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SUBJECT: Forwards response to NRC Info Notice 89-56 re questionable certification of matl supplied to DOD by nuclear suppliers.

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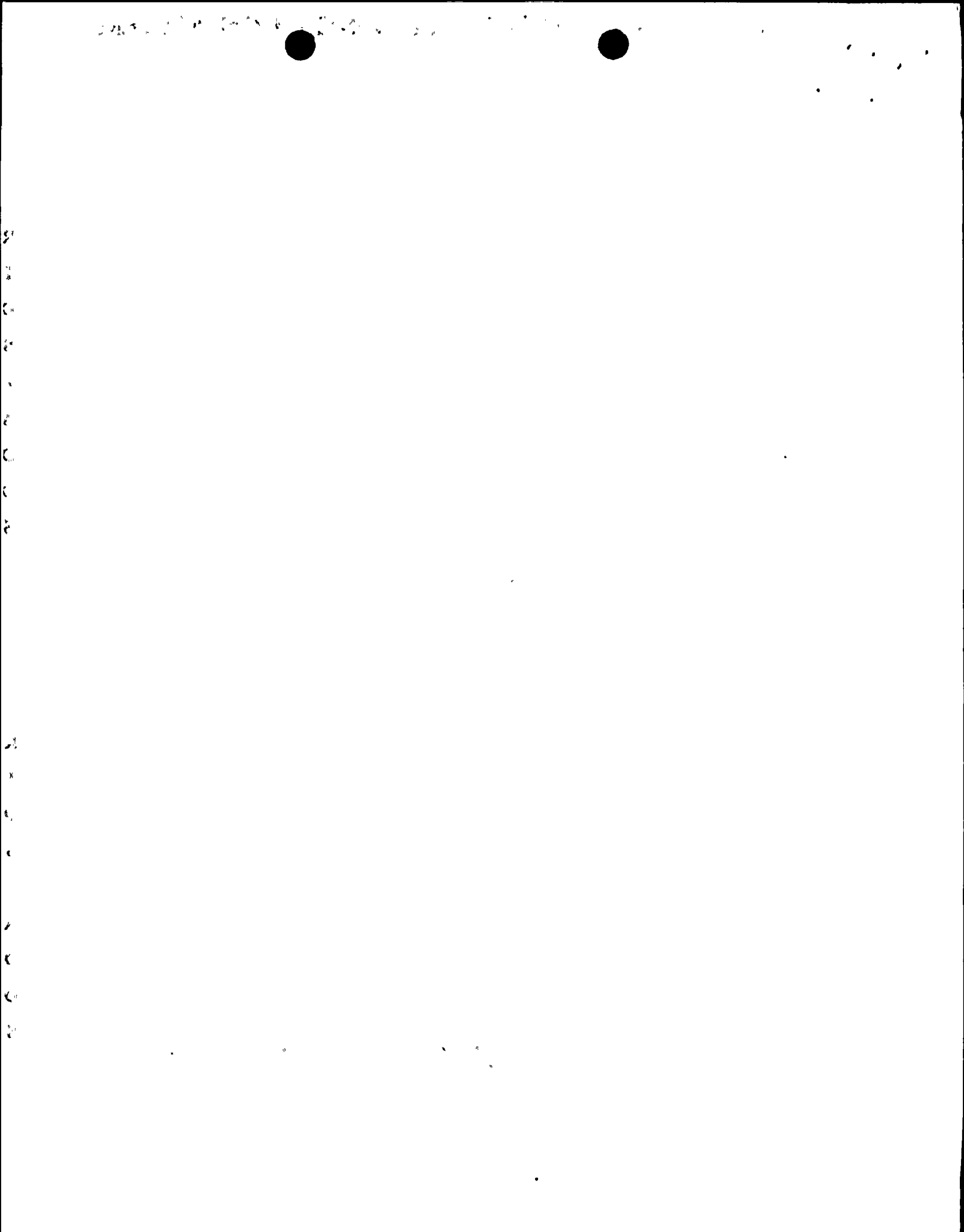
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AEP:NRC:1117

Donald C. Cook Nuclear Plant Unit 2
Docket No. 50-316
License No. DPR-74
RESPONSE TO NRC INFORMATION NOTICE 89-56

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

Attn: T. E. Murley:

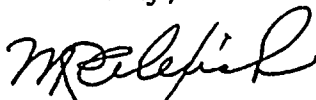
February 28, 1990

Dear Dr. Murley:

Information Notice 89-56, "Questionable Certification of Material Supplied to the Defense Department by Nuclear Suppliers," was issued to alert licensees to possible problems with certification of material furnished by Meredith Corporation, Pressure Vessel Nuclear and Alloy & Carbon Steel Company. The NRC expressed interest in the Information Notice in discrepancies discovered by licensees regarding similar problems with material supplied by the above vendors. The attachment to this letter provides information relative to use of material purchased from Pressure Vessel Nuclear for the Donald C. Cook Nuclear Plant Unit 2.

This document has been prepared following Corporate procedures that incorporate a reasonable set of controls to ensure its accuracy and completeness prior to signature by the undersigned.

Sincerely,



M. P. Alexich
Vice President

ldp

Attachment

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Dr. T. E. Murley

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AEP:NRC:1117

cc: D. H. Williams, Jr.
A. A. Blind - Bridgman
R. C. Callen
G. Charnoff
A. B. Davis - Region III
NRC Resident Inspector - Bridgman
NFEM Section Chief

ATTACHMENT TO AEP:NRC:1117

RESPONSE TO NRC INFORMATION NOTICE 89-56



The information below is provided to satisfy an NRC request for information regarding material supplied by Pressure Vessel Nuclear (PVN) and Alloy & Carbon Steel Company, Inc., where discrepancies have been found similar to those described in NRC Information Notice 89-56. The discussion below only addresses material supplied by PVN; we are unaware of any purchases from Alloy & Carbon Steel Company, Inc.

Background

On October 13, 1989, Anchor Darling Industries, Inc. notified MK-Ferguson Co. that shim material from PVN had been supplied to them for the Donald C. Cook Nuclear Plant. This discovery had been made as a result of an investigation conducted pursuant to the issuance of NRC Information Notice 89-56. MK-Ferguson subsequently informed Indiana Michigan Power that the affected shim materials had been furnished for the steam generator repair project on Unit 2. Specifically, the shims had been used for the steam generator upper and lower lateral restraints and between the support pad and support column.

Review Actions Taken

As a result of the above notification, a Problem Report was initiated and an investigation conducted by AEPSC. This revealed that three purchase orders were affected. For two of the orders, PVN supplied an initial Chemical and Material Certification Review and Anchor Darling Industries performed a follow-up certification. Table 1 summarizes the differences between the two analyses for Heat Trace Codes S-5 and S-13. As noted in the table, differences exist for the chemical analyses of chromium, copper and vanadium. The third purchase order required only a certificate of conformance and no Chemical and Material Certification Review. No analytical results are, therefore, provided herein for comparison purposes.

Conclusion

For the particular application of the material provided by PVN, the completed investigation of all three purchase orders concluded that the material was capable of performing its design function and, therefore, is acceptable for continued use.

TABLE 1

COMPARISON OF CMTRs FOR HEAT TRACE CODES 5, 13

CHEMICAL CERTIFICATION

<u>Specification Requirements</u>		<u>PVN CMTR Results</u>		<u>Anchor Darling CMTR Results</u>	
Chemical	% Content	TC-S-05	TC-S-13	TC-S-05	TC-S-13
C	0.2 max.	0.170	0.160	0.180	0.160
Mn	0.75-01.35	1.110	1.130	1.090	1.130
P	0.04 max.	0.014	0.014	0.008	0.006
S	0.05 max.	0.012	0.013	0.014	0.021
Si	0.15-0.50	0.330	0.320	0.190	0.210
Ni	0.50 max.	0.190	0.180	0.180	0.160
Cr	0.40-0.70	0.470	0.460	0.17*	0.17*
Cu	0.20-0.40	0.280	0.230	0.06*	0.02*
V	0.01-0.10	0.020	0.030	<0.01*	0.01*

MECHANICAL CERTIFICATION

<u>Specification Requirements</u>		<u>PVN CMTR Results</u>		<u>Anchor Darling CMTR Results</u>	
		TC-S-05	TC-S-13	TC-S-05	TC-S-13
Yield Strength (ksi) min.	50.0	54.7	54.0	57.1	53.3
Tensile Strength (ksi) min.	70.0	77.1	76.1	77.0	76.0
Elongation % min.	18 @ 8" 21 @ 2"	30 @ 8"	30 @ 8"	30 @ 2"	32.9 @ 2"

* Indicates nonconformance to specification



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