

ER Record I.D.# 0015248

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

DATE RECEIVED: 06/09/93 PROCESSOR: MUB

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

DOCUMENT TO: C.K. Bofer DOCUMENT DATE: 01/23/93
ORIGINATOR NAME: L.W. Creamer ORGANIZATION: LANL
SYMBOL: M-7-93-0012 PAGE COUNT: 1
SUBJECT/TITLE: Overflow at 72-015(a)

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

- | | | | | |
|-------------------------|-----------|----------------|------------------------|------------------|
| Analytical Data | Excerpt | <u>Map</u> | Plan | Study |
| Article | FAX | <u>Memo</u> | Procedure | Summary |
| Chain-of-Custody | Figure | Microform | Purchase Request | Telephone Record |
| Chart | Form | Notebook | Receipt Acknowledgment | TDC |
| 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)	ADS NO(S)	WBS NO(S)	STRUCTURE NO(S)/MDA
<small>LIST RELEVANT TECH AREA(S)</small> <u>22</u>	<small>LIST RELEVANT ADS NO(S)</small> <u>1111</u>	<small>LIST RELEVANT WBS NO(S)</small> <u>1.4.2.6.1.14</u>	<small>LIST RELEVANT STRUCTURE NO(S)/MDA</small> <u>22-91</u>

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 NO(S).
22-015(a)

DOCUMENT TO
LIST MULTIPLE RECIMENTS.

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

[Empty box for Attachment List]

KEYWORDS: Circle relevant KEYWORDS from the list below for ER Record #: 15248

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

OU 1111, overflow, Permit 128,

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

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		Search	Test Area
Log	Operation	Radioactive	Security	Testing
Logbook	Order	Radiochemistry	Seep	TLD (Thermoluminescent Dosimeter)
	Organic	Radionuclide	Seminar	TOC (Table of Contents)
Magazine	Organization	Radium	Semivolatiles	Townsite
Management	OSHA (Occupational Safety & Health Administration)	Rationalia	Septic	Toxic
Manhole	OU (Operable Unit)	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	Reduction	Solid	Tritium
Minimization	Personnel Qualification	Reference	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)	Fit	Removal	Spill	
Model	Plan	Report	Stack	Underground
Modification	Plant	Request	Standard	Uranium
Money (Allocation, Appropriation, Budget, Cost, Funding, etc.)	Plutonium	Requirements	Statistics	Urine
Monitoring	Pollution	Research	Steamline	USGS (United States Geological Survey)
Monthly Report	Polonium	Resin Bed	Steel	UST (Underground Storage Tank)
Mortar Impact Area	Polaroid	Resolution	Storage	Utility
MOU (Memo of Understanding)	Potential	Resource	Strontium	
MSA (Major System Acquisition)	Presentation	Respirator	Structure	Validation
	Prevention	Response	Study	Variance
NEPA (National Environmental Policy Act)	Priority	Restoration	Subcontractor	VE (Value Engineering)
NFA (No Further Action)	Procedure	Restriction	Subsurface	Ventilation
Nitrate	Program	Results	Summary	Verification
NMED (New Mexico Environment Department)	Programmatic	Review	Sump	Video
NMEID (New Mexico Environmental Improvement Division)	Project	Revision	Support	Volatile
NOD (Notice of Deficiency)	Project Leader	RFI/RI (RCRA Facility Investigation/Remedial Investigation)	Surface	Volume
Nonexplosive	Propellant	Risk	Surveillance	
Notebook	Property	RPF (Records-Processing Facility)	Survey	Warehouse
Notification	Proposal		Swipe	Waste
NPDES (National Pollutant Discharge Elimination System)	Protection	Safety	SWMU (Solid Waste Management Unit)	Water
NRC (Nuclear Regulatory Commission)	Protocol	Salamanca	System	WBS (Work Breakdown Structure)
Nuclear	PRS (Potential Release Site)	Salvage	Table	Weapon
	Public	Sample	Tank	Well
	Pump	Sampling Plan	Task	Work
	Purchase Request	Sanitary	TCLP (Toxicity Characteristic Leaching Procedure)	Working Group
		Satellite	TDD (Technical Document Description)	
		Schedule		Zinc
		Scope		

Los Alamos
NATIONAL LABORATORY
memorandum

Explosives Technology and Applications
M-7 Detonation Systems

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To/MS: C. K. Rofer
From/MS: L. W. Creamer/MS P950
Phone/FAX: 7-6631/7-6301
Symbol: M-7-93-0012
Date: January 23, 1993

19-0076

SUBJECT: OVERFLOW AT 22-015(a)

Effluent from TA-22-91 originally was piped to two seepage pits located east of the building. Each pit is four feet in diameter with a central four inch polypropylene perforated pipe vented to the surface. The pits are filled with gravel. The first pit is 26' deep and the other is 20' deep. A four inch pipe from the building enters the 26' pit about 2 1/2' from the surface, connects the central pipe, and continues to the 20' pit where it connects its central pipe.

Shortly after Building 91 was occupied in 1985, it was discovered that the pits did not work as planned. The effluent did not seep from the pits to the surrounding soil. It overflowed from the top vents and ran down the small canyon that bisects DF-Site. When NPDES permit 128 was approved the connection to the pits was severed and allowed to daylight. The overflow condition persisted for only a few months.

From mid-1985 to the present, the only effluent release from outfall 128 is non-contact cooling water, boiler blowdown, and final rinse water from the etching process. First and second rinse water from the etching process is piped to a 1000 gallon precipitation tank in TA-22-91 Room B160 where solids are allowed to settle. The top water is then pumped to a second 1000 gallon tank where it is allowed to settle again. Top water from this tank is pumped to a third 1000 gallon tank where it is treated to balance pH. Water is then pumped to 330 gallon TUFF tanks in a less-than-90-day storage area outside to await pickup by EM-7 for disposal.

Spent etchant solution is drummed and stored in the less-than-90-day storage area for pickup by EM-7

L. W. Creamer

L. W. Creamer

LWC:lwc

Cy: M-7 Files (OU1111)

