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Department of Advanced Technology

May 13, 1994

Dr. Raman Pichumani
Mail Stop OWFN-7H15
Civil Engineering & Geosciences Branch
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Subject: FIN J-2042, Task No. 1, Deterministic Evaluation of Liquefaction Potential of Foundation Soils, and its Effects, at the Independent Spent Fuel Storage Installation (ISFSI) Pad at Palisades

Dear Dr. Pichumani:

We have completed Task No. 1 of the subject task order and are currently performing Task No. 2.

The level of effort for Task No. 2 was originally estimated to be eight (8) days. This estimate was based on the assumption that BNL would perform simplified analyses to verify the factor of safety against liquefaction and to confirm the stability of the slopes in the vicinity of the pad. Our initial analyses have identified the possibility of liquefaction in a soft soil layer beneath the pad. Although our calculations indicate that this may have a minimal effect on the settlement of the pad, the liquefaction potential may also effect our conclusions with regard to the stability of the slopes. Therefore, further stability analyses of the slopes in both the north-south and east-west directions are required to resolve this issue. These analyses will assess the potential for deep failure surfaces which could intersect the liquefiable layer. We estimate to perform these analyses that an additional eight (8) days of effort will be required to complete Task No. 2.

In summary, based on the above information we request that the cost ceiling of the subject task order be increased from $20,000 to $28,500 to fund the additional estimated level of effort.

We would appreciate your immediate attention to this matter so that we can fully support the public meeting which is scheduled for May 23, 1994.

Sincerely yours,

Charles H. Hofmayer
Deputy Division Head
Engineering Research
and Applications Division

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