detail regarding the torquing of these piston cooling oil pipe flange bolts in procedure DB-MM-09320, "Emergency and Station Blackout Diesel Engine Maintenance." Corrective Actions were completed to revise the procedure and Preventive Maintenance instructions for these piston cooling oil pipe flange bolts.

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FAILURE DATA: (continued)

As described earlier, the cause of this January 2006 event was not a lack of adequate instructions or detail, but miscommunication, a lack of verifications, and the overall structure of the procedure. As a result, a review of a sample of similar mechanical maintenance procedures was performed, and the level of verification of torquing operations was determined to be adequate to prevent an event similar to the one described in this LER. Therefore, the corrective actions taken for the 2003 event, which were due to different causes, could not have been expected to prevent this occurrence. The past occurrences do not indicate a generic or broader scope issue at the DBNPS.

Energy Industry Identification System (EIIIS) codes are identified in the text as [XX].

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CRs 06-00154, 06-00583