

TO : File, 19-1398-29 DATE: May 25, 1964  
FROM : *W-H. Ray* W. H. Ray Irradiated Fuels Branch  
Division of Materials Licensing  
SUBJECT: MAY 20, 1964 MEETING WITH COCHRAN AND KELLER OF MARTIN-MARIETTA CORPORATION

Joseph S. Cochran, Quehanna Plant Manager and Charles W. Keller, Licensing Representative, of the Martin-Marietta Corporation conferred with the writer on May 20, 1964 regarding our review of MND-3137, Martin's application for renewal of Byproduct License 19-1398-29. Prior to the discussions regarding the renewal application, a couple of matters were discussed relating to the amendment application dated May 11, 1964, to authorize rehabilitation of Cells 1 and 2. (See 5-21-64 memorandum to File 19-1398-29, Subject: Supplemental Info. Re. Cells 1 and 2 Cleanout).

The writer discussed with the visitors the 40 items (see manuscript notes dated 5-11-64 through 5-14-64) which he had noted upon his initial perusal of MND-3137. Most of these related to discrepancies between text and figures, although there were a few paragraphs which were uninterpretable. Mr. Cochran made notes in his copy of MND-3137, and is expected to submit replacement sheets for MND-3137 correcting the discrepancies, clarifying the obscure statements, and supplying supplementary information.

Mr. Cochran indicated that he was preparing considerable rewrite of Chapter 12, regarding Safety Analyses.

A few subjects were brought up in addition to the 40 items in the manuscript notes. Additional information is to be supplied regarding these.

A request was made for more details and an explanation of the ventilation to be provided through the sampling box and the shipping cask cupola in the Isolation Room. Cochran was eager to send a description of the sample taking device. I also requested more detailed drawings and information regarding the Stationary Overhead Transfer System construction.

We had discussions regarding the classified reagents, and I suggested that information be presented regarding the corrosion to be expected in encapsulations when some of these reagents are employed. This lead to an indication that new encapsulation materials and shapes were to be developed. Supplemental information will be sent in to incorporate in MND-3137 to provide for some development work under the license, in addition to routine manufacture.

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Cochran indicated that the application is to be revised to request the employment of 100 kilocuries of Sr-90 in the process box at one time (4 times the past quantity authorized for processing at one time).

When queried about liquid level detection in the vacuum surge tank T-40, and the possibility of its flooding through to the vacuum pump, Cochran explained that in addition to T-40 an additional surge tank of about the same (50 liters) volume will be located in tandem just ahead of the vacuum pump. Liquid which might be pulled through both these tanks would be expelled by the vacuum pump on the cell floor, where its relatively small volume would be promptly dried by the cell ventilation. However, Cochran felt sure that such suck through would not occur because the loss of even a small fraction of 50 liters of liquid from the processing inventory would be obviously apparent and lead to draining of the vacuum surge tank in an effort to locate the lost liquid. Also, T-40 will be drained routinely on a monthly basis. Cochran sketched certain traps and connection arrangements in the header leading to the vacuum surge tank which he believed would make unlikely the carrying of liquid through vent lines into the tank.

I indicated that we were pleased with the presentation of job descriptions and the qualification requirements for each position, as a departure from the previous practice of listing the training and experience of each individual employee. I also indicated that we did not expect to require more detailed technical specifications of the process, in view of the understanding we have acquired of the plant and its successful operating record.

Regarding the issuance of the renewal license, I pointed out that with the decommissioning of equipment in Cells 1 and 2, the present license would no longer authorize processing in equipment which will be removed. Thus, although the present license will continue in force until action is taken on the renewal application, the use of the new equipment in Cell 4 will not be authorized until the renewal is approved.

Answering the Martin representatives' inquiry regarding the chronology of application processing, I indicated that if the revised material to be submitted proved to be satisfactory, that perhaps within a couple of weeks after its receipt, we would be able to issue the renewal license.



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