

Duke Power Company  
Catawba Nuclear Generation Department  
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**DUKE POWER**

December 4, 1995

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Subject: Catawba Nuclear Station  
Dockets 50-413 and 50-414  
Reply to Notice of Violation (NOV)  
Inspection Report 50-413, 414/95-20

Attached is Duke Power Company's response to the one (1) Level IV violation cited in Inspection Report 50-413, 414/95-20, dated November 3, 1995. This violation was identified during the Residents' Monthly Inspection conducted September 3 through October 7, 1995

If there are any questions concerning this response, please contact Kay Nicholson at (803) 831-3237.

Sincerely,

A handwritten signature in cursive script that reads "William R. McCollum".

W. R. McCollum

\KEN:RESP95.20

xc: S. D. Ebnetter, Regional Administrator  
R. E. Martin, ONRR  
R. J. Freudenberger, SRI

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	NSRB Staff	EC05N
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	K. E. Nicholson	IR 95-20/PIP 95-1495
	NCMPA-1	
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**DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
REPLY TO NOTICE OF VIOLATION**

**413, 414/95-16-01**

**Notice of Violation**

*Technical Specification 6.8.1, Procedures and Programs, requires, in part, that written procedures be established, implemented, and maintained covering the activities referenced in Appendix A of Regulatory Guide 1.33, Revision 2, February 1978. As referenced, this includes procedures for performing maintenance that can affect the performance of safety related equipment. Implicit in this requirement is the stipulation that the procedures be adequate for the circumstances.*

*Contrary to the above, on September 19, 1995, procedure MP/O/A/7400/42, (Emergency Diesel Generator) Turbocharger Removal and Replacement, was inadequate in that provisions were not provided to install and maintain lock washers in the turbocharger mounting bolt arrangement for the Unit 1 and Unit 2 Emergency Diesel Generators. Lock washers were specified for use in this application on the vendor drawing for the turbocharger mounting brackets (drawing CNM 2301.00-023-001). Failure to install a suitable lock washer configuration caused 3 of 4 mounting bolts to fail on the 2B Diesel Generator Right Bank Turbocharger and introduced a potential common mode failure into the Emergency Diesel Generators on both units.*

*This is a Severity Level IV Violation (Supplement I).*

**DUKE POWER COMPANY  
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REPLY TO NOTICE OF VIOLATION  
413, 414/95-16-01**

**RESPONSE:**

**1. Reason for Violation**

This violation is attributed to personnel error. Engineering and Maintenance personnel failed to properly evaluate and document the deletion of the lock washers from the diesel generator turbocharger mounting bolt arrangement in a 1984 change.

Lock washers were originally included in the Unit 1 and Unit 2 diesel generator's turbocharger mounting bolt arrangement. In 1984 an option for modifying the mounting bolt arrangement was implemented. This option allowed the bolt holes in the mounting bracket for the turbochargers to be elongated to facilitate turbocharger alignment. For the elongated bolt holes, a one-eighth inch stainless steel plate was also installed under the mounting bolt heads to ensure that an adequate bearing surface was maintained to secure the bolts. It was during this time that the lock washers were deleted. In September, 1995 the problem with the turbocharger mounting arrangement was identified. In reviewing the records and information from the 1984 time frame it was determined that the deletion of the lock washers was a conscious decision but was not changed under the modification process and therefore not properly evaluated and documented.

**2. Corrective Actions Taken and Results Achieved**

An engineering evaluation of the Unit 1 and 2 diesel generator turbocharger mounting arrangement was performed. Based on the results of this evaluation, modification CNCE-7308 was initiated to properly mount the turbochargers. This modification was implemented on all diesel generator turbochargers on September 23, 1995.

As part of the modification process, Maintenance Procedure MP/0/A/7400/42, Turbocharger Removal and Replacement, was reviewed for necessary changes and subsequently revised to reflect the turbocharger mounting arrangement in accordance with the modification. The procedure now requires the use of both lock washers and flat washers for turbocharger installation.

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In addition, MP/0/A/7400/42 was revised to increase the torque value from 60-65 ft-lbs to 75-ft-lbs to further ensure that the holddown bolts remain secure.

**3. Corrective Action to be Taken to Avoid Future Violations**

The corrective steps identified in Section 2. above are adequate to prevent further violations.

**4. Date of Full Compliance**

Duke Power Company is now in full compliance.