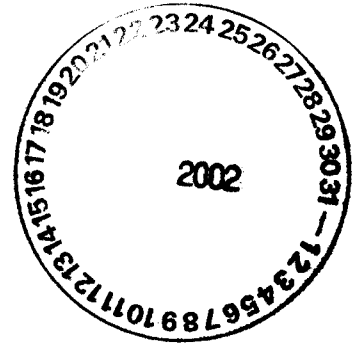


MANAGEMENT ACTION PLAN



Cannon Air Force Base, New Mexico
December 2001



MANAGEMENT ACTION PLAN

Cannon AFB, NM (ACC)

Air Force Project No. ACCH20017544

December 2001

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ACRONYMS

A-E	Architecture-Engineering
AAFES	Army Air Force Exchange Service
ACC	Air Combat Command
ACL	Alternative Concentration Limits
AFB	Air Force Base
AFCEE	Air Force Center for Environmental Excellence
AFCESA	Air Force Civil Engineering Support Agency
AFS	Air Force Station
ANSCs	Areas of No Suspected Contamination
AOC	Area of Concern
ARARs	Applicable or Relevant and Appropriate Requirements
AST	Aboveground Storage Tank
BCP	Base Comprehensive Plan
BHC	1,2,3,4,5,6 - Hexachlorocyclohexane
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CAFB	Cannon Air Force Base
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPC	Chemical of Potential Concern
CMS	Corrective Measures Study
CRP	Community Relations Plan
CSMs	Conceptual Site Models
DDs	Decision Documents
DDT	Dichlorodiphenyltrichloroethane
DERA	Defense Environmental Restoration Account
DERP	Defense Environmental Restoration Program
DOD	Department of Defense
DPM	Defense Priority Model
DRMO	Defense Reutilization and Marketing Office
DSMOA	Defense-State Memorandum of Agreement
ECP	Environmental Condition of Property
EDMDS	Environmental Data Management and Decision Support
EOD	Explosive Ordnance Disposal
EPA	U.S. Environmental Protection Agency
ERA	Environmental Restoration Account

ACRONYMS (Continued)

ERP	Environmental Restoration Program (Formerly IRP)
ERPIMS	Environmental Resources Program Information Management System
FFA	Federal Facility Agreement
FTA	Fire Training Area
FS	Feasibility Study
FY	Fiscal Year
GSA	General Services Administration
HQ	Headquarters
HRS-II	Hazard Ranking System
IAGs	Interagency Agreements
IRA	Interim Remedial Action
IRP	Installation Restoration Program
JP-4	Jet Propulsion Fuel
LF	Launch Facility
LTM	Long-Term Monitoring
LTO	Long-Term Operation
MAF	Missile Alert Facility
MAP	Management Action Plan
MCL	Maximum Concentration Limit
MOGAS	Motor Gasoline
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NMED	New Mexico Environmental Department
NEPA	National Environmental Policy Act
NFA	No Further Action
NFRAP	No Further Response Action Planned
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List
O&M	Operation and Maintenance
OSWER	Office of Solid Waste and Emergency Response
OU	Operable Unit
OW	Observation Wells
PA	Preliminary Assessment
PCBs	Polychlorinated Biphenyls

ACRONYMS (Continued)

PID	Photoionization Detector
POL	Petroleum, Oils, Lubricants
PP	Proposed Plan
PPE	Pathways, Parameters, and Equations
QA	Quality Assurance
QC	Quality Control
RA	Remedial Action
RA-C	Remedial Action – Construction
RA-O	Remedial Action – Operation
RAAS	Remedial Action Assessment System
RACER	Remedial Action Cost Engineering and Requirements System
RAGS	Risk Assessment Guidance for Superfund
RCAP	RCRA Corrective Action Plan
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RNSI	Rational National Standards Initiative
ROD	Record of Decision
RPM	Remedial Project Manager
SAC	Strategic Air Command
SARA	Superfund Amendments and Reauthorization Act
SATAF	Site Activation Task Force
SDWA	Safe Drinking Water Act
SI	Site Investigation
SLA	Sanitary Landfill Area
SOW	Statement of Work
SVOCs	Semi-volatile Organic Compounds
SWMU	Solid Waste Management Unit
TAC	Tactical Air Command
TCE	Trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids

ACRONYMS (Continued)

THC-FO	Total Hydrocarbons as Fuel Oil
THC-G	Total Hydrocarbons as Gasoline
TOX	Total Organic Halogens
TPH-G	Total Petroleum Hydrocarbons as Gasoline
TPH	Total Petroleum Hydrocarbons
TPM	Technical Project Manager
TRPH	Total Recoverable Petroleum Hydrocarbons
TRC	Technical Review Committee
TSCA	Toxic Substances Control Act
TSD	Treatment, Storage, and Disposal
USACE	U.S. Army Corps of Engineers
UST	Underground Storage Tank
VOC	Volatile Organic Compound
WIMS-ES	Work Information Management System - Environmental Subsystem
WORB	Work Order Review Board
WSA	Weapons Storage Area

EXECUTIVE SUMMARY

Introduction

The Environmental Restoration Program (ERP) Management Action Plan (MAP) summarizes the history and current status of the ERP, discusses the strategy being followed to complete the Environmental Restoration Account (ERA) program in an effective manner, and presents funding requirements. The objective of the MAP is to execute cleanup remedies and to attain response complete (RC) as early as possible. Meeting cleanup/RC schedules will insure a corresponding reduction in risk to human health and the environment.

This MAP is updated annually using data from the installation's Restoration Project Manager (RPM), Command Program Manager, Air Force Restoration Information Management System (AFRIMS), contractors, and Service Center. Information and estimates provided on costs, schedules, relative risk, and remedial activities do not necessarily represent those that have been or will be approved by the Air Force or state and federal regulatory agencies. The cost estimates are based on the best available information at the time of printing, and may vary dramatically over time.

Environmental response actions are planned and executed under the ERP in a manner consistent with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended (CERCLA) and the Resource Conservation and Recovery Act, as amended (RCRA). The ERP generally addresses contamination due to releases of hazardous substances or petroleum products that occurred prior to January 1984.

Restoration Program

Cannon AFB began its restoration program in 1983, and in 1987 the Base underwent a RCRA Facility Assessment as the result of an application for a RCRA Part B Permit to store hazardous waste. Numerous potentially contaminated areas were identified during the ERP and RCRA investigations. Cannon AFB has consolidated the eligible contaminated areas into 27 ERP sites encompassing 25 Solid Waste Management Units (SWMUs) and 8 Areas of Concern (AOCs). Of the 33 SWMUs/AOCs, 27 were listed in the original Part B permit and 6 were subsequently identified. Although one site, DP-33, was never listed as an SWMU or AOC and therefore falls under the category of miscellaneous sites, it was investigated and remediated using ERA funds.

The major contaminants identified on Cannon AFB have been petroleum constituents, although minor contamination by pesticides, herbicides, PCBs, and heavy metals has been found at some sites. Melrose Range, overall, is an additional site and in some respects is programmed separately. There are 8 SWMUs and AOCs at Melrose Range that are being investigated with environmental compliance funds because it is still an active range, but the historical impact area is scheduled for investigation under ERA since live bombs were used from 1952 to 1969.

Community involvement has been an integral part of the ERP, and Cannon AFB continues to have a very good working relationship with regulators and the public. Partnering meetings between DOD and NMED are held every two months on average and provide a forum where issues can be discussed and ironed out amicably. Cannon AFB started a Restoration Advisory