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 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315  
 50-318 Calvert Cliffs Nuclear Power Plant, Unit 2, Baltimore 05000318

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 ALEXICH, M. P. Indiana Michigan Power Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 DAVIS, A. B. Document Control Branch (Document Control Desk)

SUBJECT: Forwards corrected Pages 1, 2 & 5 of chemical composition  
 table submitted w/870112 response to NRC Compliance Bulletin  
 87-002 re safety-related & nonsafety-related fastener  
 testing.

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AEP:NRC:1045A

Donald C. Cook Nuclear Plant Units 1 and 2  
Docket Nos. 50-315 and 50-316  
License Nos. DPR-58 and DPR-74  
NRC COMPLIANCE BULLETIN NO. 87-02: FASTENER TESTING  
TO DETERMINE CONFORMANCE WITH APPLICABLE MATERIAL  
SPECIFICATIONS-RESUBMITTAL OF THREE PAGES

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

Attn: A. B. Davis


January 27, 1988

Dear Mr. Davis:

Our submittal AEP:NRC:1045 dated January 12, 1987 responded to the information required by NRC Compliance Bulletin 87-02 on safety-related and nonsafety-related fastener testing. Attachment 2 to that submittal contained the mechanical/chemical test results of the sample of fasteners tested. Inadvertently, three pages of the chemical composition table were not printed properly as the data was shifted too far to the right side of the pages (pages 1, 2, and 5). We are transmitting these three pages in this submittal. Please replace the previously transmitted pages with the attached pages. We apologize for any inconvenience that this may have caused.

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

Sincerely,

  
M. P. Alexich  
Vice President

cm

cc: John E. Dolan  
W. G. Smith, Jr. - Bridgman  
R. C. Callen  
G. Bruchmann  
G. Charnoff  
NRC Resident Inspector - Bridgman

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ATTACHMENT 2

DONALD C. COOK NUCLEAR PLANT

Data Summary .

SA-193 Gr B7 Bolts/Studs

Safety-Related

ID#	<u>Mechanical Analysis</u>			<u>Chemical Analysis (%)</u>						
	Hardness	UTS (psi)	0.2% YS (psi)	C	Mn	P	S	Si	Mo	Cr
DCCNP/30-028980/ ASP9708	30.5 Rc	141,500	124,300	0.37	0.72	0.010	0.013	0.22	0.20	0.87
DCCNP/30-029918/ ASP6071	29.5 Rc	133,100	113,200	0.40	0.91	0.012	0.016	0.25	0.21	0.98
DCCNP/30-046489/ ASP9735	27.5 Rc	135,700	116,300	0.35	0.89	0.011	0.016	0.23	0.20	0.88
DCCNP/30-046542/ ASP6110	32 Rc	143,300	127,800	0.44	0.89	0.007	0.023	0.23	0.21	1.04
DCCNP/30-046403/ ASP9673	29 Rc	138,000	122,700	0.40	0.84	0.006	0.023	0.17	0.20	0.93

Note: UTS - Ultimate Tensile Strength; YS - Yield Strength; C - Carbon; Mn - Manganese; P - Phosphorus; S - Sulfur;  
Si - Silicon; Mo - Molybdenum; Cr - Chromium.

ATTACHMENT 2

DONALD C. COOK NUCLEAR PLANT

Data Summary

SA-193 Gr B8 Bolts/Studs

Safety-Related

ID#	<u>Mechanical Analysis</u>			<u>Chemical Analysis (%)</u>						
	Hardness	UTS (psi)	0.2% YS (psi)	C	Mn	P	S	Si	Ni	Cr
DCCNP/30-029989/ ASP9828	89 Rb	83,600	37,400	0.03	1.62	0.025	0.033	0.83	9.44	18.26
DCCNP/30-046730/ ASP4184	87 Rb	106,400	51,000	0.06	0.81	0.013	<0.005	0.65	8.30	18.85
DCCNP/30-046785/ ASP4184	89 Rb	90,900	47,000	0.05	1.78	0.031	0.015	0.47	9.09	18.81

Note: UTS - Ultimate Tensile Strength; YS - Yield Strength; C - Carbon; Mn - Manganese; P - Phosphorus; S - Sulfur; Si - Silicon; Ni - Nickel; Cr - Chromium.

ATTACHMENT 2

DONALD C. COOK NUCLEAR PLANT

Data Summary

SA-194 Gr 2H Heavy Hex Nuts

Safety-Related

ID#	<u>Mechanical Analysis</u>	<u>Chemical Analysis (%)</u>		
	Hardness	C	P	S
DCCNP/30-028980/ ASP9708				
Nut A	32 Rc	0.47	0.014	0.024
Nut B	32 Rc	0.45	0.012	0.022
DCCNP/30-029918/ ASP6071				
Nut A	26 Rc	0.46	0.007	0.025
Nut B	26 Rc	0.46	0.007	0.025
DCCNP/30-046625/ ASP3693	31 Rc	0.44	0.019	0.012
DCCNP/30-046627/ ASP3631	27 Rc	0.42	0.021	0.022
DCCNP/30-046622/ ASP9224	32.5 Rc	0.44	0.010	0.023

Note: C - Carbon; P - Phosphorus; S - Sulfur