DON 542

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US ARMAMENT
RESEARCH DEVELOPMENT
ENGINEERING CENTER
BENET LABORATORIES

2.1 WORKLOAD:

Direct Program Data - President's Budgets FY 86-95 for RDTE/PAA and BPRR for OMA;

actual Direct Program Data - 218 Reports.

Customer Program - FY86-93 programmed data based on projections to AMC beginning of each fiscal year, and

actual data is from the Final Flash Obligation Reports each fiscal year. FY 94-97 data is based on the ARDEC Business Plan.

	Fiscal Years											
INFORMATION REQUIRED	86	87	88	89	90	91	92	93	94	95	96	97
TOTAL FUNDS PROGRAMMED ($M)	48	28	29	39	49	48	38	37	28	30	30	29
TOTAL ACTUAL FUNDS ($M)	48	28	29	39	49	48	38	37				
PROGRAMMED WORKYEARS	316	307	300	304	297	292	276	262	262	221	221	221
ACTUAL WORKYEARS	388	341	319	323	331	327	321	306				

Break out of FY 86-93 Actual Funds and FY 94-97 Programmed Funds follows:

Hardware	0	0	0	0	0	0	0	0	0	0	0	0
RDTE	4	2	2	2	2	2	2	2	1	1	1	1
OMA	0	0	0	0	0	0	0	0	0	0	0	0
DBOF									0	0	0	0
Customer	44	26	27	37	47	46	36	35	27	29	29	28
TOTAL	48	28	29	39	49	48	38	37	28	30	30	29

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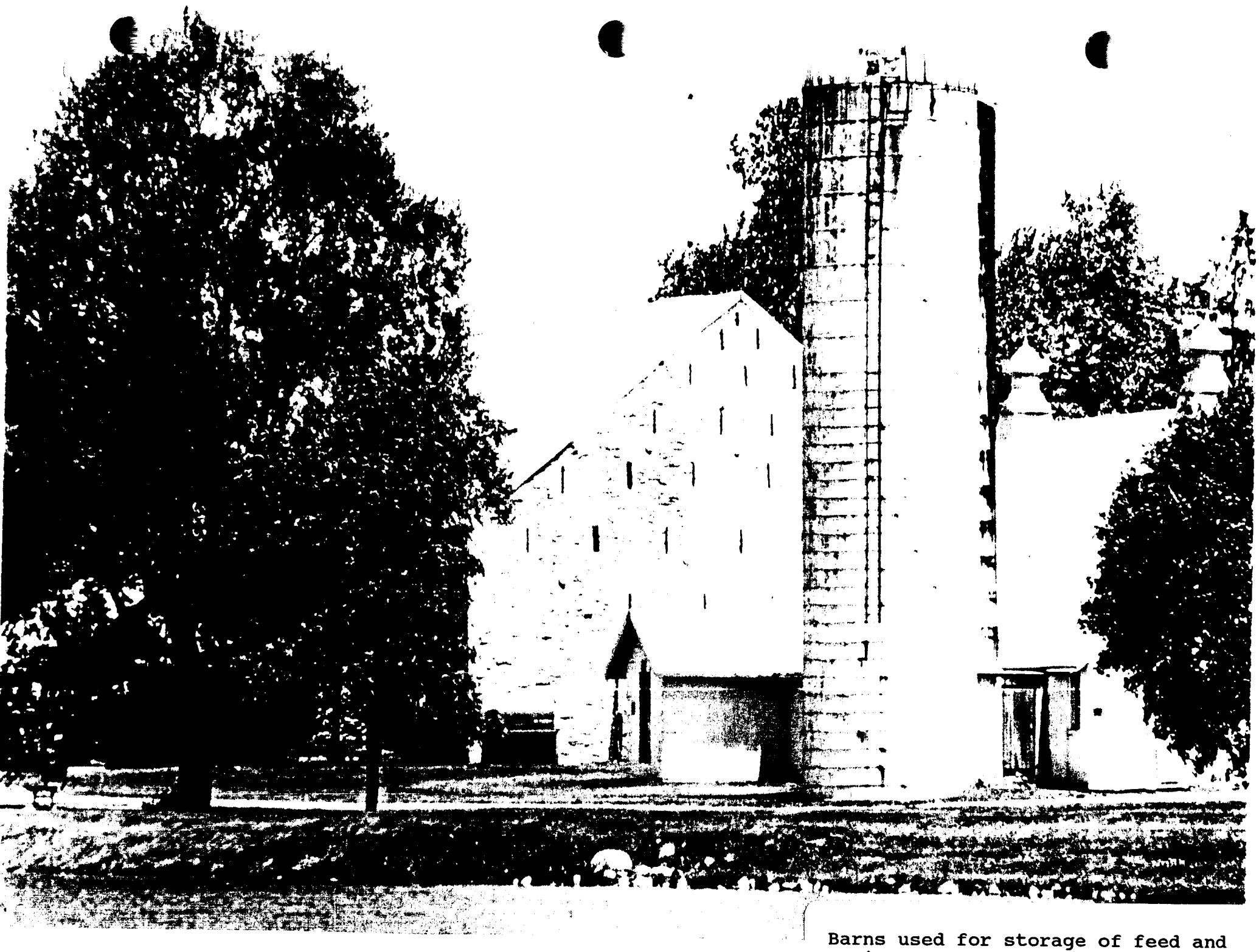
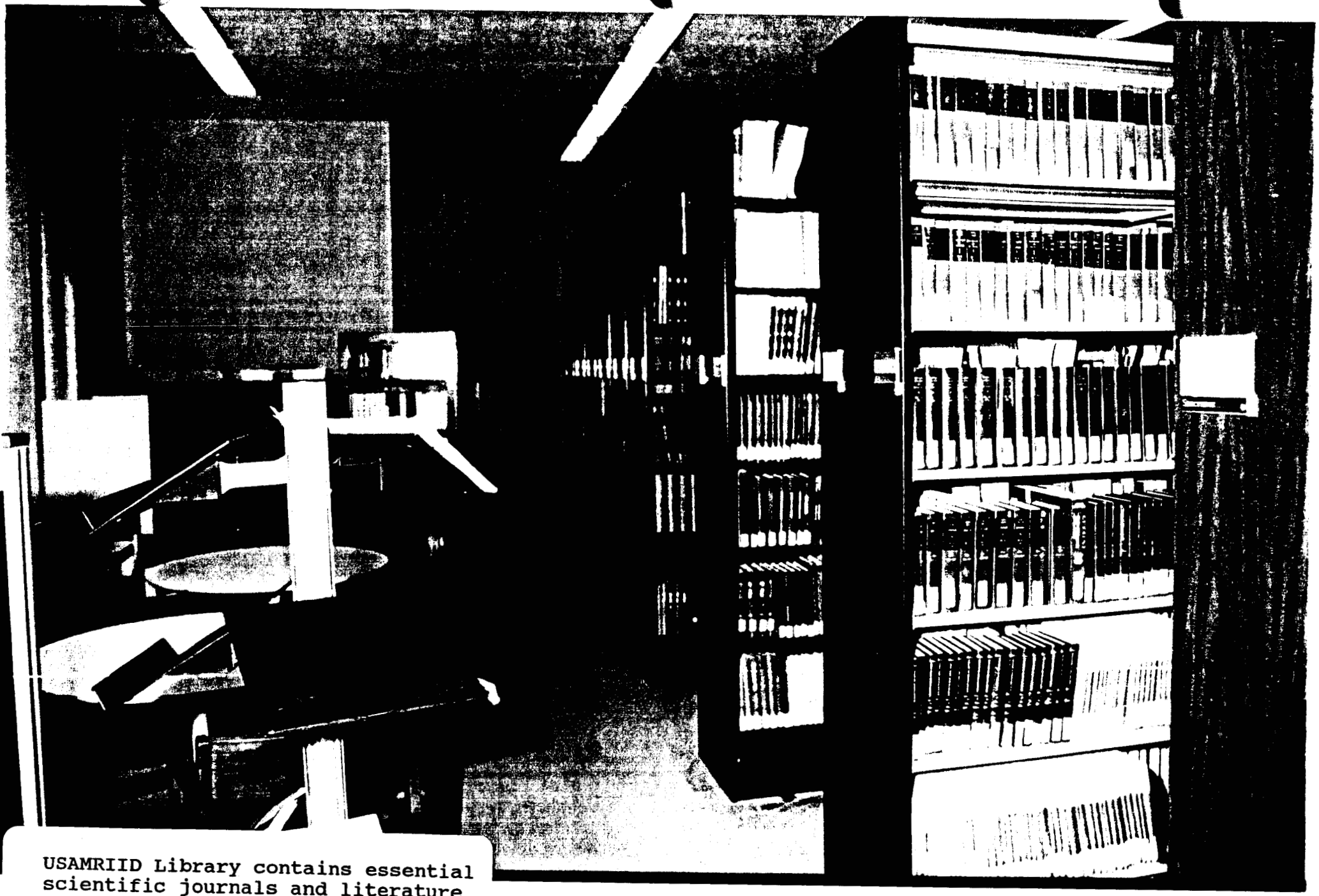
Benet

USAMRIID Large Animal Research Facility.

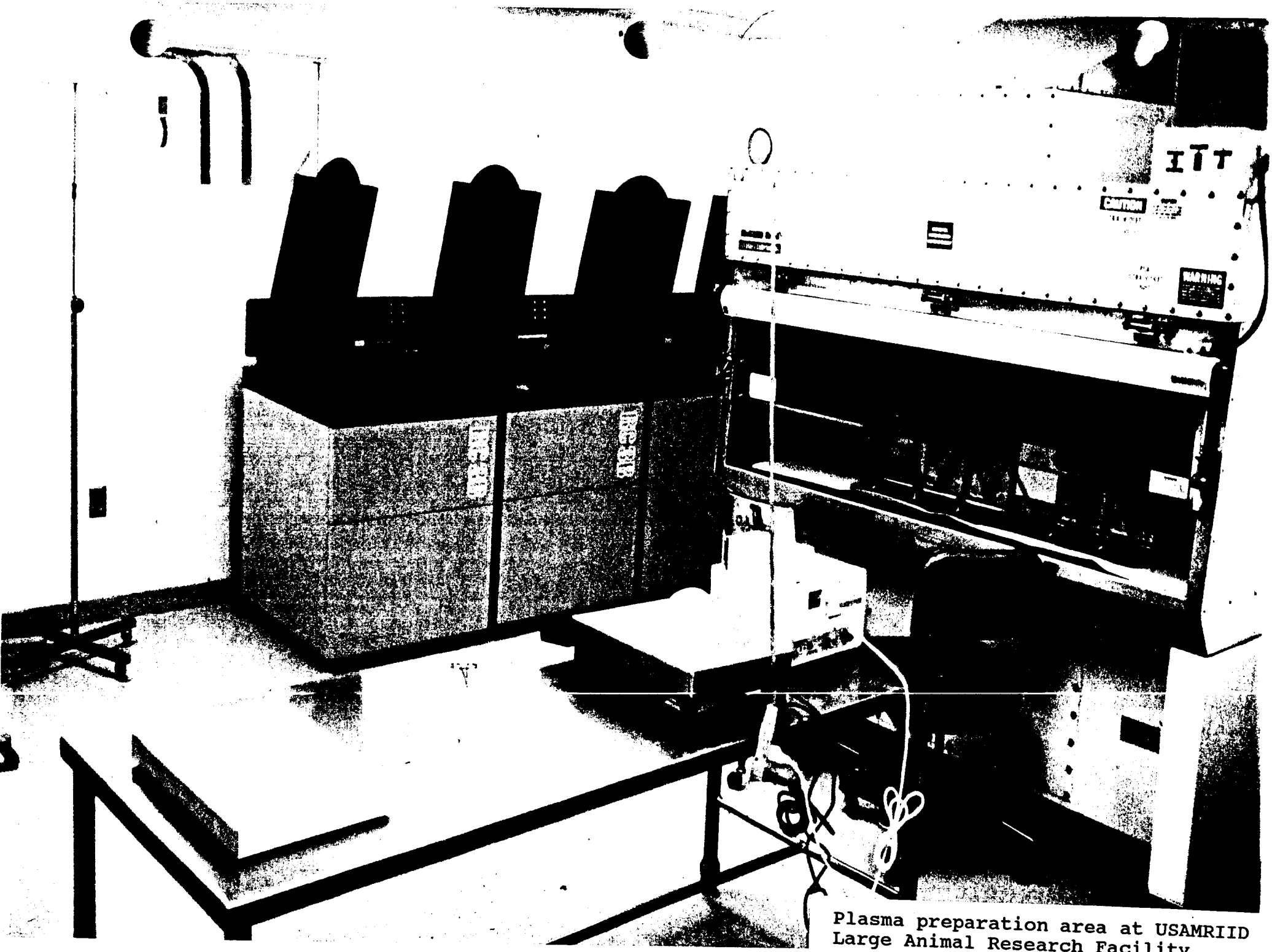


Barns used for storage of feed and equipment.

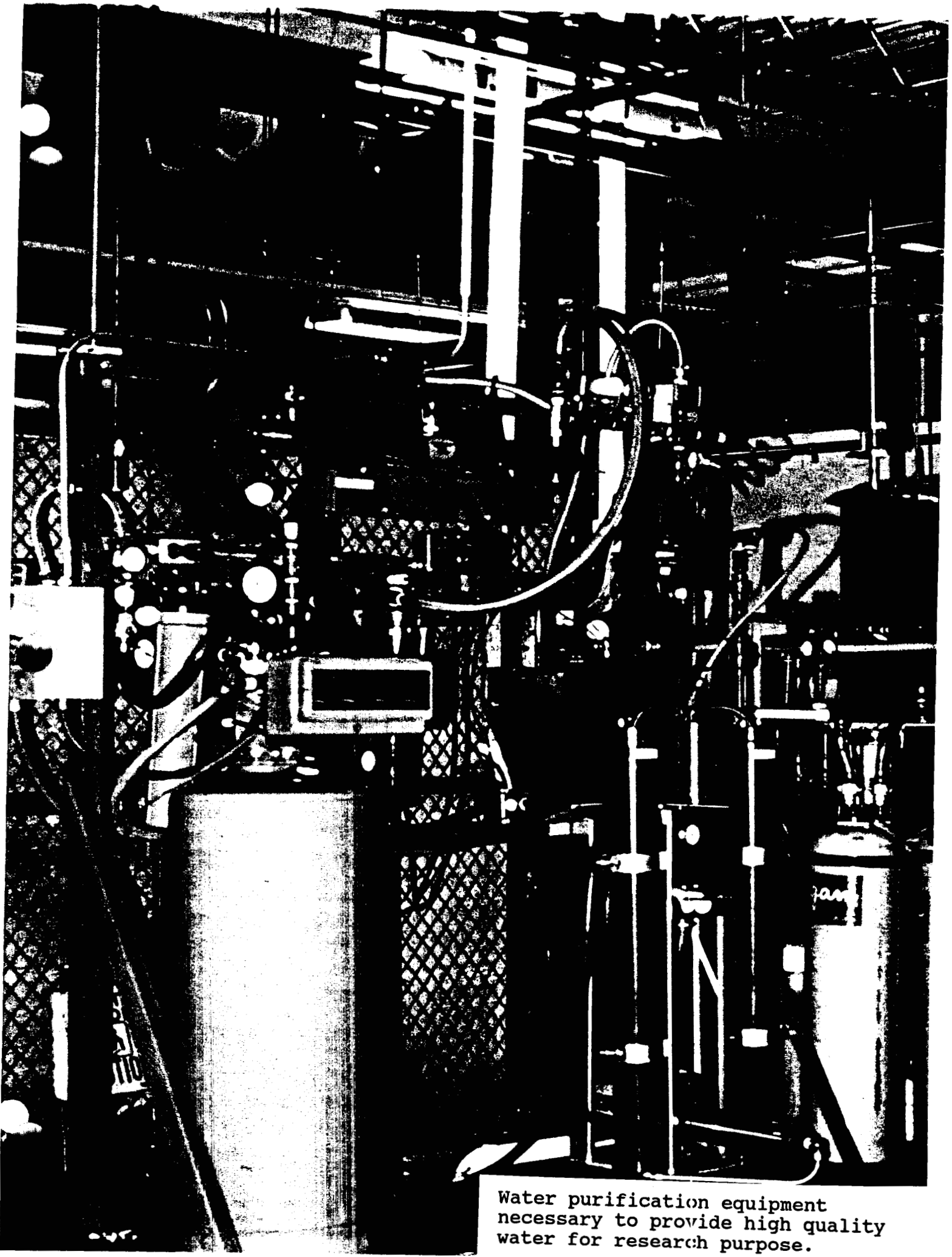


USAMRIID Library contains essential scientific journals and literature to support the research mission.

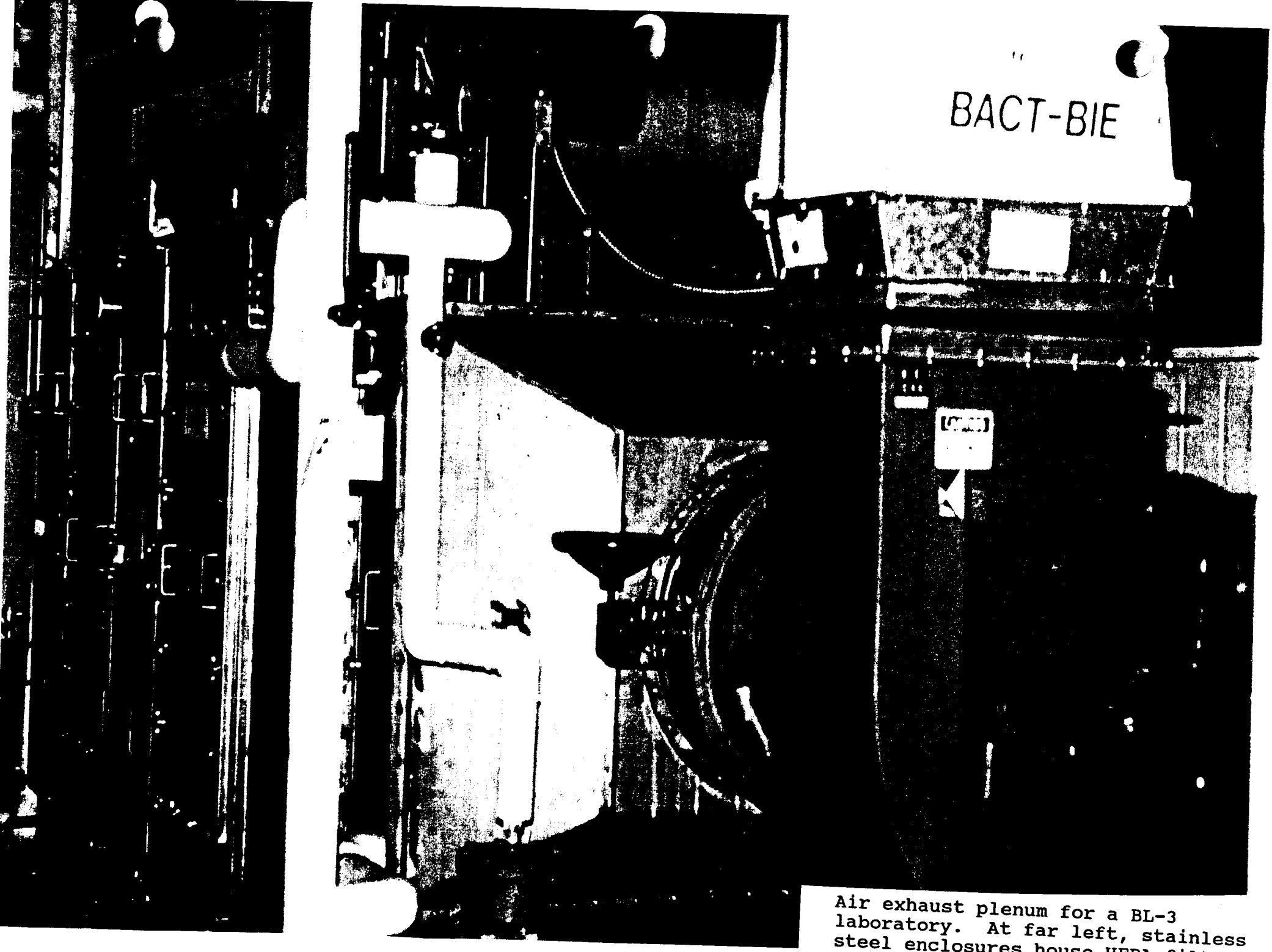
Stalls at USAMRIID Large Animal Research Facility used for plasma pheresis of horses.



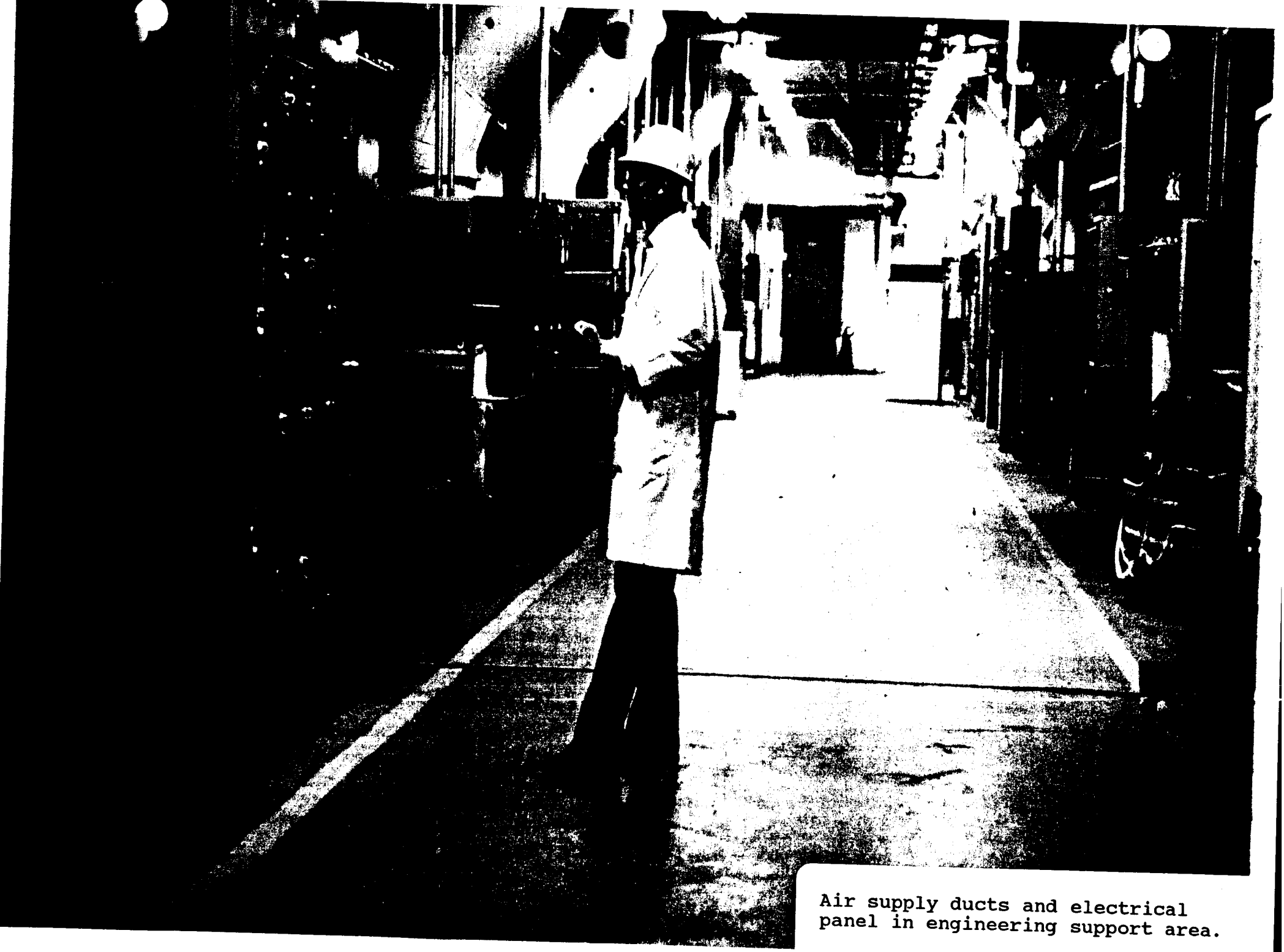
Plasma preparation area at USAMRIID Large Animal Research Facility.



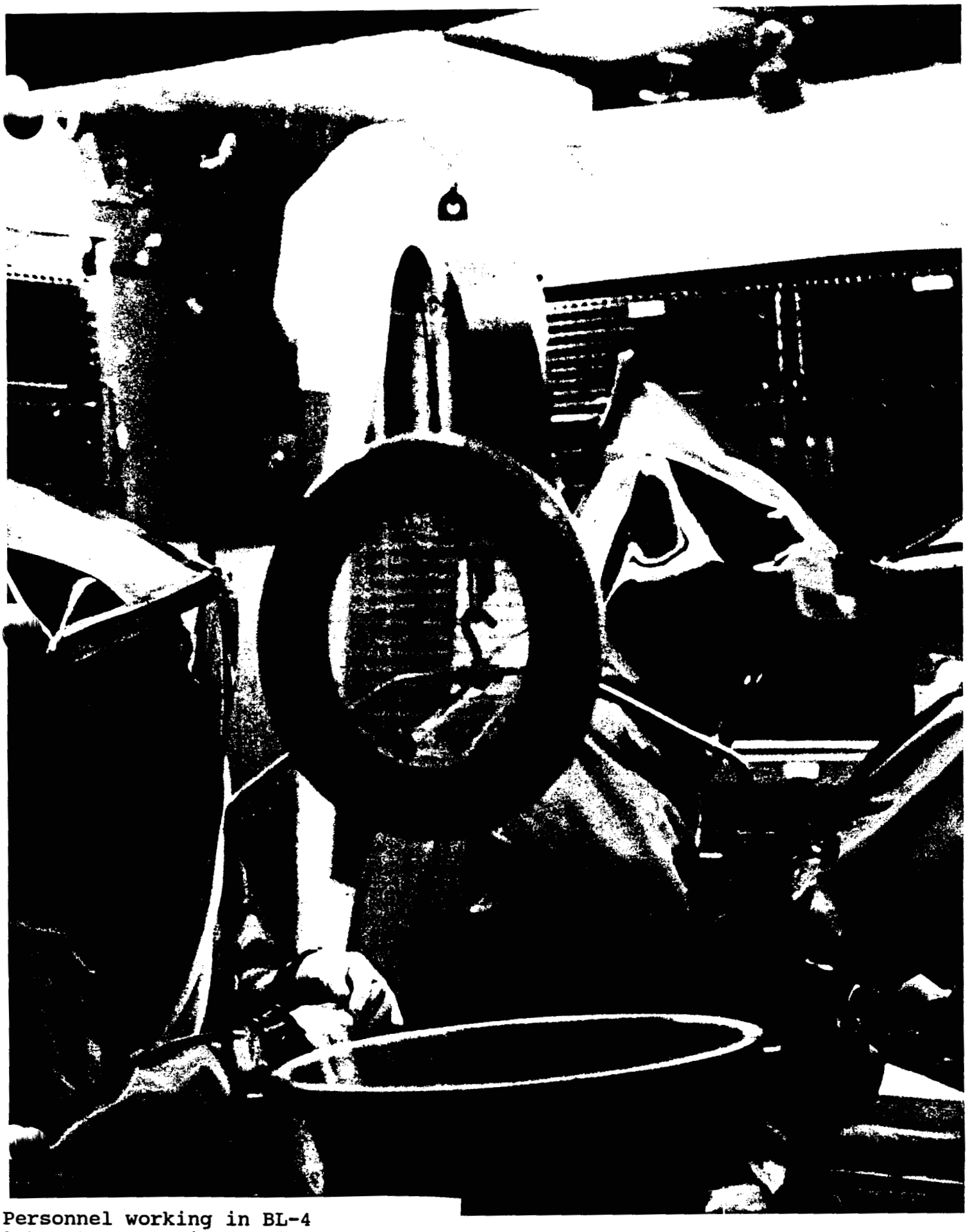
Water purification equipment necessary to provide high quality water for research purpose.



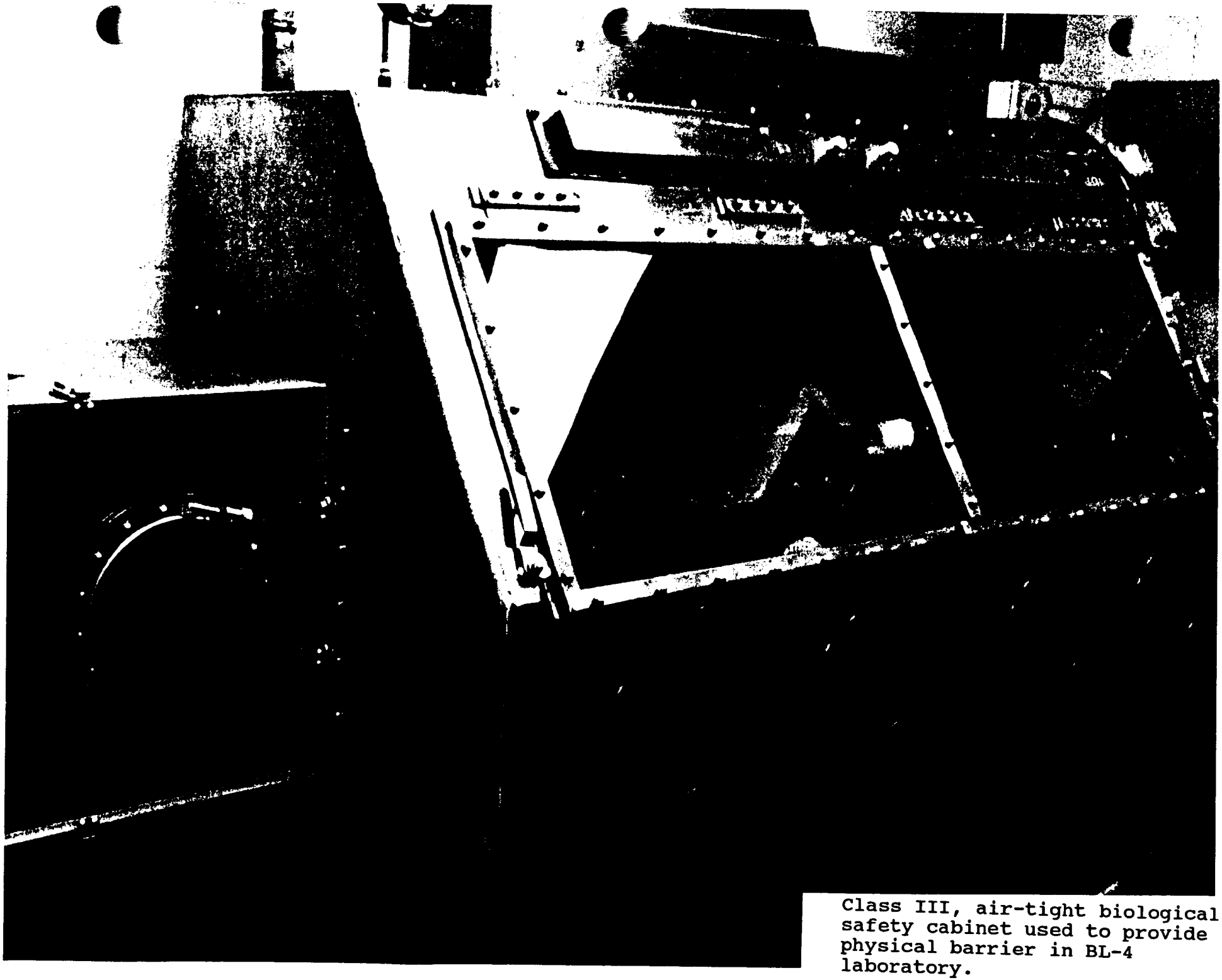
Air exhaust plenum for a BL-3 laboratory. At far left, stainless steel enclosures house HEPA filter units.



Air supply ducts and electrical panel in engineering support area.



Personnel working in BL-4 laboratory wearing positive-pressure protective suits.

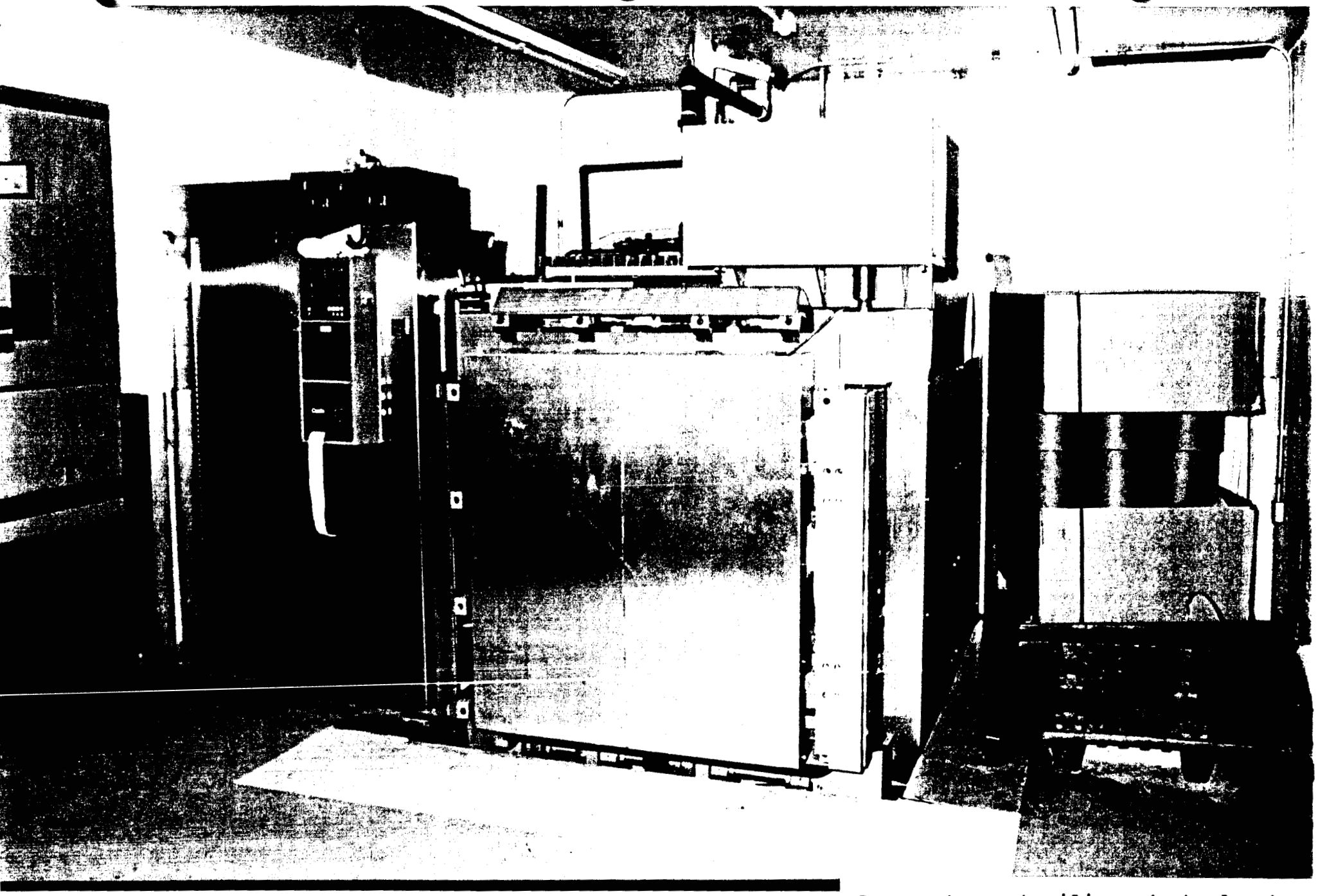


Class III, air-tight biological safety cabinet used to provide physical barrier in BL-4 laboratory.

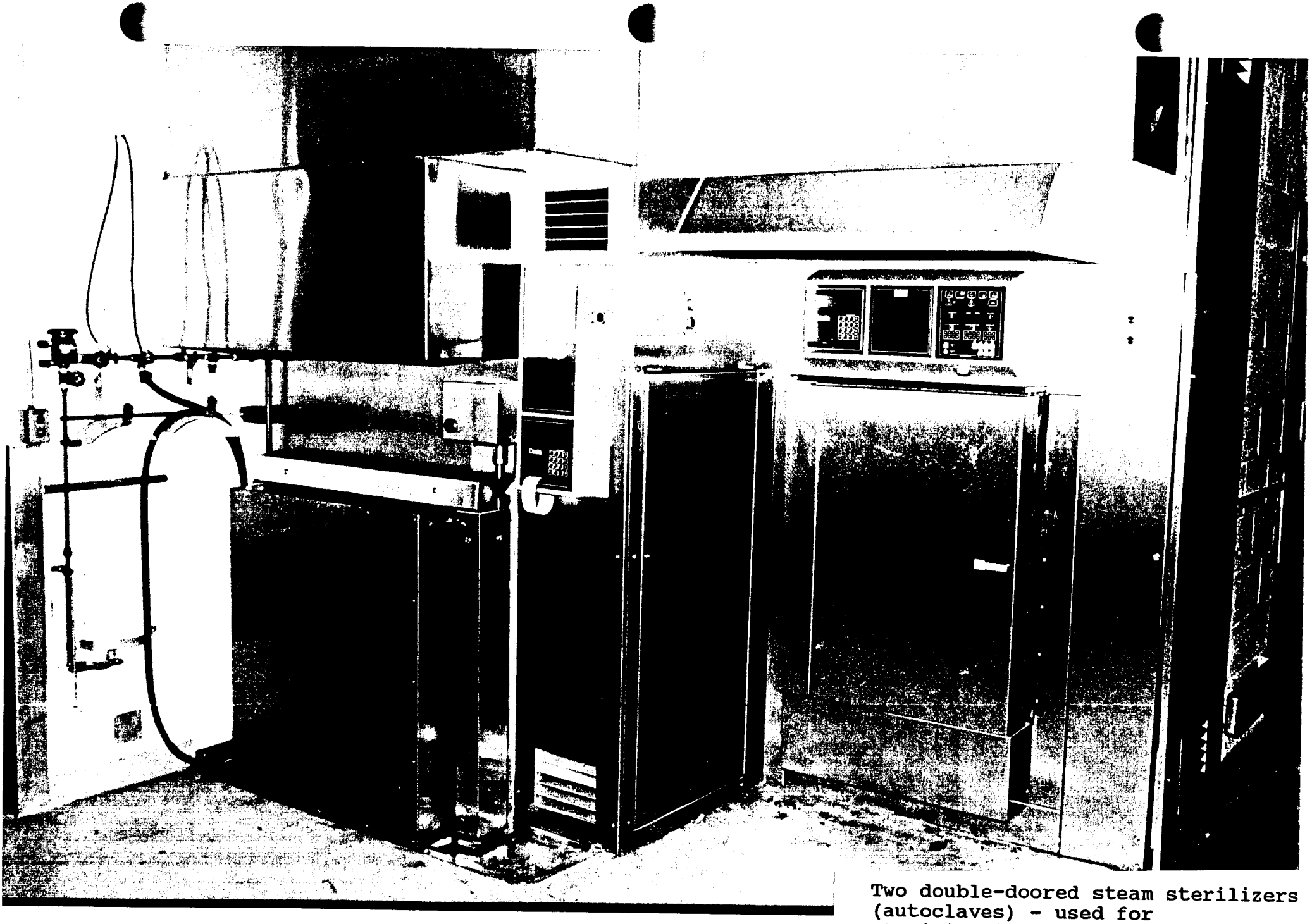
Close up view of working in a class III biological safety cabinet in a BL-4 laboratory.

Researcher in positive-pressure protective suit closing ventilated animal enclosure in a BL-4 laboratory.

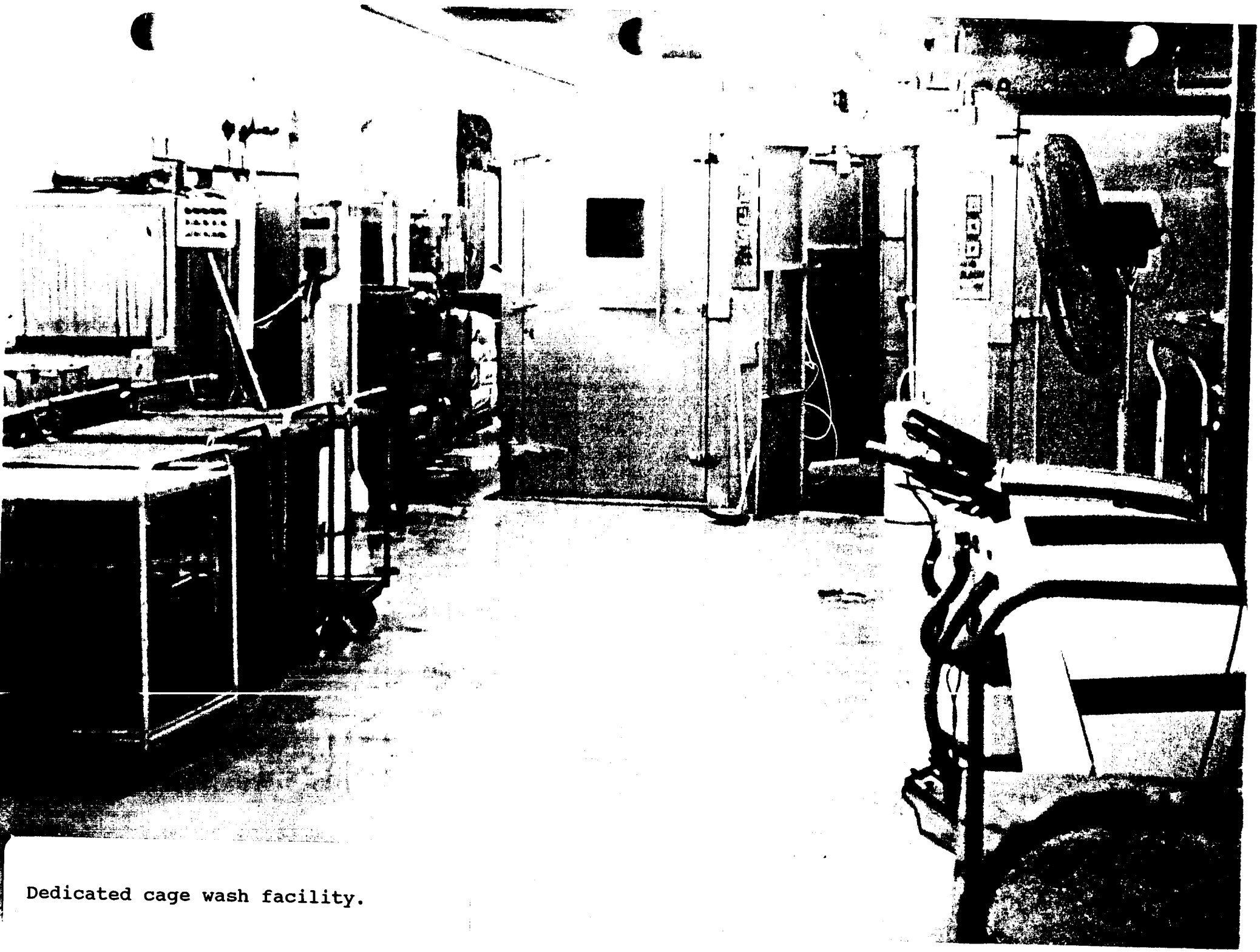
Stainless steel disinfectant shower used to decontaminate outer surfaces of positive-pressure protective suits upon exit from BL-4 laboratories.



Large steam sterilizer (autoclave) used for sterilizing laboratory wastes and animal carcasses.

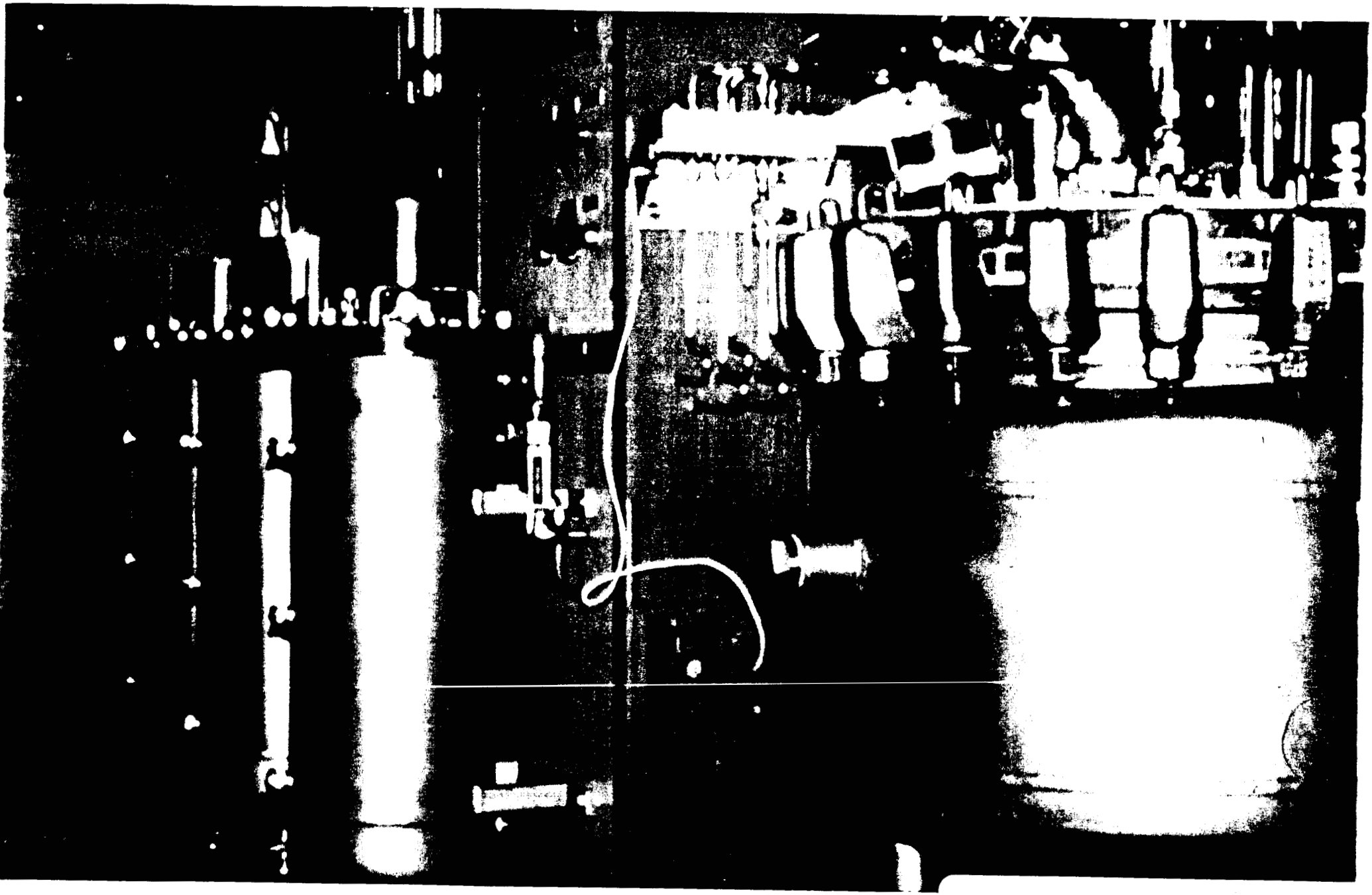


Two double-doored steam sterilizers (autoclaves) - used for sterilization of waste from containment (both BL-3 and BL-4) laboratories.

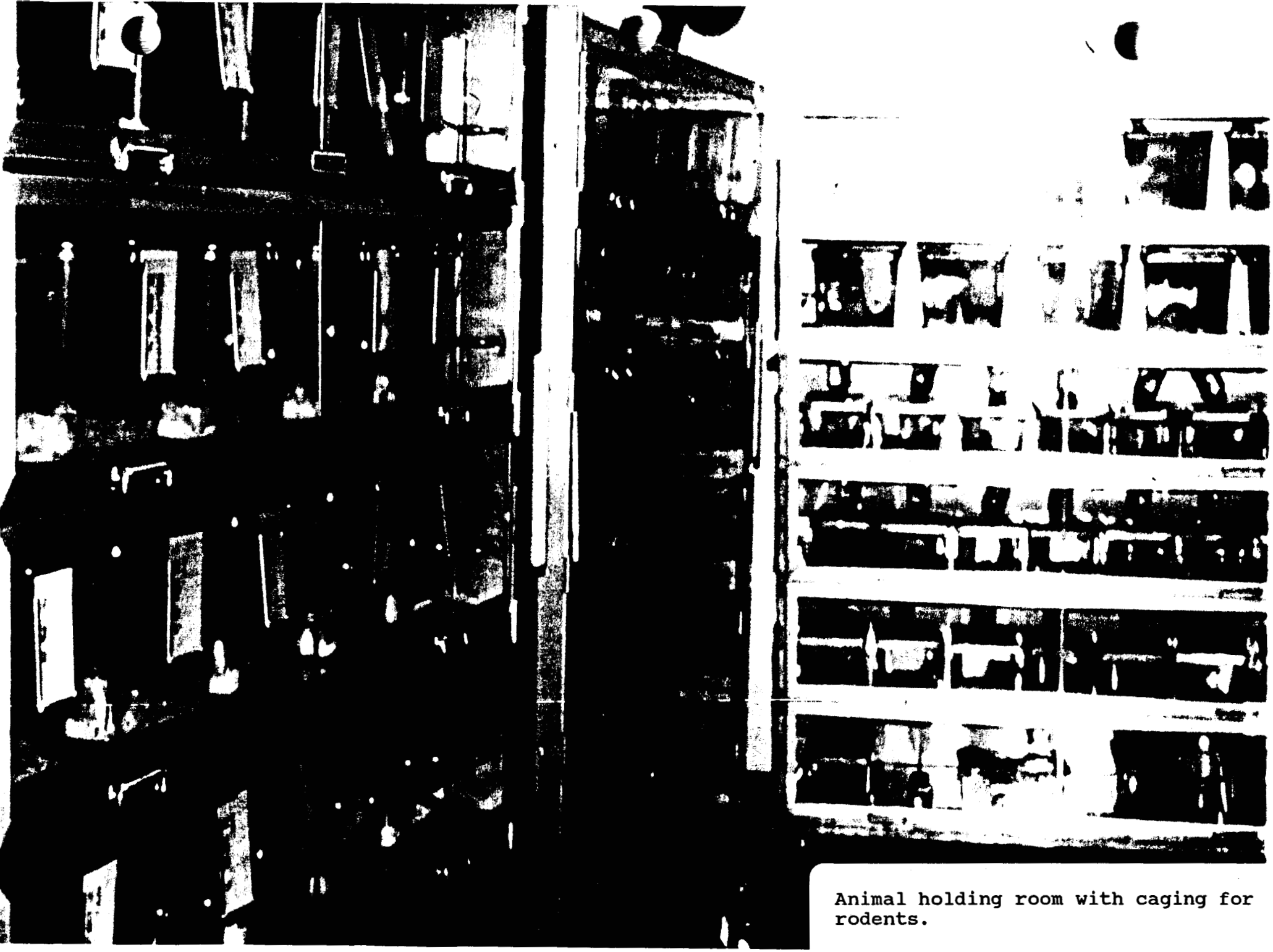


Dedicated cage wash facility.

ne Glassware facility supports all
ne researchers at USAMRIID.

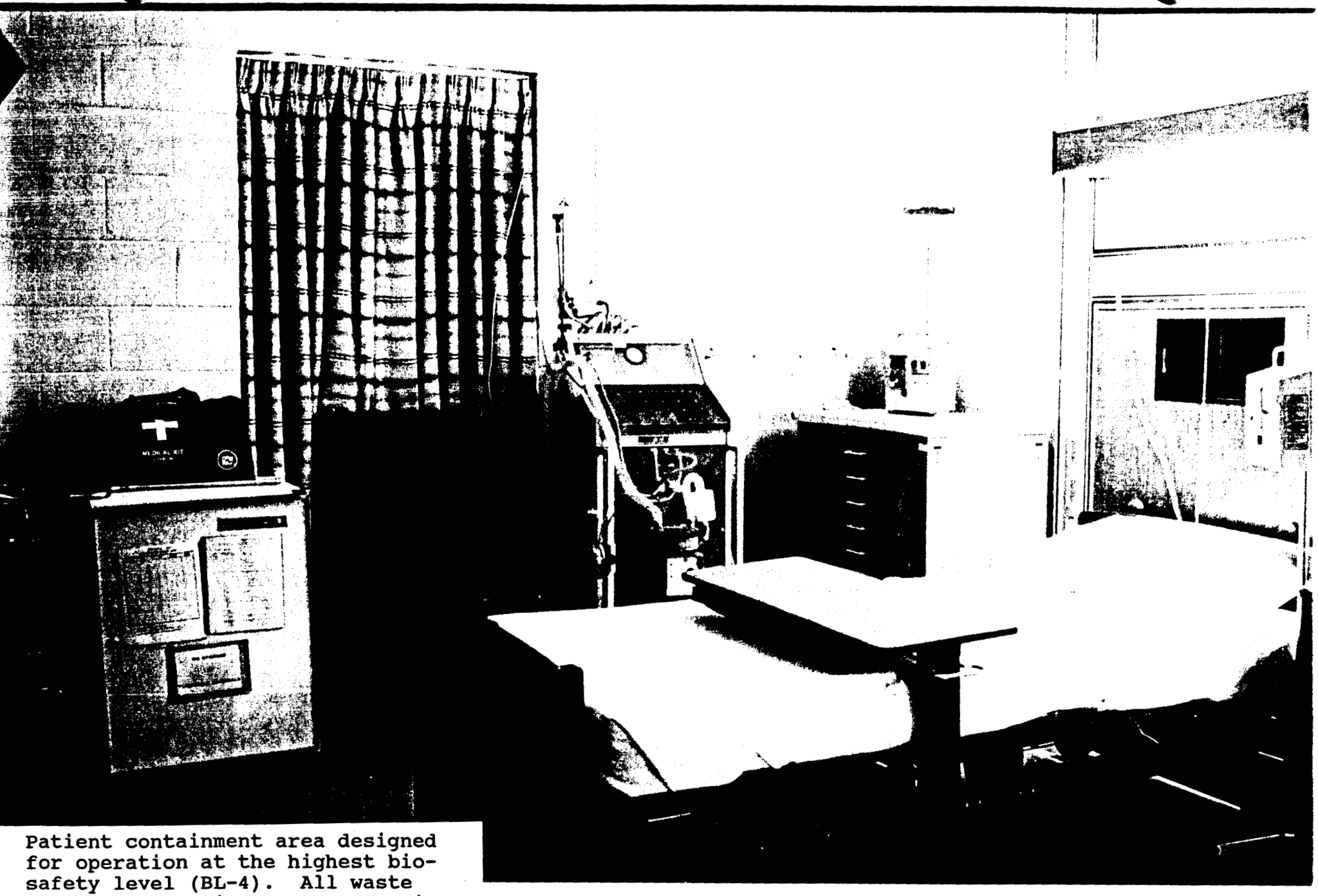


A fermenter - used to grow large volumes of microorganisms for vaccine studies.

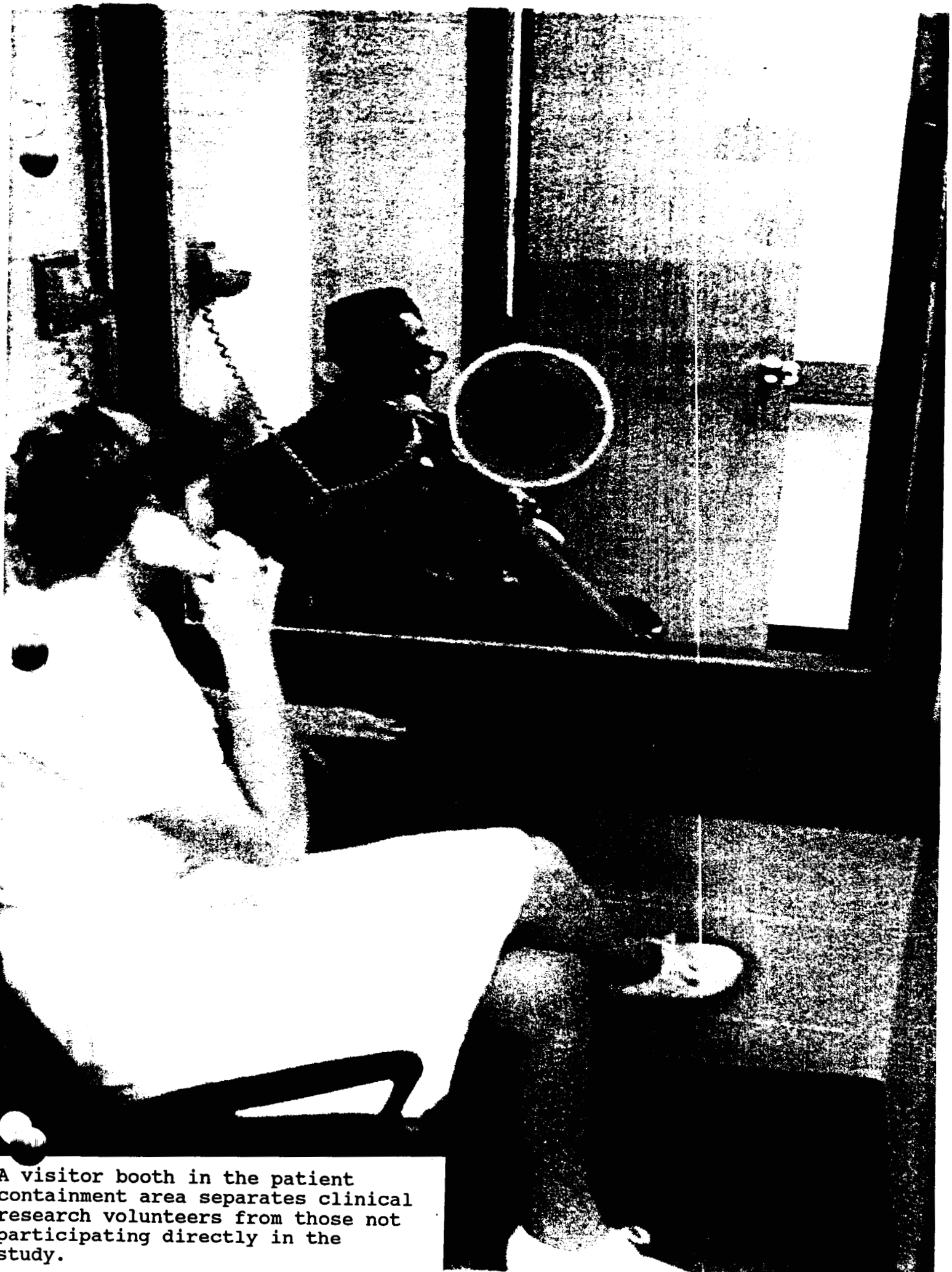


Animal holding room with caging for rodents.

Large walk-in refrigerated storage area used for storage of vaccines and other biologicals.



Patient containment area designed for operation at the highest biosafety level (BL-4). All waste streams from this area are sterilized & health care providers wear positive-pressure protective suits.

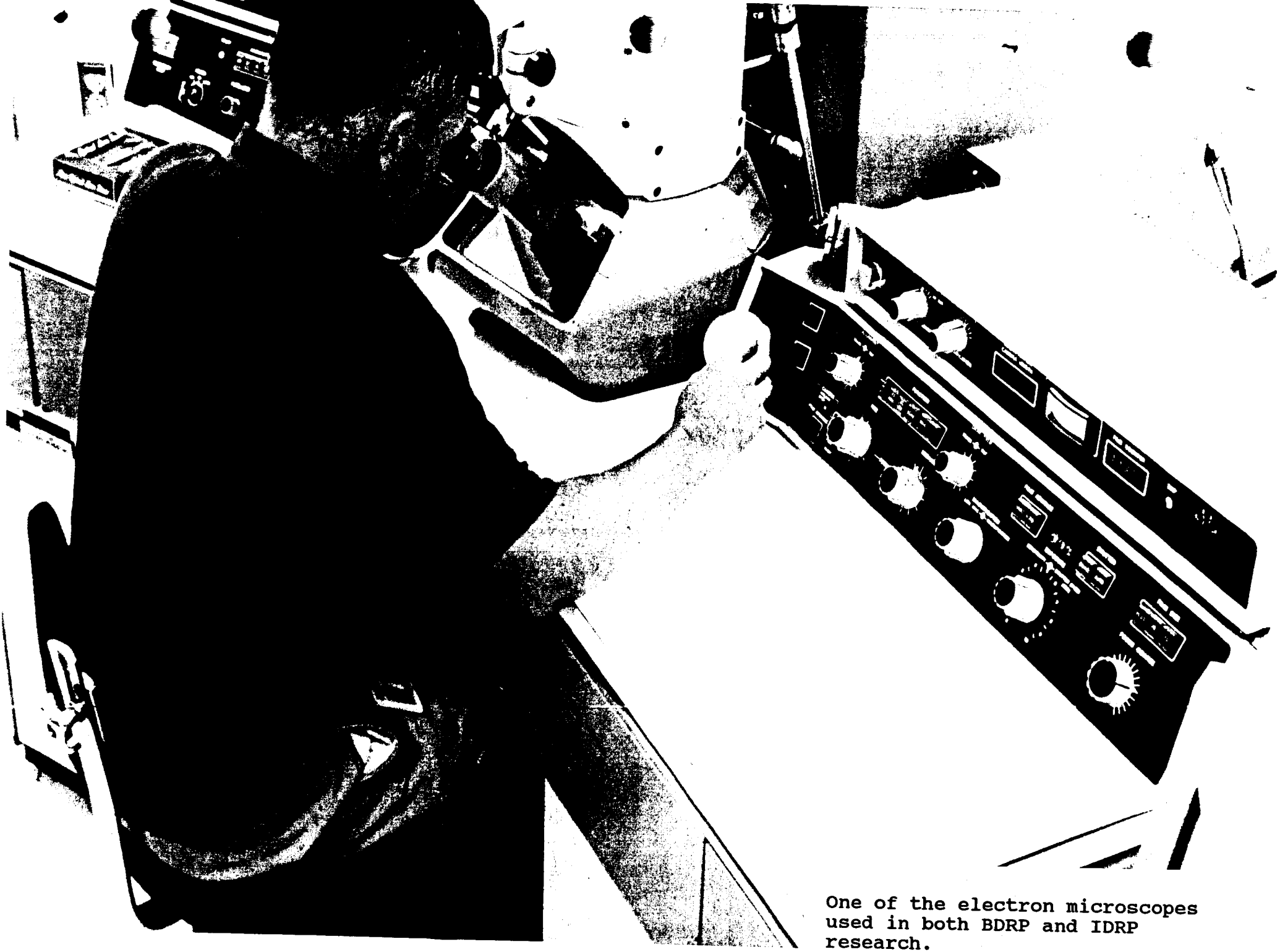


A visitor booth in the patient containment area separates clinical research volunteers from those not participating directly in the study.

Training exercise to transport a patient under maximum containment using transportable isolator. Isolator docks to the building wall to transit patient into the BL-4 patient containment area.

Researcher uses mass spectroscopy to analyze toxins important in medical biological defense.

Class II biological safety cabinet
used to protect personnel and
provide a sterile work area.



One of the electron microscopes used in both BDRP and IDRP research.

Clinical laboratory analyzer used to support both animal and human research studies.

U. S. ARMY LABORATORIES

BOOK NUMBER 2 OF 4

L. Missile Research, Development and Engineering Center, Redstone Arsenal, AL
M. Armament Research, Development and Engineering Center, Picatinny Arsenal, NJ
N. Armament Research, Development and Engineering Center, Benet Laboratory, Watervliet Arsenal
O. Tank-Automotive Command Research, Development and Engineering Center, Warren, MI
P. Research Institute of Infectious Diseases, Fort Detrick, MD

A