Return to SGFF/NMSS, MS-881-ss Distribution PDR

OCT 3 0 1984

See attached list of addressees.

Docket File **70-68** Case File SGFF r/f NMSS r/f CNSmith WBBrown ESuarez RGPage/LRouse, FC LICobb, IE Regions I, II, III & V

Gentlemen:

The Division of Safeguards has reviewed its position concerning bias corrections to the reported Inventory Difference (ID) values for special nuclear material (SNM). The NRC policy of "always correct" by utilizing all bias corrections will be continued except for SNM involving uranium with an enrichment less than 6%.

For low enriched uranium of enrichment less than 6% in the isotope U-235, each bias correction greater than its associated uncertainty at the 95% confidence level must be included in the reported ID value. Each such correction shall be considered to be statistically significant and all affected items and associated records shall be corrected. The number of significant figures in each bias correction shall be consistent with the number of significant figures in the original value.

For plutonium and uranium of enrichment 6% or greater in the isotope U-235, all bias corrections must be included in the reported ID value. This includes insignificant bias corrections as well as statistically significant corrections which are to be made to the individual items and associated records. Corrections greater than the associated uncertainty at the 95% confidence level are considered to be statistically significant. It should be noted that the insignificant and significant bias corrections need to be applied to all SNM values, independent of which terms in the ID expression of 10 CFR 70.51(a)(6) that the values fall under; i.e., Beginning Inventory (BI), Ending Inventory, Additions to Inventory, and Removals. This implies that bias correction information from prior periods must be maintained and accurately tracked so that it can be properly applied to SNM which is listed under terms of the ID expression, such as BI. It is our understanding that some licensees have not been properly handling and applying insignificant bias corrections with respect to the BI term. The effects of rounding, proper number of significant figures, and the use of de minimis values need to be considered when making bias corrections. The NRC Licensing Staff believes these aspects should be evaluated on a case-by-case basis.

	angenetiste i serveritet i geragger uppen og e hanstadt i serveritette at som det forske standist.			i	[1
၀နင္းဝႊနဲ		·					
DATE			· · · · · · · · · · · · · · · · · · ·				
0							·····
NDC RODA	SIR UD/ROINROM	0240	OFFICIAL	PECOPDC	OPY	순 U.S	.GPO 1983-400-2

We request that you examine your bias correction procedures as well as appropriate sections of your Fundamental Nuclear Material Control Plan. You should be prepared to discuss any deviations from the above stated positions by December 3, 1984. Licensing staff is in the process of reviewing and evaluating your bias correction methodology and will contact you during the first week in December 1984.

Sincerely,

Original signed by Willard B. Brown

Willard B. Brown, Chief Fuel Facility Safeguards Licensing Branch Division of Safeguards, NMSS

	· · · · · · · · · · · · · · · · · · ·		
NRC FORM	318 (10/80) NR	CM 0240	

SG

Ũ

WBBrown

/84

OFFICE

DATE

SURNAME

🛧 U.S. GPO 1983-400-24

List of Addressees

Babcock and Wilcox Company Naval Nuclear Fuel Division ATTN: Mr. N. Regan, Nuclear Safety and Licensing Officer P. O. Box 785 Lynchburg, VA 24505

Babcock and Wilcox Company Commercial Nuclear Fuel Plant ATTN: Mr. J. T. Ford, Manager Materials Control P. O. Box 800 Lynchburg, VA 24505

Combustion Engineering, Inc. ATTN: Mr. H. Eskridge, Supervisor Nuclear Licensing Safety and Accountability Route 21-A Hematite, MO 63047

Combustion Engineering, Inc. Nuclear Power Systems AITN: Mr. H. B. Lichtenberger Vice President - Manufacturing 1000 Prospect Hill Road Windsor, CT 06095

Exxon Nuclear Company, Inc. ATTN: Mr. R. A. Schneider Staff Specialist, Safeguards 2101 Horn Rapids Road P. O. Box 130 Richland, WA 99352

 GA Technologies Nuclear Materials Control Division ATTN: Mr. William R. Mowry Licensing Administrator
P. O. Box 85608 San Diego, CA 92138

General Electric Company ATTN: Mr. C. Vaughan, Manager Licensing and Nuclear Materials Management Mail Stop J-26 P. U. Box 780 Wilmington, NC 28402

Nuclear Fuel Services, Inc. ATTN: Mr. K. D. Hensley, Manager Licensing and Safeguards Erwin, TN 37650 Rockwell International Energy Systems Group ATTN Dr. E. Remley, Manager Health, Safety and Radiation Services 8900 DeSoto Avenue Canoga Park, CA 91304 United Nuclear Corporation ATTN: Mr. William F. Kirk, Manager Nuclear and Industrial Safety 67 Sandy Desert Road Uncasville, CT 06382 Union Carbide Subsidiary B. Inc. (Company B) Sterling Forest Research Center ATTN: Mr. J. J. McGovern Business Manager, Radiochemicals P. O. Box 324 Tuxedo, NY 10987 Westinghouse Electric Corporation Nuclear Fuel Division

ATTN: Mr. C. F. Sanders, Manager Nuclear Materials Management Drawer R Columbia, SC 29250