

REPORT DOCUMENTATION PAGE

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| 1. AGENCY USE ONLY (Leave blank) | | 2. REPORT DATE 25 SEPTEMBER 1998 | 3. REPORT TYPE AND DATES COVERED FINAL TECHNICAL REPORT JUNE 1997-JUNE 1998 | |
| 4. TITLE AND SUBTITLE MERTS Field Research/Integrated Marine Technology Center-construction of building and purchase of related equipment | | | 5. FUNDING NUMBERS G-N00014-96-1-0873 | |
| 6. AUTHOR(S) John W. Wubben | | | 8. PERFORMING ORGANIZATION REPORT NUMBER MERTS2-1997-98 | |
| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Marine & Environmental Research & Training Station (MERTS) c/o Clatsop Community College 1653 Jerome Ave Astoria OR 97103 | | | | |
| 9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) | | | 10. SPONSORING / MONITORING AGENCY REPORT NUMBER | |
| 11. SUPPLEMENTARY NOTES | | | | |
| a. DISTRIBUTION / AVAILABILITY STATEMENT Available to the public | | | 12. DISTRIBUTION CODE | |
| 13. ABSTRACT (Maximum 200 words) The MERTS Field Research/Integrated Marine Technology Center has been completed and equipped, providing a highly modern facility for the staging and support of research, as well as for industry-standard training in marine-related fabrication and maintenance. Successful project completion is evidenced by (1) the Certificate of Occupancy; (2) consulting engineer's certificate of compliance with plans, specifications, and the State Building Code; (3) final building inspection certificates indicating conformance to State electrical, plumbing, and mechanical codes; (4) complete list of equipment purchased; (5) documenting photos of completed building and selected equipment. | | | | |
| 14. SUBJECT TERMS MERTS Field Research/Integrated Marine Technology Center | | | | 15. NUMBER OF PAGES 28 |
| 17. SECURITY CLASSIFICATION OF REPORT Unclassified | | | | 16. PRICE CODE |
| | | | | 20. LIMITATION OF ABSTRACT UL |
| 18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified | | 19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified | | |

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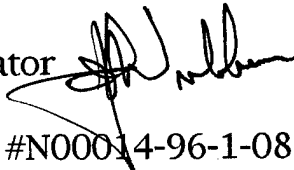
Marine and Environmental Research and Training Station, Inc.

c/o Clatsop Community College

1653 Jerome Avenue ♦ Astoria, Oregon ♦ 97103 ♦ (503) 325-0910

MEMORANDUM

TO: Ronald A. De Marco, Ph. D., Head of Engineering, Materials, and
Physical Sciences, S & T Dept., Office of Naval Research

FROM: John Wubben, Principal Investigator 

SUBJECT: Final Technical Report for Grant #N00014-96-1-0873

DATE: September 21, 1998

19980930 017

This grant has been completed, as reflected in the following:

1. Certificate of Occupancy (Attachment A)
2. Certification by KPFF Consulting Engineers that the MERTS Field Research/Integrated Technology Center "was constructed in general compliance with the structural plans and specifications" (Attachment B).
3. Certification by Braun Intertec that construction of the Merts Field Research/Integrated Technology Center "was in accordance with the approved plans and specifications of the State Building Code and Standards" (Attachment C).

4. Inspection report showing final electrical approval by the Building Codes Division of the Oregon Department of Consumer and Business Services (Attachment D).

5. Inspection report showing final plumbing and mechanical approval by the Building Codes Division of the Oregon Department of Consumer and Business Services (Attachment E).

6. Color photographs showing the completed building and representative items of equipment purchased (Attachment F).

7. Complete list of all equipment purchased (Attachment G).

Dr. De Marco, we appreciate your assistance and support in the completion of this grant project.

If I may provide additional information or clarification of this report, please contact me.

Merts/phaseII/final report/onr

CERTIFICATE OF OCCUPANCY

CITY OF ASTORIA

Date: 2/28/98

Building Location/Address: 6540 LIBERTY LANE
MERTS PHASE II

Permit Number: C97-108

Owner Name: MERTS, Inc.

Owner Address: Rt. 5 Box 30-A
Astoria, OR 97103

Description of Construction: SCHOOL/EDUCATION FACILITY

Construction Type: II-N Sprinklered Number of Stories: 1

Occupancy Group: B, H-4, A-3 Floor Area: 30,000 sq. ft.

CERTIFICATION IS HEREBY GIVEN THAT SAID BUILDING HAS BEEN INSPECTED FOR COMPLIANCE WITH THE OREGON STATE SPECIALTY CODES FOR GROUP AND DIVISION OF OCCUPANCY AND LAND USE REGULATIONS IN EFFECT AT THIS DATE AND MAY BE OCCUPIED AS ABOVE CLASSIFIED.

SIGNED: Jason Bush

ATTACHMENT B



December 3, 1997

Mr. Gregg Stewart
Mahlum & Nordfors Smith Gordon
1231 NW Hoyt Street, Suite 102
Portland, Oregon 97209

RE: Marine & Environmental Research & Training Center
Astoria, Oregon
Permit No. C97-108

Dear Gregg:

Based on the reports submitted to us to date, including the final summary report by Braun Intertec, dated December 3, 1997, as well as our own observations during our site visits, we believe that the Marine & Environmental Research & Training Center project was constructed in general compliance with the structural plans and specifications.

If you have any questions or need further information, please call.

Sincerely,

Sean T. Blaire

cc: Jason Bush, Mortier Engineering
Al Jaques, Clatsop College

[STB:hw65286.com, etc]

| | | | | | |
|-------------------|-----------|---------|-------------|------------|---|
| Post-it® Fax Note | 7671 | Date | 12/3 | # of pages | 1 |
| To | Al Jaques | From | Sean Blaire | | |
| Co./Dept. | | Co. | | | |
| Phone # | | Phone # | | | |
| Fax # | 338-7661 | Fax # | | | |

BRAUNSM
INTERTEC

Braun Intertec Corporation
6032 N. Cutter Circle, Ste. 480
P.O. Box 17126
Portland, Oregon 97217
503-289-1778 Fax: 289-1918

*Engineers and Scientists Serving
the Built and Natural Environments*

December 3, 1997

Mr. Al Jaques
Merts Inc.
c/o Clatsop Community College
Route 5, box 30A
Astoria, Oregon 97103

Dear Mr. Jaques:

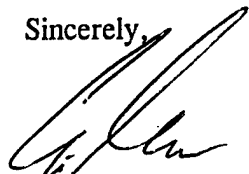
Re: SPECIAL INSPECTION
Field Research & Integrated Technology Center
6540 Liberty Lane
Astoria, Oregon
Permit No.: C97-108

This is to certify that, in accordance with section 1701.3 of the State Building Code, we have performed Special Inspection of the following items:

1. Reinforced Concrete
2. Structural Steel, including welder's certifications, material verification, fabrication and field welding (excluding handrail)
3. Structural Masonry
4. Epoxy installations per ICBO report
5. Soils and Asphalt; compaction tests

All inspections and tests were performed and reported according to the requirements and to the best of my knowledge, the work was in accordance with the approved plans and specifications of the State Building Code and Standards.

Sincerely,



Eric Gessner, Manager
Construction Services

eg :syd

cc: Jason Bush, Mortier Engineering
Greg Stewart, Mahlum & Nordfors Smith Gordon
Brad Moyes, KPFF Consulting Engineers
David Gould, David Evans & Associates
Pat Mahoney, SD Deacon
Chris Crother, SD Deacon

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Inspection Request & Report

ATTACHMENT D

Department of Consumer & Business Services
Building Codes Division

INSPECTION REQUEST

Date requested: 12-10-97 Time: _____ Type of inspection: Final

Electrical Plumbing Structural Mechanical Manufactured home

Permit no.: CN7-547 Owner: M.E.R.T.

Contractor: Wadsworth Job address: RT5 Bx 30-A ast.

Directions: _____

Ready: _____ Mon Tues Wed Thurs Fri a.m. mid p.m.

Call before coming? Yes No Phone: _____

INSPECTION REPORT

Date inspected: 12-10-97 Time: 10:00 Type of inspection: 05

Unable to inspect No corrections noted Correction(s) expected within _____ days

Inspection report no.: _____ Correction(s) noted: (Pg. _____ of _____) _____

approved Final

Mechanical Lab GFCT

approved.

Reinspection required prior to approval OK to continue after corrections made

Owner/Contractor sign below indicating all corrections made and return to inspector

Signature: _____

Call for reinspection _____

Inspector: John Allen Signature: [Signature]



White-Job site

Pink-File

Yellow-Office

Blue-Contractor

274466-96



Inspection Request & Report

Department of Consumer & Business Services
Building Codes Division

CITY OF ASTORIA

INSPECTION REQUEST

Date requested: 11-12-97 Time: _____ Type of inspection: PLUMBING FINAL HVAC FINAL

Electrical Plumbing Structural Mechanical Manufactured home

Permit no.: ~~6540~~ C-97-108 Owner: MERTS PHASE II

Contractor: SD DEACON Job address: 6540 LIBERTY LANE

Directions: _____

Ready: YES Mon Tues Wed Thurs Fri a.m. mid p.m.

Call before coming? Yes No Phone: _____

INSPECTION REPORT

Date inspected: 11-17-97 Time: 11:00 Type of inspection: PLUMBING FINAL HVAC FINAL

Unable to inspect No corrections noted Correction(s) expected within _____ days

Inspection report no.: _____ Correction(s) noted: (Pg. _____ of _____)

APPROVED

Reinspection required prior to approval OK to continue after corrections made

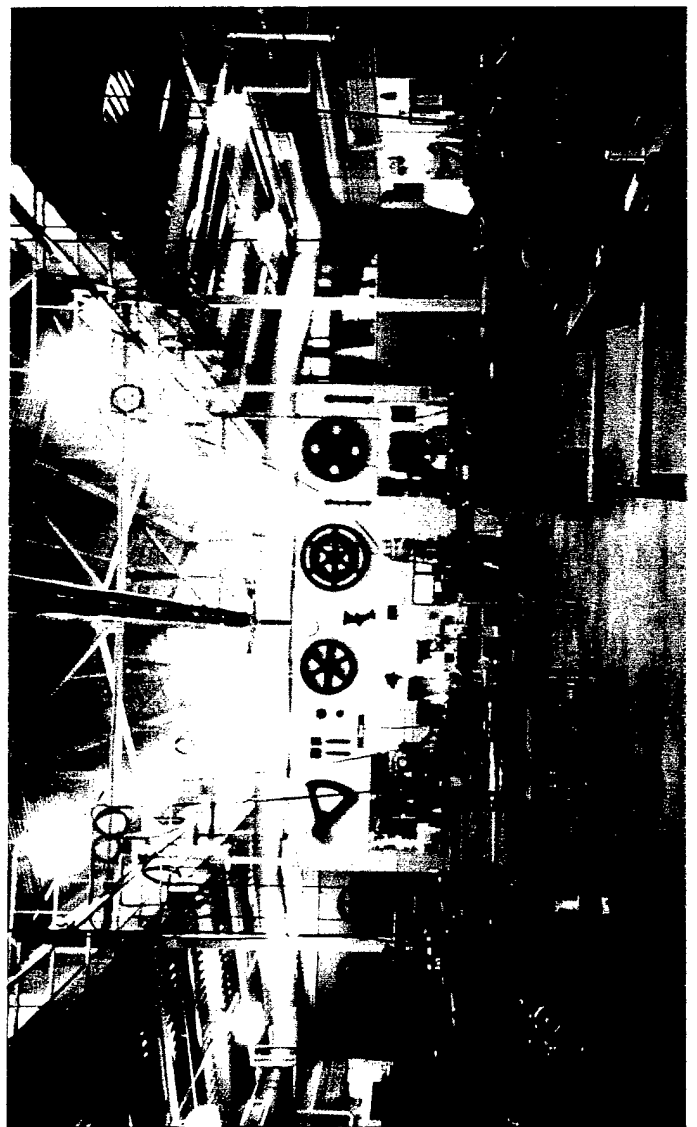
Owner/Contractor sign below indicating all corrections made and return to inspector

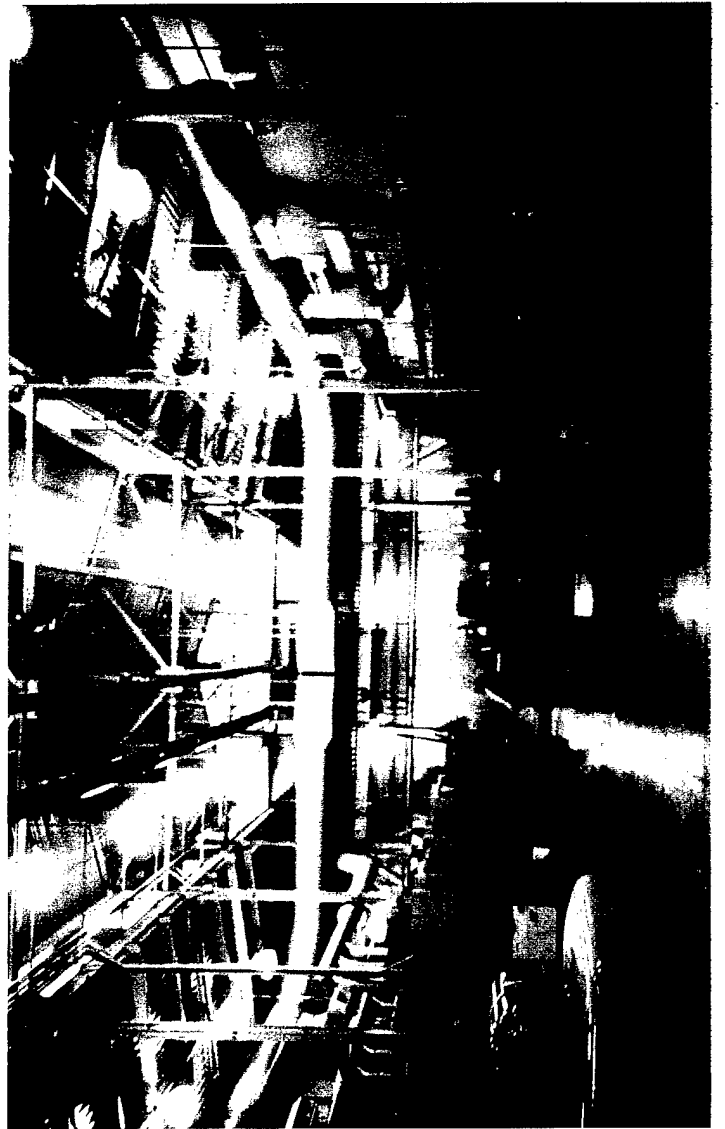
Signature: _____

Call for reinspection _____

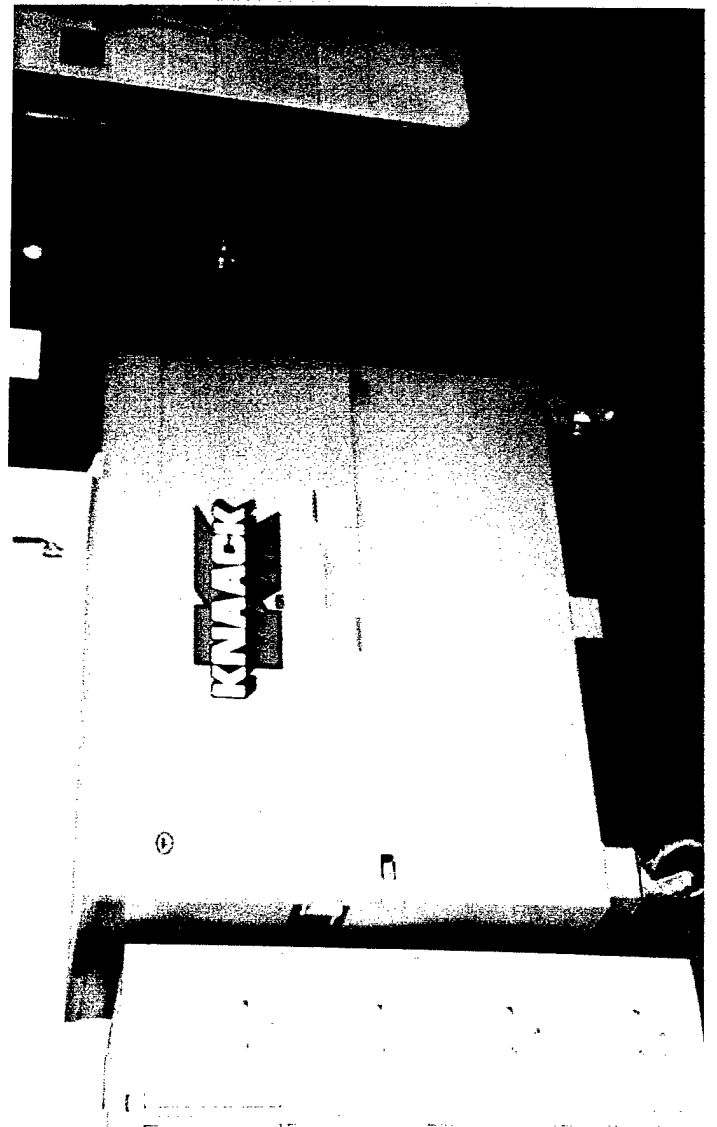
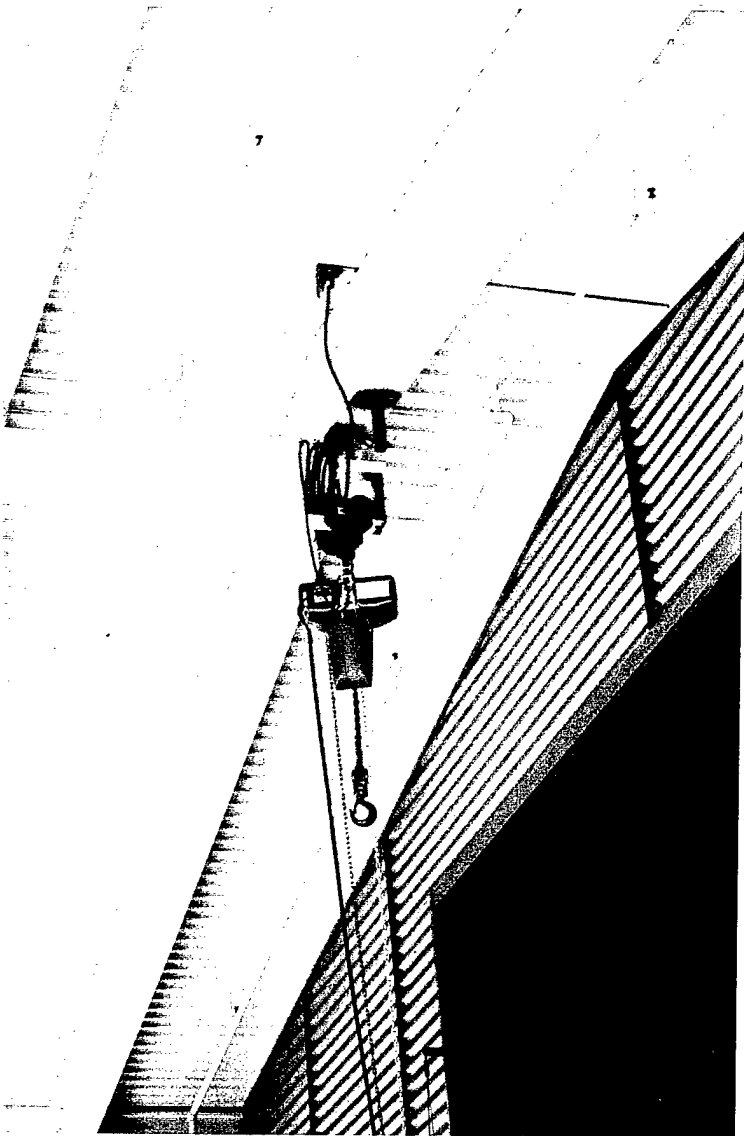
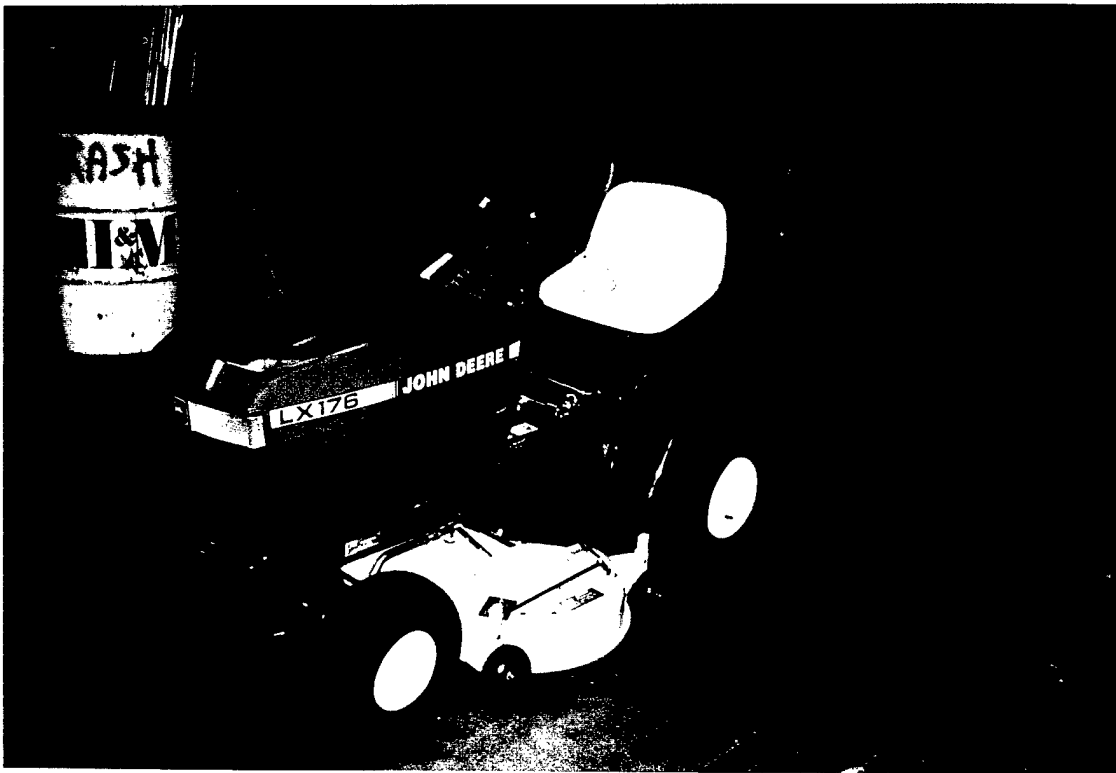
Inspector: Tom Brun

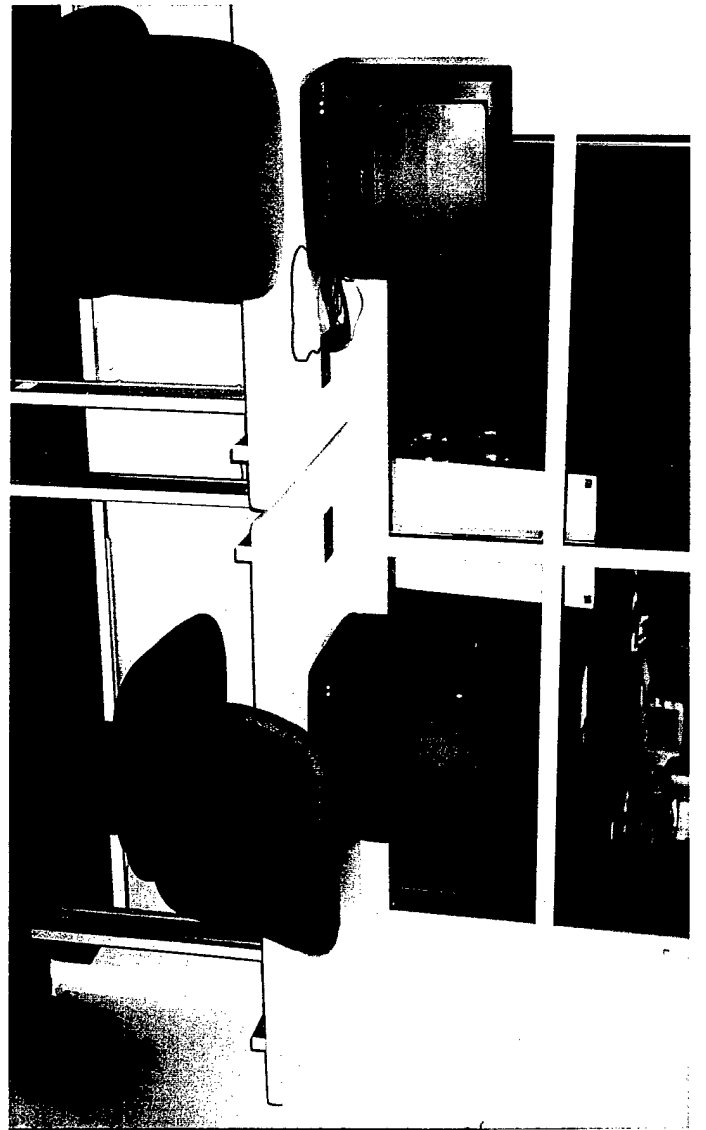
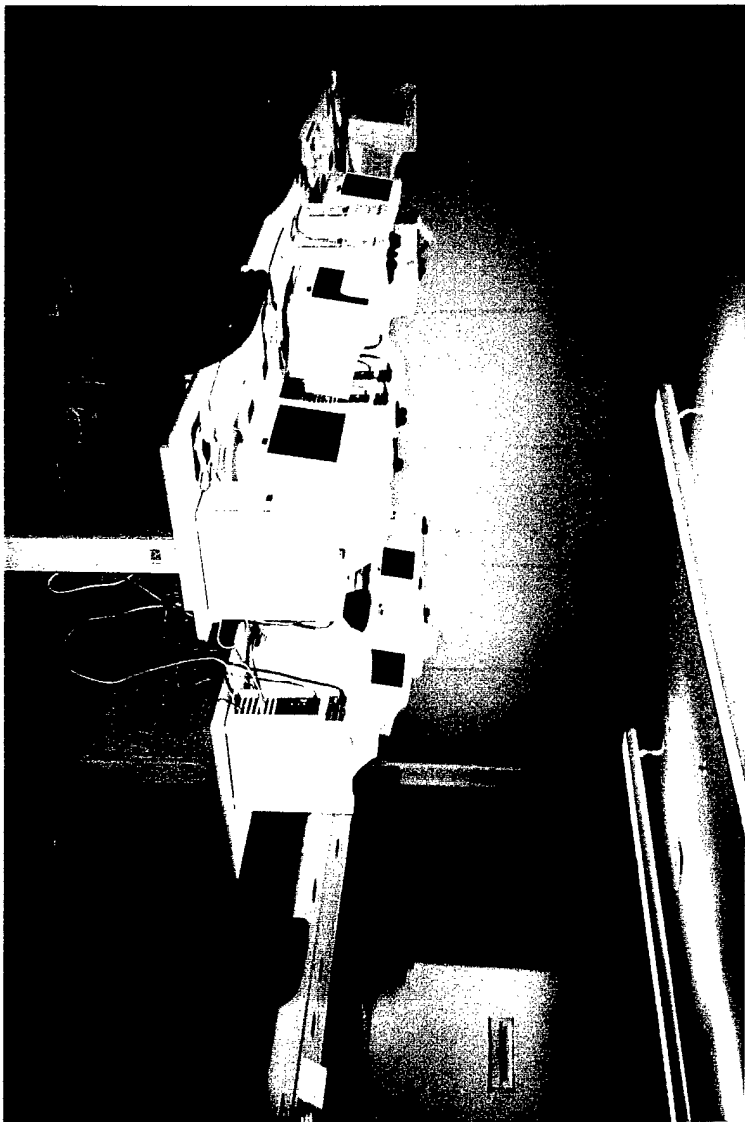
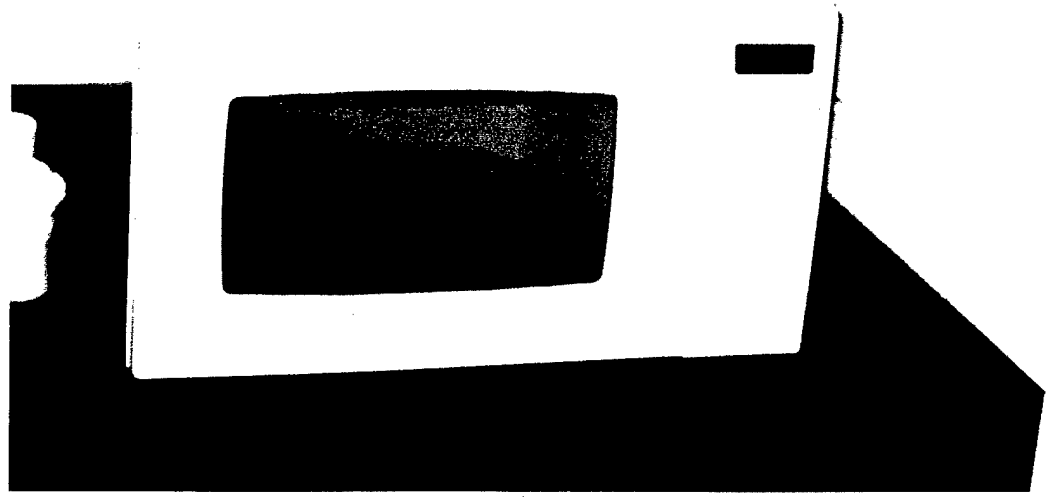
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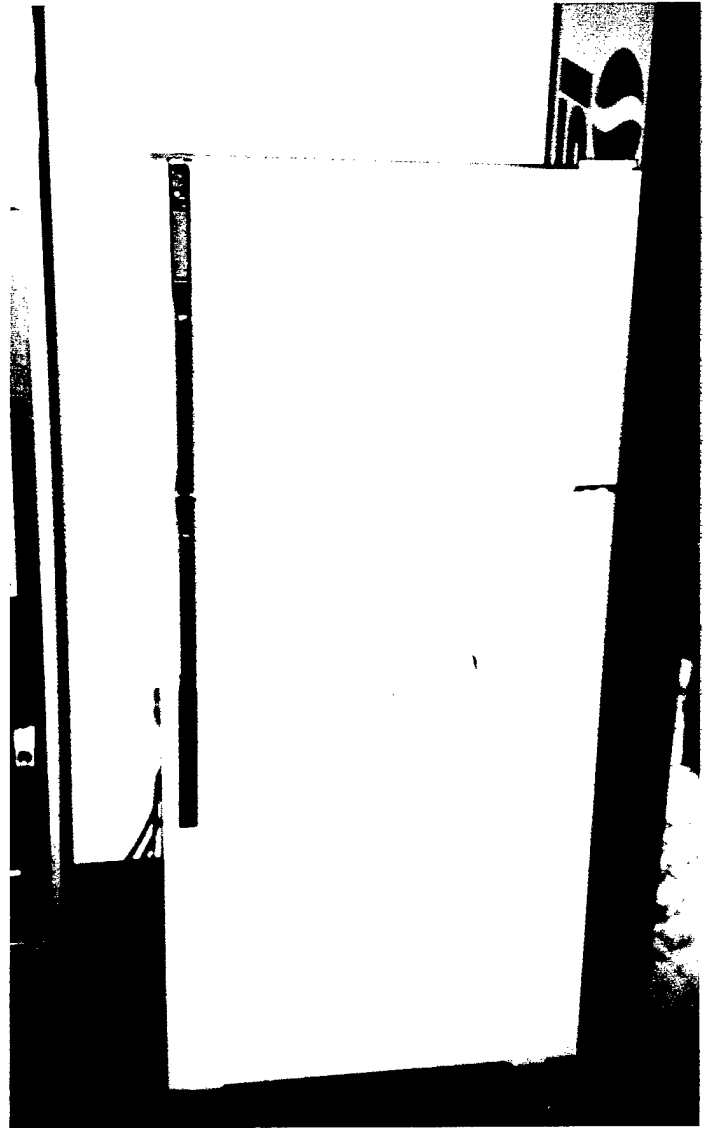
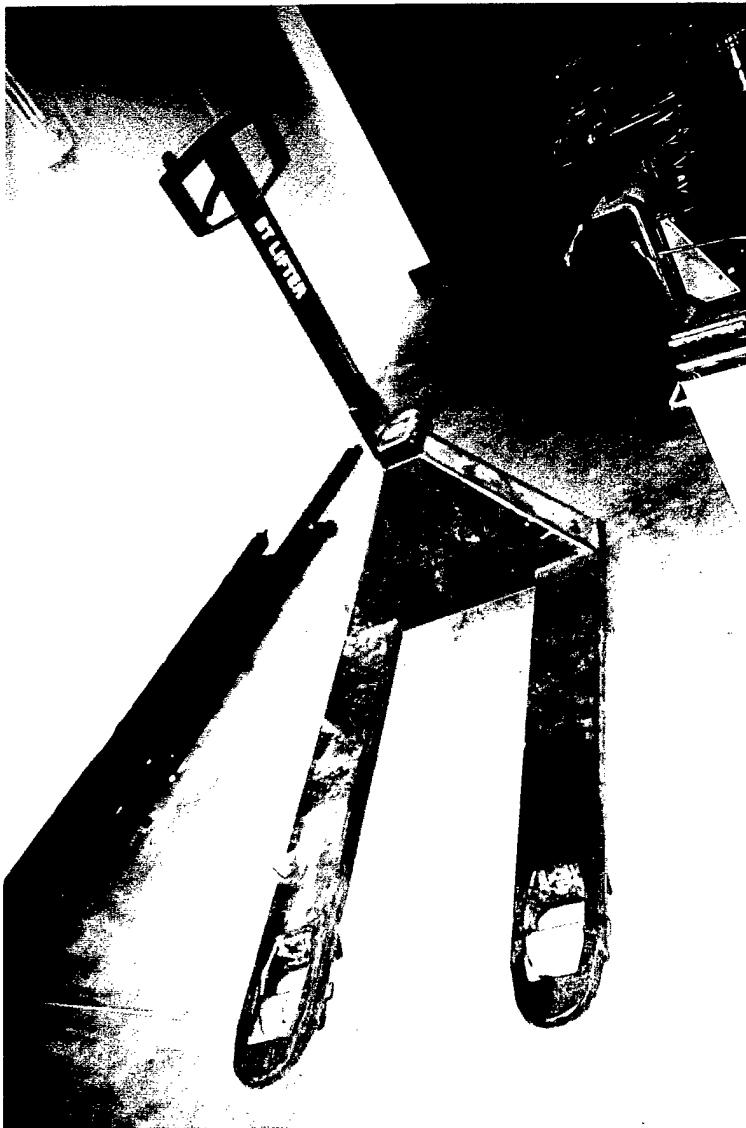
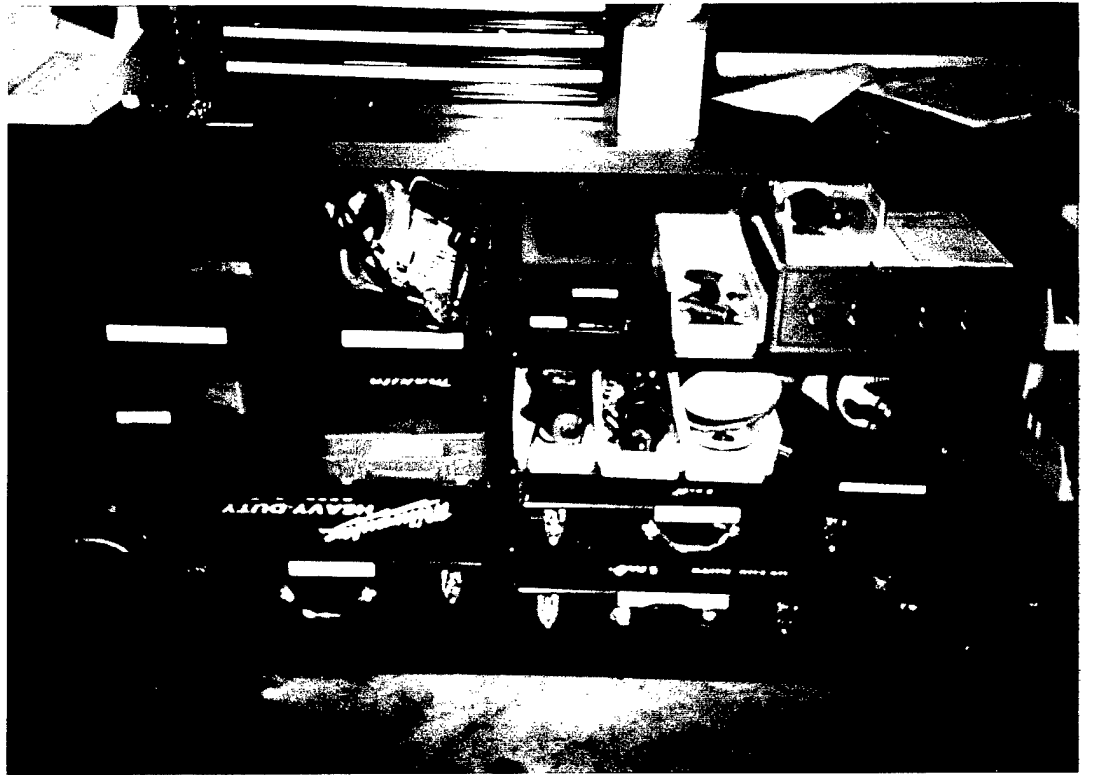


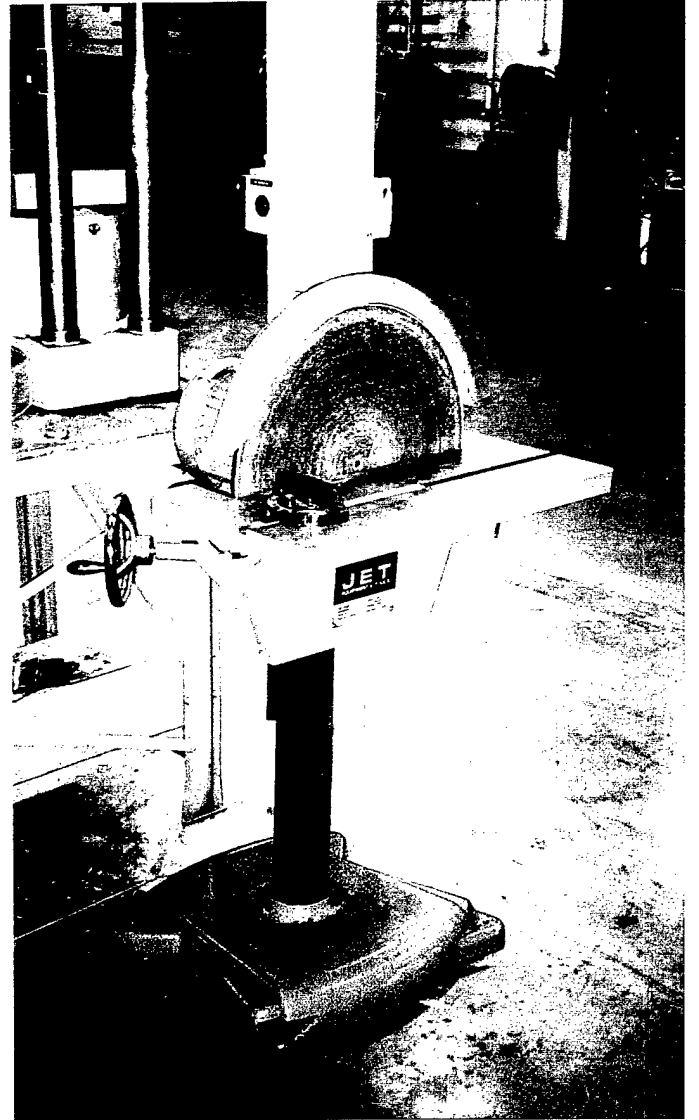
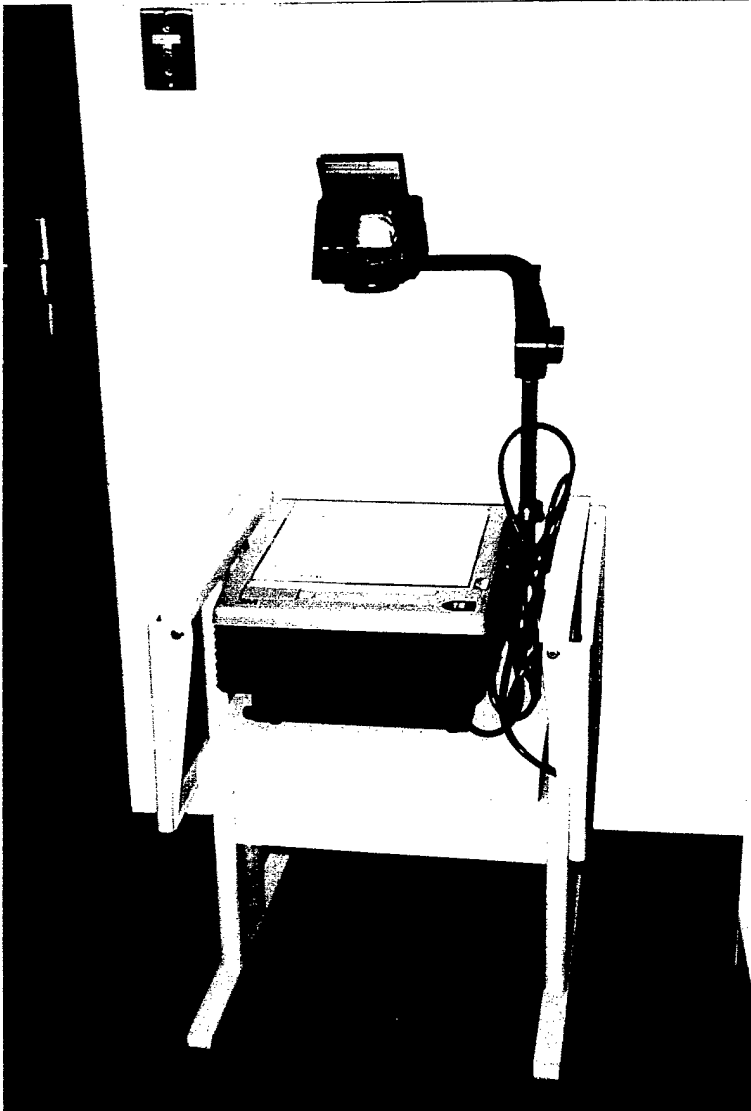
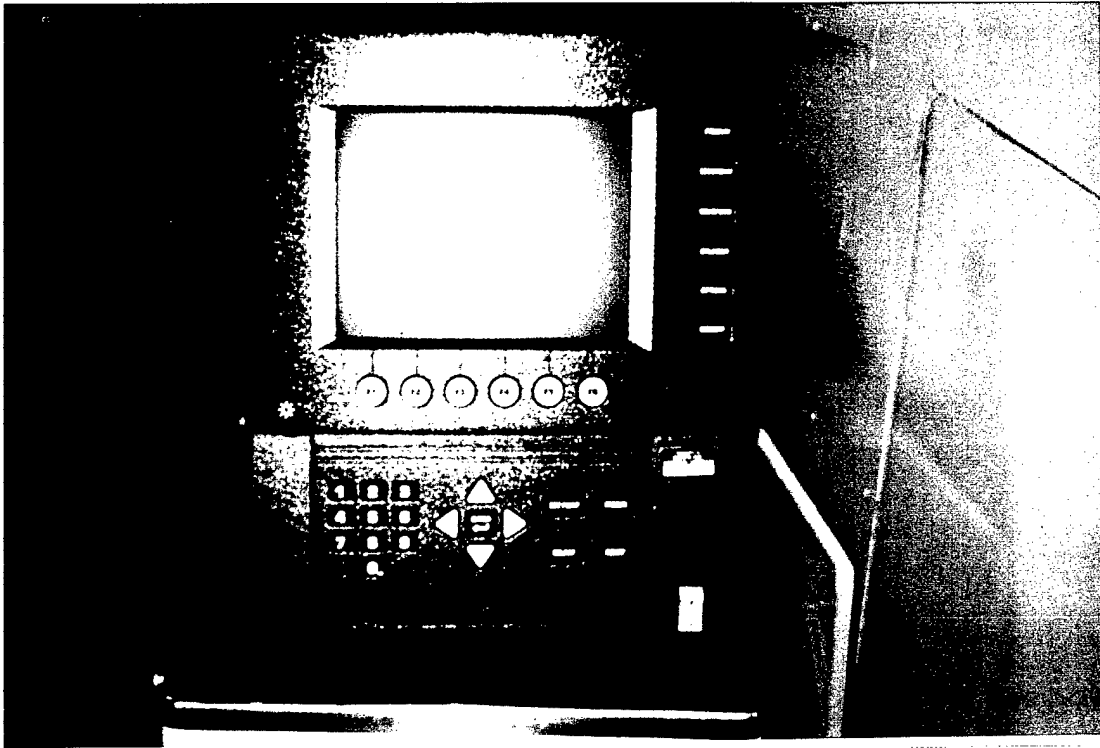


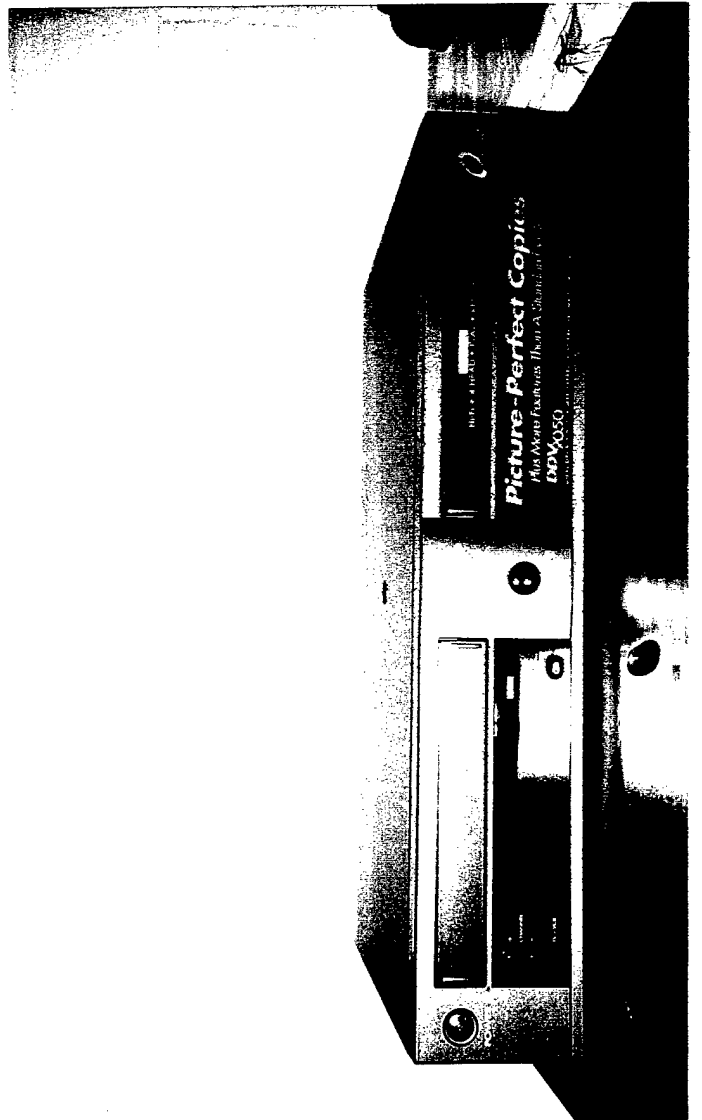


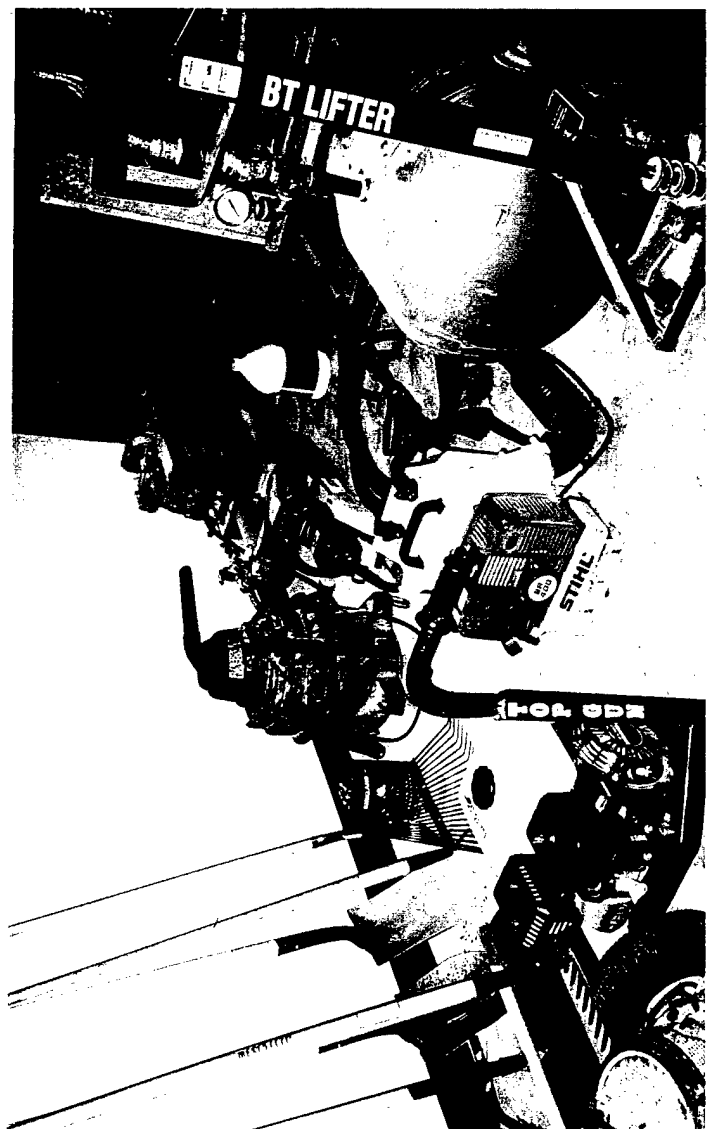
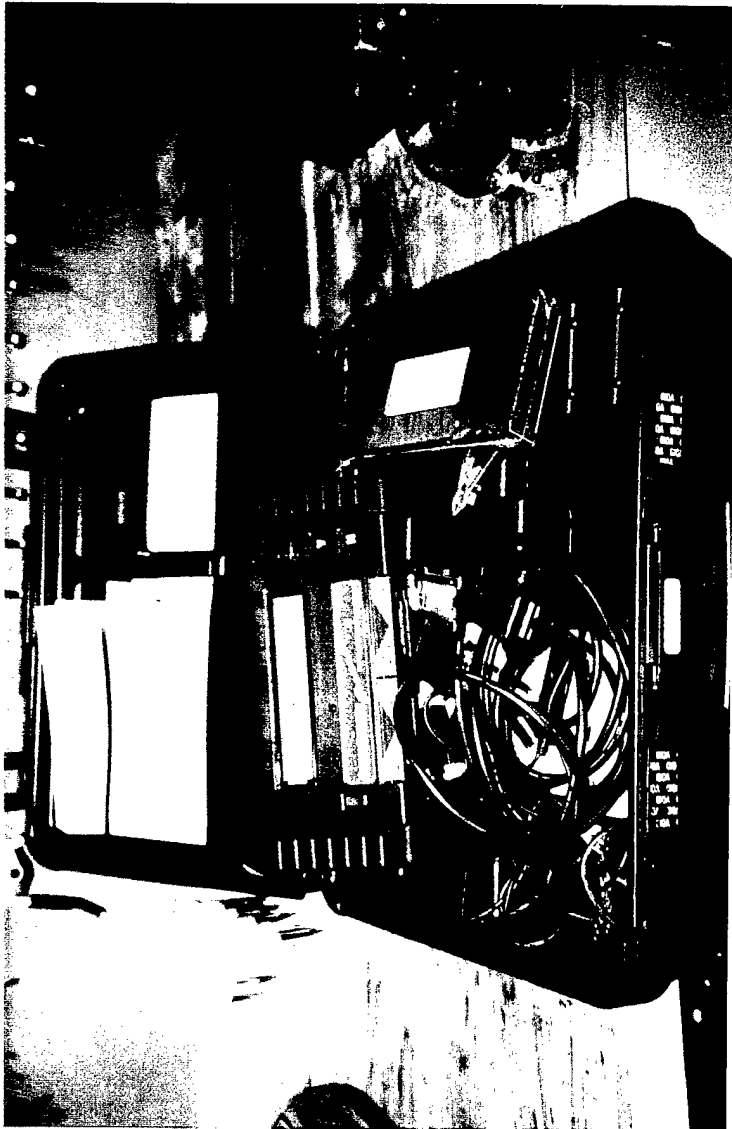
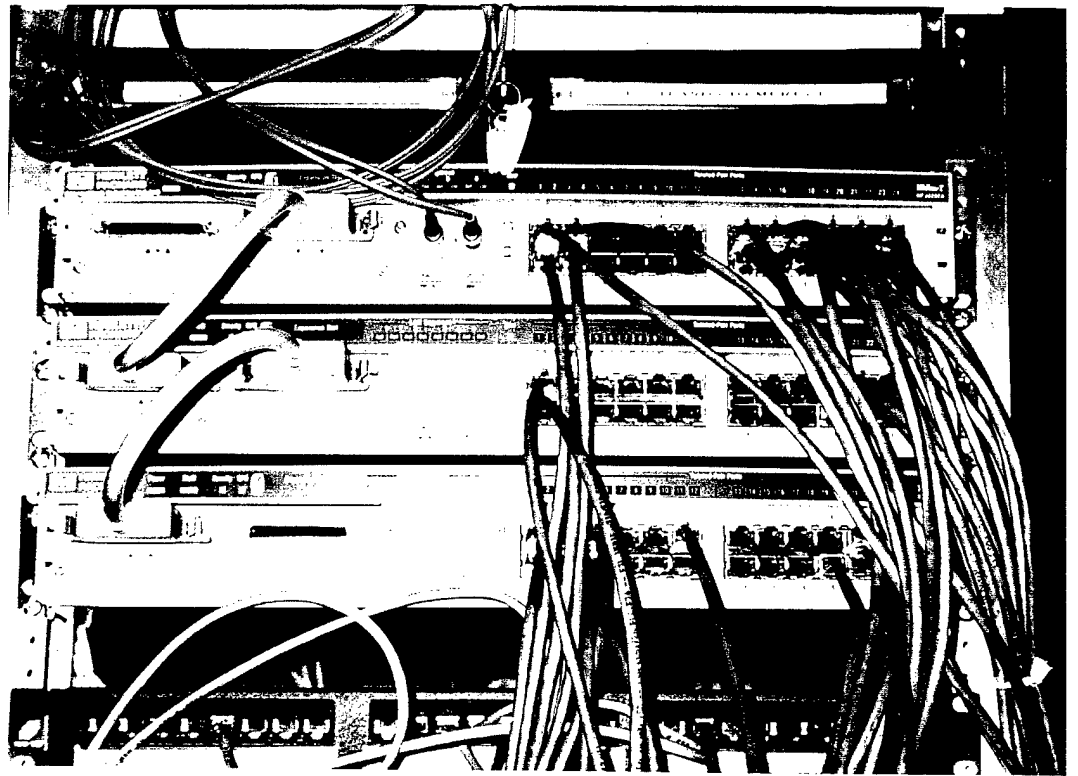


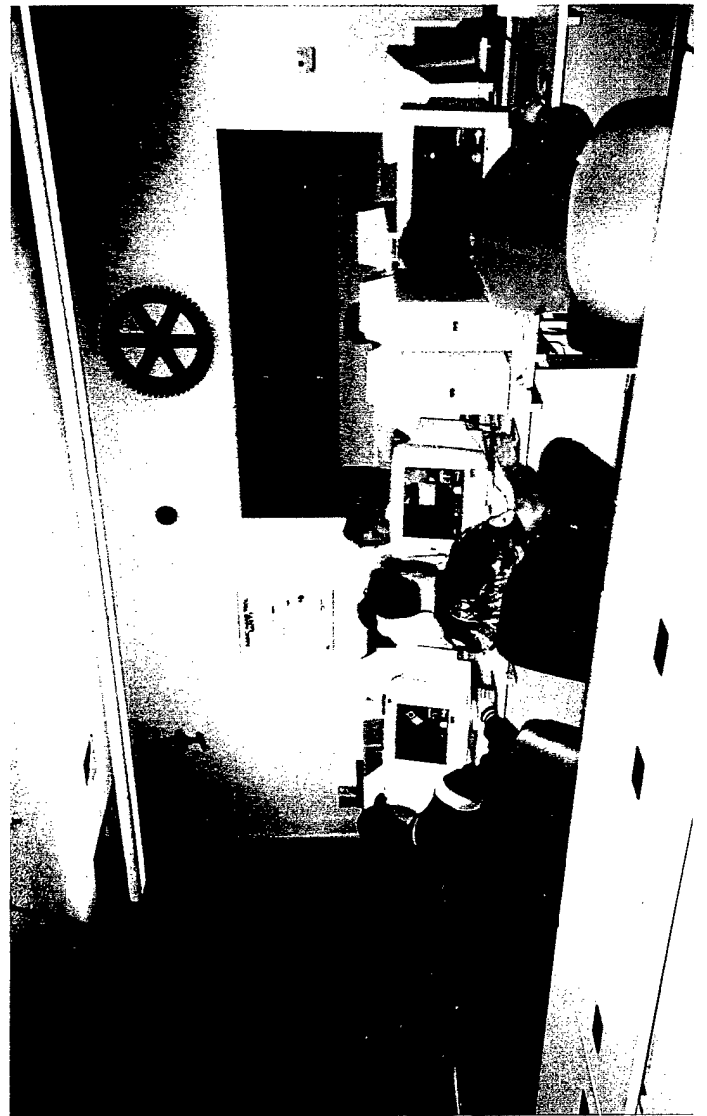
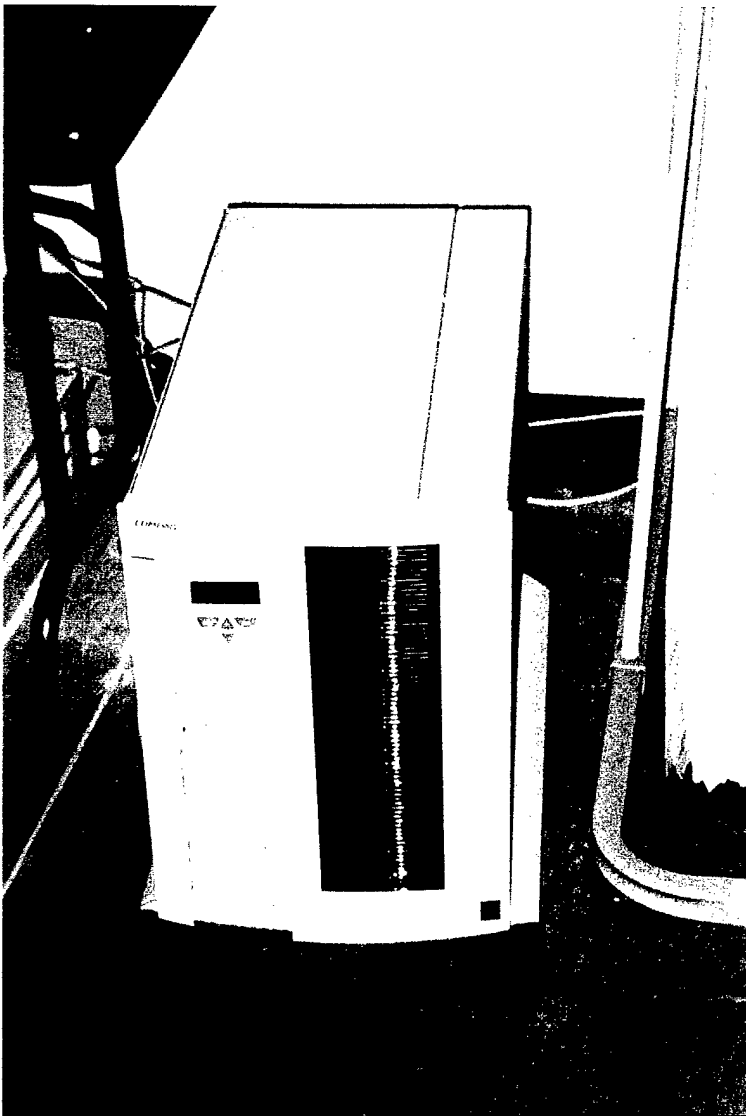
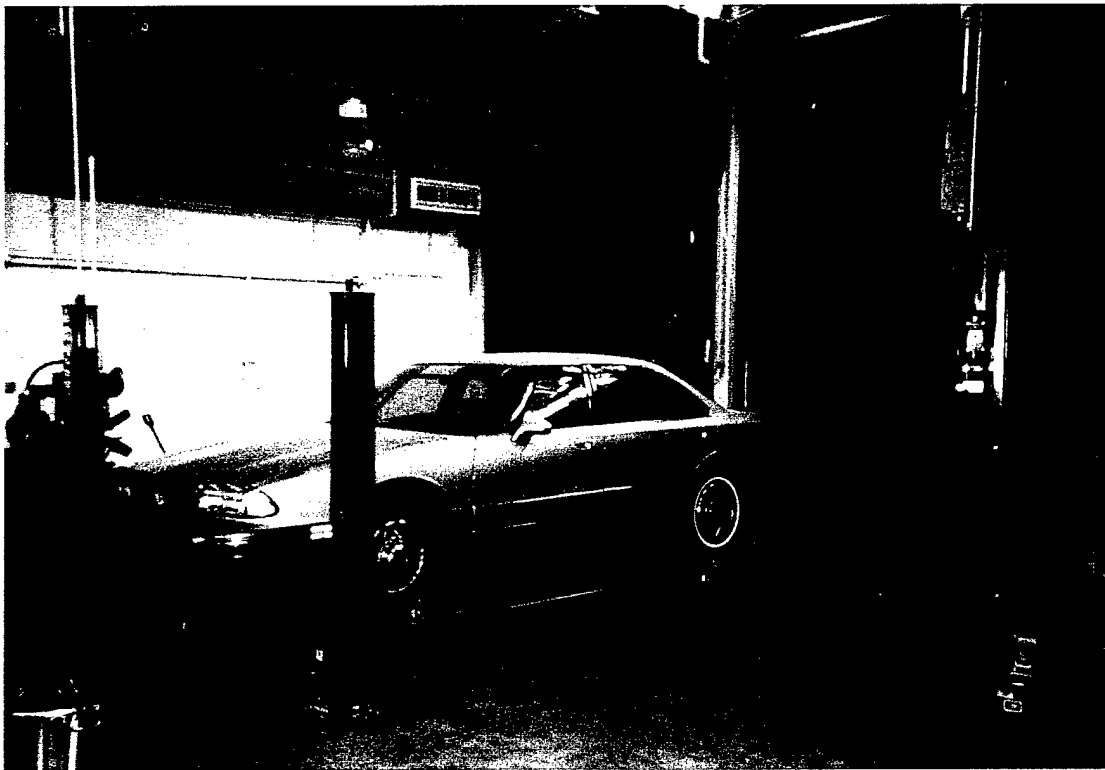


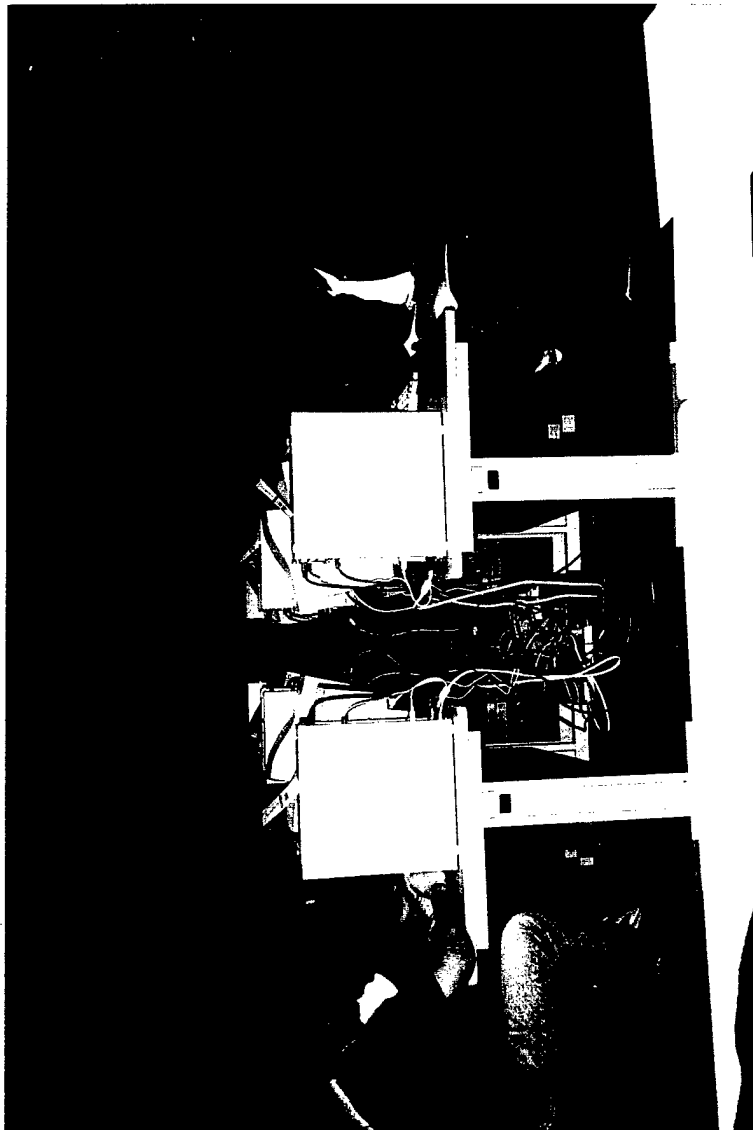


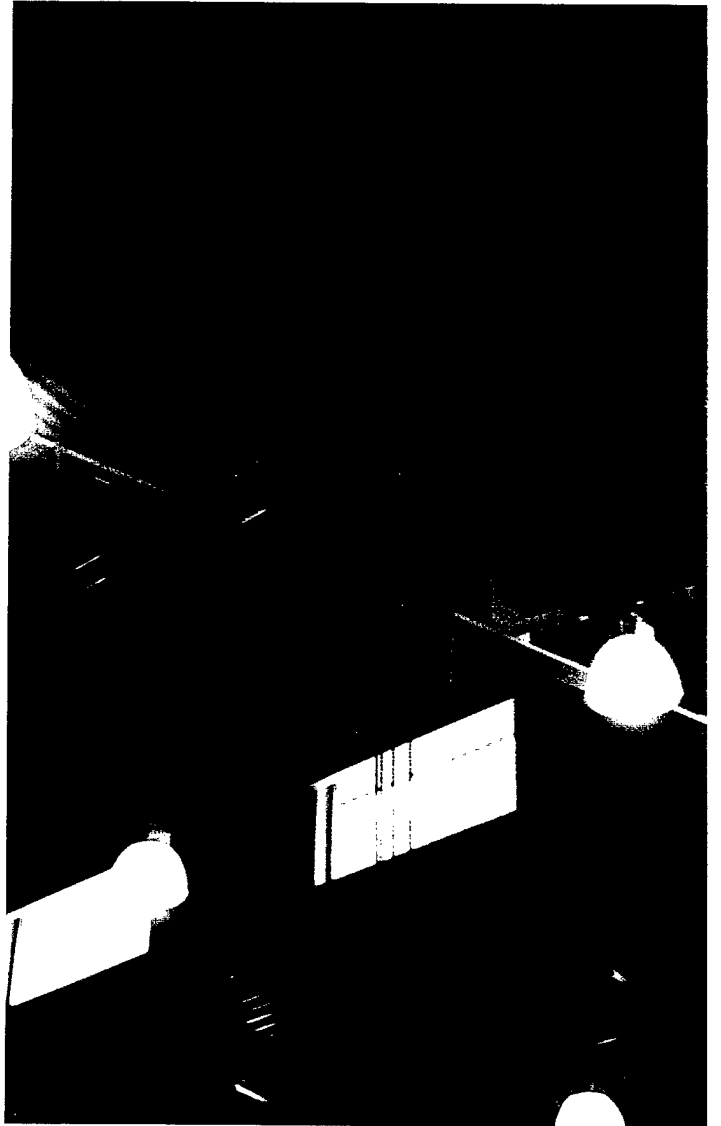
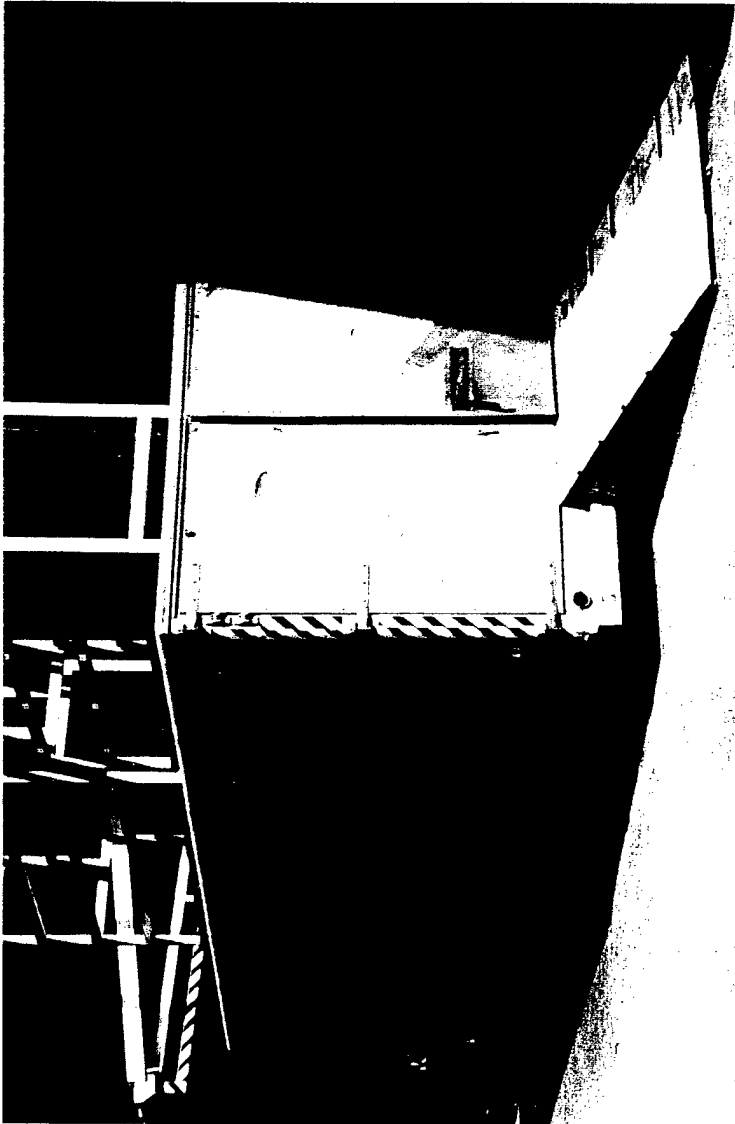


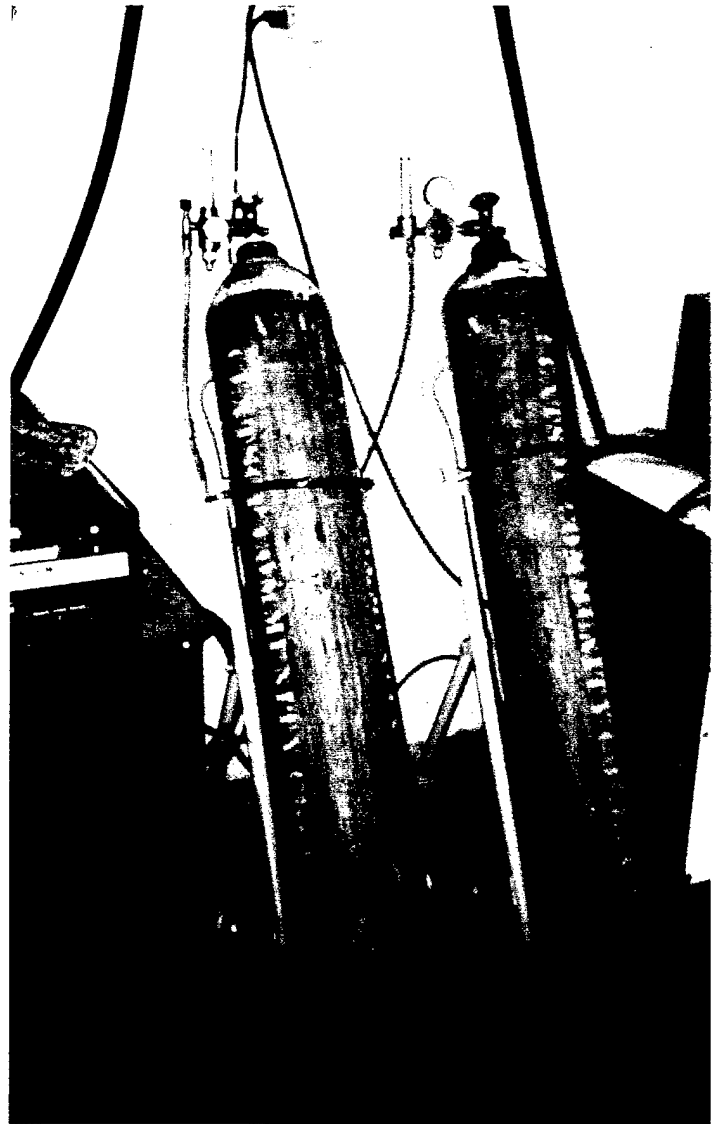
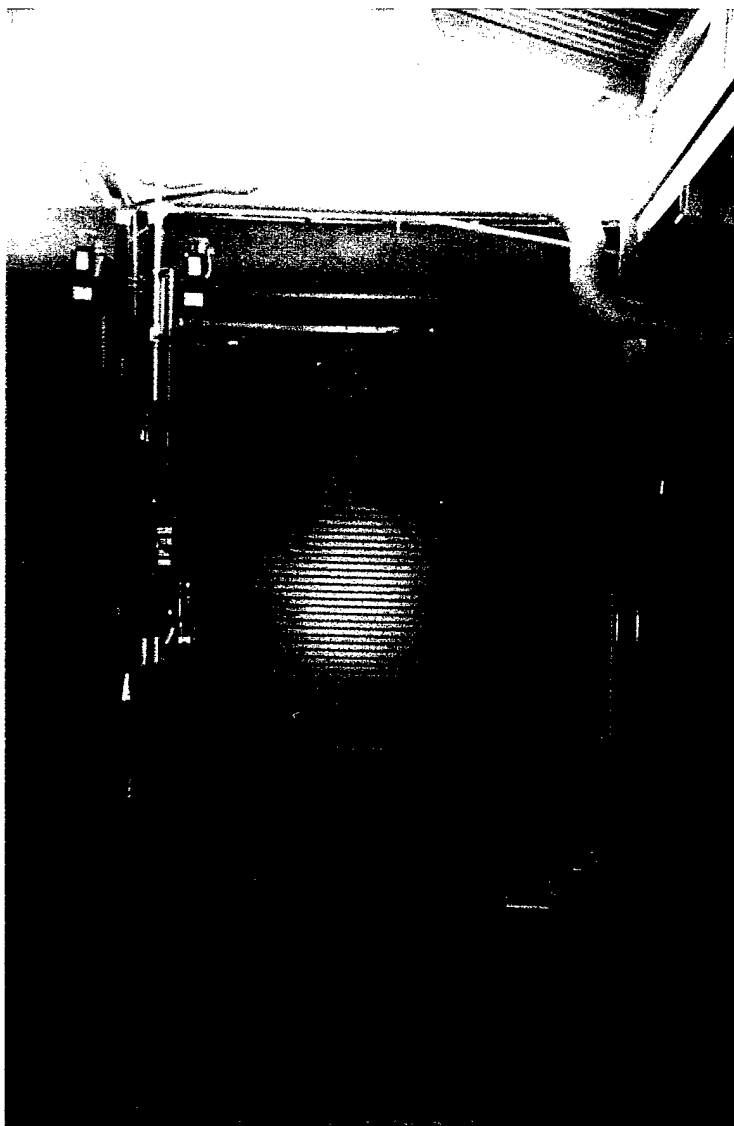
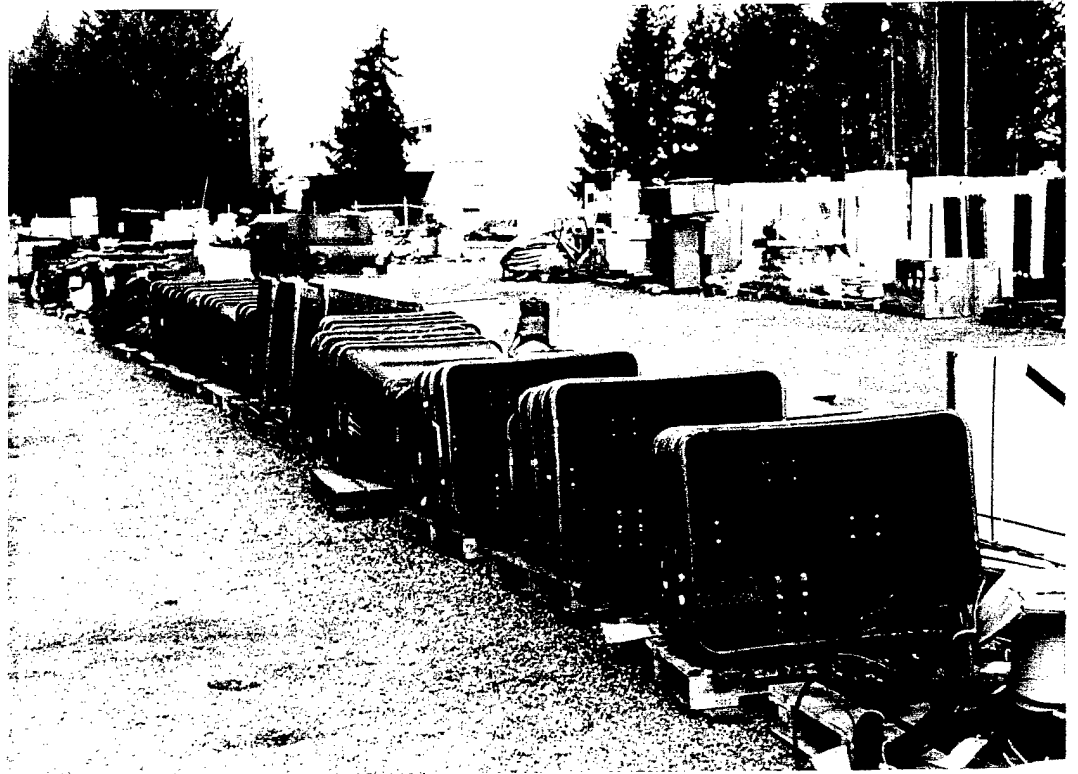


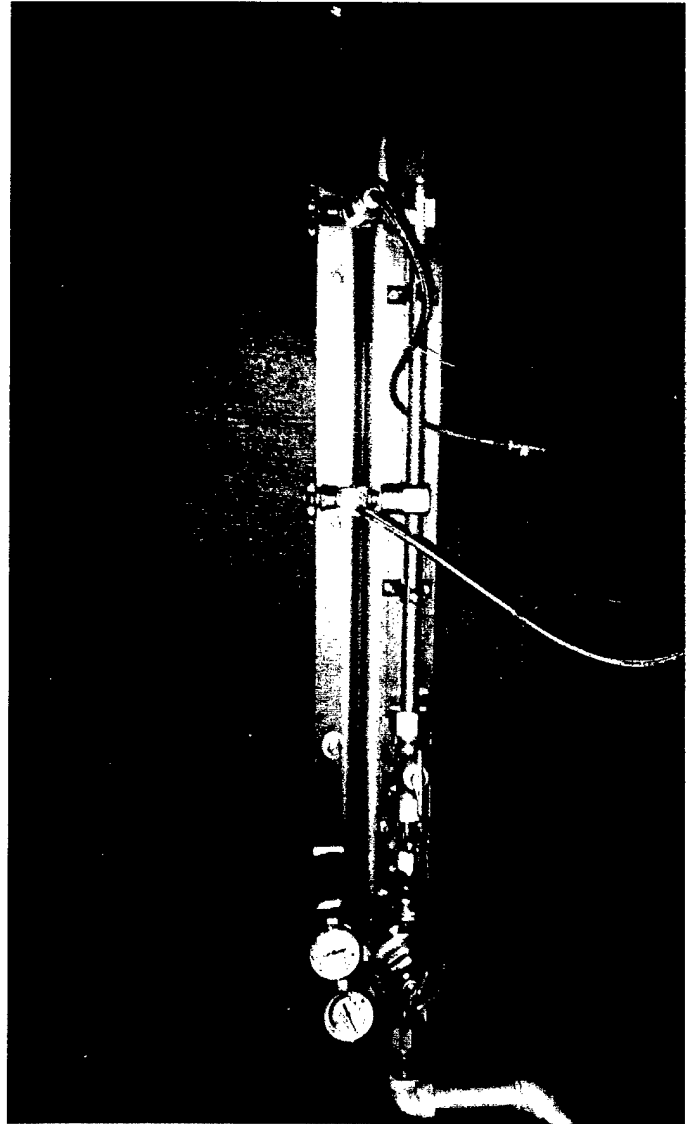
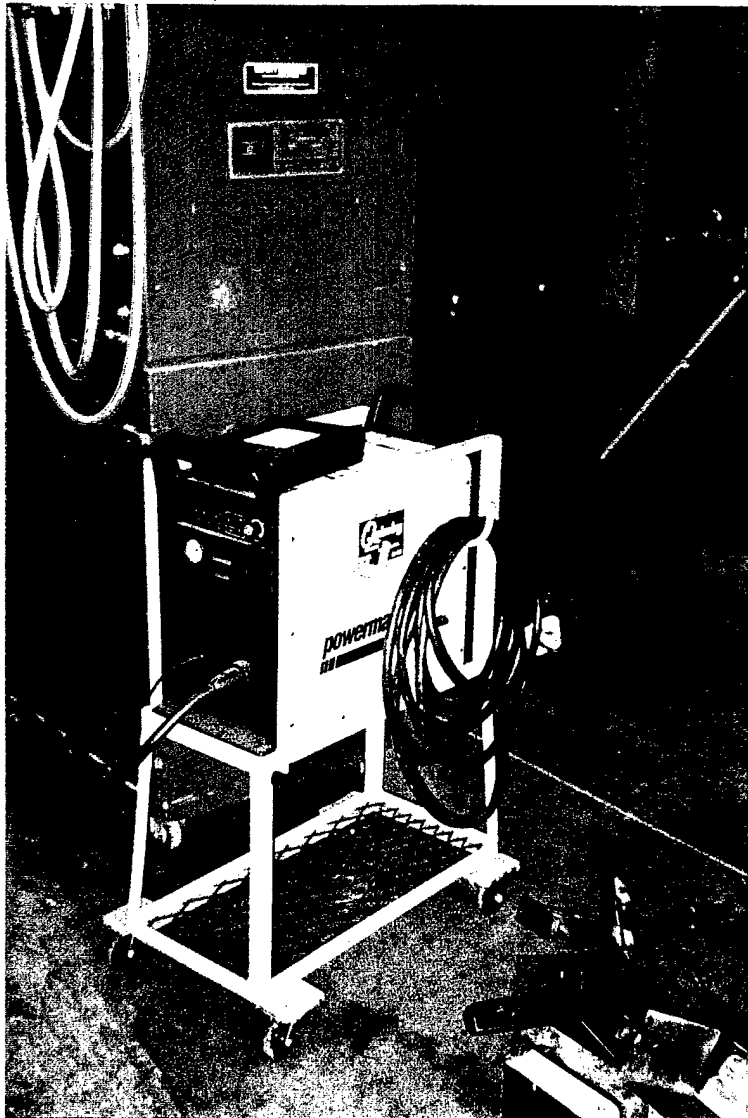
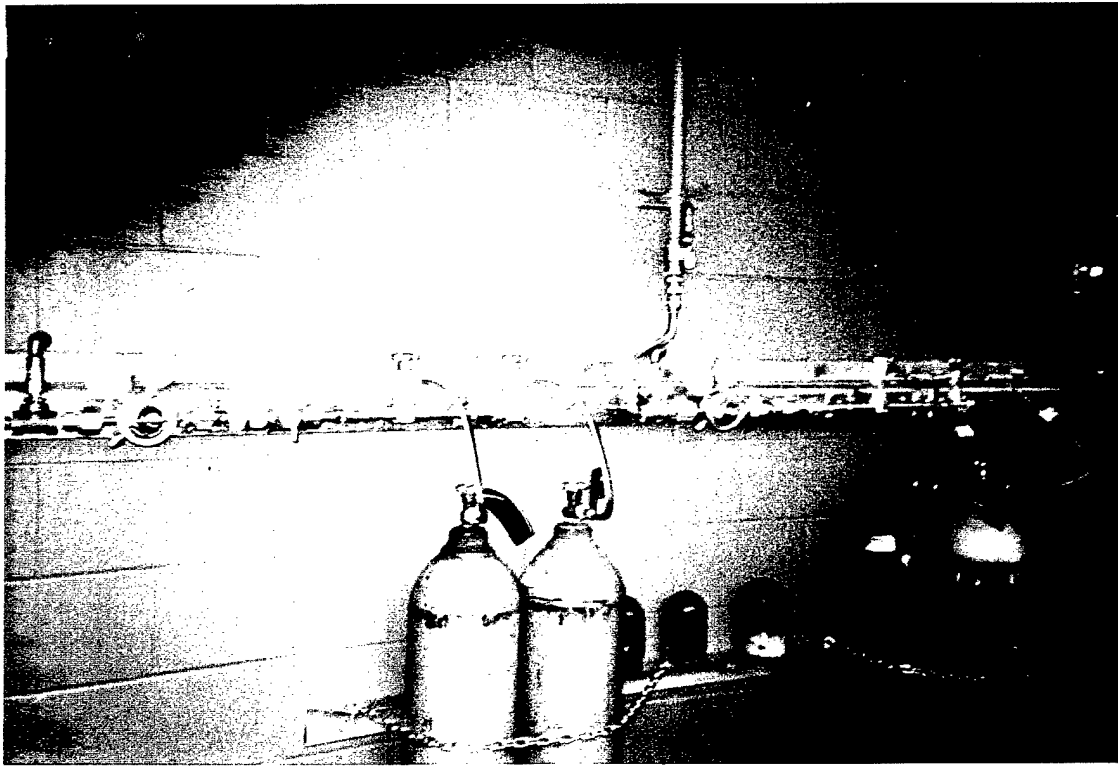


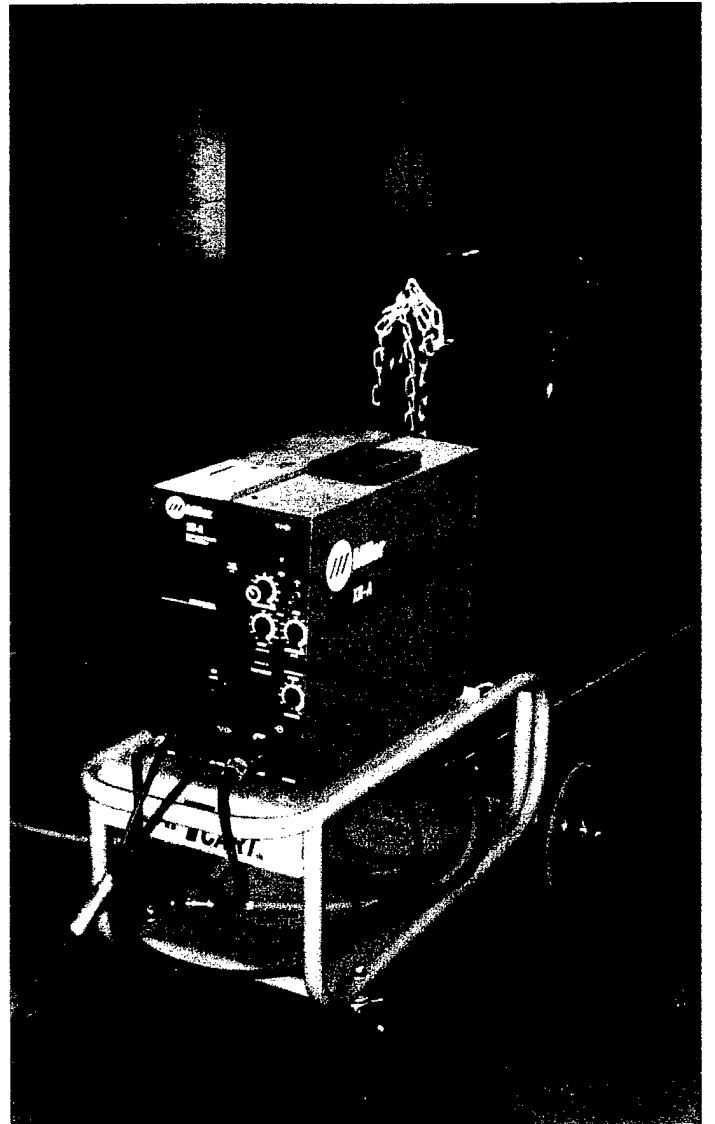
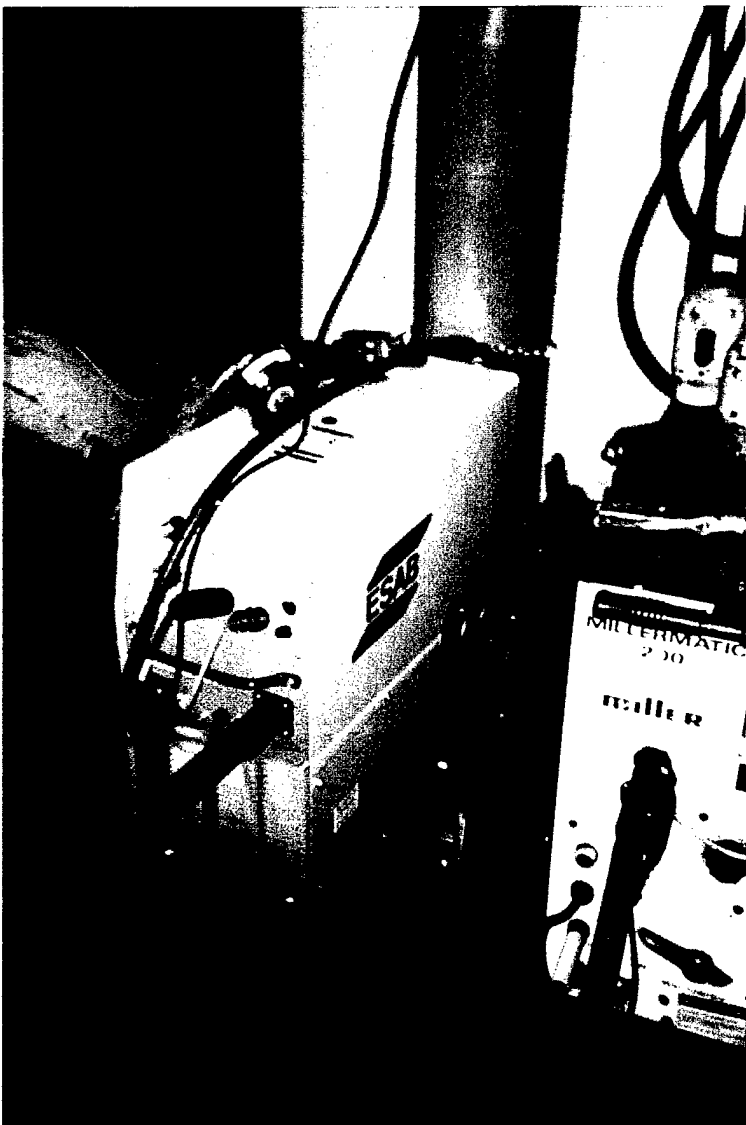
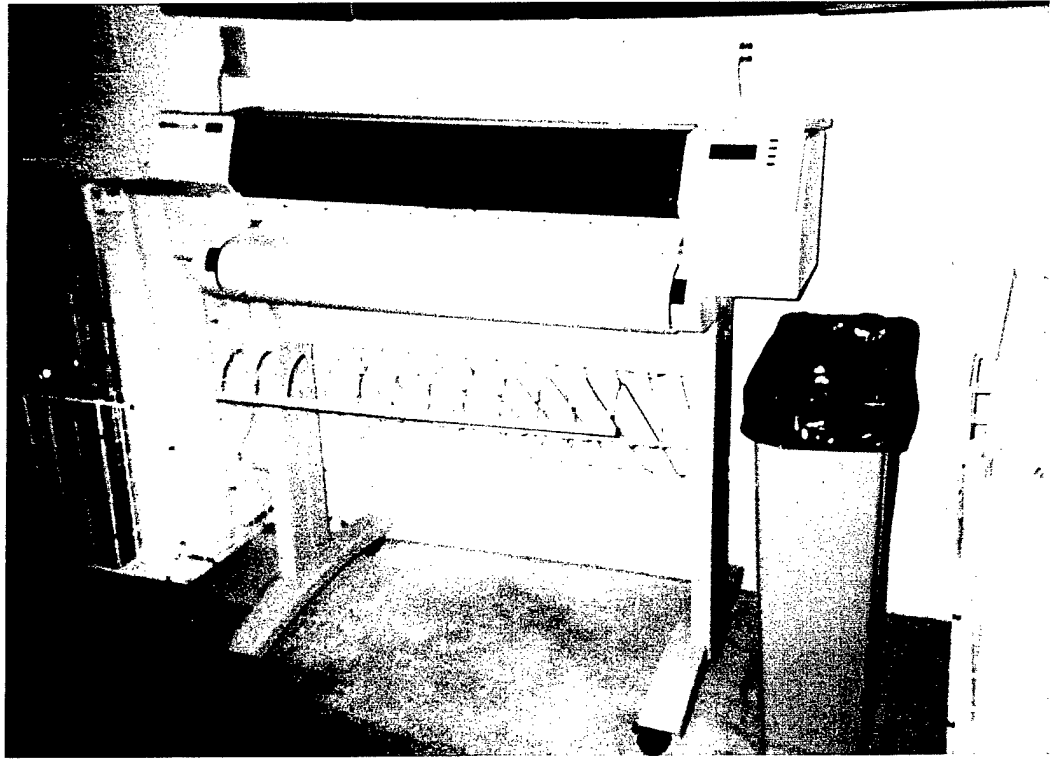












| Tag # | Description |
|--------------|----------------------------------------------------------------------|
| 9601 | DesignJet 750C+ Large Format E-Size Inkjet Plotter w/Jet Direct Card |
| 9602 | Comb. 11"X17" LaserJet 4V w/8MB Simm Chip, 10 Base T Card |
| 9606 | 2000# Gas Powered Pressure Washer w/50' Hose&Wand |
| 9609 | Pentium P5-200 Mini-Tower w/Drives |
| 9610 | 17" Vivitron Color Display Monitor |
| 9611 | 101 Key-Keyboard |
| 9612 | Multimedia Speakers |
| 9613 | Pentium P5-200 Mini-Tower w/Drives |
| 9614 | 17" Vivitron Color Display Monitor |
| 9615 | 101 Key-Keyboard |
| 9616 | Multimedia Speakers |
| 9617 | Pentium P5-200 Mini-Tower w/Drives |
| 9618 | 17" Vivitron Color Display Monitor |
| 9619 | 101 Key-Keyboard |
| 9620 | Multimedia Speakers |
| 9621 | 8 Port Hublet For OGI/MERTS Campus |
| 9622 | Comb. 11"X17" LaserJet 4V |
| 9623 | Electric Hoist 3 Ton Capacity |
| 9624 | Electric Trolley 3 Ton Capacity w/ 4 button control |
| 9626 | Pentium P5-200 Mini-Tower w/Drives |
| 9627 | 17" Vivitron Color Display Monitor |
| 9628 | 101 Key-Keyboard |
| 9629 | Multimedia Speakers |
| 9630 | Pentium P5-200 Mini-Tower w/Drives |
| 9631 | 17" Vivitron Color Display Monitor |
| 9632 | 101 Key-Keyboard |
| 9633 | Multimedia Speakers |
| 9634 | Pentium P5-200 Mini-Tower w/Drives |
| 9635 | 17" Vivitron Color Display Monitor |
| 9636 | 101 Key-Keyboard |
| 9637 | Multimedia Speakers |
| 9638 | Pentium P5-200 Mini-Tower w/Drives |
| 9639 | 17" Vivitron Color Display Monitor |
| 9640 | 101 Key-Keyboard |
| 9641 | Multimedia Speakers |

| Tag # | Description |
|--------------|-------------------------------------------------|
| 9642 | Pentium P5-200 Mini-Tower w/Drives |
| 9643 | 17" Vivitron Color Display Monitor |
| 9644 | 101 Key-Keyboard |
| 9645 | Multimedia Speakers |
| 9646 | Pentium P5-200 Mini-Tower w/Drives |
| 9647 | 17" Vivitron Color Display Monitor |
| 9648 | 101 Key-Keyboard |
| 9649 | Multimedia Speakers |
| 9650 | Pentium P5-200 Mini-Tower w/Drives |
| 9651 | 17" Vivitron Color Display Monitor |
| 9652 | 101 Key-Keyboard |
| 9653 | Multimedia Speakers |
| 9654 | Pentium P5-200 Mini-Tower w/Drives |
| 9655 | 17" Vivitron Color Display Monitor |
| 9656 | 101 Key-Keyboard |
| 9657 | Multimedia Speakers |
| 9658 | Pentium P5-200 Mini-Tower w/Drives |
| 9659 | 17" Vivitron Color Display Monitor |
| 9660 | 101 Key-Keyboard |
| 9661 | Multimedia Speakers |
| 9662 | Electric Plasma Arc Cutting Machine, 800 System |
| 9669 | 24 Port HP Advanced Stack Hub |
| 9670 | T1 DSU/CSU |
| 9671 | TI Router |
| 9675 | Knnack Storage Chest |
| 9676 | BT 5,000 lb Pallet Jack |
| 9687 | Gas Manifold |
| 9688 | Gas Manifold |
| 9689 | Gas Manifold |
| 9696 | 9,000 lb Capacity Two Post Lift |
| 9697 | 12,000 lb Capacity Four Post Alignment Lift |
| 9698 | 8 Ton Equipment Moving Dollies (w/case) |
| 9710 | Network Server |
| 9711 | 14" Color Monitor |
| 9712 | 101 Key Standard Keyboard |

| Tag # | Description |
|-------|-------------------------------------------------|
| 9713 | Server System Battery Backup |
| 9715 | Video / Data Projector w/Case |
| 9721 | Jet Direct Printer Hub |
| 9722 | Jet Direct Printer Hub |
| 9723 | Advance Stack Mini 8 Port Hub |
| 9724 | Advance Stack Mini 8 Port Hub |
| 9725 | Advance Stack Mini 8 Port Hub |
| 9726 | Advance Stack Mini 8 Port Hub |
| 9729 | Advance Stack Mini 8 Port Hub |
| 9730 | Advance Stack Mini 8 Port Hub |
| 9731 | Advance Stack 24 Port Hub |
| 9732 | Advance Stack 24 Port Hub |
| 9733 | Advance Stack 24 Port Hub |
| 9734 | Data & Telephone Cable Termination Tool Kit |
| 9735 | LaserJet Printer |
| 9736 | Wire Feed Welder w/MT250SG Aluminum Spool gun |
| 9737 | Suitcase Wire Feeder w/30' Stretch & XR30-A Gun |
| 9738 | 20" Circular Disc Sander |
| 9740 | 2 Ton Electric Crane |
| 9753 | Automotive Analying Tool |
| 9754 | CD-Rom Based Shop Repair Manuals |
| 9755 | Portable Engine Anayler |
| 9756 | Pentium GP5-200 Mini-Tower w/Drives |
| 9757 | 17" Color Display Monitor |
| 9758 | 101 Key-Keyboard |
| 9759 | Pentium GP5-200 Mini-Tower w/Drives |
| 9760 | 17" Color Display Monitor |
| 9761 | 101 Key-Keyboard |
| 9762 | Pentium GP5-200 Mini-Tower w/Drives |
| 9763 | 17" Color Display Monitor |
| 9764 | 101 Key-Keyboard |
| 9765 | Pentium GP5-200 Mini-Tower w/Drives |
| 9766 | 17" Color Display Monitor |
| 9767 | 101 Key-Keyboard |
| 9768 | Pentium GP5-200 Mini-Tower w/Drives |

| Tag # | Description |
|--------------|-------------------------------------|
| 9769 | 17" Color Display Monitor |
| 9770 | 101 Key-Keyboard |
| 9771 | Pentium GP6-300 Mini-Tower w/Drives |
| 9772 | 17" Color Display Monitor |
| 9773 | 101 Key-Keyboard |
| 9774 | Pentium GP6-300 Mini-Tower w/Drives |
| 9775 | 17" Color Display Monitor |
| 9776 | 101 Key-Keyboard |
| 9777 | Pentium GP6-300 Mini-Tower w/Drives |
| 9778 | 17" Color Display Monitor |
| 9779 | 101 Key-Keyboard |
| 9780 | Pentium GP6-300 Mini-Tower w/Drives |
| 9781 | 101 Key-Keyboard |
| 9782 | 21" Color Display Monitor |
| 9783 | Pentium GP6-300 Mini-Tower w/Drives |
| 9784 | 17" Color Display Monitor |
| 9785 | 101 Key-Keyboard |
| 9786 | Pentium GP6-300 Mini-Tower w/Drives |
| 9787 | 17" Color Display Monitor |
| 9788 | 101 Key-Keyboard |
| 9789 | Pentium GP6-300 Mini-Tower w/Drives |
| 9790 | 17" Color Display Monitor |
| 9791 | 101 Key-Keyboard |
| 9792 | Pentium GP6-300 Mini-Tower w/Drives |
| 9793 | 17" Color Display Monitor |
| 9794 | 101 Key-Keyboard |
| 9795 | Pentium GP6-300 Mini-Tower w/Drives |
| 9796 | 17" Color Display Monitor |
| 9797 | 101 Key-Keyboard |
| 9798 | Pentium GP6-300 Mini-Tower w/Drives |
| 9799 | 17" Color Display Monitor |
| 9800 | 101 Key-Keyboard |
| 9801 | Pentium GP6-300 Mini-Tower w/Drives |
| 9802 | 17" Color Display Monitor |
| 9803 | 101 Key-Keyboard |

| Tag # | Description |
|-------|-----------------------------------------------|
| 9804 | Pentium GP6-300 Mini-Tower w/Drives |
| 9805 | 17" Color Display Monitor |
| 9806 | 101 Key-Keyboard |
| 9807 | Pentium GP6-300 Mini-Tower w/Drives |
| 9808 | 17" Color Display Monitor |
| 9809 | 101 Key-Keyboard |
| 9810 | Pentium GP6-300 Mini-Tower w/Drives |
| 9811 | 17" Color Display Monitor |
| 9812 | 101 Key-Keyboard |
| 9813 | Pentium GP6-300 Mini-Tower w/Drives |
| 9814 | 17" Color Display Monitor |
| 9815 | 101 Key-Keyboard |
| 9816 | Pentium GP6-300 Mini-Tower w/Drives |
| 9817 | 17" Color Display Monitor |
| 9818 | 101 Key-Keyboard |
| 9819 | Pentium GP6-300 Mini-Tower w/Drives |
| 9820 | 17" Color Display Monitor |
| 9821 | 101 Key-Keyboard |
| 9822 | Pentium GP6-300 Mini-Tower w/Drives |
| 9823 | 17" Color Display Monitor |
| 9824 | 101 Key-Keyboard |
| 9825 | Pentium GP6-300 Mini-Tower w/Drives |
| 9826 | 17" Color Display Monitor |
| 9827 | 101 Key-Keyboard |
| 9838 | B Size Flat Bed Scanner |
| 9844 | 38" Riding Mower W/Bagging Attachment |
| 9850 | 1 1/2" Capacity Rotary Hammer w/case |
| 9854 | Electric Plasma Arc Cutting Machine |
| 9855 | Electric Plasma Arc Cutting Machine |
| 9856 | Digital Camera |
| 10018 | Wire Feed Welder w/MT250SG Aluminum Spool gun |
| 10019 | Wire Feed Welder w/MT250SG Aluminum Spool gun |
| 10020 | Wire Feed Welder w/MT250SG Aluminum Spool gun |
| 10034 | Electric Magnetic Portable Drill Press |
| 10037 | Exterior Mail Box |

Tag #

Description

Voice Mail System
Educational Network labor
T-1 Connection labor
Telemetry to site project

9674 8K 1990 Hyster H80XL Forklift
9681 27' Enclosed Storage Van, Military Surplus Property