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 MINECK,D.L. Iowa Electric Light & Power Co.
 RECIP.NAME RECIPIENT AFFILIATION
 MURLEY,T.E. Office of Nuclear Reactor Regulation, Director (Post 870411

SUBJECT: Responds to NRC Bulletin 89-002 re stress corrosion cracking
 of internal bolting in Anchor Darling swing check valves.

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 TITLE: Bulletin Response 89-02 re Cracking of High-Hardness Type 410 Bolting

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Iowa Electric Light and Power Company

September 7, 1990

NG-90-2025

Dr. Thomas E. Murley, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Station P1-137
Washington, DC 20555

Subject: Duane Arnold Energy Center
Docket No: 50-331
Op. License No: DPR-49
Response to NRC Bulletin 89-02 re: Stress Corrosion
Cracking of Internal Bolting in Swing Check Valves
Reference: NRC Bulletin 89-02, "Stress Corrosion Cracking of
High-Hardness Type 410 Stainless Steel Internal
Preloaded Bolting in Anchor Darling Model S350W
Swing Check Valves or Valves of Similar Design."
File: A-101a, A-105, A-63b

Dear Dr. Murley:

NRC Bulletin 89-02 requests Licensees to identify, disassemble and inspect certain types of safety-related Anchor Darling swing check valves which may contain Type 410 stainless steel bolting material.

We have evaluated the Bulletin and determined that there are no Anchor Darling valves of this type installed at DAEC. We have, however, determined that four check valves manufactured by Velan and installed in the High Pressure Coolant Injection (HPCI) and Reactor Core Isolation Cooling (RCIC) systems could be susceptible to the concern stated in NRC Bulletin 89-02.

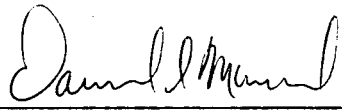
These valves were disassembled and inspected during the current DAEC refuel outage. The result of the inspections, which were conducted on July 10 and 11, was that none of the four valves had cracked or broken retaining block bolts. In addition, we replaced the bolts with A193 grade B8 stainless steel bolts as recommended by the manufacturer. The replacement bolts were tested upon receipt to verify that the Rockwell hardness values are less than Rc26 as recommended in NRC Bulletin 89-02.

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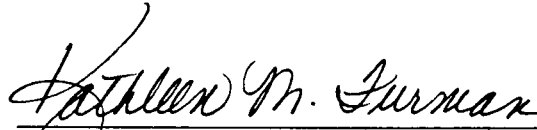
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PDR ADDCK 05000331
Q PDC

This letter is true and accurate to the best of my knowledge and belief.

IOWA ELECTRIC LIGHT AND POWER COMPANY

By 
DANIEL L. MINECK
Manager, Nuclear Division

Signed and sworn to before me on this 6th day of September, 1990, by
Daniel L. Mineck.


Notary Public in and for the State
of Iowa
September 28, 1992
Commission Expires

DLM/SRC/pjv+

cc: S. Catron
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