

71-6698

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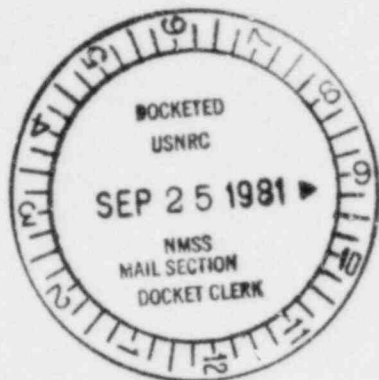
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September 17, 1981

CRJ/81/105/ETS

PDR
Return to
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396-55



Mr. John G. Davis, Director
Office of Nuclear Material Safety
and Safeguards
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

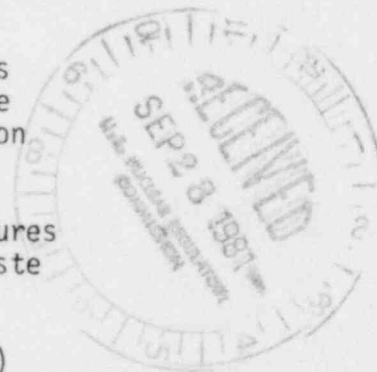
Reference: NRC Certificate of Compliance No. 6698
Docket Number 71-6698

Dear Mr. Davis:

In response to the USNRC's Order to Show Cause dated July 22, 1981, we have performed a series of tests and inspections of the NAC-1D spent fuel shipping cask. The enclosed report, "NAC-1D Surface Contamination Evaluation," summarizes the results of our evaluations to date. We believe the results of this work demonstrate that there is reasonable assurance that the cask will not experience excessive contamination levels in transport.

Our evaluation indicates that:

- (1) The cause of excessive surface contamination is isotopes of Cesium imbedded in the cask surface that can be detected by measuring beta radiation emanating from the surfaces.
- (2) Effective and practical decontamination procedures are available that are compatible with other waste treatment facilities.
- (3) Tests performed to date have verified items (1) and (2) above and that by modifying surface contamination monitoring requirements, future cases of excessive contamination levels will not be experienced.



FEE EXEMPT
Response to Order

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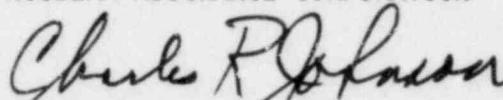
Mr. John G. Davis
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Plans for use of the cask include an initial move from its current location with plastic sheeting covering the cask. After a thorough survey for removable and imbedded contamination at its destination, the cask will be placed in service in its normal transport mode moving spent fuel assemblies approximately 200 miles. During the first five shipments, detailed surveys for removable and imbedded contamination will be made. The cask will be removed from service if any survey indicates excessive surface contamination. Should this occur, the cask will not be placed back in service without concurrence by the USNRC.

On the basis of our investigations and evaluations and with the above stipulations for limited initial service, we request the Order to Show Cause be rescinded.

Sincerely,

NUCLEAR ASSURANCE CORPORATION



Charles R. Johnson
Vice President

Engineering and Transportation Services

CRJ:bam

Enclosure

cc: Mr. Charles E. MacDonald, Chief
Transportation Certification Branch
Division of Fuel Cycle and Material Safety