

November 21, 1994

Mr. C. Scott Eves
Vice President, Environmental Services
Shieldalloy Metallurgical Corporation
12 West Boulevard
P.O. Box 768
Newfield, New Jersey 08344

SUBJECT: LICENSE RENEWAL - REQUEST FOR ADDITIONAL INFORMATION
(TAC NO. L21474)

Dear Mr. Eves:

This refers to your revised application dated June 2, 1992, requesting renewal of SMB-743. Our review of your application has identified additional information that is needed for completion of the Nuclear Regulatory Commission's environmental assessment (EA) for the Shieldalloy Metallurgical Corporation (SMC) facility in Newfield, New Jersey. The additional information, specified in the enclosure, should be provided by December 16, 1994. If any of the information requested has been provided in previous submittals, please reference the submittal and cite the location of the information in the submittal. Please reference the above TAC No. in future correspondence related to this request.

If you have any questions, please call me at 301-415-8106.

Sincerely,

Original signed by:

Gary C. Comfort, Jr.
Licensing Section 2
Licensing Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

Docket 40-7102
License SMB-743

Enclosure: As stated

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Request for Additional Information
Application Dated June 2, 1992
Shieldalloy Metallurgical Corporation
Docket 40-7102

1. Provide the name and location of the providers of the pyrochlore ore used in the production of FeCb. List transportation methods and the monthly average of shipments to ship the ore from the provider to the SMC facility.
2. List the type of records and reports that are maintained on the receipt, storage, and disposal of radioactive materials associated with the FeCb process. Include brief descriptions of each type of record.
3. Provide an aerial photograph of the SMC facility that may also be used to assist in surrounding land use discussions.
4. Provide a copy of contingency plans that may be used in responding to any emergency conditions which could be triggered by upset conditions from the FeCb process.
5. Provide general information on other types (non-FeCb) of processing that occur at the Newfield facility for a general background discussion.
6. Provide average energy and utility consumption figures for the SMC facility, as related to the FeCb process (estimates are acceptable).
7. Provide an updated map of the slag storage yard showing current locations of FeCb slag and baghouse dust, as well as other segregated piles in the storage yard. Include designations of berms currently in place.
8. Provide copies of Standard Operating Procedures (SOPs) for the radiation protection program. It is NRC's understanding that there are approximately 19 SOPs which are or will be in place.
9. Assuming operation until the end of year 2000, provide possession limit requirements for uranium and thorium. What is the estimated volume and footprint of materials expected to be stored in the slag storage yard at this point (an estimate using an updated figure from question 7 is acceptable)?

10. Provide references (or location in documents which have been previously provided to NRC) that contain the latest sampling and/or monitoring results for radiological concentrations (including location and results of maximum off-site results, if any) of soil, air, surface water, and ground water and the maximum external gamma exposure rates at the fence line and on contact with the slag piles. In particular, include soil and water measurement data of radionuclide contamination along the Hudson's Branch to Weymouth Road. If the referenced data is dated, provide descriptions of any changes at the site which may alter interpretations of the data (e.g., a new chimney has been placed in D-111 since 1988 ORAU air effluent measurements, any further cleanup since a data set was provided, etc.) or provide new sampling data.
11. It is NRC's understanding that radon monitoring is to begin in December 1994. Please provide results of this testing as soon as it becomes available, particularly for the slag and dust piles and at the site perimeter.
12. Provide the following information regarding the D-111 baghouses:
 - a) The number of bags in each baghouse.
 - b) Dust capacity (in kg) of each baghouse and storage silo.
 - c) Average number of trips each month made to empty the baghouse.
 - d) Capacity of truck transporting baghouse dust to slag storage yard.
 - e) Typical failure mode for each baghouse.
 - f) Average and expected maximum number of bags that may fail over a given time period.
 - g) Describe how failures are detected.
 - h) How much time passes between bag failure detection and its replacement?
 - i) Estimate the amount of throughput of dust during a failure (both average and expected maximum).
13. Review and provide any changes or updates to your renewal application since its last submittance.