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RCRA Investigation Report
Nevada Division Of Environmental Protection
Waste Management Bureau

Facility: Kerr-McGee Chemical Corporation
Lake Mead Road, P.O. Box 55
Henderson, Nevada 89015

EPA ID Number: NVD 008290330

Date Of Inspection: June 8, 1991

Inspectors: Tim Murphy
Environmental Management Specialist
Waste Management Bureau, NDEP
(702) 687-5872

Jennifer Hughes
Hydrogeologist
Waste Management Bureau, NDEP
(702) 687-5872

Facility Representatives: Rick Stater
Assistant Plant Manager
Kerr-McGee Chemical Corporation
(702) 565-8901

Report Prepared By: Tim Murphy

Report Date: August 29, 1991

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KERR-McGEE CHEMICAL CORPORATION

NARRATIVE

Kerr-McGee Chemical Corporation operates an inorganic chemical production plant at the BMI industrial complex in Henderson, Nevada. Activities at the Kerr-McGee facility encompasses four major production processes: 1) *sodium chlorate*, 2) *perchlorates*, 3) manganese dioxide, and 4) boron chemicals.

In the first process, sodium chlorate (NaClO_3) is produced in an electrolytic process from raw materials of sodium chloride and water. Sodium chlorate is used as a bleach in the production of paper pulp and as an intermediate in the production of perchlorates. Waste from sodium chlorate production consists of a filter cake containing impurities from the raw materials and filter aid.

Refer to photo log to identify generation and storage areas for the sodium chlorate filter cake.

INVESTIGATION

On June 7, 1991, the Administrator requested that staff member(s) be present at the BMI site and specifically Pioneer Chemical to observe the start up of the chlorine chemical plant. During the two days in Las Vegas other sites at the BMI Complex were visited to observe operations during the weekend shift.

At 1:50 P.M. on June 8, 1991 we arrived at the Kerr-McGee site to conduct a generator inspection. Alan Gaddy, who is responsible for the environmental matters at Kerr-McGee, was not available for the inspection. Mr. Rick Stater, assistant plant manager, was then contacted and the inspection began at 2:25 P.M. The first area that was inspected was one of the three above ground storage tanks (photo #4 & 5) that had been taken out of operation. These tanks used to handle process waters containing the chlorate muds. Most of the waters had been drained off and of the three tanks, only the northern most tank was being cleaned. One side of the tank had been cut out and the muds were clearly visible (photo #4 & 5). These muds are pulled from the tank and dried before being placed into a transport vehicle.

The second area that was inspected was the generation point (photo #1 & #2) for the chlorate recovery muds which are then moved to the storage pad (photo #3) to be air dried.

The third area that was inspected was a recently constructed storage pad (photo #3), where the muds were air dried before being loaded into a truck for disposal at U.S. Ecology in Beatty, Nevada.

KERR-McGEE CHEMICAL CORPORATION

ALLEGED VIOLATION

1. NAC 444.8632 Compliance with federal regulations. Failure to comply with all applicable requirements of 40 CFR Parts 2, 124 and 260 to 270, inclusive, as those parts existed on July 1, 1990, which, except as modified by NAC 444.8633 and 444.8634.
2. § 262.30 Kerr-McGee failed to package the waste in accordance with the applicable Department of Transportation regulations on packaging under 49 CFR Parts 173, 178, and 179. Refer to photos #6, #7, #8, and #9.
3. § 262.31 Kerr-McGee failed to label the hazardous waste container (truck) before transporting or offering the hazardous waste for transportation offsite. A generator must label each package in accordance with the applicable DOT regulations on hazardous materials under 49 CFR Part 172. Refer to photos #6, #7, #8, and #9.
4. § 262.34 Kerr-McGee failed to comply with Subpart I or Subpart J of 40 CFR 265. Refer to photo #3.
5. § 262.34
(a)(1) Kerr-McGee failed to comply with subpart I of 265 (265.173). A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. Photo #2 identifies a bin containing chlorate recovery mud.
6. 459.515 Construction, alteration or operation of facility without permit unlawful; Kerr-McGee treated hazardous waste by evaporation in other than a process tank or container without a permit. Refer to photo #3, #4, #5.

KERR-McGEE CHEMICAL CORPORATION

PHOTOS

- #1. Label to the left and right (on post) of bin in photo #2. This is a generator accumulation point for the Chlorate recovery mud which is disposed of at U.S. Ecology in Beatty, Nevada.
- #2. Generator accumulation area of chlorate recovery mud. Improperly managed container.
- #3. 90 day storage for the chlorate recovery mud generated in photo #1 and #2. Chlorate recovery mud is stored in this storage area from the generator accumulation area until it is dry enough to place into a dump truck that is hauled to U.S. Ecology, Beatty, Nevada.
- #4, #5. 1 of 3 above ground storage tanks that have been taken out of operation. The tanks used to handle process waters containing the chlorate muds. Tanks are presently being cleaned out by cutting a hole in the side of the tank and pulling the chlorate muds out onto a concrete pad to dry. The concrete pad is located directly in front of the tank. After the muds have dried they are placed into a dump truck for shipment to U.S. Ecology in Beatty, Nevada.
- #6, #7,
#8, #9. Flat bed truck containing numerous anode cells that are being disposed of as a hazardous waste at U.S. Ecology in Beatty, Nevada. The cells were allowed to drain in place before they were removed and placed on the flatbed truck.

#1



#2



3



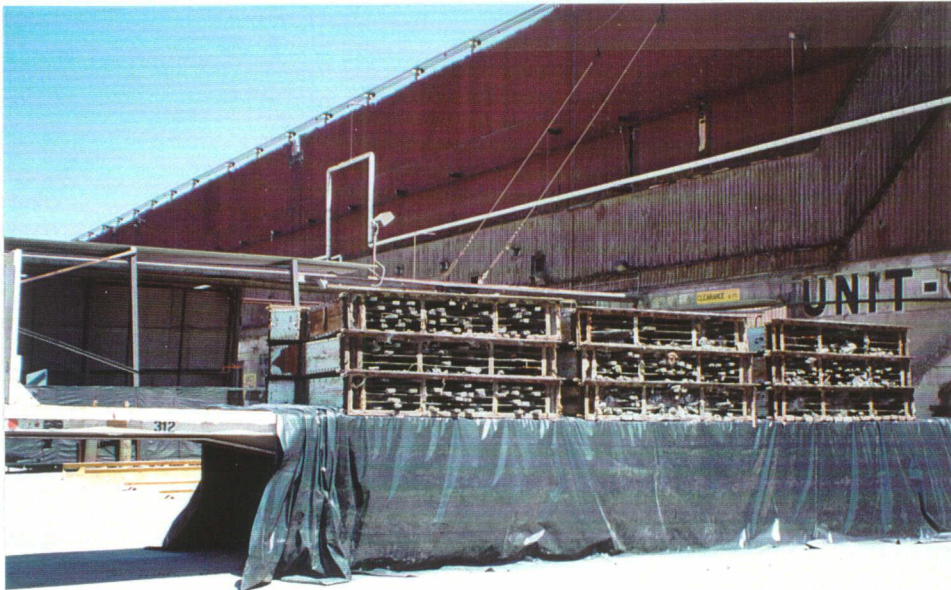
4



#5



#6



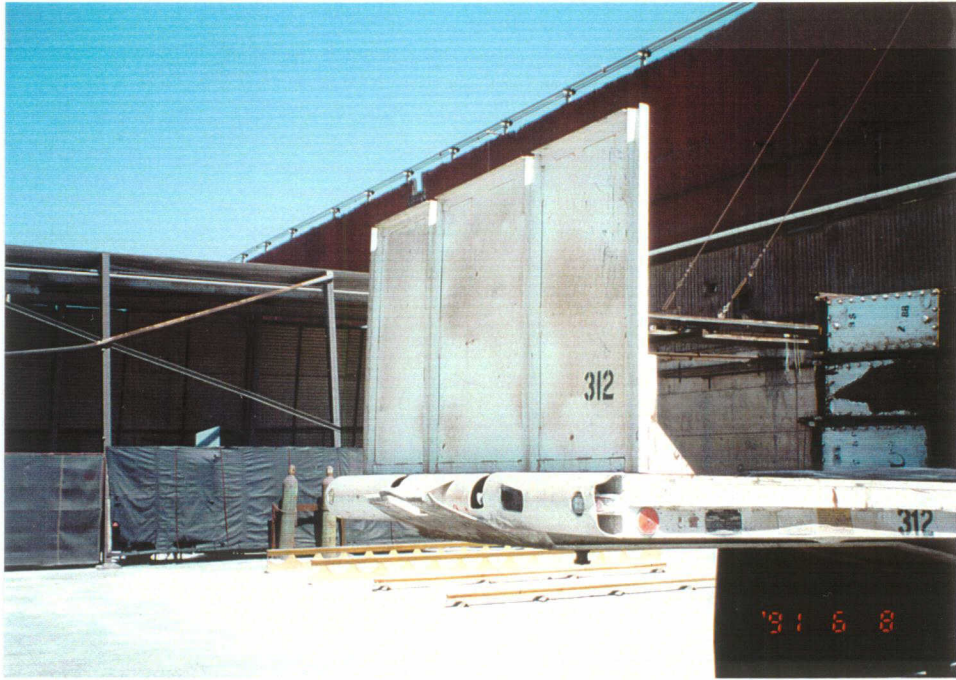
#7



#8



#9



RCRIS COMPLIANCE FORM (PART 1)

EVALUATION

Office Use Only	
Date Entered	6/29
Initials	GS

IDENTIFICATION DATA		
EPA ID#: <u>NVD-008-290-330</u>	Evaluation Date <u>06/08/91</u> <small>(mm/dd/yy)</small>	Responsible Agency S <input checked="" type="checkbox"/> State B <input type="checkbox"/> Contractor
Handler Name: <u>KERR-MCGEE CHEMICAL</u>	Evaluation Seq. ID <u>A08</u> <small>(A/P.bb)</small>	
Address: <u>Lake mead Road</u>		
City/State/Zip: <u>HENDERSON NV</u>		
County: <u>Clark</u>		

EVALUATION DATA	
Responsible Branch <u>NV</u> (EP,NV,WA,CL)	Responsible Person <u>TMU</u> (first letter of first name and first two letters of last name)
Type of Evaluation (check one)	
CEI <input type="checkbox"/> Compliance Evaluation Inspection CME <input type="checkbox"/> Comprehensive Monitoring Inspection SPL <input type="checkbox"/> Sampling Inspection FRR <input type="checkbox"/> Financial Records Review NRR <input type="checkbox"/> Non-Financial Records Review LBN <input type="checkbox"/> Land Ban	CAO <input type="checkbox"/> Corrective Action Inspection OAM <input type="checkbox"/> Operation and Maintenance Inspection CDI <input type="checkbox"/> Case Development Inspection CSE <input type="checkbox"/> Compliance Schedule Evaluation OTH <input checked="" type="checkbox"/> Other (note reason below)
Reason of Evaluation (check one)	
-- <input type="checkbox"/> Routine 01 <input type="checkbox"/> Follow Up 02 <input type="checkbox"/> Case Development	03 <input type="checkbox"/> Sampling 04 <input type="checkbox"/> Citizen Complaint 05 <input type="checkbox"/> Withdrawal/Status Chg
06 <input type="checkbox"/> Closure	
Evaluation Comments: <u>DIRECTOR REQUESTED</u>	

COVERAGE AREAS (check all that apply)		
Generator GER <input type="checkbox"/> All Requirements GGR <input checked="" type="checkbox"/> General GLB <input type="checkbox"/> Land Ban GMR <input type="checkbox"/> Manifest GOR <input type="checkbox"/> Other GPT <input type="checkbox"/> Pre-Transport GRR <input type="checkbox"/> Record Keeping GSC <input type="checkbox"/> Special Conditions GSQ <input type="checkbox"/> Small Quantity Gen.	TSD Requirements DCH <input type="checkbox"/> Chem/Phys/Biol DCL <input type="checkbox"/> Close/Post Close (G) DCP <input type="checkbox"/> Contingency (D) DFR <input type="checkbox"/> Financial (H) DGS <input checked="" type="checkbox"/> General (B) <u>N/A</u> DGW <input type="checkbox"/> Groundwater (F) DIN <input type="checkbox"/> Incinerator DPP <input type="checkbox"/> Prepare/Prevent DSI <input type="checkbox"/> Surface Impound DLT <input type="checkbox"/> Land Treatment	TSD Requirements DMC <input type="checkbox"/> Containers (I) DMR <input type="checkbox"/> Manifest DOR <input type="checkbox"/> Other DPB <input type="checkbox"/> Part B Appl. DLB <input type="checkbox"/> Land Ban DLF <input type="checkbox"/> Landfill DTR <input type="checkbox"/> Tank (J) DTT <input type="checkbox"/> Thermal Treat DWP <input type="checkbox"/> Waste Pile
Transporter TGR <input type="checkbox"/> General TMR <input type="checkbox"/> Manifest TOR <input type="checkbox"/> Other TRR <input type="checkbox"/> All Requirements TWD <input type="checkbox"/> Discharge/Spill	Other CAS <input type="checkbox"/> Corrective Action Schedule FEA <input type="checkbox"/> Former Enforcement Action	

RCRIS COMPLIANCE FORM (PART 2)

VIOLATIONS

Office Use Only	
Date Entered	6/29
Initials	SB
Linked	N

IDENTIFICATION DATA	
EPA ID#: <u>NVD-008-290-330</u>	Responsible Agency S <input checked="" type="checkbox"/> State B <input type="checkbox"/> Contractor
Handler Name: <u>KERR MCGEE CHEMICAL</u>	
Address: <u>Lake Mead Road</u>	
City/State/Zip: <u>HENDERSON, NV</u>	
County: <u>Clark</u>	

VIOLATION DATA								
Responsible Branch <u>NV</u> (EP,NV,WA,CL)			Responsible Person <u>ACO</u> (first letter of first name and first two letters of last name)					
Violation Seq. ID	Date Determined	Violation Area	CLASS	Regulation	Reg Type	Priority	Scheduled Response Date	Date Resolved
(blank for new entry)	(mm/dd/yy)	(see below)	(1,2,F)		(FS,FR,SS,SR)		(mm/dd/yy)	(mm/dd/yy)
<u>S0003</u>	<u>12/17/91</u>	<u>GGB</u>	<u>1</u>	<u>262.34(a)</u>	<u>ER</u>		<u>01/31/92</u>	<u>01/21/92</u>
	<u>1/1</u>						<u>1/1</u>	<u>1/1</u>
	<u>1/1</u>						<u>1/1</u>	<u>1/1</u>
Violation Comments:								

EVALUATION DATA (The violations described above will be linked to this evaluation)	
Evaluation Date <u>06/08/91</u>	Evaluation Seq. ID <u>A08</u>

VIOLATION AREAS		
Generator GGR General GLB Land Ban GMR Manifest GOR Other GPT Pre-Transport GRR Record Keeping GSC Special Conditions GSQ Small Quantity Gen.	TSD Requirements DCH Chem/Phys/Biol DCL Close/Post Close (G) DCP Contingency (D) DFR Financial (H) DGS General (B) DGW Groundwater (F) DIN Incinerator DPP Prepare/Prevent DSI Surface Impound DLT Land Treatment	TSD Requirements DMC Containers (I) DMR Manifest DOR Other DPB Part B Appl. DLB Land Ban DLF Landfill DTR Tank (J) DTT Thermal Treat DWP Waste Pile
Transporter TGR General TMR Manifest TOR Other TWD Discharge/Spill	Other CAS Corrective Action Schedule FEA Former Enforcement Action	

RCRIS COMPLIANCE FORM (PART 3)

ENFORCEMENT

Office Use Only	
Date Entered	6/24
Initials	CSJ
Linked	<input checked="" type="checkbox"/>

IDENTIFICATION DATA	
EPA ID#: <u>NVD-008-290-330</u>	Enforcement Date <u>01/31/92</u> <small>(mm/dd/yy)</small>
Handler Name: <u>KERR McGEE Chemical</u>	Responsible Agency S <input checked="" type="checkbox"/> State B <input type="checkbox"/> Contractor
Address: <u>Lake Mead Road</u>	
City/State/Zip: <u>Henderson NV</u>	
County: <u>Clark</u>	Enforcement Seq. ID <u>406</u> <small>(A/P.bb)</small>

ENFORCEMENT DATA	
Responsible Branch <u>NV</u> (EP,NV,WA,CL)	Responsible Person <u>ACO</u> (first letter of first name and first two letters of last name)
Enforcement Action Type (check one)	
110 <input type="checkbox"/> Verbal Informal 120 <input type="checkbox"/> Written Informal (WL, NOV) 205 <input type="checkbox"/> 3007 Request Letter 210 <input type="checkbox"/> Initial 3008a Order 220 <input type="checkbox"/> Initial 7003 Order 230 <input type="checkbox"/> Initial 3013 Order 240 <input type="checkbox"/> Initial 3008h Order 250 <input type="checkbox"/> Initial NON (Federal Facilities) 310 <input checked="" type="checkbox"/> Final 3008a Order 320 <input type="checkbox"/> Final 7003 Order 330 <input type="checkbox"/> Final 3013 Order 340 <input type="checkbox"/> Final 3008h Order 350 <input type="checkbox"/> Final Federal Facilities Comp Agreement	360 <input type="checkbox"/> CERCLA 106 Order 370 <input type="checkbox"/> CERCLA 104 Order 410 <input type="checkbox"/> Referral to Attorney General 420 <input type="checkbox"/> Referral to Department of Justice 510 <input type="checkbox"/> Civil Action 610 <input type="checkbox"/> Consent Decree 620 <input type="checkbox"/> Judicial Order 710 <input type="checkbox"/> Criminal Action 810 <input type="checkbox"/> State Referrral to EPA 820 <input type="checkbox"/> EPA Referral to State 830 <input type="checkbox"/> Referral to CERCLA 850 <input type="checkbox"/> Federal Facilities Referred to HQ
Penalty Assessed	\$ <u>13,800</u>
Settlement Amount	\$ <u>13,800</u>
Enforcement Comments: <u>PAID 6/1/92</u>	

VIOLATION DATA (The enforcement described above will be linked to the following violations)	
Violation Seq. ID	Area
<u>50003</u>	<u>GGR</u>
<u>-----</u>	<u>-----</u>
<u>-----</u>	<u>-----</u>

ENFORCEMENT

4/24/99

HANDLER DATA:	
EPA ID # <u>NV0008290330</u>	HANDLER NAME/ADDRESS <u>KERR MCGEE CHEMICAL</u> <u>HENDERSON, NV</u>

ENFORCEMENT DATA:		<input checked="" type="checkbox"/> Add <input type="checkbox"/> Change <input type="checkbox"/> Delete
AGENCY <input checked="" type="checkbox"/> S (S=STATE X=OVERSIGHT B=STATE CONTRACTOR)		
ENFORCEMENT DATE: <u>12/17/91</u> <i>POS</i>	ENFORCEMENT CONTROL # <u> </u>	
(M M D D Y Y)	(M M D D Y Y) (Seq. #)	
TYPE OF ENFORCEMENT (Check only one code)		
110 _____ Verbal Informal	350 _____ Final Fed Fac Comp Agreement	
120 _____ Written Informal (WL, NOV)	360 _____ CERCLA 106 Order	
205 _____ 3007 Request Letter	370 _____ CERCLA 104 Order	
210 _____ Initial 3008a Order	410 _____ Referral to Attorney General	
220 _____ Initial 7003 Order	420 _____ Referral to DOJ	
230 _____ Initial 3013 Order	510 _____ Civil Action	
240 _____ Initial 3008h Order	610 _____ Consent Decree	
250 _____ Initial NON (Fed Fac)	620 _____ Judicial Order	
310 <input checked="" type="checkbox"/> Final 3008a Order	710 _____ Criminal Action	
320 _____ Final 7003 Order	810 _____ State Referral to EPA	
330 _____ Final 3013 Order	820 _____ EPA Referral to State	
340 _____ Final 3008h Order	830 _____ Referral to CERCLA	
	850 _____ Federal Fac. Ref. to HQ	
RESPONSIBLE PERSON <u>Soulson</u> <u>NV AC</u> LAST NAME	PENALTY ASSESSED \$ <u> </u>	
	SETTLEMENT \$ AGREED UPON \$ <u> </u>	
	PENALTY COLLECTED \$ <u> </u>	

VIOLATION DATA:			The Enforcement actions listed above will be linked to the following violations.		
AGENCY	CONTROL NUMBER	VIOLATION TYPE	AGENCY	CONTROL NUMBER	VIOLATION TYPE
<input checked="" type="checkbox"/> S	<u>3004</u>	<u>GGR</u>	<input type="checkbox"/>	<u> </u>	<u> </u>
<input type="checkbox"/>	<u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>	<u> </u>
<input type="checkbox"/>	<u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>	<u> </u>