

Edward Hines  
Assistant Vice President  
Quality Assurance

Detroit  
Edison

2000 Second Avenue  
Detroit, Michigan 48226  
(313) 237-9657

50-341

November 4, 1980  
EF2-49,830

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

Subject: 10CFR50.55(e) Item On Cut Reinforcing Bar

Dear Mr. Keppler:

The final report on the Cut Reinforcing Bar problem cannot be submitted to you by November 15, 1980, as scheduled. This additional interim report is to provide you with the current status of the evaluation of this problem.

The item was originally reported to Mr. F.J. Jablonski of NRC-Region III by Messrs. R.W. Barr and W.M. Street of Detroit Edison, on December 27, 1979. At that time it had been determined that cut rebar may have resulted in a reduced floor load capacity in the Reactor Auxiliary Building at the Fermi II site.

Detroit Edison Engineering determined that the scope of the affected area for impinging on the structural integrity was twelve (12) slabs. Their study also indicated that seven of the twelve slabs could be acceptable by derating the original design live load of 400 PSF to 100 to 150 PSF. The acceptability of the five (5) remaining slabs was indeterminate at that time.

Sargent and Lundy Engineering has completed an analysis of the five (5) most critical slabs utilizing detailed field as-built layout diagrams. Their evaluation indicates that rebar cuts have not significantly reduced the capacity of the slabs. The floor load design rating will be met and need not be reduced. Based on this report, Edison Engineering is now re-analysing the other seven (7) slabs to determine if derating the live load is necessary. This has not been completed to date.

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A final report on this item should be submitted to you by March 13, 1981.  
If you have any questions concerning this matter, please contact Mr. H.A.  
Walker, Supervisor - Construction Quality Assurance.

Very truly yours,

*Edward Hines*

EH/HAW/cp

cc: Mr. Victor Stello, Jr., Director ✓  
Office of Inspection and Enforcement  
Division of Reactor Inspection Programs  
U.S. Nuclear Regulatory Commission  
Washington D.C. 20555

Mr. Bruce Little, Resident Inspector  
U.S. Nuclear Regulatory Commission  
Resident Inspectors Office  
6450 North Dixie Highway  
Newport, Michigan 48166