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OCT 2 8 1970

Dr. Dale R. Lindsay
Associate Commissioner for Science
Food and Drug Administration
Room 1457, Parklawn Building
5600 Fishers Lane
Rockville, Maryland 20852

THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

Dear Dr. Lindsay:

This is in further reference to the Midland project in which Consumers Power Company proposes to deliver steam produced by the nuclear reactor to the Dow Chemical Company for manufacturing processes.

In the early design of the system which was discussed in my letter to you on June 10, 1970, the steam was to be taken from the secondary side of the main steam generators and delivered directly to the Dow manufacturing complex. Consumers Power Company now proposes in amendments 15 through 18 to its application (enclosed) to pass the secondary steam through an additional set of heat exchangers to produce steam in a tertiary system. This tertiary steam will be delivered to Dow where it will be used for mechanical and thermal energy and for manufacturing chemical products.

Consumers proposes to install appropriate monitoring and analytical facilities to determine whether radioactivity is being added to the tertiary steam by leakage through the two preceding heat exchangers. If detectable leakage occurs, corrective action will be taken at the reactor plant, or delivery of steam to Dow will be terminated. The detailed procedures for monitoring and control of the tertiary system will be developed during the construction phase of the reactor operation.

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Dr. Dale R. Lindsay

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Consumers states that the tertiary steam will contain essentially no more radioactivity than the treated (demineralized and/or filtered) make-up water from Lake Huron. Under these conditions Dow would not be required to obtain an AEC license in order to receive, possess or use the steam delivered by Consumers. Appropriate provisions will be incorporated in the AEC license to Consumers for operation of the nuclear power plant to assure that these conditions are maintained.

If at any time these conditions were not met, Consumers Power Company would be in violation of the license conditions and thus, subject to appropriate enforcement action. Similarly, Dow Chemical would be in violation of Commission regulations which prohibit the use of reactor-produced radioactive material in products intended for human consumption and would also be subject to appropriate enforcement action.

The AEC regulatory staff and the Advisory Committee on Reactor Safeguards (ACRS) have now completed their review of Consumers' reactor construction permit application. Enclosed for your information is an ACRS supplemental Report on the subject. We would be pleased to have your comments regarding the compatibility of this project as it now stands with such functions as the FDA performs with respect to the project.

Sincerely,

Clifford K. Beck

Clifford K. Beck
Deputy Director of Regulation

NOTE: See previous copy for concurrence.

Enclosures:

- 1. Amendments 15 thru 18
- 2. ACRS Supplemental Report

bcc: Mr. Gregg, HEW

Distribution

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CKBeck	HShapar
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Dr. Dale R. Lindsay

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If at any time these conditions were not met, Consumers Power Company would be in violation of the license conditions and thus, subject to appropriate enforcement action. Similarly, Dow Chemical would be in violation of Commission regulations which prohibit the ~~production~~ use of reactor-produced radioactive material in products intended for human consumption and would also be subject to appropriate enforcement action.

The AEC regulatory staff and the Advisory Committee on Reactor Safeguards (ACRS) have now completed their review of Consumers' reactor construction permit application. Enclosed for your information is an ACRS supplemental Report on the subject. We would be pleased to have your comments regarding the compatibility of this project as it now stands with such functions as the FDA performs with respect to the project.

Sincerely,

Original signed by G. K. Beck

Clifford K. Beck
Deputy Director of Regulation

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Dr. Dale R. Lindsay

- 2 -

Consumers states that the tertiary steam will contain essentially no more radioactivity than the treated (demineralized and/or filtered) make-up water from Lake Huron. Under these conditions Dow would not be required to obtain an AEC license in order to receive, possess or use the steam delivered by Consumers. Appropriate provisions will be incorporated in the AEC license to Consumers for operation of the nuclear power plant to assure that these conditions are maintained.

Should any of the conditions defined above not be observed or should the steam not meet specifications with respect to radioactivity content, Consumers would be in violation of its license and appropriate enforcement action would be taken. Further, Dow would be in violation of the Atomic Energy Act of 1954, as amended, and AEC regulations, and appropriate action would be taken to terminate Dow's use of such steam.

The AEC regulatory staff and the Advisory Committee on Reactor Safeguards (ACRS) have now completed their review of Consumers' reactor construction permit application. Enclosed for your information is an ACRS Supplemental Report on the subject. We would be pleased to have your comments regarding the compatibility of this project as it now stands with such functions as the FDA performs with respect to the project.

Sincerely,

Clifford K. Beck
Deputy Director of Regulation

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Dr. Dale R. Lindsay - 2 -

Consumers states that the tertiary steam will contain essentially no more radioactivity than the treated (demineralized and/or filtered) make-up water from Lake Huron. Recycling tertiary steam condensate may result in some slight concentration of naturally occurring radioactivity in the tertiary system but is not expected to affect the validity of the comparison between steam and make-up water radioactivity as a sensitive indication of leakage from the secondary system. Under these conditions Dow would not be required to obtain an AEC license in order to receive, possess or use the steam delivered by Consumers. Appropriate provisions will be incorporated in the AEC license to Consumers for operation of the nuclear power plant to assure that these conditions are maintained.

The AEC regulatory staff and the Advisory Committee on Reactor Safeguards (ACRS) have now completed their review of Consumers' reactor construction permit application. Enclosed for your information is an ACRS Supplemental Report on the subject. We would be pleased to have your comments regarding the compatibility of this project as it now stands with such functions as the FDA performs with respect to the project.

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Clifford K. Beck
Deputy Director of Regulation

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