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 WM File 109.7
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 PDR
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109.7

109.7/CHP/84/21/22

DEC 9 1984
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MEMORANDUM FOR: Leland C. Rouse, Chief
 Advanced Fuel and Spent Fuel
 Licensing Branch
 Division of Fuel Cycle
 and Material Safety

FROM: Lake H. Barrett, Chief
 Engineering Branch
 Division of Waste Management

SUBJECT: SRL PERSPECTIVE ON BOROSILICATE GLASS HIGH-LEVEL WASTE
 EMPLACEMENT IN A REPOSITORY

In response to the memorandum of 13 November 1984 from A. T. Clark, Jr., we would first like to assure you that we share your concerns about the position that DOE and the Savannah River Laboratory appears to be developing with regard to borosilicate glass. We agree that an on-going critical review of the data being generated by SRL is needed as preparation for evaluation of the eventual license application. Our recent efforts to augment our background in this area include:

1. Attendance by essentially our entire WMEG Branch, Materials Section, at the September Workshop at DOE, Germantown, MD.
2. Critical reviews of SRL/P quarterly progress reports as they become available. Copies of two of these are attached.

What we are considering as a follow-up is a program consisting of the following events:

1. Independently assess SRL conclusions in the light of their own data.
2. Identify proponents of contrary viewpoints by workers outside of DOE/SRL, including in-house viewpoints.

WM Record File
 109.7
 WM Project 1
 Docket No.
 PDR ✓
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 (Return to WM, 623-SS)

(*See previous concurrences)

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 PDR WASTE
 WM-1 PDR

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3. Resolve differences in viewpoints through small meetings, or at least define the basis for the differences.
4. Provide comments to DOE addressing any unresolved issues.

The objective of such a program is to provide guidance to DOE in their waste form development work. We will seek to identify what conclusions have been established as facts, what evidence supports them, and what assumptions and limitations are involved.

We welcome any suggestions you may have with respect to possible other NRC efforts to assess this technology. Please contact T. Johnson at x74088 or C. Peterson at x74546, if you have have questions.

Original signed by
Lake H. Barrett, Chief
Engineering Branch
Division of Waste Management

~~Enclosure:~~
~~As stated~~

(*See previous concurrences)

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MEMORANDUM FOR: Leland C. Rouse, Chief
Advanced Fuel and Spent Fuel
Licensing Branch
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and Material Safety

FROM: Lake H. Barrett, Chief
Engineering Branch
Division of Waste Management

SUBJECT: SRL PERSPECTIVE ON BOROSILICATE GLASS HIGH-LEVEL WASTE
EMPLACEMENT IN A REPOSITORY

In response to the memorandum of 13 November 1984 from A.T. Clark, Jr., we would first like to assure you that we share your concerns about the position that DOE and the Savannah River Laboratory appears to be developing with regard to borosilicate glass. We agree that an on-going critical review of the data being generated by SRL is needed as preparation for evaluation of the eventual license application. Our recent efforts to augment our background in this area include:

1. Attendance by essentially our entire WMEG Branch at the September Workshop at DOE, Germantown, MD.
2. Critical reviews of SRL/P quarterly progress reports as they become available. Copies of two of these are attached.

What we are considering as a follow-up is a program consisting of the following events:

1. Independently assess SRL conclusions in the light of their own data.
2. Identify proponents of contrary viewpoints by workers outside of DOE/SRL, including in-house viewpoints.

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3. Resolve differences in viewpoints through small meetings, or at least define the basis for the differences.
4. Publish one or more working papers on our assessment of the borosilicate technology.

The objective of such a program is to provide guidance to DOE in their waste form development work. We will seek to identify what conclusions have been established as facts, what evidence supports them, and what assumptions and limitations are involved.

We welcome any suggestions you may have with respect to possible other NRC efforts to assess this technology. Please contact T. Johnson at x74088 or C. Peterson at x74546, if you have have questions.

Lake H. Barrett, Chief
Engineering Branch
Division of Waste Management

Enclosure:
As stated

OFC	:WMEG	:WMEG	:WMEG	:	:	:	:
NAME	:CHPeterson:gh:TCJohnson	:LBarrett	:	:	:	:	:
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