

OCT 12 1984

DMB 016

Docket No. 50-346

DISTRIBUTION

Docket File

NRC-PDR

L PDR

ORB#4 Rdg

DEisenhut

OELD

EJordan

JNGrace

ACRS-10

JPartlow

EBlackwood

HOrnstein

ADe Agazio

RIngram

Gray File

Mr. Richard P. Crouse
Vice President, Nuclear
Toledo Edison Company
Edison Plaza - Stop 712
300 Madison Avenue
Toledo, Ohio 43652

Dear Mr. Crouse:

SUBJECT: CYCLE 5 CORE RELOAD ANALYSIS; REQUEST FOR ADDITIONAL INFORMATION

On October 14, 1984, a telephone conference call was held with representatives of the NRC staff, Toledo Edison Company, and Babcock and Wilcox Company to discuss certain additional information which we require to complete our review of the Cycle 5 core reload analysis and associated Technical Specification changes. We indicated that the required information is to be submitted to the NRC in writing. The enclosure to this letter indicates the information to be provided.

This information submittal may modify your original application and may require the publication of a second notice in the Federal Register, pursuant to 10 CFR 50.91. Therefore, please provide your response no later than October 26, 1984, to permit sufficient time to publish the 30-day notice, if required.

The information requested in this letter affects fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

*ORIGINAL SIGNED BY

JOHN F. STOLZ*

John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

ORB#4:DL *all* ORB#4:DL
ADe Agazio;cf JStolz
10/12/84 10/11/84

Toledo Edison Company

cc w/enclosure(s):

Mr. Donald H. Hauser, Esq.
The Cleveland Electric
Illuminating Company
P. O. Box 5000
Cleveland, Ohio 44101

U.S. Nuclear Regulatory Commission
Resident Inspector's Office
5503 N. State Route 2
Oak Harbor, Ohio 43449

Gerald Charnoff, Esq.
Shaw, Pittman, Potts
and Trowbridge
1800 M Street, N.W.
Washington, D. C. 20036

Paul M. Smart, Esq.
Fuller & Henry
300 Madison Avenue
P. O. Box 2088
Toledo, Ohio 43603

Regional Radiation Representative
EPA Region V
230 South Dearborn Street
Chicago, Illinois 60604

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Generation Division
7910 Woodmont Avenue, Suite 220
Bethesda, Maryland 20814

Ohio Department of Health
ATTN: Radiological Health
Program Director
P. O. Box 118
Columbus, Ohio 43216

President, Board of County
Commissioners of Ottawa County
Port Clinton, Ohio 43452

Attorney General
Department of Attorney General
30 East Broad Street
Columbus, Ohio 43215

James W. Harris, Director (Addressee Only)
Division of Power Generation
Ohio Department of Industrial Relations
2323 West 5th Avenue
P. O. Box 825
Columbus, Ohio 43216

Harold Kohn, Staff Scientist
Power Siting Commission
361 East Broad Street
Columbus, Ohio 43216

Mr. James G. Keppler, Regional Administrator
U. S. Nuclear Regulatory Commission, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Mr. Robert F. Peters
Manager, Nuclear Licensing
Toledo Edison Company
Edison Plaza
300 Madison Avenue
Toledo, Ohio 43603

QUESTIONS CONCERNING DAVIS-BESSE CYCLE 5 RELOAD

1. In a letter from T. C. Baldwin of B&W to Dale Powers of NRC dated January 8, 1983, concerning alternate vendor's fuel pellets in reload batches, it was stated that 8 test rods with alternate vendor's fuel pellets are being used in the ANO-1 cycle #6. This letter also stated that B&W would provide a written description and assurance of maintenance for this fuel of material properties used in core performance codes.

In the letter from J. H. Taylor of B&W to J. F. Stolz of NRC dated September 17, 1984 it was stated that fuel pellets manufactured by G.E. would be used in DB-1, cycle 5 and that:

1. There would be no impact on models or methods used in evaluating the safety of the reactor, and
2. The material properties and dimensional requirements were established by B&W.

It is not fully clear whether B&W intends to continue a Q/A check on this fuel from G.E. or whether the responsibility rests on G.E. Please clarify.

2. In the cycle 5 reload report (B&W - 1827) in Section 4.1, Fuel Assembly Mechanical Design (Page 4-1), a description is given for the new Mark-85 upper end fitting modifications (spider and spring). Is this a total new end fitting? Is the surveillance on the springs going on now (old design) and, if so, will the surveillance continue for the new design?
3. In the previous cycle 4 for DB-1, the SER stated, in regards to the thermal behavior of the fuel, that the TAFY-3 and TACO-2 codes were used and NRC raised a concern that only the newer TACO series codes were capable of correctly calculating fission gas release (and therefore rod pressure) at high burnups. B&W responded that fuel rod pressure predicted by TACO 1 is lower than that predicted by TAFY-3 for fuel rod exposures of up to 42 MWd/kgU and that the expected exposure of any fuel rod during cycle 4 is less than this amount. What is the comparable situation for Cycle 5?
4. Give a comparison of the flux - Δ flux/flow trip setpoints for Cycle 4 and 5.
5. For cycle 4 it was stated that the most recent reactor coolant flow rate measured was 387,200 gpm. What is the most current measured reactor coolant flow rate?