



# LOS ALAMOS

LOS ALAMOS NATIONAL LABORATORY

ER Record I.D.# 0076063

ENVIRONMENTAL RESTORATION  
Records Processing Facility  
ER Record Index Form  
(Side 1 of 2)

DATE RECEIVED: 05/21/93 PROCESSOR: YCG

**Part I:** Complete all fields; indicate if not applicable or appropriate; please write legibly.

DOCUMENT TO: M.M. Backsen DOCUMENT DATE: 03/31/93  
 ORIGINATOR NAME: L.W. Cramer ORGANIZATION: M-7  
 SYMBOL: M-7-92-0552 PAGE COUNT: 1  
 SUBJECT/TITLE: Reference Documentation

RECORD TYPE (Circle relevant type for primary record; type of attachments should be selected on *Keywords List*):

- |                         |           |                |                        |                  |
|-------------------------|-----------|----------------|------------------------|------------------|
| Analytical Data         | Excerpt   | Map            | Plan                   | Study            |
| Article                 | FAX       | Memo           | Procedure              | Summary          |
| Chain-of-Custody        | Figure    | Microform      | Purchase Request       | Telephone Record |
| Chart                   | Form      | Notebook       | Receipt Acknowledgment | TOC              |
| Computer Output         | Interview | Outline        | Report                 | Transcription    |
| Contract                | Letter    | Personal Notes | Review                 | Video            |
| Controlled Distribution | List      | Photo          | SOW                    | Work Plan        |
| Drawing                 | Logbook   |                |                        | Other _____      |

RECORD CATEGORY: P  
(P for Programmatic or R for Reference)

RECORD PACKAGE #: \_\_\_\_\_

RECORD FILMED (Y/N): Y

RECORD LOCATION: \_\_\_\_\_  
(Indicate location of record if not filmed.)

**Part II:** Complete all fields; indicate if not applicable or appropriate; please write legibly. Use *ER Record Index Form Attachment Sheet* if needed.

ATTACHMENTS FILMED (Y/N): \_\_\_\_\_  
(Were attachments to this record filmed?)

LOCATION: \_\_\_\_\_  
(Indicate location of attachments.)

**TECH AREA(S)**  
LIST RELEVANT TECH AREA(S).

6  
6  
22  
40

**ADS NO(S)**  
LIST RELEVANT ADS NO(S).

1111

**WBS NO(S)**  
LIST RELEVANT WBS NO(S).

1.4.2.6.1.14

**STRUCTURE NO(S)/MDA**  
LIST RELEVANT STRUCTURE NO(S)/MDA.

6-1  
6-6  
22-93  
22-5  
22-52  
22-91  
40-1



**Part III:** Complete all fields; indicate if not applicable or appropriate; please write legibly. Use *ER Record Index Form Attachment Sheet* if needed.

**PRS NO(S)**  
*LIST RELEVANT PRS NOS.*

\_\_\_\_\_

**DOCUMENT TO**  
*LIST MULTIPLE RECIPIENTS.*

\_\_\_\_\_

**ORIGINATOR NAMES**  
*LIST MULTIPLE ORIGINATORS.*

\_\_\_\_\_

FILE FOLDER: \_\_\_\_\_

CORRECTION (Y/N): \_\_\_\_\_  
(Is this a correction to a record previously processed?)

CORRECTED #: \_\_\_\_\_  
(If answer is Yes, please give ER Record # for corrected record.)

CORRECTION DESCRIPTION (Optional): \_\_\_\_\_

SUPERCEDE: \_\_\_\_\_ REPLACE: \_\_\_\_\_ DELETE: \_\_\_\_\_ ADD: \_\_\_\_\_ REVISE: \_\_\_\_\_

**ATTACHMENT LIST**

N/A

KEYWORDS: Circle relevant KEYWORDS from the list below for ER Record #: 15063

MISCELLANEOUS (List other indexing criteria as necessary; please write legibly):

OU 1111

<b>Abandon</b>	<b>Burn</b>	<b>Contaminant</b>	<b>ERDA</b> (Energy Research and Development Administration)	<b>Glove Box</b>
<b>Aboveground Tank</b>	<b>Burn Site</b>	<b>Contract</b>	<b>Erosion</b>	<b>Graph</b>
<b>Absorption</b>	-----	<b>Control</b>	<b>Error</b>	<b>Guidance</b>
<b>Abstract</b>	<b>Cadmium</b>	<b>Controlled Distribution</b>	<b>ES&amp;H</b> (Environment, Safety, and Health)	<b>Gun</b>
<b>Accelerator</b>	<b>Caisson</b>	<b>Core</b>	<b>Estimate</b>	-----
<b>Access</b>	<b>Calibration</b>	<b>Corrective Action</b>	<b>Evacuation</b>	<b>Handling</b>
<b>Accident</b>	<b>Canyon</b>	<b>Correspondence</b>	<b>Evaluation</b>	<b>Hazardous</b>
<b>Accumulation</b>	<b>Capacitor</b>	<b>Criteria</b>	<b>Evaporator</b>	<b>Health</b>
<b>Acid</b>	<b>Caustic</b>	<b>Cyanide</b>	<b>Excavation</b>	<b>HE</b> (High Explosive)
<b>Active</b>	<b>CEARP</b> (Comprehensive Environmental Assessment and Response Program)	<b>Data</b>	<b>Exclusion</b>	<b>History</b>
<b>Administrative</b>	<b>Cement</b>	<b>Deadline</b>	<b>Exhaust</b>	<b>Hole</b>
<b>ADS</b> (Activity Data Sheet)	<b>CERCLA</b> (Comprehensive Environmental Response, Compensation, and Liability Act)	<b>Decision Analysis</b>	<b>Experiment</b>	<b>Home Owner</b>
<b>Adsorption</b>	<b>Certification</b>	<b>Decommission</b>	<b>Explosive</b>	<b>Hood</b>
<b>AEC</b> (Atomic Energy Commission)	<b>Cesium</b>	<b>Decontamination</b>	<b>Exposure</b>	<b>HSWA</b> (Hazardous and Solid Waste Amendments)
<b>Aerial</b>	<b>Chain of Custody</b>	<b>Deficiency</b>	<b>Extension</b>	<b>Hydrology</b>
<b>Agenda</b>	<b>Chamber</b>	<b>Deliverable</b>	<b>Extraction</b>	-----
<b>Agreement</b>	<b>Change Control</b>	<b>Demolition</b>	<b>Facility</b>	<b>Impact</b>
<b>Air</b>	<b>Change Order</b>	<b>Description</b>	<b>Fallout</b>	<b>Implementation</b>
<b>Alpha</b>	<b>Charge</b>	<b>Detection</b>	<b>Farm</b>	<b>Implosion</b>
<b>Americium</b>	<b>Chart</b>	<b>Detonation</b>	<b>FAX</b>	<b>Impoundment</b>
<b>Analysis</b>	<b>Checklist</b>	<b>Development</b>	<b>Fence</b>	<b>Inactive</b>
<b>Analytical</b>	<b>Chemical</b>	<b>Discharge</b>	<b>Field</b>	<b>Incident</b>
<b>AOC</b> (Area of Concern)	<b>Chromium</b>	<b>Disposal</b>	<b>Figure</b>	<b>Incinerator</b>
<b>Approval</b>	<b>Cleanup</b>	<b>Documentation</b>	<b>Filter</b>	<b>Industrial</b>
<b>Aquifer</b>	<b>Clearance</b>	<b>DOE</b> (Department of Energy)	<b>FIMAD</b> (Facility for Information Management, Analysis, and Display)	<b>Infiltration</b>
<b>ARAR</b> (Applicable, Relevant, or Appropriate Requirements)	<b>Closure</b>	<b>Dose</b>	<b>Finding</b>	<b>Injection Well</b>
<b>Archaeology</b>	<b>Clothing</b>	<b>DQA</b> (Data Quality Objectives)	<b>Fire</b>	<b>Injury</b>
<b>Archive</b>	<b>CMI/RA</b> (Corrective Measures Implementation/Remedial Action)	<b>Draft</b>	<b>Firing Site</b>	<b>Inorganic</b>
<b>Area</b>	<b>CMS/FS</b> (Corrective Measures Study/Feasibility Study)	<b>Drainage</b>	<b>Fiscal</b>	<b>Inspection</b>
<b>Arsenic</b>	<b>Cobalt</b>	<b>Drainline</b>	<b>Fission</b>	<b>Installation</b>
<b>Asbestos</b>	<b>Comment</b>	<b>Drawing</b>	<b>Five-Year Plan</b>	<b>Interim</b>
<b>Asphalt</b>	<b>Committee</b>	<b>Drilling</b>	<b>Flow</b>	<b>Interim Action</b>
<b>Assessment</b>	<b>Community Relations</b>	<b>Drop Tower</b>	<b>Flow chart</b>	<b>Internal</b>
<b>Audit</b>	<b>Compliance</b>	<b>Drum</b>	<b>Fluid</b>	<b>Interview</b>
-----	<b>Compressed Gas</b>	<b>Dry Well</b>	<b>Form</b>	<b>Inventory</b>
<b>Backfill</b>	<b>Computer Modeling</b>	<b>Dump</b>	<b>Framework</b>	<b>Investigation</b>
<b>Bacteria</b>	<b>Computer Output</b>	<b>Duplicates</b>	<b>Free</b>	<b>IRM</b> (Interim Remedial Measure)
<b>Barium</b>	<b>Concern</b>	-----	<b>Fuel</b>	<b>Isotope</b>
<b>Baseline</b>	<b>Concrete</b>	<b>Ecology</b>	<b>Fume</b>	<b>IWP</b> (Installation Work Plan)
<b>BCP</b> (Baseline Change Proposal)	<b>Concurrence</b>	<b>Effluent</b>	-----	-----
<b>Beds</b>	<b>Configuration</b>	<b>EIS</b> (Environmental Impact Statement)	<b>Gamma</b>	<b>Lab Job</b>
<b>Bermed Area</b>	<b>Construction</b>	<b>Emission</b>	<b>Gas</b>	<b>Laboratory</b>
<b>Beryllium</b>	<b>Container</b>	<b>Engineering</b>	<b>Generation</b>	<b>Lagoon</b>
<b>Beta</b>	<b>Containment</b>	<b>Environmental</b>	<b>Generic</b>	<b>Land</b>
<b>Biology</b>		<b>EPA</b> (Environmental Protection Agency)	<b>Geochemistry</b>	<b>Landfill</b>
<b>Blank</b>		<b>Equipment</b>	<b>Geology</b>	<b>Laundry</b>
<b>Boiler</b>			<b>Geophysics</b>	<b>Leach</b>
<b>Boneyard</b>			<b>Glass Beaker</b>	<b>Lead</b>
<b>Bunker</b>				<b>Leak</b>
<b>Buried</b>				<b>Legal</b>

Letter	Observation	Quality	Scrap	Technical
Limit	Off-gas	QA (Quality Assurance)	Scrap Detonation Site	Technical Team
Lines	Oil	QP (Quality Procedure)	Screening	Technology
Liquid	Open	Quarterly Report	Scrubber	Telephone Record
List	Open Burning	-----	Soarch	Test Area
Log	Operation	Radioactive	Security	Testing
Logbook	Order	Radiochemistry	Seep	TLD (Thermoluminescent Dosimeter)
-----	Organic	Radionuclide	Seminar	TOC (Table of Contents)
Magazine	Organization	Radium	Semivolatile	Townsite
Management	OSHA (Occupational Safety & Health Administration)	Rationale	Septic	Toxic
Manhole	<b>OU (Operable Unit)</b>	RCRA (Resource, Conservation, and Recovery Act)	Sewer	Tracking
Map	Outfall	Reactor	Shaft	Training
Material	Outline	Receipt	Sheet	Transcription
MDA (Material Disposal Area)	-----	Acknowledgment	Shell	Transfer
Media	Pad	Recommendation	Shot	Transformer
Meeting	PA/RFA (Preliminary Assessment /RCRA Facility Assessment)	Reconnaissance	Silver	Transport
Memo	PCB (Polychlorinated Biphenyl)	Records	Site	Treatment
Mercury	Permit	Recovery	Sludge	Trench
Metal	Personal Notes	Recycle	Soil	Trip Report
Microform	Personnel	<b>Reduction</b>	Solid	Tritium
Minimization	Personnel Qualification	<b>Reference</b>	Solvent	TRU (Transuranic)
Minutes	Photo	Regulation	SOP (Standard Operating Procedure)	TSCA (Toxic Substances Control Act)
MIS (Management Information System)	Pilot Study	Release	SOW (Statement of Scope of Work)	Tuballoy
Mixed Waste	Pipe	Remediation	Specific	Tuff
MOA (Memo of Agreement)	Pit	Report	Spill	-----
Model	<b>Plan</b>	Request	Stack	Underground
Modification	Plant	Requirements	Standard	Uranium
Money (Allocation, Appropriation, Budget, Cost, Funding, etc.)	Plutonium	Research	Statistics	Urine
Monitoring	Pollution	Resin Bed	Steamline	USGS (United States Geological Survey)
Monthly Report	Polonium	Resolution	Steel	UST (Underground Storage Tank)
Mortar Impact Area	Polaroid	Resource	Storage	Utility
MOU (Memo of Understanding)	Potential	Respirator	Strontium	-----
MSA (Major System Acquisition)	Presentation	Response	Structure	Validation
-----	Prevention	Restoration	Study	Variance
NEPA (National Environmental Policy Act)	Priority	Restriction	Subcontractor	VE (Value Engineering)
NFA (No Further Action)	Procedure	Results	Subsurface	Ventilation
Nitrate	Program	Review	Summary	Verification
NMED (New Mexico Environment Department)	Programmatic	Revision	Sump	Video
NMEID (New Mexico Environmental Improvement Division)	Project	RFI/RI (RCRA Facility Investigation/Remedial Investigation)	Support	Volatile
NOD (Notice of Deficiency)	Project Leader	Risk	Surface	Volume
Nonexplosive	Propellant	RPF (Records-Processing Facility)	Surveillance	-----
Notebook	Property	-----	Survey	Warehouse
Notification	Proposal	Safety	Swipe	Waste
NPDES (National Pollutant Discharge Elimination System)	Protection	Salamander	SWMU (Solid Waste Management Unit)	Water
NRC (Nuclear Regulatory Commission)	Protocol	Salvage	System	WBS (Work Breakdown Structure)
Nuclear	PRS (Potential Release Site)	Sample	-----	Weapon
	Public	Sampling Plan	Table	Well
	Pump	Sanitary	Tank	<b>Work</b>
	Purchase Request	Satellite	Task	Working Group
	-----	Schedule	TCLP (Toxicity Characteristic Leaching Procedure)	-----
		Scope	TDD (Technical Document Description)	Zinc

**Los Alamos**  
NATIONAL LABORATORY  
**memorandum**

*Explosives Technology and Applications*  
M-7 Detonation Systems

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To/MS: M. M. Backsen/M704  
From/MS: L. W. Creamer/MS P950  
Phone/FAX: 7-6631/7-6301  
Symbol: M-7-92-0552  
Date: March 31, 1993

12-1-93 2.5

**SUBJECT: REFERENCE DOCUMENTATION**

The purpose of this memo is to provide documentation of statements I made in my historical input to the Septic System SWMUs in chapter 5 of the OU 1111 Work Plan. Some of the information came from discussions with W. H. Meyers and A. D. Van Vesseem as we worked on the document. Some, more recent information, came from my memory.

1. In my input document, I made a statement that TA-6-1 was used as a carpenter shop from 1944 to the early 1980s when the building was abandoned. Meyers and Van Vesseem mentioned the early use in our discussions and I remember that it closed in the early 1980s.
2. TA-6-6 was constructed to provide laboratory support to the test-firing activities at Two Mile Mesa site. It was used for this purpose until DF-Site was opened in 1950. This information came from discussions with Meyers and Van Vesseem during research.
3. Meyers and Van Vesseem said the Douglas Venable and his staff used TA-6-6 as an office during the design phase of PHERMEX.
4. I remember that TA-6-6 was used by E-Division in the 1970s and 1980s.
5. I made a statement in the input document that I had seen a metal stake with pieces of vitreous clay pipe and a channel leading from the area to the canyon to the south, in an area that appeared to have been disturbed approximately in the location showed on Engineering Drawing C-2020. I made the field reconnaissance in March 1992.
6. TA-22-93 opened in December 1984 when HE fabrications moved there from TA-22-1 at which time it was abandoned. Inert fabrication operations moved from TA-22-4 in the spring of 1985, and I moved in to the office building, TA-22-90 in the spring of 1985. TA-22-4 was demolished and removed in 1985.
7. In our research Meyers and Van Vesseem related the use of TA-22-5 as a machine shop (before TA-22-52 was built), a plastics shop, a potting laboratory, and a vapor deposition laboratory. I remember all operations except the machine shop and also use as an electronics laboratory and a warehouse.

Received by ER-RIPF  
MAY 21 1993  
YCG

8. TA-22-52 was built in the early 1950s as a machine shop and an electroplating laboratory as stated by Meyers and Van Vessem in our discussions. After the plating operation ended a metal etching operation was added. The etching operation ended in 1984 when it was moved to TA-22-91.
9. When I joined the Laboratory in 1976, TA-40-1 was used as an office building and had a small laboratory where small HE shots were fired in "boom boxes". Building 19 was an abandoned guard shack, and Building 23 was used for cable fabrication, electronics laboratories, and as a warehouse. I was told that these activities began in 1950 when the site was constructed. In the early 1980s Building 1 was remodeled into a Group Office for M-9 and the HE laboratory was removed. Cable fabrication moved to TA-22 at the same time and offices were added to Building 23 where that activity had been. The warehouse area in Building 23 was converted to offices, a laser laboratory, a carpenter shop and a staff shop.

  
L. W. Creamer

LWC:lwc

Cy: M-7 Files (ES&H)