

40-7102



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

December 10, 1999

Mr. David R. Smith  
Radiation Safety Officer  
Shieldalloy Metallurgical Corporation  
P.O. Box 768  
Newfield, New Jersey 08344

SUBJECT: AMENDMENT REQUEST FOR EXEMPTION FROM DERIVED AIR  
CONCENTRATION AND ANNUAL LIMIT ON INTAKE FOR THORIUM  
AND URANIUM DATED SEPTEMBER 9, 1999 (TAC NO. L31255)

Dear Mr. Smith:

In accordance with your application dated September 9, 1999, and pursuant to Part 40 to Title 10 of the Code of Federal Regulations, Materials License SMB-743 is hereby amended to grant your request to change the Derived Air Concentration (DAC) and Annual Limit on Intake (ALI) for Uranium and Thorium to reflect current values calculated using the new internal dosimetry models as described in ICRP 68.

In granting the exemption to 10 CFR 20.1201(d), we have determined, in accordance with 10 CFR 40.14(a), that the exemption is authorized by law, will not endanger life or property or the common defense and security and is otherwise in the public interest.

Accordingly, Condition 10 has been revised to include the date of September 9, 1999. In addition, Condition 12 has been revised and a new Condition 17 has been added, and reads as follows:

- Condition 12 Notwithstanding the Derived Air Concentration (DAC) and Annual Limit on Intake (ALI) listed in Appendix B to 10 CFR Part 20, the licensee may use adjusted DAC values for thorium of  $1.9 \text{ E-}11$  microcuries ( $\mu\text{Ci}$ ) per milliliter and for uranium of  $8.4 \text{ E-}11$   $\mu\text{Ci}$  per milliliter and adjusted ALI values for thorium of  $0.047$   $\mu\text{Ci}$  and for uranium of  $0.2$   $\mu\text{Ci}$ .
- Condition 17 If the licensee uses respiratory protection equipment to limit intakes pursuant to 10 CFR 20.1702, the licensee shall perform bioassays to evaluate actual intakes at intervals not to exceed twelve months. Whenever an individual will no longer use respiratory protection equipment, the licensee shall perform a bioassay to evaluate the actual intake during the period of respirator use.

All other conditions of this license shall remain the same.

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PON APPROX 0400 7102

David R. Smith

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Enclosed are copies of the amended Materials License SMB-743 and the Safety Evaluation Report, which includes the Categorical Exclusion.

If you have any questions regarding this matter, please contact Ms. Julie Olivier of my staff at (301) 415-7292 or by e-mail at JAO@nrc.gov.

Sincerely,



Michael F. Weber, Director  
Division of Fuel Cycle Safety  
and Safeguards, NMSS

Docket        40-7102  
License        SMB-743  
Amendment    3

Enclosures: 1. Materials License SMB-743  
              2. Safety Evaluation Report

David R. Smith

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If you have any questions regarding this matter, please contact Ms. Julie Olivier of my staff at (301) 415-7292 or by e-mail at JAO@nrc.gov.

Sincerely,

Original signed by:

Michael F. Weber, Director  
Division of Fuel Cycle Safety  
and Safeguards, NMSS

Docket 40-7102  
License SMB-743  
Amendment 3

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