



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

DEC - 8 1992

Mr. Bryan A. Roy, Manager  
Engineering and Technical Resources  
Scientific Ecology Group, Inc.  
P.O. Box 2530  
1560 Bear Creek Road  
Oak Ridge, Tennessee 37831-2530

Dear Mr. Roy:

This letter follows the telephone conversation between you and Roy Person, of my staff, on November 6, 1992, in which you were informed that the Nuclear Regulatory Commission is in the process of closing its review, without approval, of two Scientific Ecology Group (SEG) Incorporated topical reports (TRs): 1) "Topical Report on 10 CFR 61 Qualified Radioactive Waste Forms" (WM-20) and 2) "Cement Solidified Wastes to Meet the Stability Requirements of 10 CFR Part 61" (WM-46).

We are considering closing our review of WM-20 because SEG has not responded to the two enclosed requests for additional information which were issued on January 07, 1992 and April 02, 1992, respectively. Please note that none of the reviewed waste formulations contained in WM-20 can be granted approval prior to our receipt of acceptable responses and/or test data as requested in the letter of April 2, 1992.

With regard to TR WM-46, interim approval (for the period September 30, 1991, to September 30, 1992) was issued for six waste stream formulations (see the interim approved waste formulations listed below). These waste formulations were submitted as part of the WM-46 TR and interim approval for their use was granted based on testing performed in accordance with the original Branch Technical Position on Waste Form for 10 CFR Part 61 (Revision 0, 1983). This testing was performed prior to issuance of additional test criteria now contained in the new Appendix to the Technical Position. Continued, approved use of the six waste streams, following expiration of the interim approval period, was contingent on SEG submitting and NRC finding acceptable, test results which meet the criteria in this new Appendix. However, the interim approval period has expired and SEG has not indicated any initiative to provide the necessary test data. Therefore, the NRC review effort for this TR is being phased out. The interim approval for the following waste formulations has expired:

1. Low-PE powdered Resin
2. Diatomaceous Earth
3. Filter Sludge
4. 20% Sodium Sulphate
5. 5% Sodium Sulfate with 30% Mixed Solids
6. 20% Sodium Sulphate with 62% Mixed Solids

Please take all actions necessary to assure that your above formulations will not be marketed as NRC approved waste media.

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PDR WASTE  
WM-20 PDR

WM-20  
WM-46  
N114

Bryan A. Roy

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Your staff has been informed of the NRC concerns for both topical. If you choose to pursue NRC approval of either or both of the topical, please respond within 60 days of the date of this letter with either a response to our previous questions or a schedule for providing your response along with a justification for the delay. If you do not respond within 60 days with an adequate justification for continuing the review, NRC review of both topical will be closed without approval.

By copy of this letter, NRC has also contacted the currently operating radioactive waste disposal facilities and informed them of the impending change in NRC approval status for the WM-20 and WM-46 (expired) TRs.

If you have any questions concerning these actions, please contact Roy Person of my staff at 301-504-2575.

Sincerely,

ORIGINAL SIGNED BY

John O. Thoma, Section Leader  
Technical and Special Issues Section  
Low-Level Waste Management Branch  
Division of Low-Level Waste Management  
and Decommissioning  
Office of Nuclear Materials Safety  
and Safeguards

Enclosure: As stated

Distribution: Central File NMSS r/f LLWB r/f  
RBangart WBrach JAustin JSurmeier  
JKennedy JThoma LPerson JDavis  
PDR YES ☒  
PDR NO ☐ Category: Proprietary ☐ or CF Only ☐  
ACNW YES ☐ NO ☒  
SUBJECT ABSTRACT: CLOSEOUT OF SEG TR's WM-20 & WM-46  
\* See Previous Concurrence

OFC	LLWB*	LLWB*	LLWB*	LLWB	
NAME	LPerson	JDavis	WBrach	JThoma	
DATE	11/04/92	11/04/92	11/16/92	12/8/92	

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Bryan A. Roy

- 2 -

Your staff has been informed of the NRC concerns for both topicals. If you choose to resolve the NRC questions you should respond within 60 days with an interim report on the progress made in providing answers to the earlier requests for additional information. In addition, the appropriate fees should be submitted. If we do not receive adequate responses to our questions within this time frame, both TR reviews will be closed.

By copy of this letter, NRC has also contacted the currently operating radioactive waste disposal facilities and informed them of the impending change in NRC approval status for the WM-20 and WM-46 (expired) TRs.

If you have any questions concerning these actions, please contact Roy Person of my staff at 301-504-2575.

Sincerely,

John O. Thoma, Section Leader  
Technical and Special Issues Section  
Low-Level Waste Management Branch  
Division of Low-Level Waste Management  
and Decommissioning  
Office of Nuclear Materials Safety  
and Safeguards

Enclosure: As stated

Distribution: Central File NMSS r/f LLWB r/f  
RBangart WBrach JAustin JSurmeier  
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PDR NO ☐ ☐ ☐ ☐ Category: Proprietary ☐ or CF Only ☐  
ACNW YES ☐ ☐ ☐ ☐ NO ☐ ☐ ☐ ☐  
SUBJECT ABSTRACT: CLOSEOUT OF SEG TR's WM-20 & WM-46  
\* See Previous Concurrence

OFC	LLWB*	LLWB*	LLWB*	LLWB	
NAME	LPerson	JDavis	WBrach	JThoma	
DATE	11/04/92	11/04/92	11/16/92	/ /92	

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Bryan A. Roy

- 2 -

By copy of this letter, NRC has also contacted the currently operating radioactive waste disposal facilities and informed them of the change in NRC approval status for both the unapproved and expired TRs.

If you have any questions concerning these actions, please contact Roy Person of my staff at 301-504-2575.

Sincerely,

John O. Thoma, Section Leader  
Technical and Special Issues Section  
Low-Level Waste Management Branch  
Division of Low-Level Waste Management  
and Decommissioning  
Office of Nuclear Material Safety  
and Safeguards

Enclosure: As stated

cc: Heyward G. Shealy  
South Carolina  
Terry R. Strong  
Washington  
Stanley R. Marshall  
Nevada

Distribution: Central File NMSS r/f LLWB r/f  
RBangart WBrach JAustin JSurmeier  
JKennedy JThoma LPerson JDavis  
PDR YES  
PDR NO Category: Proprietary or CF Only  
ACNW YES NO  
SUBJECT ABSTRACT: CLOSEOUT OF SEG TR's WM-20 & WM-46

OCF	LLWB	LLWB	LLWB	LLWB
NAME	LPerson	JDavis	WBrach	JThoma
DATE	11/04/92	11/04/92	/ /92	/ /92

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APR 2 1992

Mr. Bryan A. Roy, Manager  
Engineering and Technical Resources  
Scientific Ecology Group, Inc.  
P.O. Box 23806-530  
1560 Bear Creek Road  
Oak Ridge, Tennessee 37831-2530

Dear Mr. Roy:

The Nuclear Regulatory Commission staff review of the Scientific Ecology Group, Inc. (SEG) topical report (TR), "Topical Report on 10 CFR 61 Qualified Radioactive Waste Forms," is currently halted pending receipt of SEG's responses to NRC's second Request for Additional Information (RAI #2). This document was faxed to your office on January 7, 1992. We are prepared to complete our review of this TR (Docket No. WM-20), and would appreciate your attention to these outstanding issues. In the event that the above-referenced fax transmission was not received, a second copy of RAI #2 is enclosed. Please advise us regarding your schedule for completing this action.

On September 30, 1991, the NRC issued an Interim Technical Evaluation Report (ITER) regarding SEG's topical report, "Cement Solidified Wastes to Meet the Stability Requirements of 10 CFR Part 61" (Docket No. WM-46). A revised topical report including related information developed during the technical review was to have been submitted to this office by November 30, 1991. We have not yet received the revised TR. In addition, the interim approval will expire on October 1, 1992. Final approval of the TR is based on submission and approval of a final revised topical report which includes information on additional qualification testing on the interim approved waste streams, revised PCP documents, a design for filter encapsulation in grout, and other information, as specified in the ITER cover letter (M. Tokar (NRC) to B. Roy (SEG) dated September 30, 1991). We are interested in the progress of the additional qualification testing, and in the status of the TR as a whole.

We look forward to hearing from you with regard to the status of each of these TR's. If you have any questions or comments regarding this letter, please contact Jennifer Davis of my staff, at (301) 504-2697.

Sincerely,

ORIGINAL SIGNED BY  
Joseph Kane, Acting Section Leader  
Technical and Special Issues Section  
Low-Level Waste Management Branch  
Division of Low-Level Waste Management  
and Decommissioning  
Office of Nuclear Material Safety  
and Safeguards

Enclosure: As stated

Distribution:	Central File #	NMSS r/f	
RBangart	WBrach	JAustin	JSurmeier
JKennedy	JKane	JDavis	LLWM r/f
PDR YES <u>X</u>	* See previous concurrence.		
PDR NO <u>    </u>	Category: Proprietary <u>    </u> or CF Only <u>    </u>		
ACNW YES <u>X</u>	NO <u>    </u>		
<u>SUBJECT ABSTRACT: STATUS OF SEG TOPICAL REPORTS</u>			
OFC :LLWM*	:LLWM*	:LLWM *	:
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NAME:JDavis/jd	:JKane	:Plohaus	:
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DATE:04/01/92	:04/01/92	:04/01/92	:
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JD/LTR TO BROY	OFFICIAL RECORD COPY		

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