TOLEDO EDISON

RICHARD P. CROUSE
Vice President
Nuclear
(419) 259-5221

Docket No. 50-346

License No. NPF-3

Serial No. 917

March 17, 1983

Mr. John F. Stoltz, Chief
Operating Reactors Branch No. 4
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Stolz:

This is in response to your letter dated February 1, 1983, relating to the Decay Heat Removal Capability Redundancy. You have requested Toledo Edison to provide you with an explanation on how the decay heat removal redundancy is assured in mode 3 operation. Attachment I provides Toledo Edison's response to your letter as relating to the Davis-Besse Nuclear Power Station Unit 1.

Very truly yours,

RPC:FYC:HA

cc: DB-1 NRC Resident Inspector

A001

ATTACHMENT 1 TO TOLEDO EDISON LETTER TO THE NRC
ON DECAY HEAT REMOVAL CAPABILITY REDUNDANCY

Concern:
Toledo Edison Company submitted an application, Item 3, Toledo Edison Company letter dated December 26, 1980 (No. 669), to amend the Davis-Besse Facility Operating License in response to our request. We have reviewed the application and find that your proposed changes to the Technical Specifications follow our model Technical Specifications closely for all modes of operation except for mode 3.

Your proposed Specification 3.4.1.2, applicable in modes 3, 4, and 5, would provide for decay heat removal redundancy by requiring at least two of the following loops to be operable:

1. Reactor Coolant Loop 1 and associated steam generator
2. Reactor Coolant Loop 2 and associated steam generator
3. Decay Heat Removal Loop 1
4. Decay Heat Removal Loop 2

It is further specified that at least one of the above loops must be in operation.

As presently proposed, Specification 3.4.1.2 would permit operation in mode 3 with one reactor coolant loop and associated steam generator in operation and the remaining reactor coolant loop inoperable provided at least one decay heat removal loop is operable. In mode 3, RCS pressure and temperature can far exceed the design conditions of the Decay Heat Removal System, therefore, Specification 3.4.1.2 does not appear to provide for the required redundancy for the reactor coolant loop operation when the unit is in mode 3. Please submit a modification to your proposed amendment to assure the required redundancy, or explain how redundancy, when in mode 3, is assured by your current proposal.

Response:
Toledo Edison Company has reviewed your concern that in mode 3 Reactor Coolant System (RCS) pressure and temperature can exceed the design conditions of the Decay Heat Removal System. We concur with your comment and will submit an application for your approval to amend the Technical Specification for Davis-Besse Unit 1, so that the applicability of Section 3.4.1.2.a will be modes 4 and 5, and in mode 3 when both the RCS pressure is less than 330 psig and RCS temperature is less than 350°F.

Tech. Spec. Section 3.4.5 shall be applicable in modes 1 and 2, and in mode 3 when either RCS pressure is greater than 330 psig or the RCS temperature is greater than 350°F.

Appropriate sections of the Technical Specification will be revised to reflect this change by May 15, 1983.

sc e/8