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WM Project 12

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(Return to WMA, 623-33) C2

Mr. Peter T. Tuite, Principal
Waste Management Group, Inc.
P.O. Box N (Crugers)
Croton-on-Hudson, NY 10521

Dear Mr. Tuite:

Subject: Acceptance for Referencing: RADMAN Topical Report (WMG-102, as revised from WMG-101P).

The Nuclear Regulatory Commission (NRC) has completed its review of the Waste Management Group, Inc. (WMA) Topical Report on the RADMAN computer code. This review includes the draft Topical Report, and the substantive changes to the draft Topical Report made as a result of this review. (The evaluation report for this review is attached.) The RADMAN code is a series of routines which can be used by radioactive waste generators to characterize packaged waste; classify waste packages in accordance with Part 61 waste classification requirements; and prepare documentation required by 10 CFR Part 61, Department of Transportation (DOT) regulations, and license conditions at existing low-level waste disposal sites. The RADMAN code operates on a waste stream characteristics data base which is specific to the types and forms of waste generated by individual facilities, as well as to the facility- and waste stream-specific distributions of radionuclides and chemical agents.

Based on WMA submittals and our review, we have concluded that the RADMAN code provides an acceptable vehicle which can be used by licensees as part of compliance with the requirements in Section 20.311 of 10 CFR Part 20, and with Section 61.55 of 10 CFR Part 61. This conclusion is predicated on completion of the final Topical Report according to the review assignments and upon the following conditions:

- (1) That radionuclide correlations are updated on a waste stream, plant, or generic basis as additional sampling data becomes available. WMLL staff believe that many correlations currently assumed in RADMAN between Co-60 and activation products, and between Cs-137 and fission products, may not be valid. The current lack of sampling data, however, precludes establishing verified correlations at this time in RADMAN for a number of radionuclides of interest.
- (2) That the manifest formatting provisions of RADMAN are updated to include all of the information required in Section 20.311 when revised manifest forms are made available by disposal site operators.
- (3) That RADMAN is appropriately updated as State (South Carolina, Washington, Nevada) provisions for compliance with Part 61 waste classification and manifesting requirements are made available.

- (4) That RADMAN is updated as required to remain consistent with future modifications to NRC, DOT, State or other regulatory requirements as such requirements become effective, as well as changes to disposal site license conditions.

The attached evaluation report is being forwarded to the States of South Carolina, Washington, and Nevada for their review and concurrence.

Should NRC criteria or regulations change such that our conclusions as to the acceptability of the Topical Report are invalidated, WMG, and/or the applicants referencing the Topical Report, will be expected to revise and resubmit their respective documentation or submit justification for the continued effective applicability of the Topical Report without revision of their respective documentation.

Sincerely,

Original Signed By

Leo B. Higginbotham, Chief
 Low Level Waste Licensing Branch
 Division of Waste Management

Enclosure: RADMAN evaluation report

KCI
 8ROLES/D
 6/29/83

WM:WMLL
 GWRo Fos
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WM:WMLL
 PHLohaus
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WM:WMLL
 TCJohnson
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 LBHigginbotham
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FCTC
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