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 FACIL: 50-410 Nine Mile Point Nuclear Station, Unit 2, Niagara Moho 05000410  
 AUTH. NAME: LEMPGES, T.E. AUTHOR AFFILIATION: Niagara Mohawk Power Corp.  
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Forwards addl info on handling of heavy loads, per J Singh request during NRC 840827-28 site visit. Encl info will be included in next FSAR amend. Affidavit encl.

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October 3, 1984  
(NMP2L 0183)

Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Schwencer:

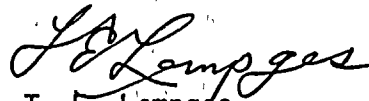
Re: Nine Mile Point Unit 2  
Docket No. 50-410

Enclosed is additional information requested by Mr. J. Singh on the handling of heavy loads for Nine Mile Point Unit 2.

This information was requested during the August 27-28, 1984 Nuclear Regulatory Commission site visit.

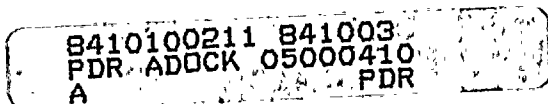
The enclosed information will be included in the next Final Safety Analysis Report Amendment.

Very truly yours,



T. E. Lempges  
Vice President  
Nuclear Generation

TEL/DS:ja  
Enclosure



Boo!  
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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ  
الحمد لله رب العالمين  
والصلاة والسلام على  
سيدنا محمد وآله الطيبين  
الطاهرين

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ  
الحمد لله رب العالمين  
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سيدنا محمد وآله الطيبين  
الطاهرين

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ  
الحمد لله رب العالمين  
والصلاة والسلام على  
سيدنا محمد وآله الطيبين  
الطاهرين

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

In the Matter of )  
Niagara Mohawk Power Corporation )  
(Nine Mile Point Unit 2) )

Docket No. 50-410

AFFIDAVIT

T. E. Lempges, being duly sworn, states that he is Vice President of Niagara Mohawk Power Corporation; that he is authorized on the part of said Corporation to sign and file with the Nuclear Regulatory Commission the documents attached hereto; and that all such documents are true and correct to the best of his knowledge, information and belief.

T. E. Lempges

Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Oranada, this 3 day of October, 1984.

Janis M. Macro  
Notary Public in and for  
Oranada County, New York

My Commission expires:

JANIS M. MACRO  
Notary Public in the State of New York  
Qualified in Onondaga County No. 4784955  
My Commission Expires March 20, 1985



REQUEST FOR ADDITIONAL INFORMATION  
NINE MILE POINT UNIT 2

410.52

Section 9.1.5 - As a result of recently identified ACRS concerns, provide a response to the following request for information regarding the handling of heavy loads:

- a. Describe the means provided to assure the integrity of the concrete shield plugs lifting eye and any other heavy loads so that they will not fall apart while being handled during refueling should the lifting eye fail or the plug impact other structures.
- b. Alternatively, describe the consequences of failure of the concrete shield plug or other heavy loads during handling. This evaluation should confirm that unacceptable fuel damage or damage to safety related equipment will not occur.

Response

A dual-load-path hoisting system is used for handling all heavy loads. This system includes primary and redundant crane hooks, strong backs, slings and lifting lugs on the load. Each part of the hoisting system has been designed to support a load of at least three times the weight of the item being handled without permanent deformation. In addition, the special lifting device (strong backs and slings) has been static load tested to 150% of rated load, and the lifting lugs on the concrete shield plugs and fuel transfer bridge have been static load tested to 125% of rated load.

The integrity of the concrete shield plugs, lifting lugs and lifting assemblies is assured by the integral design of the plug liners, lifting structures, rebar and concrete. The concrete is completely encased in a reinforced carbon steel liner to which the lifting lugs are welded.

The concrete rebar are welded to the lifting lugs by cadweld sleeves. This design and the aforementioned design requirements of the plug eliminates any possibility of the plug falling apart should the lifting lug fail or the plug impact other structures.

