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0.12.00.596.5.222

ER ID NO. 59602 *Date Received:* 9/28/98 *Processor:* DIC *Page Count:* 35

Privileged: (Y/N) N *Record Category:* P *Record Package No:* 306

FileFolder: FY 98 PERFORMANCE MEASURES RECORDS PACKAGE #306 ADDITION SUBMITTAL #13/D&D REPORTS

Correction: (Y/N) N *Corrected No.* 0 *Corrected By Number:* 0

Administrative Record: (Y/N) Y

Refilmed: (Y/N) N *Old ER ID Number:* 0 *New ER ID Number:* 0

Miscellaneous Comments:

N/A

14327

THIS FORM IS SUBJECT TO CHANGE. CONTACT THE RPF FOR LATEST VERSION. (JUNE 1997)

(35)

Los Alamos National Laboratory

UNIVERSITY OF CALIFORNIA

Environmental Restoration Project
MS M992
Los Alamos, New Mexico 87545
505-667-0808/FAX 505-665-4747

Date: September 22, 1998
Refer to: EM/ER:98-374

Mr. Ted Taylor
Department of Energy
Los Alamos Area Office, MS A316
Los Alamos, NM 87545

SUBJECT: D&D REPORTS FOR FOUR TA-16 STRUCTURES (FORMER OU 1082, FU 3) TO FULFILL PM FOR FUNCTIONAL AREA A.3

Dear Ted:

Enclosed are two copies of the Decontamination and Decommissioning (D&D) Reports that cover removal and cleanup of structures Technical Area (TA) 16-10, TA-16-13, TA-16-27, and TA-16-63. The D&D Reports are complete and submitted to the Department of Energy-Los Alamos Area Office (DOE-LAAO) in satisfaction of Appendix F Performance Measures for Fiscal Year 1998 (FY98) approved by DOE-LAAO on April 3, 1998, and revised May 14, 1998.

The D&D Reports are being submitted in fulfillment of the "good" level of performance for Functional Area A.3, D&D Work Performed in Fiscal Year 1998 (Enclosure 1), which requires submittal of the documents to DOE-LAAO for review and acceptance. These Environmental Restoration (ER) Project D&D Reports have been completed in accordance with all appropriate ER procedures and report on-line guidance.

If you have any questions or comments, please contact Miguel Salazar at 665-3056.

Sincerely,

Julie A. Canepa

Julie A. Canepa, Program Manager
Environmental Restoration Project

JC/MS/dm

Enclosures: (1) PM for Functional Area A.3
(2) Two Copies of the D&D Reports for Structures TA-16-10, TA-16-13, TA-16-27, and TA-16-63 (Former OU 1082, FU 3)

Received by ER-RMS
SEP 2 8 1998
Dic

Cy (w/ enc.):
J. Newlin, CST-7, MS M992
M. Salazar, EM/ER, MS M769
RPF, MS M707, Record Package 306

Cy (w/o enc.):
T. Baca, EM, MS J591
D. Boak, TSA-10, MS M992
A. Dorries, TSA-11, MS M992
V. George, EM/ER, MS M992
R. Hutton, SAIC, MS J521
D. McInroy, EM/ER, MS M992
J. Mose, LAAO, MS A316
H. Orr, EM/ER, MS M992
EM/ER File (CT #C284), MS M992
EM/ER File, MS M992
D&D File # 98-038, MS M769

Functional Area A.3. Decontamination and Decommissioning work performed in FY98. Weight 12%

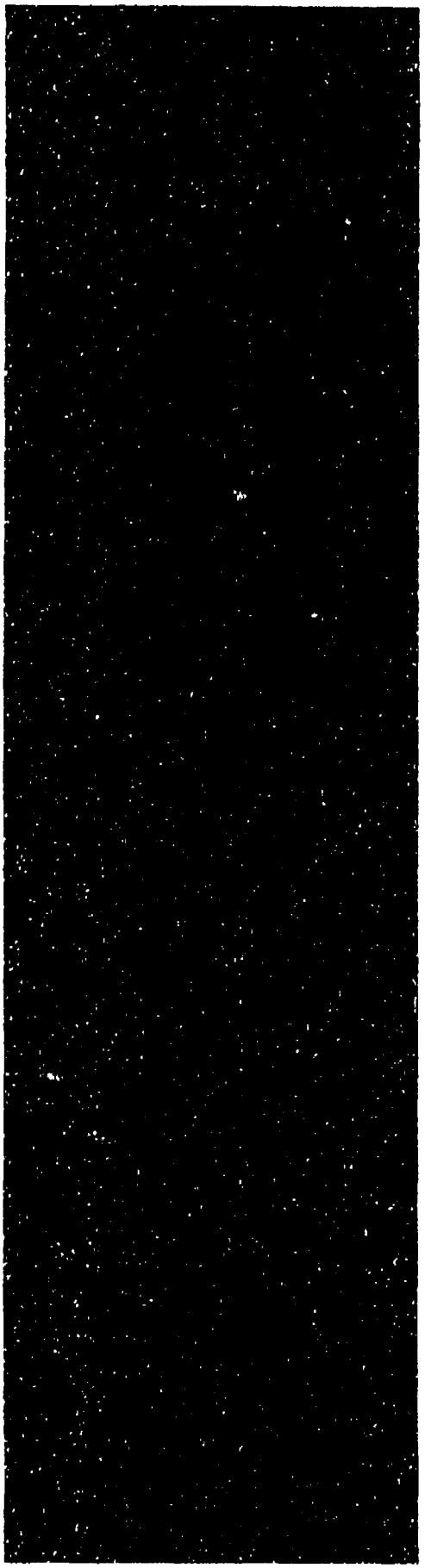
Unsatisfactory	Decontaminate, decommission and submit reports on fewer than 3 structures.
Marginal	Submit reports on 3 structures decontaminated and decommissioned in FY98.
Good	Submit reports on 4 structures decontaminated and decommissioned in FY98.
Excellent	Submit reports on 5 structures decontaminated and decommissioned in FY98.
Outstanding	Submit reports on 6 structures decontaminated and decommissioned in FY98.

Assumptions

1. The number of NFA recommendations to obtain a "good" rating is based on the number in the ER Project Baseline (see General Assumption 1) and in increments of one structure from each previous rating for the other ratings.

2. The format for the reports submitted in FY98 will follow the same format as used for the Decontamination and Decommissioning Reports submitted in FY97 (or as mutually changed and documented by DOE and UC).

3. Credit for completion will be obtained when the final report(s) is (are) submitted to and accepted by (following General Assumption 5) DOE-LAAO.



Decommissioning Completion Report for High-Explosive Facilities at Technical Area 16
(Buildings 27, 10, 13, and 63)

Larry Byars
Decommissioning Project Leader
Environmental Management Programs

September 1998

Los Alamos
NATIONAL LABORATORY

CONTENTS

1.0 INTRODUCTION

The University of California, Los Alamos National Laboratory (Laboratory) is tasked to decommission surplus facilities at TA-16 as directed by the Department of Energy (DOE). Tasks performed on this subcontract will be under the direction of the Laboratory's Environmental Restoration Project office (EM/ER) in compliance with DOE Order 5820.2A, Chapter V.

The twenty-five buildings at TA-16 were constructed in the 1940s for use in machining, processing, handling, and storage of the high explosive (HE) components of nuclear weapons. Most of these facilities have been out of service since the late 1950s and are in a state of disrepair. The Project Management Plan for decommissioning these facilities, #DAD-EM/ER-95-001, was approved in August 1995. The final report will be submitted when all twenty-five buildings have been decommissioned.

The hazards at these facilities have been characterized, and decommissioning began in August 1995 with seven bunkers and two storage buildings being completed in September 1995. Six HE process buildings, one storage shed, and one guard station were decommissioned in FY96.

In FY 97 work at TA-16 was stopped by direction from Department of Energy headquarters (DOE/HQ) to reconsider the historical significance of building TA-16-27 and the V-site buildings (TA-16-515, -516, -517, -518, -519, and -520). In October 1997, DOE/HQ gave direction through DOE/LAAO to proceed with the decommissioning of the remaining buildings on the TA-16 decommissioning list with the exception of the V-site buildings.

The purpose of this report is to document the completion of decommissioning work for buildings TA-16-27, -10, -13, and -63. All were completed in FY98.

2.0 DESCRIPTION OF PROJECT

This project was accomplished by placing two separate task orders on our decommissioning Basic Ordering Agreement (BOA). The first task order was awarded to NES Government Services on June 19, 1997 to decommission building TA-16-27. The second task order was awarded to Morrison Knudsen, Inc. on April 3, 1998 to decommission buildings Ta16-10,13, ad 63. See Figure 1 for building locations.

2.1 Building 16-27

Building 16-27 was recently used as a storage facility, but it was primarily used to cast the HE lenses, and it contained large kettles and an elaborate water distribution system for precise temperature control. The building was a two-story wooden frame structure. The flooring on both levels was made of concrete that is constructed to function as a barrier for partial containment of He contaminated water. The different colors of pipe insulation were used to distinguish different temperatures of water used during the HE casting process. The building was approximately 8,001 square feet.

2.2 Building 16-10

Historical use of building 16-10 was as a manufacturing and storage building. The building was constructed in storage bays, but no evidence was found of any previous or current processing equipment. Approximately half of the building was constructed on a wooden sub floor with the remaining half constructed on a concrete slab. The building was wooden frame with a low-pitched roof constructed above wooden trusses. The building was 8,136 square feet in floor area on two levels.

Figure 1. Vicinity map/site plan.

2.3 Building 16-13

TA16-13 is an exterior wooden platform This platform was constructed of 10-in. steel I-beams with a wooden deck installed above. The I-beams were mounted on concrete footers. The structure was approximately 41 feet long by 20 feet wide.

2.4 Building 16-63

Building 16-63 is a small storage building. It is constructed of a wooden frame with a low-pitched roof. The building is constructed on a concrete slab. This structure is located outside the HE-controlled area in the S-Site parking lot. The building is approximately 495 square feet in floor area.

3.0 DECOMMISSIONING OBJECTIVES

3.1 Work Scope

The scope of work for the two task orders included the decommissioning of four buildings located in TA-16. The buildings were used for highexplosives manufacture, fabrication, and storage. The buildings were structure numbers 27, 10, 13, and 63. The decommissioning of these facilities included removal and disposal of all building structural components, piping, and earth barricades, both aboveground and belowground as well as all associated asbestos wastes, radioactive waste, and hazardous materials. The scope included the removal of all underground sumps and discharge piping to the outfalls.

At the close of decommissioning, shallow depressions remained where concrete slabs had been removed, and piles of earth remained from the demolition of the bunkers. Trenches created from the excavation of sumps and outfall pipes were backfilled to eliminate safety hazards, were compacted. The areas beneath the buildings, bunkers, sumps, and pipes were made accessable for RCRA Facility Investigation (RFI).

Currently, an RFI is being conducted at the TA-16 area. The RFI will conduct any environmental characterization and remediation required in the TA-16 area after the completion of building decommissioning.

3.2 Project Management/Oversight

The following sections outline personnel responsibilities for this project:

- The Laboratory Decommissioning Project Leader managed this project's budget, schedule, and technical performance. The Laboratory provides, implements, and operates the project planning and control system for the Environmental Restoration Project. The project leader uses this system to track and report cost and schedule variances to DOE.

- The DOE Field Project Coordinator ensured that the project meet DOE performance objectives and comply with all federal, state, and local laws and regulations.

- The Contractor Task Manager ensured that all terms outlined in the contract be completed. Terms include decontamination, demolition, waste segregation, waste transportation, waste disposal, worker safety, and site restoration.

- A Laboratory health and safety representative provided support and oversight of the contractor's health and safety program.
- The Contract Administrator placed the decommissioning task order and modifications approved by the Project Leader, acted as Laboratory representative on contractual matters with the contractor, ensured prompt payment of invoices and ensured prompt and equitable resolution of contractual disputes.

4.0 SUMMARY OF DECOMMISSIONING

4.1 Building Characterization

From April to June 1994, Los Alamos conducted preliminary characterization activities of the 25 abandoned buildings at TA-16. These activities were conducted through a task order contract in collaboration with ICF Kaiser Corporation. The methods used to develop and quantify the baseline information collected during preliminary characterization included

- reviewing historical information,
- conducting a visual inspection,
- conducting field tests for HE,
- implementing surveys for radiological contamination,
- reviewing engineering drawings,
- conducting a hazard analysis,
- estimating decontamination and decommissioning waste volumes,
- taking and analyzing photographs, and
- reviewing previous asbestos surveys.

This work uncovered the following hazards:

- HE contamination,
- pervasive asbestos-containing building materials and pipe insulation,
- lead-acid batteries,
- lead-based paint,
- low-level radioactive contamination in Building 92, and
- potential hantavirus.

Some structures appeared ready to collapse because of weathered components and/or load from earthen barricades. Rodent droppings, potentially containing hantavirus, were observed in all structures. A limited amount of radioactive contamination was found in one structure. PCBs were present in ballasts from fluorescent light fixtures.

4.2 Decommissioning Operations

The following table describes the procedure Los Alamos followed to successfully complete this component of the project.

Table 4.2.1 Decommissioning Operations

Task	Task Description
Contract procurement	The Laboratory used the existing decommissioning BOA (basic ordering agreement) to obtain fixed-price, competitive bids from two BOA contractors. Los Alamos selected NES Government Services for the task at Building 27 and Morrison Knudsen Corporation for this task at Buildings 10, 13, and 63. The tasks were awarded on the basis of low bid.
Readiness review and contractor mobilization	Los Alamos conducted a formal readiness review to ensure that all health, safety, and environmental issues had been addressed by both Laboratory and contractor personnel before mobilization. The signed-off readiness review checklist served as the notice to proceed for the contractor.
Blast shield removal	Blast shields consisted of steel-sheet piling covered with a dirt berm. They were removed with standard excavation equipment, and the steel was recycled.
Asbestos removal	The contractor submitted an asbestos characterization, removal, handling, and disposal plan that was approved and incorporated into the site-specific health and safety plan. The resultant asbestos, consisting of Class II roofing and siding material, as well as Class I thermal pipe insulation was removed and disposed of at the Keers Environmental AM Facility in Albuquerque, NM. (AM not defined.)
Interior piping removal	Because all utilities had been disconnected for several years, the inside piping was dry. Based on past experience, the Laboratory believed that the vacuum pipes contained HE residue. Therefore, special handling procedures were put into action. All pipes were spot tested for HE and decontaminated if necessary before being sent to a recycling facility.
Building dismantlement	The buildings were dismantled, and the pads and foundations were removed using standard construction equipment (e.g., backhoe, loader, and blade). The workers then segregated materials by waste type.
Soil removal	Because the sumps, drainlines, and building foot prints were considered potential release sites (PRSs), the remedial action contractor sampled the soil and removed contamination before the excavations were back filled. In some cases the remedial action contractor completed the back fill.
Concrete crushing	All clean concrete was staged on site to be crushed and recycled by another contractor using a gGovernment-owned concrete crusher.
Site restoration	The entire site was graded to provide natural drainage and reseeded with a blend of native grasses (50% buffalo grass and 50% blue grama grass).

5.0 WASTE MANAGEMENT

5.1 Management of Waste Generated

The Contractors segregated the waste as it was generated and managed it according to type and waste stream.

- Hazardous waste was placed in a less-than-90-day storage area until it could be shipped off-site or treated by burning at the open burn pad.
- Asbestos was packaged and shipped to an asbestos landfill.
- Concrete was stockpiled for crushing and reuse.
- Metals and asphalt were sent to an off-site recycler.
- The unpainted wood was used as fuel at the burning pad to flash the HE contaminated materials.

Table 5.1.1 Waste Types and Volumes for Building TA-16-27

Type	Estimated Volume (C.Y.)*	Actual Volume (C.Y.)
Friable asbestos	30	79
Nonfriable asbestos	60	49
Concrete	1500	1700
Metal	Not Estimated	340
HE waste	Not Estimated	60
Unpainted wood	Not Estimated	40

Table 5.1.2 Waste Types and Volumes for Buildings TA-16-10, 13, and 63

Type	Estimated Volume (C.Y.)	Actual Volume (C.Y.)
Asbestos	100	950
Concrete	600	800
Metal	Not estimated	90
HE waste	0	0
Rad Contaminated concrete	40	3
Unpainted wood	Not Estimated	60

* C.Y. = cubic yard

5.2 Final Disposition

The following tables describe material sent off-site for disposal.

Table 5.2.1 TA-16 Decontamination and Decommissioning Off-Site Waste Shipments

Waste Type	Quantity Shipped (C.Y.)	Landfill Shipped To	Completed Manifest on File
Friable asbestos	79	Keers, Mountainair, NM	Yes
Nonfriable asbestos	1,000	Waste Management, Rio Rancho, NM	Yes
Flashed HE residue (RCRA treated)	60	Waste Management Colorado Springs, CO	Yes
Sludge from V-site septic tank	270 gal.	Butterfield Station, AZ	Yes
Clean debris	1260	L. A. County	Yes

Table 5.2.2 Material Reused On-Site

Material	Volume (C.Y.)	Use at TA-16
Crushed concrete	2500	fill for erosion control
Unpainted wood	60	fuel for burn pad
Clean soil	200	fill and grading

Table 5.2.3 Material Sent to Off-Site Recycler

Material	Volume	Recycler	Use
Wooden trusses	20 C.Y.	Contractor	Reuse
Chain-link fence	200 Linear Ft	Contractor	Reuse
Asphalt	60 C.Y.	Contractor	Remelt
Metal	430 C.Y.	Ace Metals &Albuquerque Salvage	Remelt

5.3 Waste Minimization

5.3.1 Decontamination

Workers used a concrete saw to remove approximately 100 square feet of radioactive contamination concrete floor in Building 10 before demolition. This waste was then packaged and sent to TA-54 for size reduction before disposal. This decontamination resulted in reducing the potential low-level radioactive waste from over 40 cubic yards to less than 3 cubic yards.

The sumps, drain lines, and the sludge removed from the lines were flashed on the burn pad to remove HE contamination before disposal as industrial waste.

5.3.2 Recycling

To encourage the decommissioning contractor to recycle as much as possible, the Laboratory allowed the contractor to keep any proceeds or cost savings accrued from recycling. Because this was a competitive, fixed-price contract, the cost savings to the Laboratory were reflected in the bid price

5.3.3 Waste Avoidance

The contractor used administrative procedures to control the amount of personal protection equipment and decontamination materials used in the decommissioning process.

5.3.4 Segregation

Personnel used an HE field spot test kit to segregate HE-contaminated material for shipment to the burn pad. Concrete and rebar were separated at the crusher for recycling/reuse. HE-contaminated soil was segregated according to the area from which it was removed to prevent increasing the volume of contamination. The soils were managed by the the LANL ER Remedial Action Project as part of a Voluntary Corrective Measure (VCM).

6.0 Cost and Schedules

Activity	Estimated Cost	Actual Cost	Completion Date
Characterization (for 25 buildings)	$415K	$400K	June 1994
Engineering	$54K	$40K	April 1998
Project support	$219K	$820K	August 1998
ES&H support	$183K	$70K	August 1998
Building 27 decommissioning*	$479K	$1,070K	April 1998
Buildings 10, 13, 63 decommissioning*	$456K	$350K	August 1998
TOTAL	$1,806	$2,750K	

* *Includes decontamination, demolition, waste disposal, and site restoration.*

To restore the site once decommissioning activities were completed, the contractor backfilled all excavations, graded the site for natural drainage, and reseeded the area using native grasses and mulch. No utilities or contaminated materials were left on the site either above or below ground. All waste was removed from the site, with the exception of the crushed concrete, which was staged for use by other on-site contractors. The concrete crushing and excess soil staging area will remain in place until all the concrete is crushed, and then the concrete-crushing contractor will grade and reseed this area. The Laboratory will prepare a final report after all 25 structures are decommissioned.

7.0 LESSONS LEARNED, CONCLUSIONS, AND RECOMMENDATIONS

Both the schedule and the cost for this work were significantly impacted by the decision to reconsider the historical significance of V-Site after the demolition contractor was mobilized on the site. Even though a memorandum of agreement between the Laboratory, the DOE, and the State Historical Preservation Office (SHPO) was in place and required mitigation actions were taken, based on

unanticipated DOE/HQ preservation priorities it appears that the review process was not adequate in this case. One problem that was identified during the project was a shortage of resources in both the Laboratory and the DOE to do cultural resource reviews. In view of the fact that many future decommissioning projects involve facilities that are eligible for historic preservation, a review of the process and the resources available for making these assessments seems to be in order.

Another factor that caused a significant cost increase was the requirement to preserve numerous artifacts from Building 27. This requirement was not made known until the fixed price contract was in place, and the items to be removed were not identified until the contractor was working on-site. It was necessary to remove each item by hand, survey them for HE and radioactive contamination, and transport them to a staging area. A clear policy needs to be established regarding artifact removal from surplus contaminated buildings.

The cost also escalated because of the discovery of previously unidentified asbestos in Buildings 27 and 10, additional underground drain lines, and liquid in a septic tank that was thought to be dry. Additional characterization might have identified some of these items, but it is not clear that the overall costs would have been less. Another option would be to bid the waste disposal on a per unit volume basis. This probably would have saved money on the asbestos and drainlines.

8.0 REFERENCES

US Department of Energy, September 26, 1988. "Radioactive Waste Management," DOE Order 5820.2A. Washington, DC (DOE 1988).

Los Alamos National Laboratory, August 1995. "Decommissioning Management Plan, HE-Contaminated Buildings, TA-16," Los Alamos, New Mexico (Los Alamos National Laboratory document DAD-EM/ER-95-001).

Los Alamos National Laboratory, June 1994. "D&D Preliminary Characterization Report, TA-16," Volumes I & II, Los Alamos, New Mexico ().

Los Alamos National Laboratory, March 1996. "Voluntary Corrective Measure Plan SWMUs 16-026(m-p), 16-029 (k,l,q,s,t,u)."

Los Alamos National Laboratory, April 1995, "Proposed Effects and Treatment of Effects for Decontamination and Decommissioning of 28 S-Site Properties: TA-16," Los Alamos, New Mexico (LA-UR-95-1334)

APPENDIX A

ACCEPTANCE INSPECTION CHECKLIST

X-Sender: larryb@fimad.lanl.gov
Mime-Version: 1.0
Date: Fri, 21 Aug 1998 14:02:26 -0700
To: castanon_jesse@lanl.gov
From: Larry Byars <larry_byars@lanl.gov>
Subject: Final Inspection walkthrough For TA-16-10,13,63 Decommissioning Project
Cc: larry_byars@lanl.gov, miguels@fimad.lanl.gov

I conducted a final walkthrough of the subject project on Friday August 14, 1998 and noted the following items remaining to be completed.

* Some touch-up on grading
* Remove tree brush
* Complete reseed and mulch

As soon as these items are complete we can close this task order.

Larry L. Byars, P.E.
Decommissioning Project Leader
EM/D&D M.S. M769
P.O. Box 1663
Los Alamos, NM 87544
Phone: 505-667-8169
FAX: 505-667 9710

Los Alamos
NATIONAL LABORATORY
memorandum
Decontamination & Decommissioning, MS M769
Environmental Management Programs

To/MS: Distribution
From/MS: Larry Byars, EM/D&D, MS M769
Phone/FAX: 7-8169/7-9710
Symbol: EM/D&D:98-020
Date: March 21, 1998

SUBJECT: FINAL INSPECTION FOR BUILDING 27, DRAINLINES AND SUMPS DECOMMISSIONING PROJECT

ATTENDEES:

Debbie O'Connell, NES Government Services
Bill McCormick, ESA-FM
Larry Byars, EM/D&D
Pat Horkman, NES Government Services
Veronica Martinez, DOE/LAAO
Roger Goldie, ESA
Susan Cummings, ESA-FM

Restoration was complete at the footprint of building 27 and at the drainline removal sites except as noted on the attached sketch. The spoils piles and waste drums remaining are the responsibility of the remedial action field team that is still on site.

NES has removed one field trailer, but has left one on site to use during the future concrete crushing contract.

With the exception of the final report, all requirements of this task order have been met. It can be closed as soon as BUS processes the outstanding change orders, modifies the contract and we receive the final report.

LB:ng

Attachment: a/s

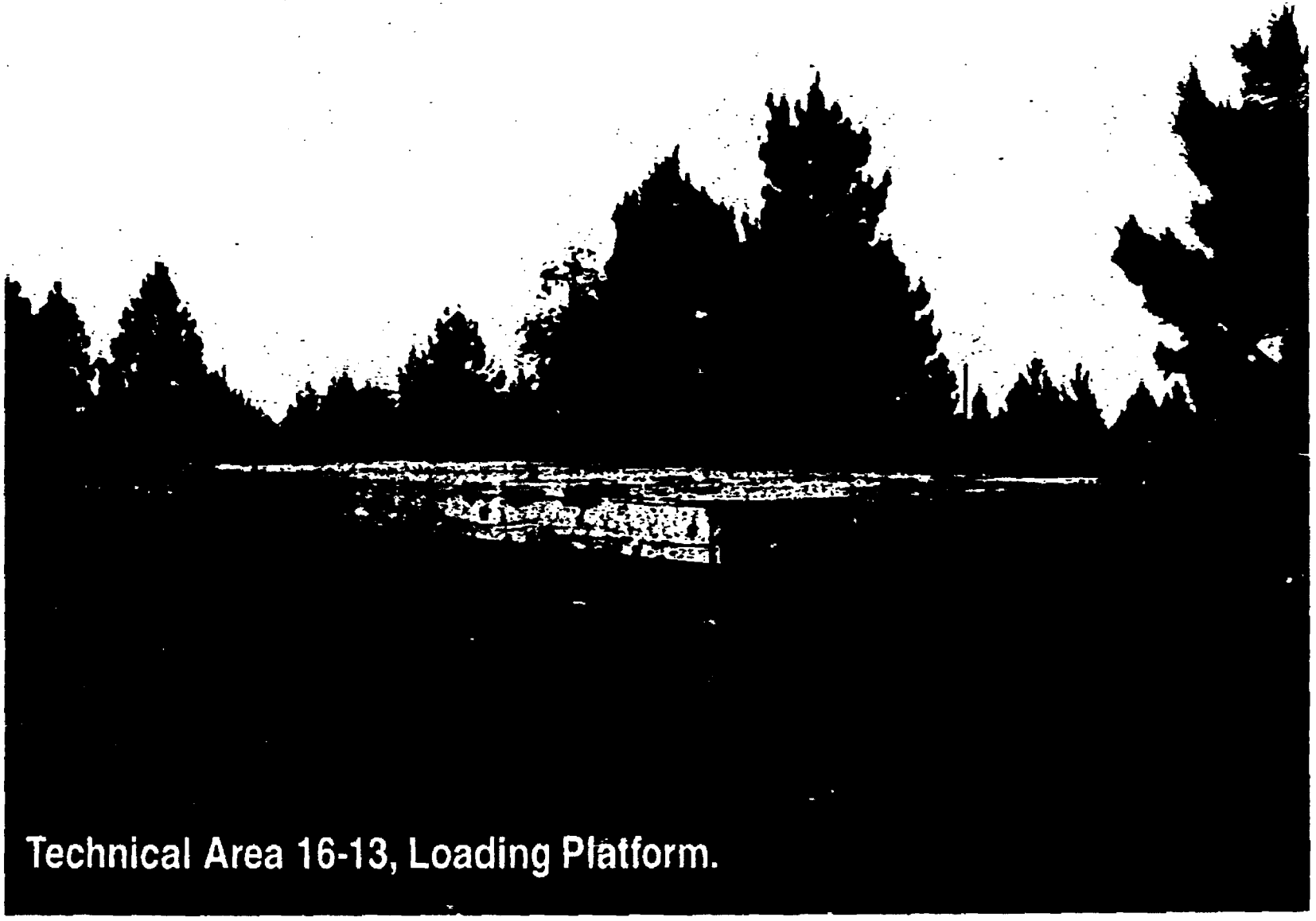
Cy: w/Att.:

D. O'Connell, NES Government Services
P. Horkman, NES Government Services
S. Cummings, ESA-FM-ESH, MS C928
R. Goldie, ESH-5, MS C928
K. Rendell, FSS-6, MS M984
A. Bailey, BUS-5/ER, MS M992
M. Salazar, EM/D&D, MS M769
E. Christie, DOE/LAAO, MS A316
J. Mose, DOE/LAAO, MS A316
T. Nguyen, ESH-5, MS K494
B. McCormick, ESA-FM-ESH. MS C928
M. Sanders, EM/D&D, MS M769
V. Martinez, DOE/LAAO, MS A316
R. Michelotti, EM/ER, MS J563

w/o att.:
Decommissioning file, MS M769
CIC-10, MS A150

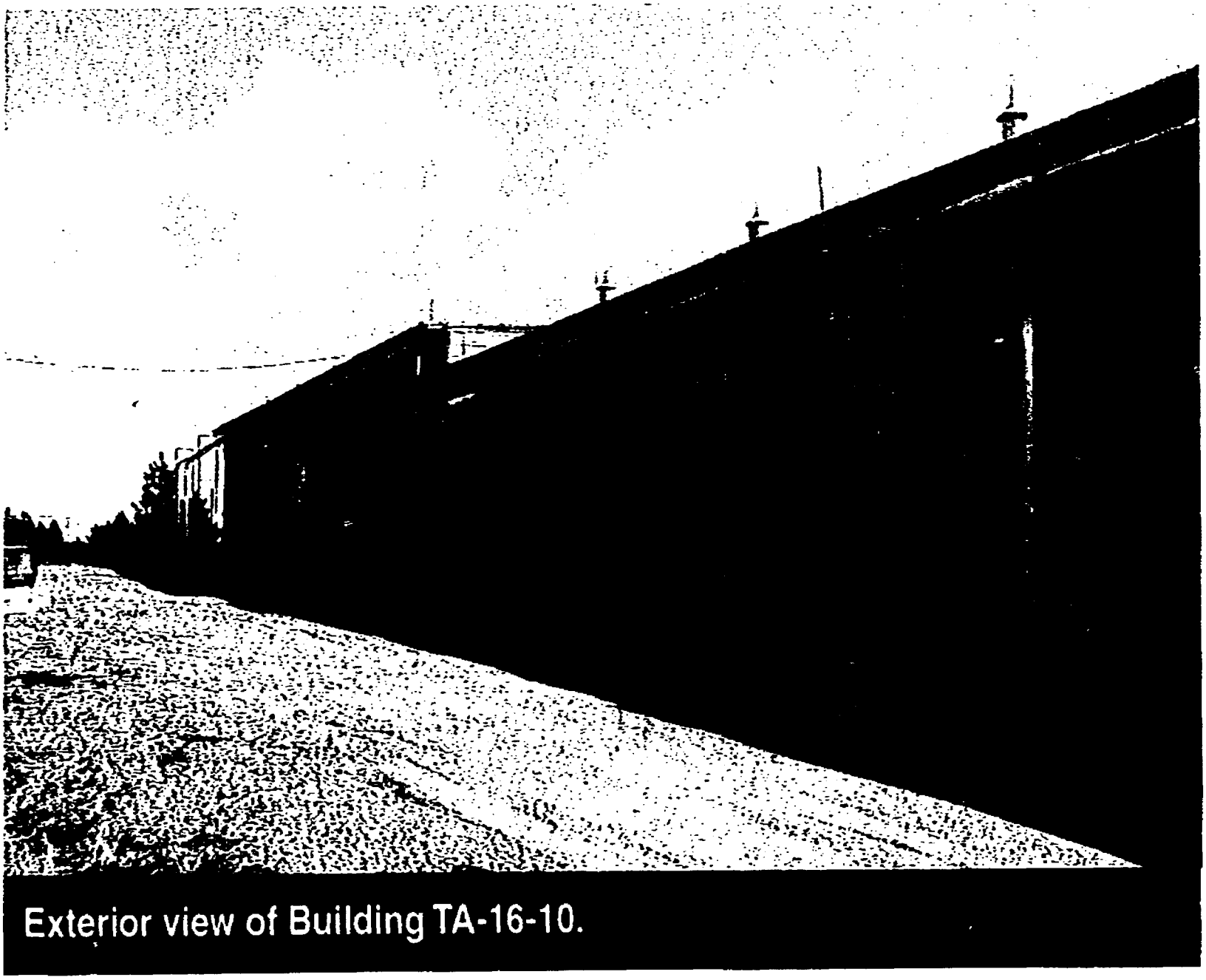
APPENDIX B

PHOTOGRAPHS



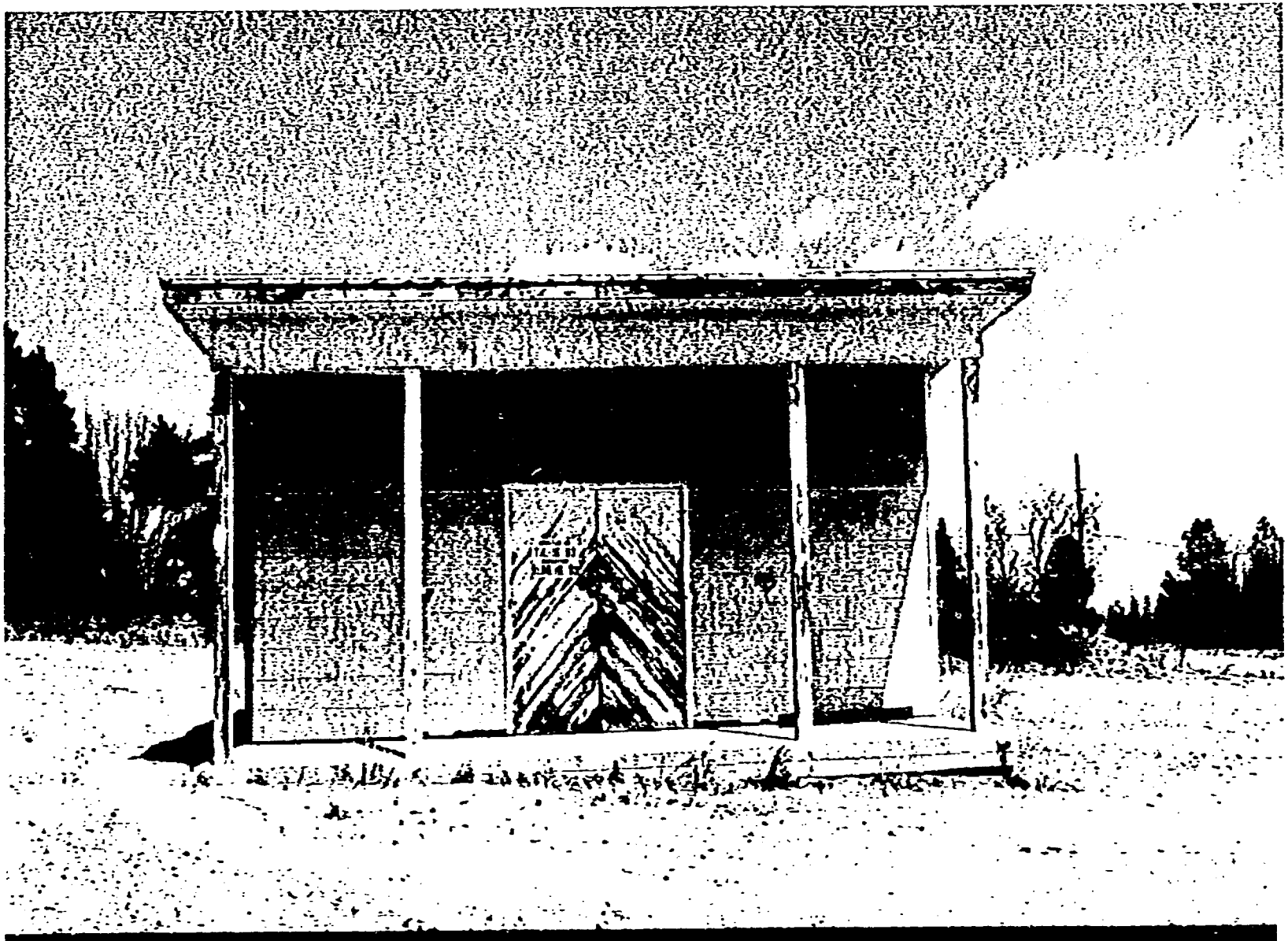
Technical Area 16-13, Loading Platform.

Exterior view of Building TA-16-10.

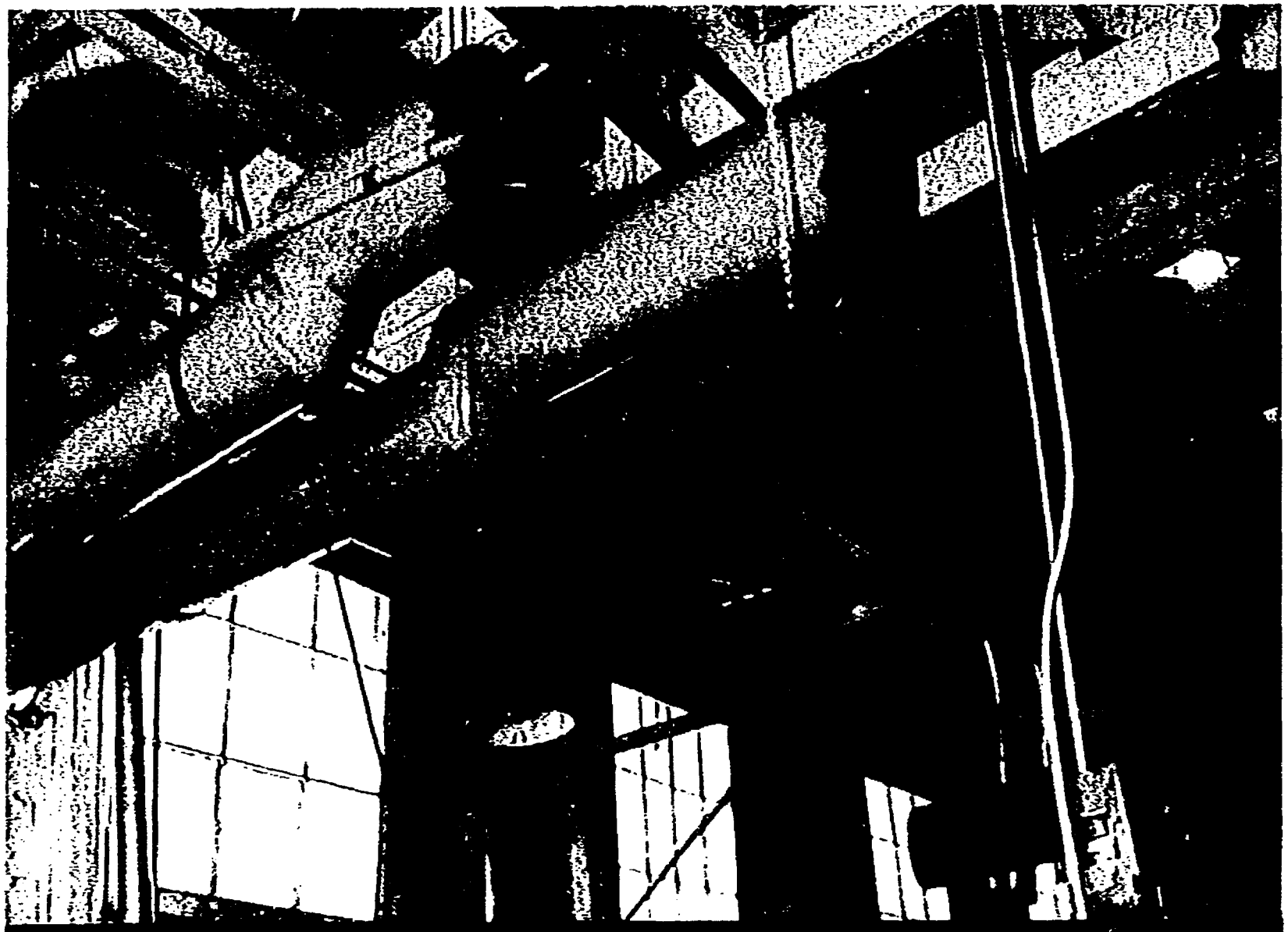


Exterior view of Building TA-16-10.

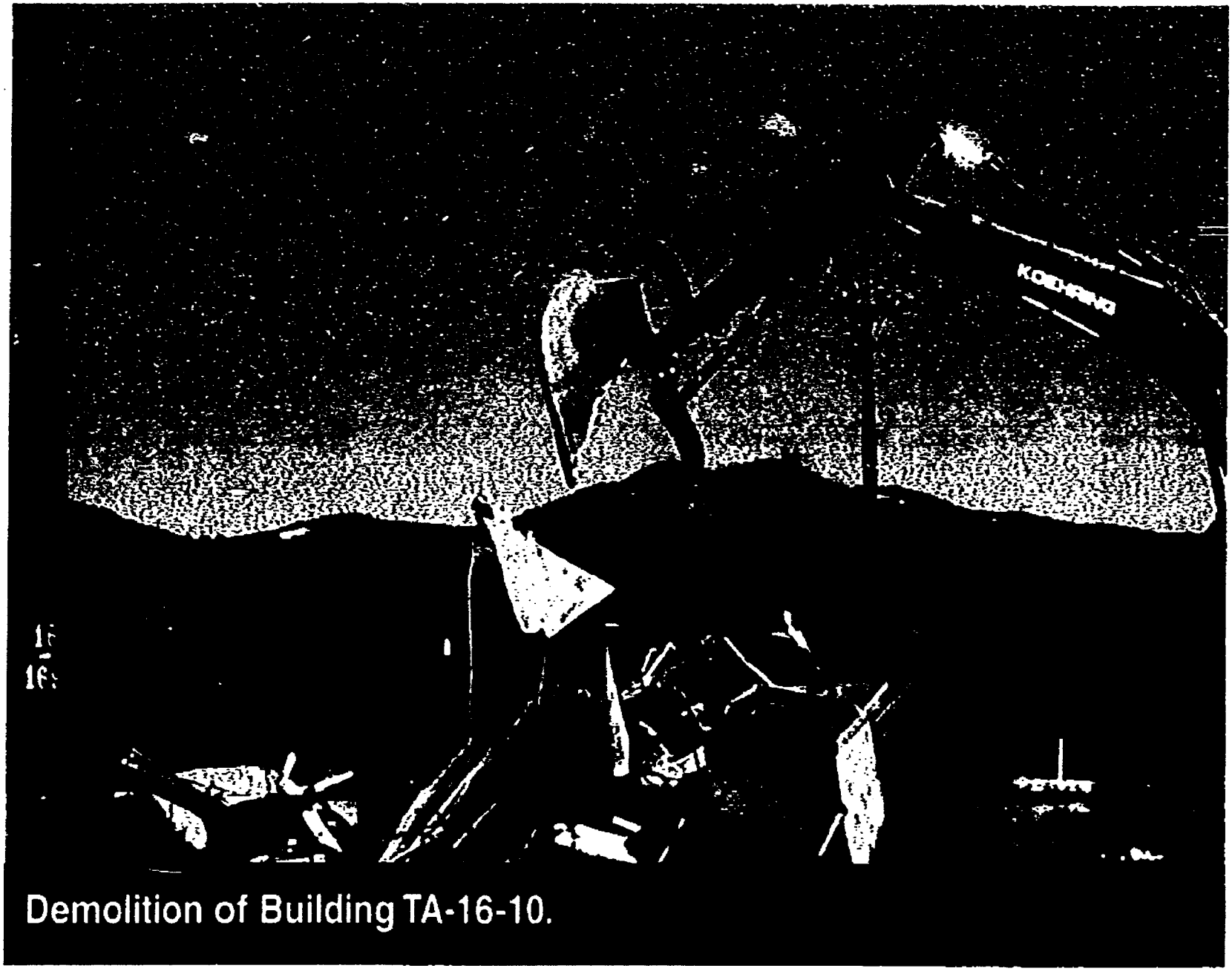
Exterior view of Building TA-16-27.



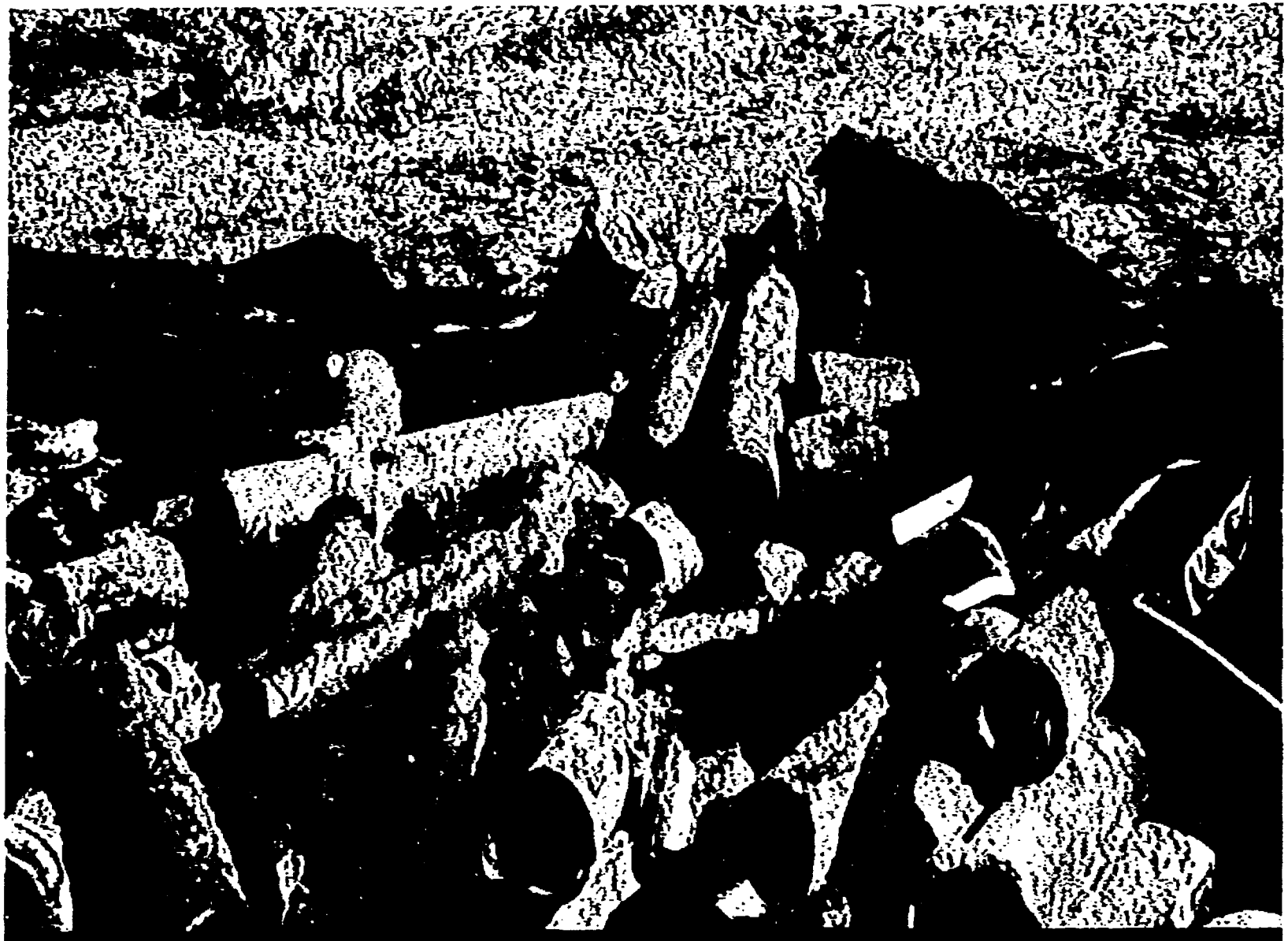
Exterior view of Building TA-16-63.



Interior piping dismantlement in Building TA-16-27.

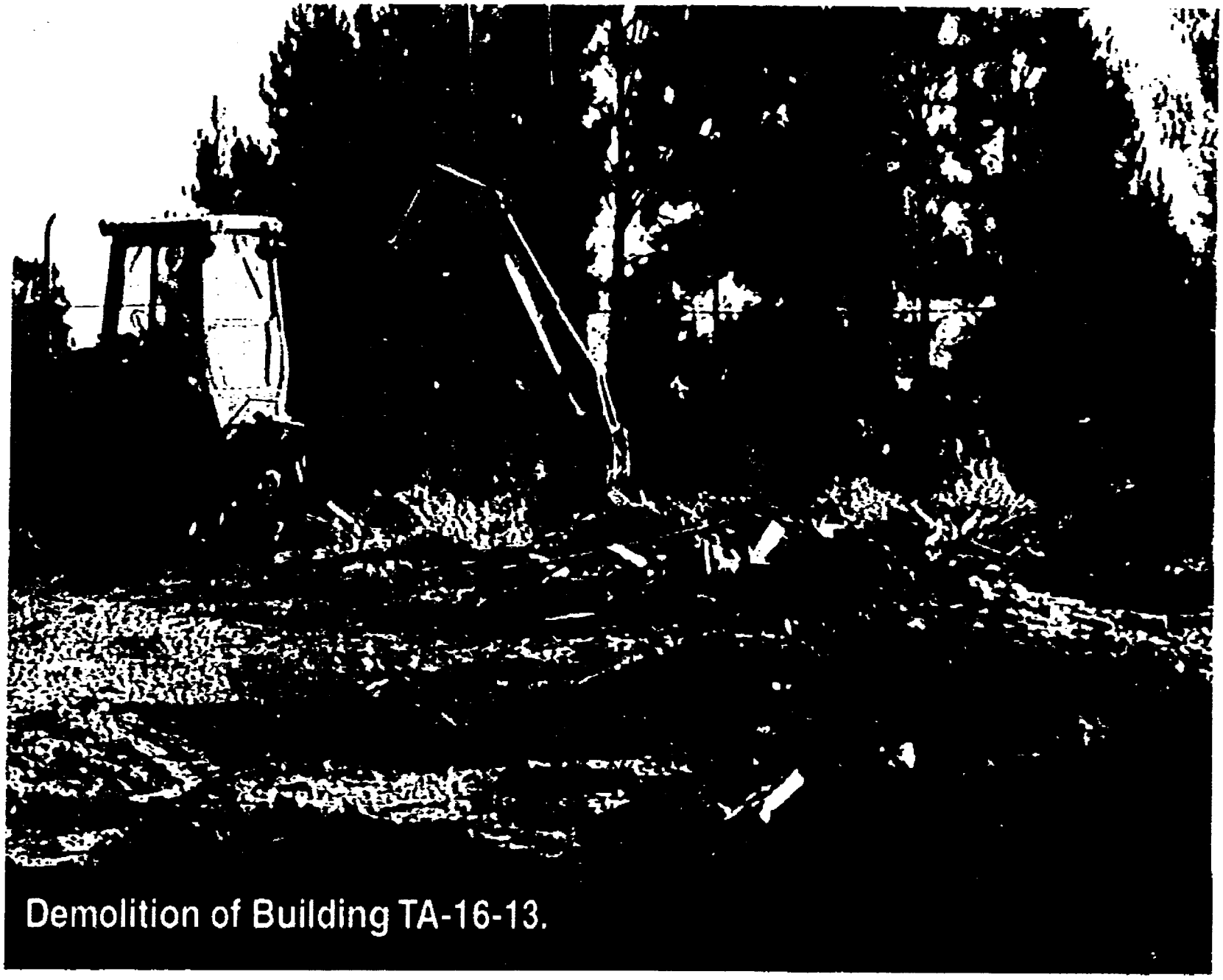


Demolition of Building TA-16-10.



Drain pipe removed from V-site.

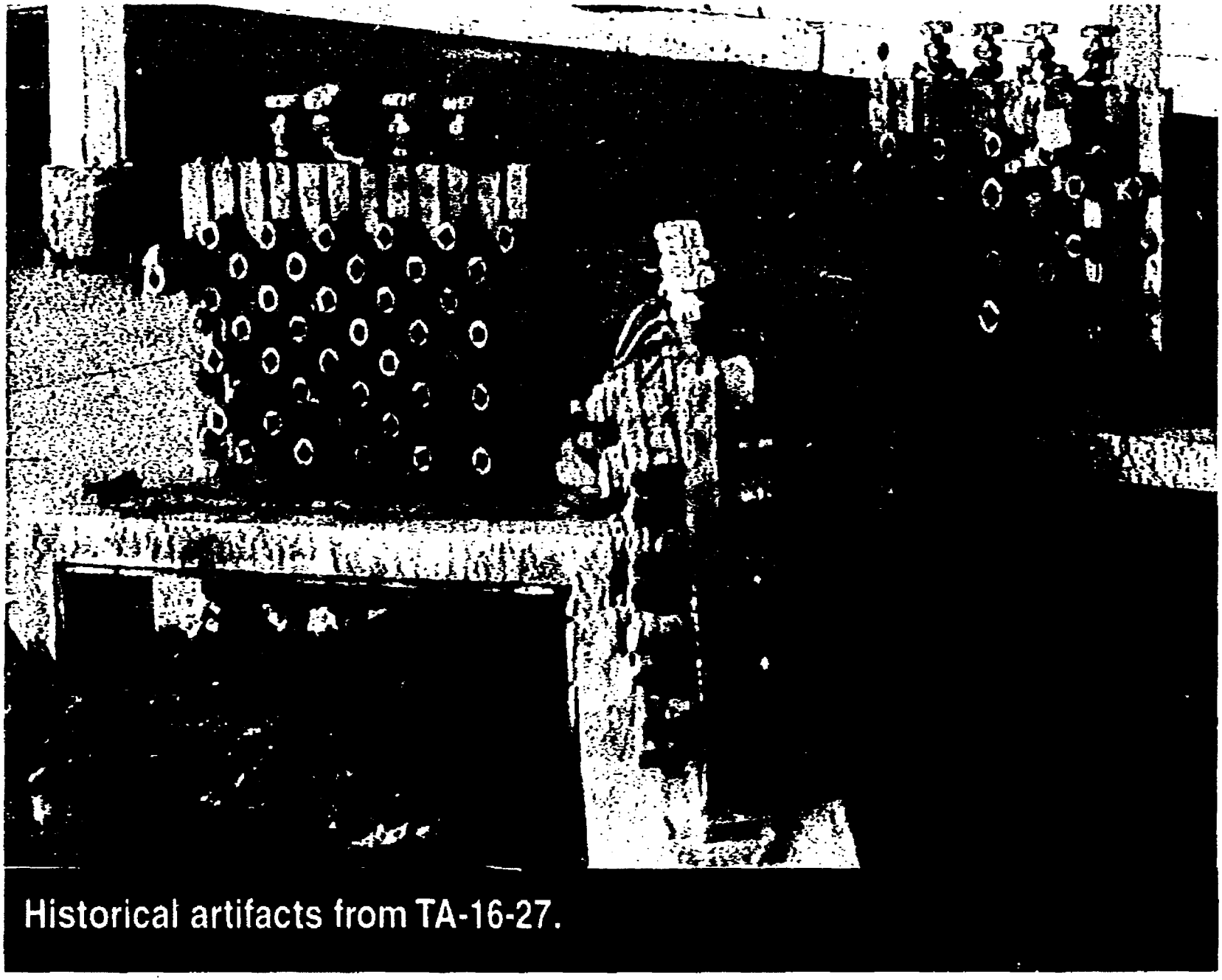
Reseeded site after demolition of Building TA-16-63.



Demolition of Building TA-16-13.

Reseeded site after demolition of Building TA-16-10.

Metal Recycling from TA-16-10.



Historical artifacts from TA-16-27.

APPENDIX C

CERTIFICATE OF COMPLETION

X-Sender: miguels@fimad.lanl.gov
Mime-Version: 1.0
Date: Wed, 29 Apr 1998 15:24:22 -0700
To: canepa_julie@lanl.gov
From: "Miguel D. Salazar" <miguels@lanl.gov>
Subject: Completion of decommissioning field activities for TA-16 building 27
Cc: roym@lanl.gov, larryb@fimad.lanl.gov, jmose@doe.lanl.gov

Building 27 has been dismantled and the area has been graded and reseeded. The completion report for this building will be incorporated with the remaining buildings to be decommissioned at TA-16 this year.

On the south side of building 27 some drain lines were found in March and removed. The trenches have been left open for Roy Michelotti to deal with. Some areas in V-site have also been turnover to Roy. These involve PRS's and will not affect Decommissioning.

X-Sender: larryb@fimad.lanl.gov
Mime-Version: 1.0
Date: Thu, 10 Sep 1998 10:46:02 -0700
To: castanon_jesse@lanl.gov
From: Larry Byars <larry_byars@lanl.gov>
Subject: Completion notice for TA-16 Buildins 10,13,&63 Decommissioning
Cc: larry_byars@lanl.gov, miguels@fimad.lanl.gov, mike_sanders@lanl.gov

All requirements of the subject Task Order are now complete. I performed an inspection of the re-seeded areas on 9/9/98 and all deficencies have been corrected. This Task order can now be closed.

Larry L. Byars, P.E.
Decommissioning Project Leader
EM/D&D M.S. M769
P.O. Box 1663
Los Alamos, NM 87544
Phone: 505-667-8169
FAX; 505-667 9710