

NUMEC

Nuclear Materials and Equipment Corporation

Regulatory

File Cy.

Apollo, Pennsylvania 15613

Telephone 412-842-0111

Cable NUMEC

May 11, 1971

50-310



Dr. Peter A. Morris
Director of Regulation
Division of Reactor Licensing
Washington, D.C. 20545

Subject: Facility License Number R-72

Dear Dr. Morris:

This confirms a recent telecon between Mr. Brauner and the writer concerning the termination of Facility License Number R-72.

- (1) NUMEC hereby authorizes the termination of the R-72 license.
- (2) The strontium-90 contamination present in the liquid waste system is now licensed under Byproduct License Number 37-12307-02.
- (3) The two safety shims that were discussed in the attached letter are encased in concrete in a 55 gallon drum. This drum will be additionally shielded and shipped for burial in September, 1971.

If you have any questions, please contact me.

Very truly yours,

Edward K. Reitler
Edward K. Reitler, Manager
Health, Safety, and Licensing

EKR/dld

Attachment



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PDR FCIA
BRENNAN90-538 PDR

A subsidiary of Atlantic Richfield Company



March 23, 1971

Regulatory

File Cy.

Mr. Al Brauner
Division of Reactor Licensing
United States Atomic Energy Commission
Washington, D. C. 20545

Received w/ Ltr Dated 5-11-71

Dear Mr. Brauner:

The following information concerning the contamination of the facility, the disposition of the remaining inventory of reactor components, and the presence of records pursuant to the R-72 License is offered to supplement and update the letter of March 5, 1971, to Commission pursuant to Docket No. 50-310.

Under Byproduct License 37-12307-02, the ARPC is divided into two areas with respect to contamination; i.e. normally clean areas where contamination levels are maintained well below 500 dpm/100 cm² removable beta and contaminated areas where the limits are 100 dpm/100 cm² removable alpha, 5,000 cpm/60 cm² direct (fixed) alpha, 5,000 dpm/100 cm² removable beta, and 5 mRad at 2.5 cm direct (fixed) beta. Strontium-90 and cobalt-60 constitute virtually all of the contamination found in contaminated areas. The Strontium-90 activity is residual in the duct-work of the hot cells and in the low-level portion of the liquid waste system from the operations of the Martin-Marietta Company. No evidence of mixed fission product contamination nor alpha contamination has been found.

Thirty-five reactor activated assemblies were shipped to Kentucky for burial by Nuclear Engineering Company, Incorporated on March 19, 1971. Two safety shims encased in concrete within a 55 gallon drum were retained and stored due to an external radiation level in excess of 200 mR/hr. This 55 gallon drum will be additionally shielded and shipped at a later date.

No records have been found which relate either radiation/contamination levels or personnel-exposures during Curtiss-Wright Reactor Operations. The records of radiation/contamination present in facility at the time of transfer to NUMEC are the earliest records which remain.

If additional information is desired, please feel free to contact either the writer or Mr. Reitler at (814) 263-4871 and (412) 842-0111, respectively.

Very truly yours,

ARCO RADIATION PROCESS CENTER

HJB

Henry J. Bicehouse, Supervisor
Health and Safety

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