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UNITED STATES DEPARTMENT OF COMMERCE
National Bureau of Standards
Gaithersburg, Maryland 20899

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July 9, 1986

Mr. Everett A. Wick
Division of Waste Management
Office of Nuclear Materials Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Re: Transmittal of a Report on the Requirements for a Database for NBS
Reviews of HLW Documents

Dear Mr. Wick:

Enclosed are copies of a report titled "An Analysis of the Requirements for a Computer Assisted Database for Reviews and Evaluations on High Level Waste Data." You will recall that this work was initiated under FIN A-4171-5. At that time, we expected that earlier work done at BNL would be endorsed by the NBS, with minor modifications. As the enclosed report indicates, this was not possible, and an NBS analysis of the problem was made to more fully develop the requirements of the database that we propose to use, mainly in conjunction with our work of the types detailed in FIN-A-4171-6, under both Task 1, Review of Waste Package Data Base, and Task 2, Identification of Additional Data Required and Identification of Tests to Generate the Data.

This analysis was conducted in the context of various constraints: (1) that the recommended hardware and software would have to be compatible with that in use at the NRC; and (2) other constraints developed in our analysis of the problem, as given in the report. Certain commercial equipment and software are identified in the report in order to adequately provide a descriptive characterization of their features and to answer a specific request on costs of the recommended hardware and software for a system, which in our judgement satisfies the requirements of this proposed database. Such identification does not imply recommendation or endorsement by the National Bureau of Standards, nor does it imply that the hardware or software identified are necessarily the best available for the purpose.

Please note that the NBS has designated the distribution of this report "restricted," and it is not to be released to the NTIS. This report has been prepared for use by your agency and responsibility for its further use rests with your agency.

Sincerely,

Charles G. Interrante
Program Manager
Corrosion Group
Metallurgy Division

WM-RES
WM Record File
A4171
NBS

WM Project 10, 11, 16
Docket No. _____
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19 Enclosures

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