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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 49TH FIGHTER WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO



MEMORANDUM FOR MR. STEVE PULLEN
New Mexico Environment Department
Hazardous and Radioactive Materials Bureau
PO Box 261100
Santa Fe, NM 87502

FROM: 49 CES/CEVR
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

Ch 10-26-95
Row R
BARBARA H
Steve P

SUBJECT: Restoration Advisory Board (RAB) Meeting

1. Place: Alamogordo Civic Center, 800 First Street, Alamogordo NM
2. Time: 1900, 28 August 1995
3. Co-Chairs: Col Donald E. Belche 49 FW/EM
 Mr. Daniel King Mayor, City of Alamogordo
4. Attendance:

Col Donald E. Belche (Co-Chairman)	49 FW/EM
Mr. Dan King (Co-Chairman)	Mayor, City of Alamogordo
Lt Col William M. Crabbe	49 LG/CD
Maj Jesse W. Emerson	49 AMDS/SGPB
Lt Col Robert Henkel	49 CES/CC
Andrew Gomolak	4 SWS/CEV
SSgt Tamara J Hirst	49 FW/EM
Don Barker	46 TG/XPX
Bob Pepper	49 FW/PA
Howard E. Moffitt	49 CES/CD
John Poland	49 CES/CEV
Warren Neff	49 CES/CEV
Jennifer Mosle	49 CES/CEV
Tom Zink	USACE, Omaha District
Sandy Frye	USACE, Omaha District
Mark Mercier	USACE, Omaha District
Steve Pearson	USACE, Omaha District
Dan Holmquist	Foster-Wheeler
Ron Borrego	Foster-Wheeler
Ron Lubinski	Foster-Wheeler
Ron Versaw	Foster-Wheeler
Dino Bonaldo II	Foster-Wheeler

4. Attendance (cont.):

Brian Walz	Foster-Wheeler
Stephen Pullen	New Mexico Environment Department
Rosilee Winn	New Mexico Environment Department
Julie A. Jacobs	New Mexico Environment Department
Roger F. Ferreira	USGS
Timothy M. Murphy	BLM-Caballo Resource Area
Gordon Ewing	Mesilla Valley Audubon
Marianne H. Thaeler	Sierra Club
Lee Adams	Otero County
Harry Loper	Alamogordo resident
Patrick Cullumber	Alamogordo resident

5. Co-chairs Col Donald E. Belche, 49 FW/EM, and Mr. Daniel King, Mayor of Alamogordo, opened the meeting. Mr. Warren Neff, 49 CES/CEVR, was introduced.

6. Mr. Neff began by outlining the purpose of the RAB and the agenda for the meeting (Atch 2).

7. Mr. Neff continued by giving an overview of the Installation Restoration Program (IRP), the Comprehensive Environmental Reclamation, Liability and Compensation Act (CERCLA) and the Resource Conservation and Recovery Act (RCRA). He discussed the four phases of the IRP (Atch 3):

- a. Preliminary Assessment/Site Investigation (PA/SI) consists of a records search, visual identification, and possibly limited soil samples to identify possible sites.
- b. Remedial Investigation/Feasibility Study (RI/FS) is an in-depth investigation of a site including soil borings and monitoring wells, with the intent to define the nature and extent of the contamination. Applicable remedial technologies are then evaluated.
- c. Remedial Design/Remedial Action (RD/RA) is the design and implementation of a remedial technology to clean up the site.
- d. Site Close-out/No Further Action (SC/NFA) consists of the close-out of a site which has been cleaned up or poses no risk to human health or the environment. Close-out may or may not include long-term monitoring (LTM) at the site.

8. The status of the 60 IRP sites at Holloman was discussed by Mr. Neff (Atch 4). Thirty-seven sites have been closed-out. Ten to twelve more are anticipated to be closed-out this year. Holloman is keeping pace with the Air Force goal of having all sites closed-out by the year 2000. Four IRP sites remain in the PA/SI stage, 11 in the RI/FS stage, and 8 in the RD/RA stage.

9. Mr. Neff spoke on the RCRA Corrective Action Program (RCAP) (Atch 5). When Holloman applied for a RCRA Part B permit to store hazardous waste on-site, the United States Environmental Protection Agency (EPA) initiated a RCRA Facility Assessment (RFA). The RFA was performed in 1987 and identified 232 solid waste management units (SWMUs) at Holloman AFB. Of the 232, only 116 were considered to pose a potential risk and were

incorporated into 3 tables in Holloman's Hazardous and Solid Waste Amendments (HSWA) Permit. Each table contains approximately 40 SWMUs. The Table 1 SWMUs are the highest risk and therefore the highest priority for clean-up action.

10. Mr. Neff pointed out that the RCAP mimics the IRP and has five phases (Atch 6):
 - a. RCRA Facility Assessment (RFA) - performed by an EPA contractor and identifies SWMUs.
 - b. RCRA Facility Investigation (RFI) - investigation to identify the nature and extent of contamination, if any. If no contamination is found at a SWMU, then a permit modification is performed to remove it from the HSWA permit.
 - c. Corrective Measures Study (CMS) - applicable remedial technologies are evaluated.
 - d. Corrective Measures Implementation (CMI) - a remedial technology is constructed and operated.
 - e. Permit Modification/Site Close-out (SC) - documentation of site clean-up is compiled and a permit modification is initiated to remove the site from the HSWA permit.

Information on IRP sites, including work plans and reports for investigations and clean-up actions, is available at the Information Repository in the Alamogordo Public Library.

11. The status of the SWMUs at Holloman was discussed by Mr. Neff (Atch 7). There are no SWMUs in the RFA stage, 70 in the RFI stage, 23 in the CMS/CMI stage, and 23 SWMUs have been closed-out. In order to initiate a permit modification, a public meeting must be held to discuss the modification. This is followed by a comment period during which comments may be submitted to the EPA. The EPA then makes a decision and modifies the permit accordingly. The last permit modification hearing was in the Fall of 1993. Another hearing is anticipated in Jan 1996.

12. Mr. Neff presented the status of the Accelerated Clean-up Program (ACP) (Atch 8). Holloman is one of three ACP bases in Air Combat Command. The purpose of the program is to streamline the restoration process. The program is independently evaluated by Delta Research Corporation. The standard restoration process involves different contracts for each phase of work. Under the ACP, one contractor performs all phases allowing more flexibility in the project and saving time and money. The goal of the ACP is to have all remedial actions in place by the end of 1996. Holloman is on schedule to meet this goal with \$5M in construction work taking place in the next six months. The US Army Corps of Engineers Omaha District, Holloman's Service Center for environmental restoration contracts, administers and provides oversight on clean-up projects.

13. Mr. Neff discussed the restoration budget (Atch 9). The Air Force goal is to spend at least 60% of all restoration money on remedial action. Holloman spent 75% of its FY95 budget on clean-up activities, exceeding the Air Force goal. There was \$3.1M spent on IRP projects (71% to clean-up) and \$4.1M spent on RCAP projects (80% to clean-up) this year. IRP projects are funded with Defense Environmental Restoration Account (DERA) money. RCAP projects are funded with Corrective Action Compliance money.

14. Ms. Mosle presented the status of ongoing IRP projects (Atchs 10 & 11):

- A RCRA Facility Investigation (RFI) was completed for 29 sites in 1992. The Table 1 Phase 2 RFI is a follow-on investigation for 12 of these sites. The nature and extent of contamination has been fully delineated and the report submitted to the EPA and the New Mexico Environment Department (NMED).
- A Closure Plan, Risk Assessment and Biological Assessment for the wastewater treatment lagoons (IRP Site WP-49) have been submitted to the EPA this year. EPA risk assessors recently visited Holloman and were pleased with risk assessment efforts. An addendum to the risk assessment is due to be finished next month.
- PA/SI work was completed at four IRP sites: SS-06, SD-15, AOC-RR, AOC-BBMS. Some of these sites will go on the RI/FS stage and some will move on to SC.
- IRP site SD-47, POL Washrack, is the subject of a bioventing initiative. Bioventing is a natural remediation technique which allows the organisms present in the soil to clean-up a site by consuming the contamination. Oxygen is supplied to the subsurface via low flow venting wells. Bioventing is an extremely cost effective remedial technology. Several more of these systems are planned for sites on the base.
- A combination Soil Vapor Extraction (SVE), Air Sparging, Bioventing system is planned for installation at IRP site SS-57, the Officer's Club. This system will blow air through wells located below the water table to cause bubbles carrying hydrocarbon contamination to rise to the surface where wells installed above the water table will remove the hydrocarbon-laden vapors. Air will also be supplied to the subsurface to provide oxygen for the natural microorganisms to consume contamination in the soil.
- Long-term monitoring (LTM) is taking place at several sites on base. These sites do not pose a risk to human health or the environment, but are being monitored every other year for 10 years to verify the absence of a contamination source. For most of the sites, monitoring is a condition of site close-out.
- In November 1995, an asphalt cap with an impermeable liner will be installed at two IRP sites (SD-08 and OT-14) with pesticide contamination. The cap will prevent water from passing through the contaminated soil and leaching into the groundwater.
- The most visible remedial activity at Holloman is the SVE system being installed at the BX Service Station (IRP Site SS-17). Slotted pipe is placed in the subsurface and a vacuum is applied to remove hydrocarbon-laden vapors from the soil. This effort, which began on Aug 14, should complete the clean-up of this site.
- An SVE system was installed at IRP sites SS-02 and SS-05. This system has approximately 3,000 hours of run-time thus far. Vacuum wells remove hydrocarbon-laden vapors from the soil, while passive wells, open to the atmosphere, provide oxygen to the subsurface to encourage biological activity.

15. Ms. Mosle continued by discussing ongoing RCAP projects (Atch 12):

- A Table 3 RFI was completed and submitted to the EPA and NMED in July. This investigation included 23 SWMUs, 13 of which are expected to go to Conditional No Further Action (CNFA) with excavation.
- The T-38 Test Cell site (IRP Site SS-59/SWMU 229) has the most complicated remediation system. The Dual Phase Vapor Extraction (DPVE) system currently in place applies a strong vacuum to 11 wells to remove air, product, and water from the subsurface. The system separates out the product and then treats the air and water. Clean water is discharged to the subsurface. This system was installed as an interim remedial action.
- Twelve sites, mostly Table 3 SWMUs, were included in a basewide POL Remediation project. These sites posed no risk, but cleanup was required to meet the 1000 parts per million (ppm) total petroleum hydrocarbon (TPH) standard required by the NMED. Approximately 1,000 yards of soil were excavated.
- IRP Sites SS-59 (SWMU 229) and SS-60 (SWMU 230) are having full-scale remediation systems installed this year. The same DPVE technology discussed previously will be applied at these sites. The T-38 Test Cell remediation system will be expanded to 133 wells. The AGE Fuel Spill site (IRP Site SS-60/SWMU 230) DPVE system will have 7 wells.

16. Mr. Neff presented upcoming IRP projects (Atch 13):

- An asphalt cap has been designed for two IRP sites, SD-08 and OT-14. Installation is anticipated to take place in November.
- An SVE system is planned for installation at the Fire Training Area, IRP site FT-31. The system should also work to enhance biological activity at the site.
- A report was submitted in July 95 for excavation of soil at IRP site OT-44. Because the groundwater under Holloman is non-potable, the cleanup standard for soils is 1000 ppm TPH.
- The contamination at IRP site LF-58 was delineated and found to consist mostly of surface construction debris posing no risk. This debris will be removed and the site closed with no LTM condition.
- Sampling will take place at four landfill sites: LF-19, 21, 22, 23. These sites will have surface construction debris removed and will be sampled in order to eliminate LTM requirements.
- The Management Action Plan (MAP) is an executive summary of the sites at Holloman AFB. It also includes remediation schedules and cost data. A MAP has been generated for the last three years. It is recommended reading for persons interested in remediation activities at Holloman.

17. Mr. Neff introduced the upcoming RCAP projects (Atch 14):

- Long-term operation (LTO) is scheduled for the DPVE systems at IRP sites SS-59 and SS-60. It is expected that all product at these sites will be removed within 1 year and that the soil will be remediated in 3 years.
- Excavation is planned for several Table 2 and 3 sites. These sites do not pose any risk to human health or the environment. Remediation efforts are driven by the 1000 ppm TPH standard.
- A hydrocarbon landfarm will be established as a cost-effective means to treat soils excavated from sites at Holloman. This facility will be constructed of concrete. The addition of water and fertilizer to the soil will allow microorganisms to efficiently digest contamination. The remediated soil will be used for cover and fill purposes.
- A RFI will be conducted at two sites. SWMU 184 will be evaluated after the construction of the new wastewater treatment plant (WWTP) is complete. Area of Concern (AOC) - Bldg 1001 will be investigated to delineate the nature and extent of contamination. Very few sites at Holloman remain in the investigation phase; almost all are in the cleanup stage.

18. Proposed site closures were presented by Mr. Neff (Atch 15). Closure requirements under CERCLA require public notification of proposed action and documentation of the investigative and remedial efforts and funding in the form of Decision Documents (DDs). Twenty-nine DDs have been signed by the 49 FW/CC and the Secretary of the NMED; 10 to 12 are anticipated to be signed in the next 6 months by NMED Secretary Weidler and Brig Gen Carlson. Under RCRA, public notification of proposed action and submission of a permit modification request must be enacted. A public meeting to discuss the proposed action is held, followed by a 60-day comment period. Approval for the permit modification must then be gained from the EPA Region VI Administrator. Holloman expects to initiate the RCRA closure process at the end of the year. A public meeting to discuss the proposed action is anticipated in December or January.

19. Mr. Neff discussed each IRP site proposed for closure (Atchs 16 & 17). The majority of the contamination at these sites are fuel related:

- SS-02, POL Spill Site #1, has an SVE system in place; cleanup is estimated to be complete in 6 to 12 months.
- OT-03, TEL Burial Site, was excavated and confirmation samples were taken to verify the contaminated soil had been removed.
- OT-04, Acid Trailer Burial Site, had unconventional fuels contamination. Surface debris from this site was removed with contaminated soil.
- SS-05, POL Spill Site #2, is adjacent to SS-02 and being remediated by the same system.
- SD-08, Refuse Collection Truck Washrack Site, is going to receive a modified asphalt cap. LTM will be a condition of site close-out.

- SS-12, POL Fuel Line Spill Site #1, was the result of a reported leaking fuel line. An investigation found no detectable levels of contamination. This site is proposed for close-out.
- OT-14, Former Entomology Shop Site, is going to receive a modified asphalt cap. LTM will be a condition of site close-out.
- OT-20, Grit Chamber Burial Site, contains material removed from the WWTP grit chamber. The contaminants at this site are the same as those found in the lagoons except the levels are two to three times less.
- OT-24, Former Equipment Maintenance Area, was identified as a potential site, but no contamination was ever found.
- DP-30, Grease Trap Disposal Pits, contains grease from cooking grease traps. This site is proposed for site close-out with LTM.
- SD-33, Cooking Grease Disposal Pits, contains grease from cooking grease traps. This site is proposed for site close-out with LTM.
- OT-35, Spent Solvent Disposal Area, is in the vicinity of the Primate Research Laboratory. This site was identified as a possible spill site, but no contamination was found.
- SD-47, POL Washrack Discharge Area, has a bioventing system in place. Low levels of hydrocarbon contamination were present so it was selected as a site for natural remediation, i.e., letting the "bugs" do the work with the addition of some oxygen. Cleanup is expected to be complete in the upcoming months.
- SS-56, West Ramp Fuel Spill Site, was investigated in 1991, but no contamination was found. This site is proposed for close-out with LTM, just in case a source was present and not identified.

20. In summary, Mr. Neff stated that Holloman has an aggressive, proactive restoration program and has performed investigation at all sites (Atch 18). There was \$7M committed to restoration projects in FY95, 75% of which funded cleanup activities. The accelerated program at Holloman is approximately 2 years ahead of standard restoration programs.

21. Col Belche requested that attendees sign-in on the attendance sheet and invited the public to participate in the RAB. He asked if Holloman had any "bad actors?"

22. Mr. Neff responded the T-38 Test Cell Fuel Spill Site was the worst of Holloman's sites. It was a release of approximately 500,000 gallons of jet fuel. The soils in the area have very low permeability, thus contamination migrates very slowly. By the same token, the low permeability of the soils makes cleanup difficult; remediation of the soil at this site might push the year 2000.

23. In response to a question about the lagoons posed by Col Belche, Mr. Neff responded that all investigations have been completed. As soon as the new WWTP is activated, cleanup may begin. A sludge removal action in the 1980s that focused on Polychlorinated biphenyls (PCBs) greatly reduced the amount of contaminants and the associated risk.

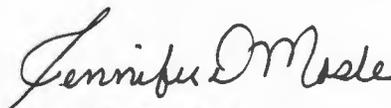
24. Col Belche asked if Holloman had any neighbors concerned about contamination. Mr. Neff responded that the closest well was 3 miles away and used for watering cattle. The lagoons are the only site which pose a potential threat off-site. Holloman is located downgradient from the City of Alamogordo, so the chances of impact are slim.

25. Ms. Marianne Thaeler asked what kind of "hit" Holloman expected to take from funding cuts. Mr. Neff responded that Holloman is lucky to be an ACP base. This status helped bring funds through in FY94 and FY95 since risk is the main driver in obtaining funding. Holloman has no high risk sites except for the lagoons and the T-38 Test Cell Fuel Spill Site. The budget is in place and awarded for remediation at the majority of Holloman's sites. DERA is anticipated to take a \$300M cut.

26. Ms. Thaeler asked how these cuts were going to affect the new WWTP since these can take 10 years to construct. Mr. Howard Moffitt responded that the new WWTP is fully funded and will be built in 1 year.

27. An attendee asked how hauling contaminated soil off-site solves a problem. Mr. Neff responded that the soil excavated from the lagoons was incinerated. Fuel-contaminated soil currently excavated goes to an off-site landfarm where it is remediated. Holloman plans to construct its own hydrocarbon landfarm in the near future.

28. Col Belche adjourned the meeting at 8 p.m..



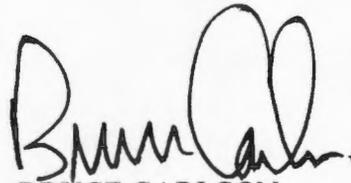
Jennifer D. Mosle
Recorder

Attachments:

1. Distribution List
2. Meeting Agenda
3. Installation Restoration Program (IRP)
4. Status of 60 IRP Sites
5. RCRA Corrective Action Program (RCAP)
6. RCRA Corrective Action Program (RCAP) cont.
7. Status of SWMUs
8. Status of Accelerated Cleanup Program (ACP)
9. Restoration Budget
10. Ongoing IRP Projects
11. Ongoing IRP Projects (Contd)
12. Ongoing RCAP Projects

- 13. Upcoming IRP Projects
- 14. Upcoming RCAP Projects
- 15. Proposed Site Closures
- 16. Proposed Site Closures (Contd)
- 17. Proposed Site Closures (Contd)
- 18. Summary

Approved as written:



BRUCE CARLSON
Brigadier General, USAF
Commander

DISTRIBUTION LIST

HOLLOMAN AIR FORCE BASE:

49 FW/CC
49 FW/JA
49 FW/SE
49 FW/PA
49 FW/EM
49 FW/EM (Hirst)
49 OG/CC
49 LG/CC
49 SPTG/CC
49 MMG/CC
49 MDG/SG
49 AMDS/SGPB
49 OSS/OSSTA
49 CES/CC
49 CES/CEV
49 SPS/CC
49 CS/CC
4 SWS/CC
46 TG/CC
46 TG/SE
46 TG/XPX (Barker)
DRMO/YDM
USACE/CESWA-CO-HM
Army Air/STEWS-SS
DynCorp/Land-Air
DynCorp/Radar Services
HSD DynCorp
Lockheed (LSSI/MAQE)
EG&G

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Restoration Advisory Board

Agenda

700 PM

Opening Remarks

- Col Belche
- Mayor King

715 PM

Technical Discussion

- Installation Restoration Program (IRP) Overview
- IRP/RCRA Corrective Action Status
- Restoration Budget
- Ongoing Projects
- Upcoming Projects
- Proposed Site Closures

745 PM

Co-Chair Comments/Open Discussion

800 PM

Adjourn



Restoration Advisory Board

Installation Restoration Program (IRP)

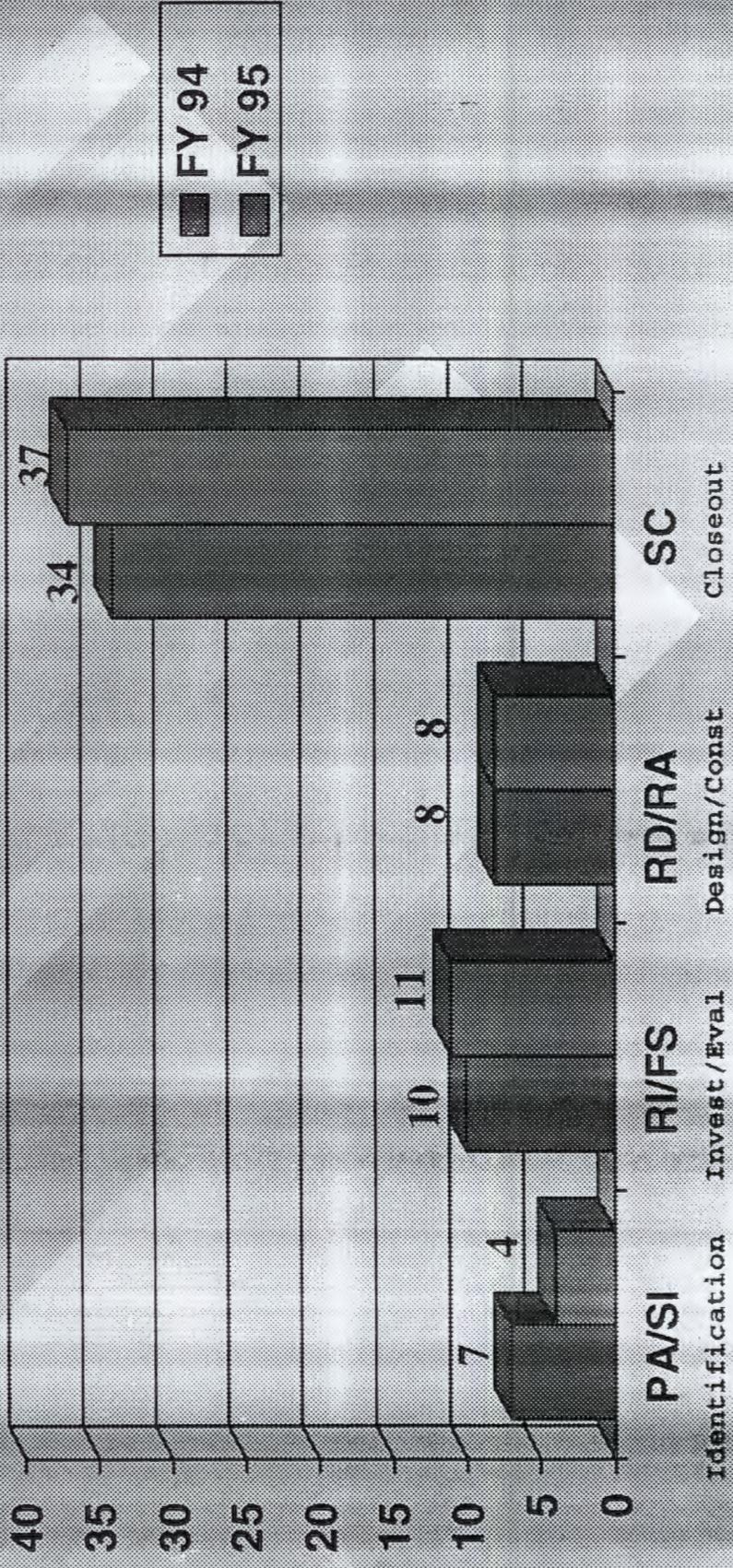
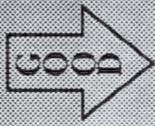
Program is Broken Into 4 Phases:

- Preliminary Assessment/Site Inspection (PA/SI)**
- Remedial Investigation/Feasibility Study (RI/FS)**
- Remedial Design/Remedial Action (RD/RA)**
- Site Closeout/No Further Action (SC/NFA)**



Restoration Advisory Board

Status of 60 IRP Sites





Restoration Advisory Board

RCRA Corrective Action Program (RCAP)

- Hazardous and Solid Waste Amendments (HSWA) Permit
 - Part of RCRA Part B Permit
 - HSWA Permit has 3 Tables--116 Solid Waste Management Units (SWMUs)
 - Tables Each Contain Approximately 40 SWMUs
 - Table 1 SWMUs--Highest Priority



Restoration Advisory Board

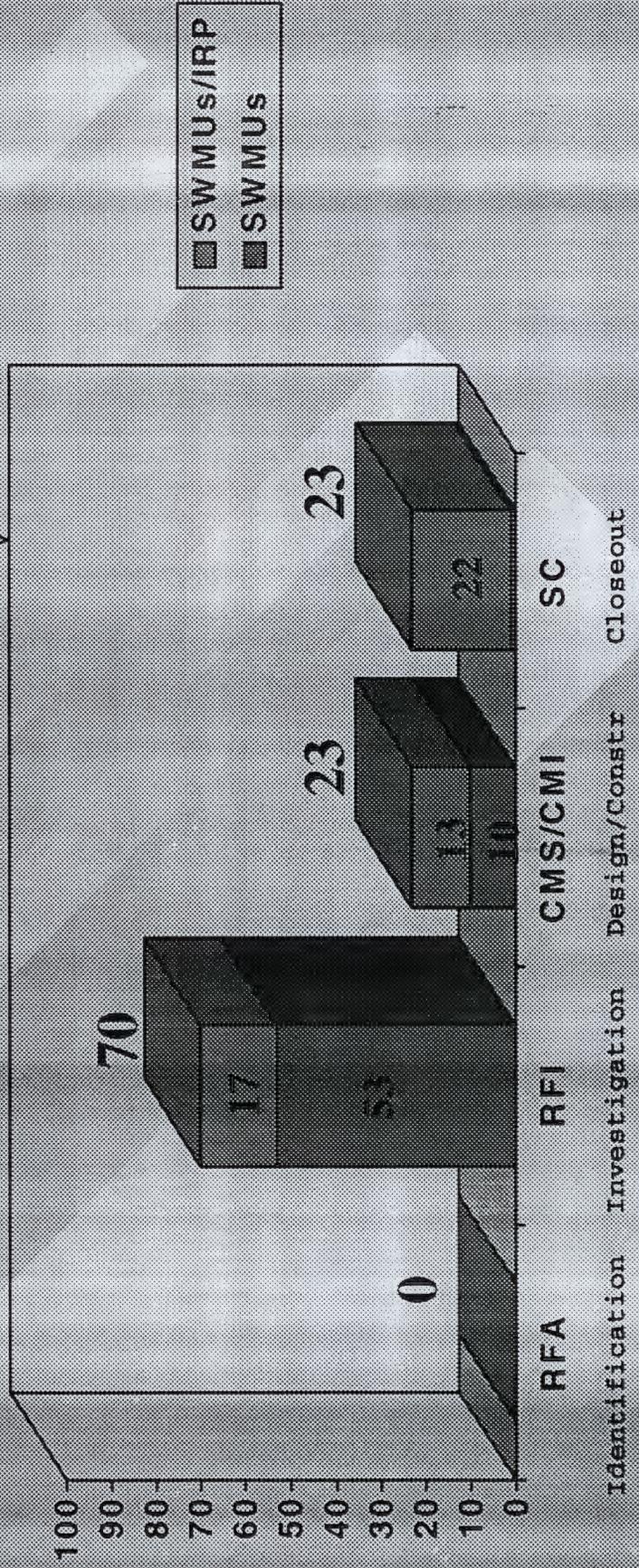
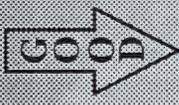
RCRA Corrective Action Program (RCAP)

- Mimics IRP Process:
 - RCRA Facility Assessment (RFA)**
 - RCRA Facility Investigation (RFI)**
 - Corrective Measures Study (CMS)**
 - Corrective Measures Implementation (CMI)**
 - Permit Modification/Site Closeout (SC)**



Restoration Advisory Board

Status of SWMUS



Identification Investigation Design/Constr Closeout



Restoration Advisory Board

Status of Accelerated Clean Up Program (ACP)

- Holloman--One of Three ACP Bases
- ACP--Being Independently Evaluated for Performance
 - Current Estimates:
 - Time Saved--51%
 - Money Saved--77-92%
- Goal--Remedial Action in Place by End of 1996



Restoration Advisory Board

Restoration Budget

- Emphasis DoD-Wide is % Budget to Clean Up**
 - **Air Force Goal--60%**
 - **Holloman --75% of FY95 Budget to Clean Up**
- \$3.1M in IRP Projects (71% to Clean Up)**
- \$4.1M in RCAP Projects (80% to Clean Up)**



Restoration Advisory Board

Ongoing IRP Projects

- Table 1 Phase 2 RFI
- WP-49 (Lagoons)--RI/FS
- 4 Site (SS-06, SD-15, AOC-RR, AOC-BBMS)--PA/SI
- SD-47--Bioventing Initiative
- SS-57--RD (SVE/Air Sparging/Bioventing)
- Multi Sites--LTM
- SD-08--RD (Modified Cap)



Restoration Advisory Board

Ongoing IRP Projects (Contd)

- OT-14--RD (Modified Cap)
- SS-17--RA (SVE)
- SS-02/SS-05--LTO (SVE)



Restoration Advisory Board

Upcoming RCAP Projects

- SS-59/SS-60--LTO (DPVE)
- Table 2/3--CMI (Excavation)
- Hydrocarbon Landfarm
- SWMU 184/AOC-Bldg 1001--RFI



Restoration Advisory Board

Proposed Site Closures

Specific Closure Requirements Under CERCLA

- Public Notification of Proposed Action
- Preparation of Decision Documents (DDs)
- Signing of DDs by New Mexico Environment Department Secretary Weidler and BrigGen Carlson

Specific Closure Requirements Under RCRA

- Public Notification of Proposed Action
- Submission of Permit Modification Request
- Public Meeting to Discuss Proposed Action
- 60-day Public Comment Period
- Approval by EPA Region 6 Administrator



Restoration Advisory Board

Proposed Site Closures (Cont'd)



Proposed Sites

- SS-02--POL Spill Site #1
- OT-03--TEL Burial Site
- OT-04--Acid Trailer Burial Site
- SS-05--POL Spill Site #2
- SD-08--Refuse Collection Truck Washrack
- SS-12--POL Fuel Line Spill Site #1
- OT-14--Former Entomology Shop
- OT-20--Grit Chamber Burial Site
- OT-24--Former Equipment Maintenance Area



Restoration Advisory Board

Proposed Site Closures (Contd)

- Proposed Sites (Contd)
 - DP-30--Grease Trap Disposal Pits
 - SD-33--Cooking Grease Disposal Pits
 - OT-35--Spent Solvent Disposal Area
 - SD-47--POL Washrack Discharge Area
 - SS-56--West Ramp Fuel Spill Site



Restoration Advisory Board

SUMMARY

- Holloman has Investigated All IRP Sites and SWMUs
- \$7M Committed to Restoration Projects in FY95
- Holloman Continues to Focus on Clean Up--75% of Budget
- Holloman Continues to Accelerate its Restoration Activities
- Holloman Strives to be a Proactive Steward of the Environment