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OCT 29 1982

Docket No.: 50-341

Mr. Harry Tauber
 Engineering & Construction
 Detroit Edison Company
 2000 Second Avenue
 Detroit, Michigan 48226

Dear Mr. Tauber:

Subject: Independent Design Verification Program for Fermi 2

On July 15, 1982, we met with you and other representatives of your company to hear and discuss the Detroit Edison Company's quality assurance program and to determine whether additional assurance is needed in light of recent design deficiencies found at other facilities. In that meeting you described the quality assurance and quality control programs and organizations that have been used in the Fermi 2 design and construction. You also described several recent review programs, including a design control review of the core spray system.

Your presentation was well received. However, we have concluded that further independent design review is needed at Fermi 2. Although Detroit Edison Company management has extensive nuclear and engineering experience and has taken a keen interest in the building and operation of Fermi 2, there is a potential for errors in communicating and implementing requirements and specifications due to the large number of changes in personnel and contractors since design and construction began in 1969. One way to provide requisite assurance of the adequacy of design control would be by an independent design verification program for a part of your facility that was designed and built by many contractors over a long time span. For example, core cooling equipment needed for safe plant shutdown and cooldown for a seismically induced loss of offsite power, as identified in your Supplementary Seismic Evaluation Report, may be suitable for such a program. This equipment would include the reactor safety relief valves (SRV) and piping, reactor core isolation cooling (RCIC) system operating in the torus suction mode, one division of the residual heat removal (RHR) system operating in the suppression pool cooling mode and in the shutdown cooling mode, one division of the RHR service water system, and one division of auxiliary systems. All aspects of design modifications could be considered, e.g., support of the RHR piping attachment to the torus, modification of RHR pipe supports and snubbers, and modifications resulting from the NRR staff review as identified in its Safety Evaluation Report. Mechanical, structural, electrical and instrumentation aspects of the systems could be reviewed.

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Mr. Harry Tauber

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Please provide a proposal for an independent design verification program, including scope of work, degree of independence of persons performing the work, and schedule for completion of the work. Your program should be completed two months prior to fuel loading to allow time for staff review prior to issuance of an operating license.

Sincerely,

Original signed by
Darrell G. Eisenhut

Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

cc: See next page

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