



**GPU Nuclear Corporation**  
Post Office Box 480  
Route 441 South  
Middletown, Pennsylvania 17057-0191  
717 944-7621  
TELEX 84-2386  
Writer's Direct Dial Number:  
(717) 948-8461

December 31, 1987  
4410-87-L-0192/0331P

US Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Dear Sirs:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)  
Operating License No. DPR-73  
Docket No. 50-320  
Handling of Core Bore Equipment Above the Defueling Work Platform

The purpose of this letter is to request NRC approval to modify the lift height limit for installation of the core bore machine on the Defueling Work Platform.

The Core Stratification Sample Acquisition Safety Evaluation Report (SER), Revision 4 submitted via GPU Nuclear letter 4410-86-L-0101 dated June 11, 1986, evaluated the postulated drop of a load of 5000 lbs. onto the work platform. Based on this evaluation, the lift height limit for the 5000 lbs. load was set at elevation 339'-0". The load was postulated to impact the interface platform that is mounted on top of the work platform. The interface platform would then transmit the impact load to the work platform main load bearing beams.

However, due to the incorporation of an underwater tool changer, an 18" high spacer platform will be installed between the work platform and the interface platform (see attached sketch). Note, the footprint for the spacer platform is identical to the interface platform. Thus, the lift height limit must be raised 18" to the 340'-6" elevation to facilitate installation and removal of the core bore machine.

The travel distance that the load will fall to the interface platform for a postulated drop remains the same as previously analyzed. Therefore, the impact energy of 409,000 in-lbs. that the falling object would develop if dropped remains the same as previously analyzed. The impact energy of 559,000 in-lbs. transmitted to the portion of the work platform along the load path over to the interface platform is also still within the allowable limit of 780,000 in-lbs. previously analyzed for the Core Stratification Sample Acquisition SER.

8801120168 871231  
PDR ADOCK 05000320  
P PDR

REC'D W/CHECK  
75 009111

A00/  
1/1

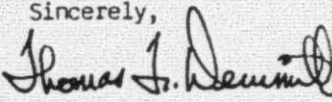
December , 1987  
4410-87-L-0192

The installation and removal procedure for the drill rig and underwater support structure will specify the shortest load path to further reduce the potential consequences of a postulated load drop.

Based on the above discussion, GPU Nuclear believes that the proposed increased lift height limit does not increase the probability or consequence of an accident previously evaluated, create an accident of a different type than previously evaluated, or reduce the margin of safety of any Technical Specification. In addition, this activity does not require a change to the plant's Technical Specifications.

Per the requirements of 10 CFR 170, an application fee of \$150.00 is enclosed.

Sincerely,

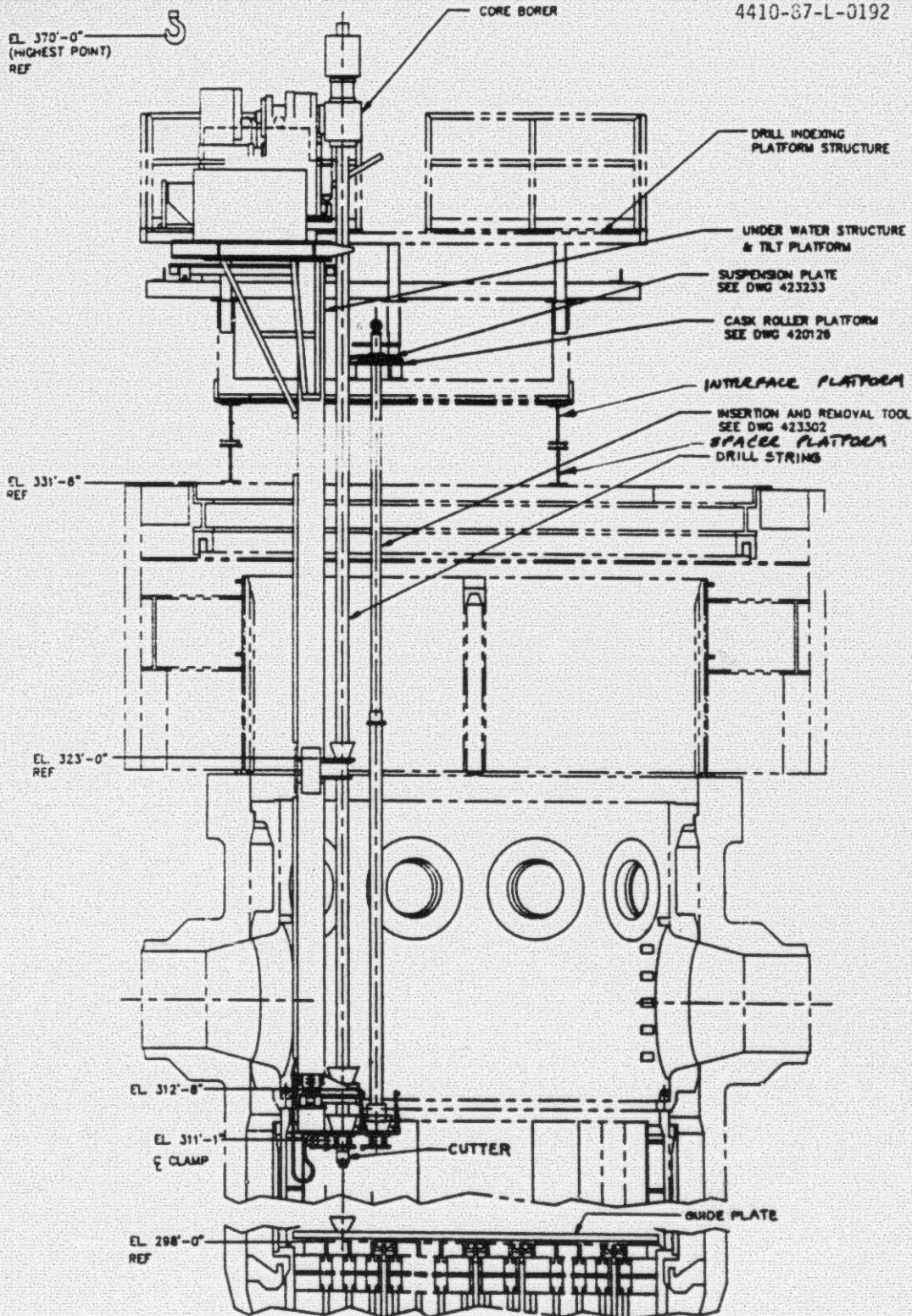
  
for F. R. Standerfer  
Director, TMI-2

CJD/eml

Enclosed: GPU Nuclear Corp. Check No. 009111

cc: Regional Administrator, Region 1 - W. T. Russell  
Director, TMI-2 Cleanup Project Directorate - Dr. W. D. Travers





INSTALLATION