August 28, 2001

Mr. Philip Mazor Remedial Project Manager Waste Management, Inc. 700 56th Ave. Zeeland, MI 49464

SUBJECT: NRC INSPECTION REPORT 04009022/2001-001(DNMS) OF WASTE

MANAGEMENT, INC.

Dear Mr. Mazor:

This refers to the routine safety inspection conducted at 2370 Two-Mile Road, Bay County, Michigan, by Ed Kulzer of this office on August 15, 2001.

The inspection was an examination of activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your license. Within these areas, the inspection consisted of discussions with you and a tour of your facility.

No violations of NRC requirements were identified during the course of this inspection.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter will be available **electronically** for public inspection in the NRC Public Document Room **or** from the *Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from* the NRC Web site at http://www.nrc.gov/NRC/ADAMS/index.html (the Public Electronic Reading Room).

We will gladly discuss any questions you have concerning this inspection.

Sincerely,

/RA by G. McCann acting for/

Bruce L. Jorgensen Decommissioning Branch

Docket No. 04009022 License No. SUC-01555

cc: D. Minnaar, Chief, Michigan Department of Environmental Quality

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OFFICE	RIII	RIII			
NAME	Kulzer:js	Jorgensen			
DATE	08/28/01	08/28/01			

P. Mazor -2-

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APPENDIX A

MATERIALS DECOMMISSIONING INSPECTION FIELD NOTES FOR FACILITIES NEEDING SIGNIFICANT DECOMMISSIONING EFFORT

Region_III			
Inspection Report No		License No.SUC-1555	Docket No040-09022
Licensee (Name & A	ddress)		
Waste Management	Ot MI		act Mr. Phil Mazor
2370 Two Mile Rd, B			616 688 5777
		Last Amendment N	
Drogram Codo		Date of Amendme	nt
Program Code Date of Last Inspection	on E/11/00		
Date of Last Inspecti			
•			
Date of Next Inspecti	IOII_// /02		
Type of Inspection:	(v) Announced	() Unannounced	
Type of inspection.	(X) Routine ()		
		mm. () Reinspection of Dec	omm
Level of Inspection:		Reduced () Extended	onnin.
Lover or moposition.	(x) (torritar ())	rteddedd () Exterided	
Brief Description of In	nspection Activit	ties:	
Observe site security			
,	J		
Brief Description of F	indings and Act	tion:	
No Findings	J		
One open item (an ex	xtension of the t	timeliness rule) still remains	open.
An extension of time	will be discusse	ed by NRC, State of Michigan	n, and Waste Management
during late August fo	r submittal of th	e Decommissioning Plan.	•
		_	
Summary of Findings	and Action:		
NONE			
		orm 591 or regional letter issi	ued
() Violation(s), clear			
() Violation(s), region			
() Followup on previous	ous violations		
		D (
Inspector: E. L. Kulz		Date	
E. L. Kulzo	er		
Annroved:		Nate	
B. L. Jorg	ensen. Chief. D	Date Decommissioning Branch	
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[Field notes are to be used by the inspector to assist with the performance of the inspection. Note that all areas indicated in the field notes are not required to be addressed during <u>each</u> inspection. However, for those areas <u>not covered</u> during the inspection, a notation ("Not Reviewed") should be made in each section where applicable. Additionally, all areas covered during the inspection should be documented in sufficient detail to describe what activities and/or records the inspector observed. The fieldnotes to the "Decommissioning Inspection Procedure for Materials Licensees" should be supplemented with: (1) the applicable inspection procedures for operating facilities provided in the Inspection Procedure (IP) 87100 series; and (2) other written documentation of the inspection, as necessary.]

1. SUMMARY OF DECOMMISSIONING STATUS

The checklist below is intended to provide, in a written outline format, summary documentation of the status of the licensee's facility in the decommissioning process. This documentation will be filed as part of the inspection report. The inspector should use this information to develop each inspection plan(s) for the various stages of decommissioning, namely, before dismantlement, during dismantlement and site remediation, and after site remediation.

- A. Licensee ceased operational program. (X) Y () N
- B. Required decommissioning financial assurance mechanisms in place. () Y () N
- C. Decommissioning Plan (DP) required. (x) Y () N
- D. Licensee final survey required. (x) Y () N
- E. NRC confirmatory survey required. (x) Y () N
- F. NRC closeout inspection required. (x) Y () N
- G. Licensee doing decommissioning planning and preparation before dismantlement. () Y (x) N
- H. Licensee actively remediating site. () Y (x) N
- I. Licensee completed site remediation. () Y (x) N

Description of Facility Status: Safe Store

2. INSPECTION OF KEY DECOMMISSIONING ACTIVITIES

The following is a generic checklist of major licensee activities occurring at various stages of decommissioning. From this generic checklist and from facility-specific activities you identify, develop the set of licensee activities to be inspected - for each individual inspection throughout the decommissioning process. Plan to inspect licensee activities that present potential high-risk conditions. Then apply the standard health and safety inspection areas in Section 3 of these fieldnotes (taken from the applicable 87100 series IP for the licensee's operational program) to the specific licensee decommissioning activities that are being inspected.

To complete the licensee activities checklist, the inspector will need to obtain information from the Licensing Project Manager, review the DP, make observations at the licensee's facility, review licensee records, take measurements and samples of contaminants, and undertake other investigative measures, to determine whether the licensee is meeting all regulatory and DP commitments for each decommissioning activity the licensee is performing.

A. LICENSEE ACTIVITIES INSPECTED BEFORE DISMANTLEMENT

- 1. Licensed material used during operations has been removed from site. () Y (x) N
- 2. Facility license conditions are in place and met by licensee. (X) Y () N
- 3. Site security and control of contaminated material being maintained in compliance with 10 CFR 20.1801 and 20.1802. (x) Y () N
- 4. Support systems and services (e.g., lighting, water supply) are in place. (x) Y () N
- 5. Decommissioning schedules are consistent with timeliness requirements in 10 CFR 30.36, 40.42, and 70.38. (x) Y () N $\,$
- 6. Licensee's recordkeeping is consistent with 10 CFR 30.35, 40.36, and 70.25. () Y () N
- 7. Financial assurance requirements are being maintained in accordance with 10 CFR 30.35, 40.36, and 70.25. () Y () N
- 8. Licensee is conducting site characterization in accordance with applicable radiation protection procedures. (x) Y () N
- 9. Construction of new site features (e.g., roads, rail spurs, staging areas, sediment control ponds) conforms to DP and does not compromise health and safety of workers and public. (x) Y () N

10. Licensee activities conform to specific license conditions and licensee programs and procedures. (x) Y () N 11. Other licensee activities: () Y () N
Basis for Findings: Observation
B. LICENSEE ACTIVITIES INSPECTED DURING DECONTAMINATION, DISMANTLEMENT, AND SITE REMEDIATION 1. Site security and control of contaminated material being maintained in compliance with 10 CFR Part 20. (x) Y () N
 Decontamination and dismantlement of structures are being performed consistent with DP and sound industry practice (structures include buildings, utilities, treatment lagoons, etc.). Y () N
3. Decontamination and remediation of the following are being performed consistent with DP and sound industry practice: a. Soil. () Y () N b. Sediment. () Y () N c. Surface waters. () Y () N d. Groundwater. () Y () N e. Other mediums: () Y () N
4. Licensee release and disposal of decommissioning wastes are consistent with DP and approved by NRC for: a. Liquid wastes (e.g., groundwater, surface water, liquid from treatment ponds, process liquids). () Y () N b. Solid wastes (e.g., building materials, process and other facility equipment, concrete rubble, soil). () Y () N c. Other wastes: () Y () N
5. Temporary, on-site storage of low-level radioactive wastes from decommissioning meets license conditions and guidance in IP 84890. () Y () N 6. Packaging and shipment of radioactive waste materials meet requirements in 40 CFR Parts 173-178 and 10 CFR Part 71. () Y () N 7. Restoration of site - Licensee has restored site to meet license conditions and NRC-approved plans.() Y () N 8. Licensee survey of material and equipment for free release sufficient to demonstrate compliance with release criteria. 9. Other licensee activities: () Y () N
Basis for Findings: not applicable

C. LICENSEE ACTIVITIES INSPECTED AFTER COMPLETION OF SITE REMEDIATION

- 1. Licensee has submitted NRC Form 314 for disposition of licensed material in accordance with 10 CFR 30.36, 40.42, and 70.38. () Y () N
- 2. Licensee's final survey program is acceptable (see Appendix B for inspection items for final surveys). () Y () N
- 3. NRC confirmatory survey performed. () Y () N
- 4. Site maintenance activities (if any, for restricted use) conform to license conditions and NRC-approved plans and are in place and functional. (X) Y () N

	5.	Other	licensee	activities:	()	Υ	()	١	١
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Basis for Findings: Observation

3. INSPECTION OF STANDARD HEALTH AND SAFETY AREAS FROM THE OPERATIONAL INSPECTION PROGRAM

Identify the standard inspection areas (from the inspection program of the licensee's operational program) to be covered during each decommissioning inspection. [Inspection areas A through L below correspond to the typical inspection areas in the 87100 series IPs that are applicable to decommissioning.] Then identify the new activities within the standard inspection areas undertaken by the licensee during decommissioning. Some of the new activities given below, as well as any other activities the inspector identifies, should be considered inspection items under the general set of health and safety inspection areas used in the applicable 87100 series IP.

Minimum inspection areas for the initial decommissioning inspection: decommissioning organization (A.1); decommissioning activities in compliance with NRC-approved DP (A.2); licensee procedures for implementing the DP (A.3); Radiation Safety Committee (RSC) and Radiation Safety Officer (RSO) responsibilities (A.4); and the licensee's decommissioning training program (E.1).

A. GENERAL OVERVIEW

- 1. Describe the licensee's decommissioning organizational structure:
- 2. Licensee is performing decommissioning activities in compliance with its approved DP. () Y (x) N
- 4. Licensee has implemented procedures for the decommissioning activities identified in the DP. () Y (x) N
- 5. The RSC and RSO fulfill license requirements to deal with all decommissioning activities. () Y () N

Basis for Findings:

No DP has been submitted yet.

B. FACILITIES

- 1. Describe, from field observation, the licensee-identified facilities and outdoor areas to be decommissioned: Out doors buried waste taken into landfill.
- 2. The licensee's remediation plan includes all the contaminated facilities and areas on-site and off-site. () Y () N

- 3. All essential systems and services (e.g., electrical power, water supply, communications systems) are in place and functional for the planned decommissioning activities. (X) Y () N 4. Licensee's emergency plan is in place and operative for the duration of decommissioning. () Y () N
- 5. For complex sites needing site characterization, describe the key site characterization activities to be performed by the licensee to determine the nature and extent of contamination:
- 6. Licensee's characterization activities performed in conformance with good industry practice. (x) Y () N

Basis for Findings:

Observation

C. EQUIPMENT AND INSTRUMENTATION

- 1. Survey instruments are applicable to contaminants of interest. (x) Y () N
- 2. Use of survey instruments appropriate for site. (x) Y () N

Basis for Findings:

Observation

D. MATERIALS

- 1. Radioactive materials licensed during operations have been removed offsite; residual quantities conform to license conditions. () Y(x) N
- 2. Security and control of licensed materials, including contaminated areas, is being maintained. (x) Y () N

Basis for Findings:

Observation

E. TRAINING

- 1. Licensee has developed training program for new decommissioning activities (e.g., demolition of structures, excavation of soil); program is adequate. () Y () N $\,$
- 2. Training program being effectively implemented. () Y () N

Basis for Findings:

F. AREA RADIATION SURVEYS AND CONTAMINATION CONTROL

- 1. Area surveys are being performed in areas being decommissioned. () Y () N
- 2. Where active remediation (e.g., demolition of structures, excavation of soil) is being performed, radiation levels in unrestricted areas do not exceed 2 mrem in any one hour.

 () Y () N

Basis for Findings:

n/a

G. RADIATION PROTECTION

- 1. The licensee's approved health physics program is being implemented in the field for new decommissioning activities. () Y () N
- 2. Site security and control of contaminated material are in compliance with 10 CFR 20.1801 and 20.1802. (x) Y () N

Basis for Findings: Observation
H. RADIOACTIVE WASTE MANAGEMENT/EFFLUENTS/ENVIRONMENTAL MONITORING
 Offsite disposal of decommissioning wastes conforms to free release criteria and disposal site requirements. () Y () N All new effluent releases conform to DPand applicable regulations. () Y () N The licensee's environmental monitoring program is being implemented in conformance with the DP and all applicable limits are being met. (x) Y () N Temporary storage/staging areas for radioactive wastes from building demolition, equipment dismantlement, soil excavation, etc., are adequately posted and protected. () Y () N
Basis for Findings: Observation

I. RECORDKEEPING FOR DECOMMISSIONING

- 1. Copies of the licensee's decommissioning cost estimates and funding methods are on file. () Y () N
- 2. Licensee has adequate records for decommissioning activities performed (e.g., for decontamination and dismantlement of structures; decontamination and remediation of soil, sediment, surface waters, groundwater; surveys of remediated facilities). () Y () N
- 3. Licensee's financial assurance conforms with the financial assurance requirements of NRC-approved possession limits and NRC regulations. () Y () N

Basis for Findings: n/a

J. TRANSPORTATION

- 1. Describe the licensee's program to package and ship decommissioning waste materials:
- 2. Licensee's program meets all applicable 10 CFR and 49 CFR requirements for marking labeling, placarding, and shipping paper requirements for radioactive waste shipments.

 () Y () N

Basis for Findings: n/a

K. POSTING AND LABELING

- 1. All contaminated areas, waste processing areas, and waste handling areas are posted in conformance with regulations. (x) Y () N
- 2. Packaged radioactive waste materials are labeled in accordance with regulations. () Y () N

Basis for Findings: Observation

L. OCCUPATIONAL HEALTH AND SAFETY

1. Describe the occupational health and safety observations made at the licensee's facilities: satisfactory

2. Licensee and Occupational Safety and Health Administration were informed of occupational health and safety issues observed during the inspection. () Y () N

Basis for Findings: Observation

4. VIOLATIONS, NON-CITED VIOLATIONS, FOLLOWUP ITEMS, AND OTHER ISSUES

Briefly state (1) the requirements and (2) how and when the licensee violated the requirement. For non-cited violations, indicate why the violation was not cited. Briefly describe followup items and other issues.

There was a violation for failure to comply with the timeliness rule. This remains an open item. An extension for submittal of the DP. will be discussed by NRC, Waste Management, and the State latter this month.

END

APPENDIX B

FINAL SURVEY PROGRAM INSPECTION FIELD NOTES

1. STATUS OF LICENSEE FINAL SURVEY

- A. Final survey report submitted to the NRC. () Y () N
- B. Previous inspection(s) of licensee final survey program conducted. () Y () N
- C. Final survey report not submitted, licensee final survey in progress. () Y () N
- D. Final survey plan submitted and approved by NRC license reviewer. () Y () N

Basis for Findings:

2. INSPECTION AREAS FOR LICENSEE FINAL SURVEYS

Notes:

- (1) For facilities where an approved decommissioning plan (DP) is required, inspections should be made against commitments in the DP and the licensee's final survey plan (which would have been approved by the NRC license reviewer during license review). For facilities where a DP is not required, inspections should be made against NRC regulations, license conditions, and applicable guidance in NUREG/CR-5849.
- (2) For facilities that require a significant decommissioning effort, all the inspection areas listed below should be inspected while the licensee's final survey program is in progress. For small, licensed facilities that do not require a significant decommissioning effort, only some of the inspection areas below may apply, and it may not be practicable to inspect these areas until after the licensee's final survey is completed and the licensee's final survey report has been submitted to NRC.
- (3) Inspection of a licensee's final survey may include independent confirmatory measurements by the inspector or NRC contractor. The extent of the confirmatory measurements, and whether the use of an NRC contractor is warranted, depends on a number factors that are discussed in Section 2.C. In most cases, minimal confirmatory surveys should be sufficient.
- (4) The inspector should identify which inspection areas listed below are performed during each inspection.

· · · · · · · · · · · · · · · · · · ·) Buildings, interiors and exteriors. () Y () N) Equipment and systems. () Y () N
•) Grounds. () Y () N
(7	Other media: () Y () N

Basis for Findings:

9. Licensee's Final Survey report sufficient to demonstrate that release criteria have been met.

Note: The final survey report will, in general, not be available for review at the time of an "in-process" inspection of a final survey program. However, at the end of the survey project, after the final survey report has been submitted, the inspector should ensure that these areas have been reviewed by either the license reviewer or project manager. If questions remain as to whether these areas have been satisfied by the licensee, or the final survey report has not been reviewed, the areas listed below should be addressed during the inspection.

- a. Survey results demonstrate, with 95% confidence, that average residual contamination in each "survey unit" is less than release criteria. () Y () N
- b. Survey results demonstrate that the hot-spot criteria in NUREG/CR-5849 have been satisfied. () Y () N
- c. Elevated survey results investigated by licensee. () Y () N
- d. Unaffected "Survey Units" reclassified, as necessary, based on survey results.
 () Y () N
- e. Survey report provides sufficient documentation of procedures and QA/QC. () Y () N f. Survey report provides diagrams or other documentation identifying survey locations. () Y () N

Basis for Findings:

C. NRC CONFIRMATORY SURVEY

- 1. Evaluate whether a confirmatory survey is justified.
 - a. Significant, unresolved, weaknesses identified during the inspection of the licensee's final survey program. () Y () N
 - b. Repetitive violations. () Y () N
 - c. Significant public or Congressional interest. () Y () N d. Small site where an in-process inspection not practical. () Y () N
- 2. If a confirmatory survey is justified, determine if an NRC contractor should be used. Meeting one or more of the three criteria listed below will, in general, justify the use of a contractor.
 - a. Licensee's final survey involves unique or complex technical issues. () Y () N
 - b. Confirmatory survey is expected to require more than a man-week effort to complete field surveys and sampling. () Y () N
 - c. Confirmatory survey is very high priority that cannot be completed by NRC staff in a timely manner. () Y () N $\,$

NOTE: The NRC laboratory does not process samples requiring wet chemistry. For wet chemistry analyses, the contract laboratory will be used, regardless of whether the inspector or the contractor performs the confirmatory survey.