K-25 SITE DOCUMENT REVIEW CENTER

01035

Enclosure 1

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A Management Overview of the Facilities, Usages, and Hazards at the Oak Ridge K-25 Site

The Oak Ridge K-25 Site is a multi-program. applied technology facility. Originally built in 1945 to produce enriched uranium by the gaseous diffusion process, over the years other buildings were added to expand the gaseous diffusion process and also to develop and demonstrate the gas centrifuge uranium enrichment process. Experimental work was also performed on laser isotope separation methods.

In 1985, the gaseous diffusion cascade was placed in a "ready standby" mode because of declining demands for enriched uranium. That same year the gas centrifuge program was cancelled. In December 1987, the decision to permanently shut down the gaseous diffusion cascade was announced; actions necessary to fully implement that decision are still under way.

Today, the K-25 Site houses a variety of different activities, including waste management, technical laboratories, and Atomic Vapor Laser Isotope Separation (AVLIS) materials demonstration tests. The shutdown gaseous diffusion and gas centrifuge facilities are being maintained until their ultimate decontamination and decommissioning. Maintenance, power, utilities, stores, and plant protection facilities support the ongoing site activities. Many office and computer areas are used by program management, general staff, and site personnel.

With the following tables and maps, we have attempted to give a broad management picture of the main facilities at the K-25 Site, what they are used for, and the more significant hazards associated with them. This information is intended to help in orienting the reader to the site and its facilities rather than providing an exhaustive listing of all buildings and all hazards therein. The facilities are divided into the following groupings:

- Waste Management Facilities
- Technical Laboratories
- AVLIS Facility
- Power and Utilities Facilities
- Maintenance Facilities
- Stores Facilities
- Plant Protection Facilities
- Offices and Computing Areas
- Shutdown Facilities
- Fissile Storage Areas
- Cylinder Storage Pads

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Title/Subject A MANAGEMENT OVERVIEW OF THE FACILITIES, AND HAZARDS AT THE OAK RIDGE K-25 SITE

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K-25 Classification & Information Control Officer — Date 1/5/93

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Title: A Management Overview of the Facilities, Usages and Hazards at the Oak Ridge K-25 Site
Authors: Martin Marietta Oak Ridge K-25
Abstract: This is a table that presents K-25 building descriptions, current building usage, former building usage, building age, hazards within each building.
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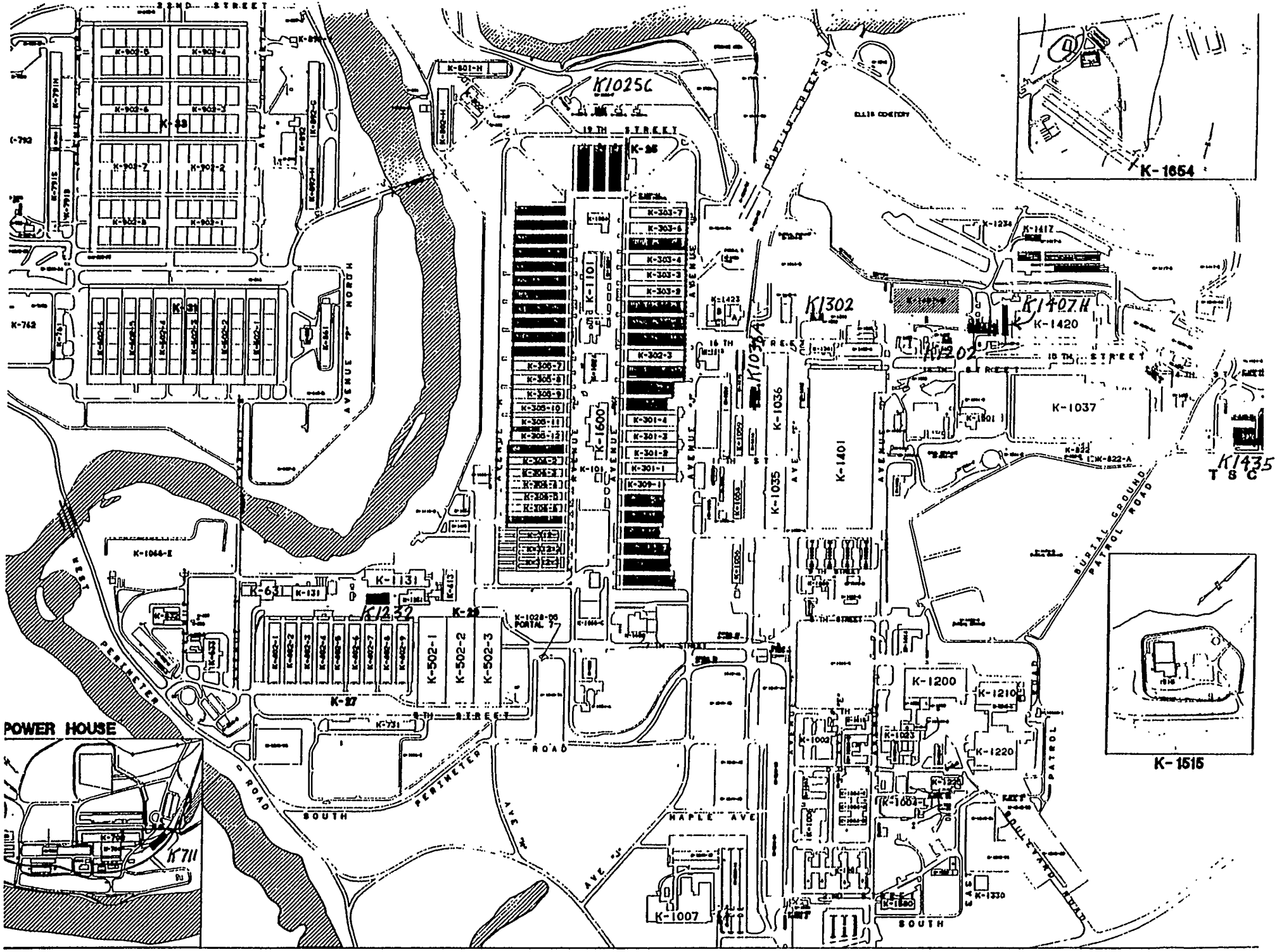
Waste Management Facilities

Building Number	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
"Vaults" in K-25 Bldg.	Hazardous Material Storage	Waste Management and Others	45	RCRA, LL Waste, PCB, Other Storage	0	Diffusion Process Support	PCB, RCRA, Low Level Contamination
K-711	Hazardous Material Storage	Waste Management	45	PCB Storage	0	Storage	PCB, Historical Low Level Fixed Contamination
K-726	Hazardous Material Storage	Waste Management	45	PCB Storage	0	Same	PCB, Historical Low Level Fixed Contamination
K-770	Scrap Metal Yard	Waste Management	45	Contaminated Scrap Metal Storage	0	Same	Low Level Contamination, Contaminated Material and Equipment
K-1025-C	Waste Storage Warehouse	Waste Management	45	Waste Storage	0	Same	Chemicals, Historical Low Level Contamination
K-1036-A	Drum Storage Pad	Waste Management	45	Waste Storage	0	Same	RCRA, Low Level Fixed & Transferable Radioactive Contamination
K-1202	Lube Oil Storage Tanks	Waste Management	45	Waste Storage	0	Lube Oil Storage	Chemical, Standard Industrial
K-1232	Wastewater Treatment Facility	Waste Management	40	Waste Water Treatment	0	Chemical Recovery	Chemical, Historical Low Level Fixed Radioactive Contamination
K-1302	Waste Storage Facility	Waste Management	46	RCRA Waste Storage	0	Fluorine Storage	RCRA Waste, Historical Low Level Fixed Radioactive Contamination
K-1407-H	Central Neutralization Facility	Waste Management	7	Process Water Neutralization	2*	Same	Chemical, Standard Industrial
K-1417	Concrete Block Casting Facility	Waste Management	7	Drum Storage	0	Same	Chemical, Standard Industrial, Low Level Contamination
K-1419	Sludge Fixation Facility	Waste Management	7	Shut Down	0	Same	Chemical, Historical Low Level Contamination
K-1435	TSCA Incinerator	Waste Management	6	Mixed Waste Incinerator	20	Same	PCB's, Chemicals, RCRA, High Temperature, Low Level Fixed & Transferable Radioactive Contamination

*Shift Operations



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15 TH STREET
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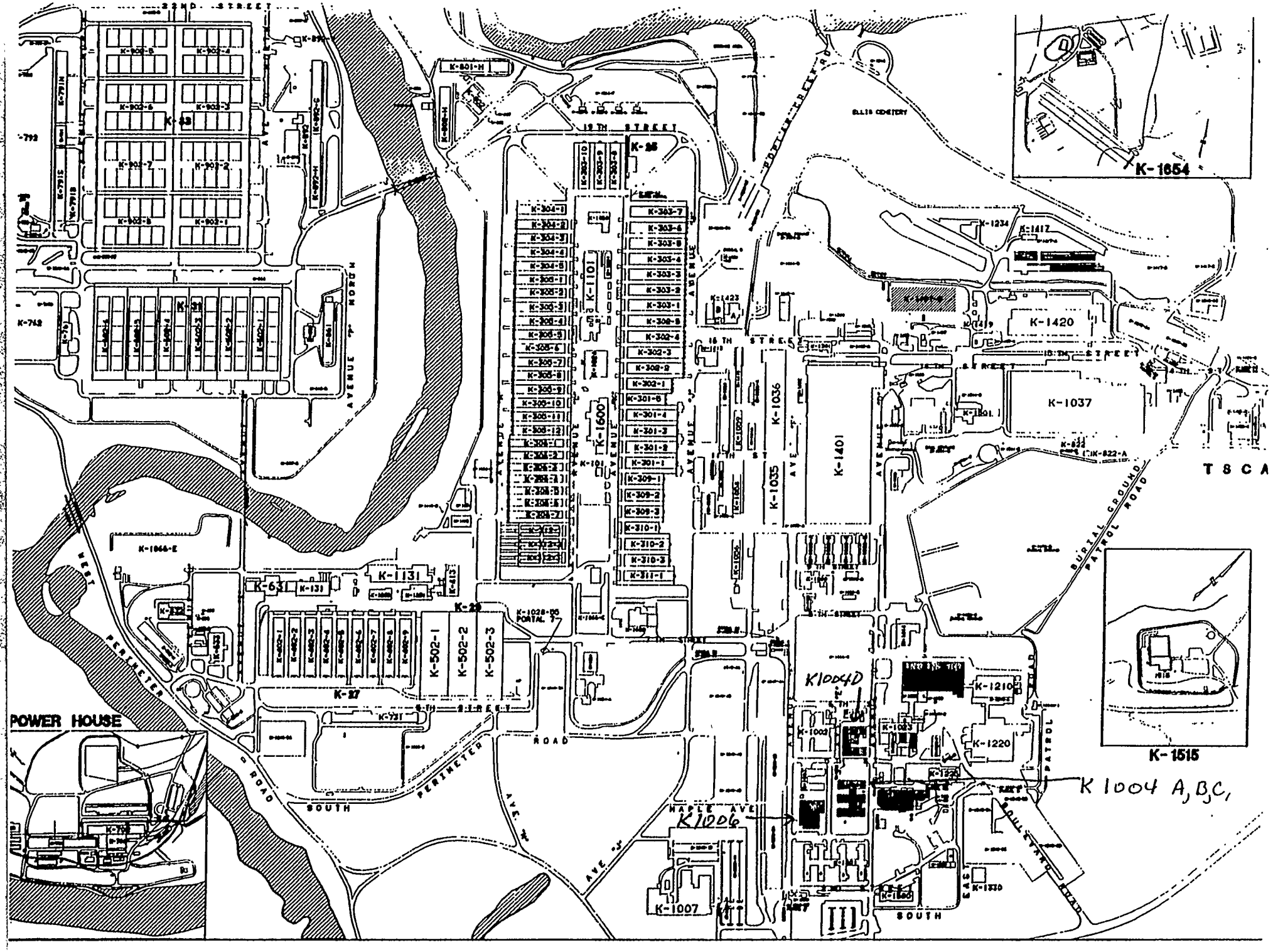
SOUTH PERIMETER ROAD
WEST PERIMETER ROAD
BURIAL GROUND PATROL ROAD
ELLIS CEMETERY

Technical Laboratories

Building Number	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
K-1004-A	Laboratory	Technical	42	Analytical Laboratory	45*	Lab	Chemical and Historical Low Level Contamination
K-1004-B	Laboratory	Technical	46	Analytical Laboratory	52*	Lab	Chemical and Historical Low Level Contamination
K-1004-C	Laboratory	Technical	46	Analytical Laboratory	55*	Lab	Chemical and Historical Low Level Contamination
K-1004-D	Laboratory	Technical	46	Support Lab and Photography	60	Lab	Chemical and Historical Low Level Contamination, Asbestos In Attic
K-1004-L	Optics Laboratory Development Laboratory	Technical	36	Experimental Laboratory	55	GDP Pilot Plant, Membrane Development & Test	Laser, Chemical, Historical Low Level Contamination
K-1004-F	Office / Laser Labs	Applied Technology	2	Offices and Laser Laboratory	35	Change House	Laser, Standard Industrial
K-1004-R	Laboratory	Applied Technology	32	Superconductor Motor Testing Laboratory	2	Centrifuge Test	Industrial Gases, Standard Industrial, Historical Low Level Fixed Rad.
K-1004-S	Laboratory	Applied Technology	32	Development Laboratory	2	Same	Historical Low Level Fixed & Transferable Contamination
K-1004-T	Laboratory	Applied Technology	32	Development Laboratory	4	Centrifuge Test	Standard Industrial
-1006	Development Laboratory	Technical	29	Development Laboratories & Offices	35	Lab	Chemical, Historical Low Level Contamination
-1200	Centrifuge Preparation Laboratory	Applied Technology	19	Demonstration / Testing Area	10	Same	Industrial Chemicals and Historical Low Level Contamination

Shift Operations



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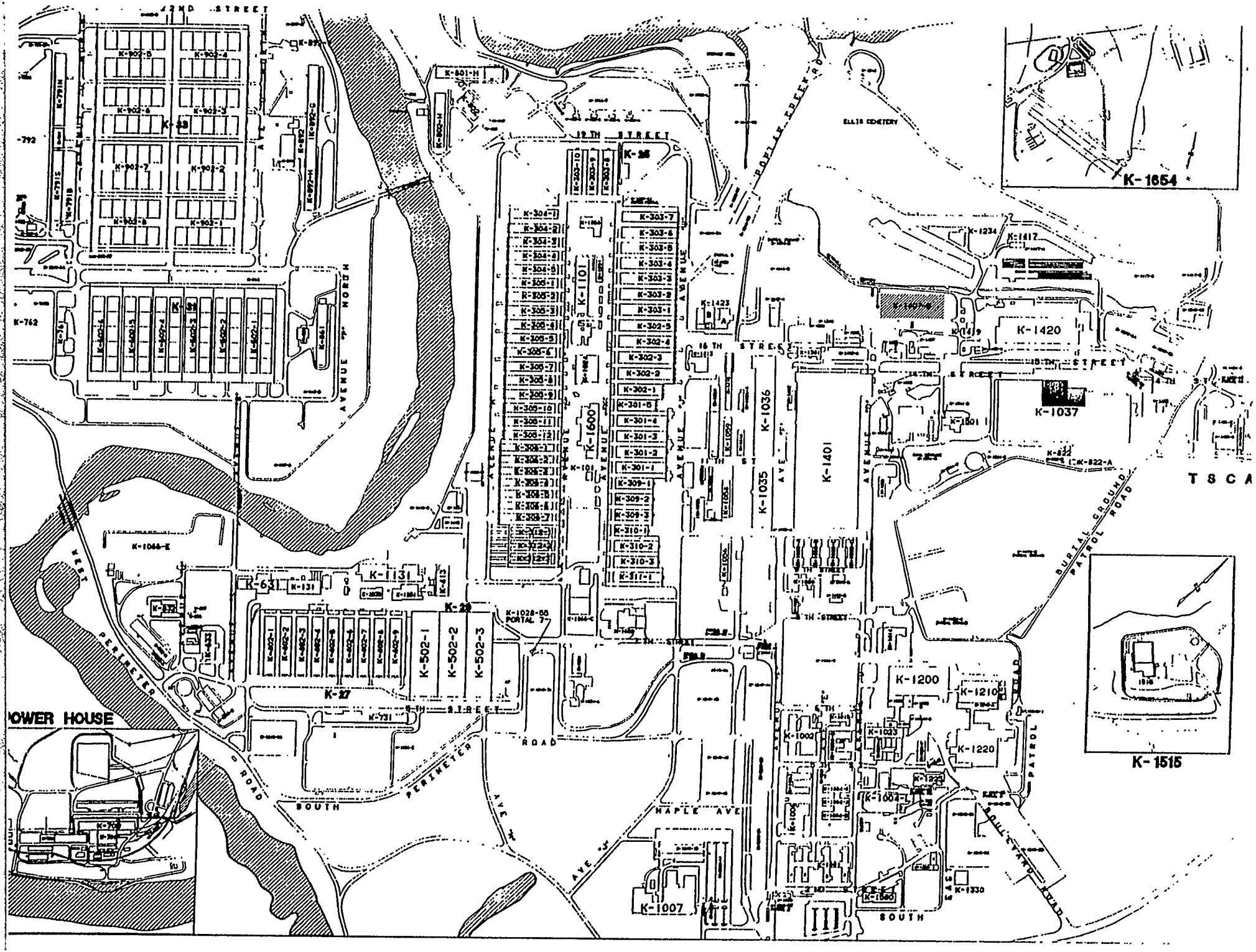
AVENUE "J" NORTH
BURIAL GROUND PATROL ROAD
MAPLE AVE
SOUTH

Atomic Vapor Laser Isotope Separation (AVLIS)

uilding umber	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
-1037	AVLIS Development Facility	AVLIS	45	Research and Development - Materials Application	10	Barrier Mfg. Facility	Standard Industrial, Contamination



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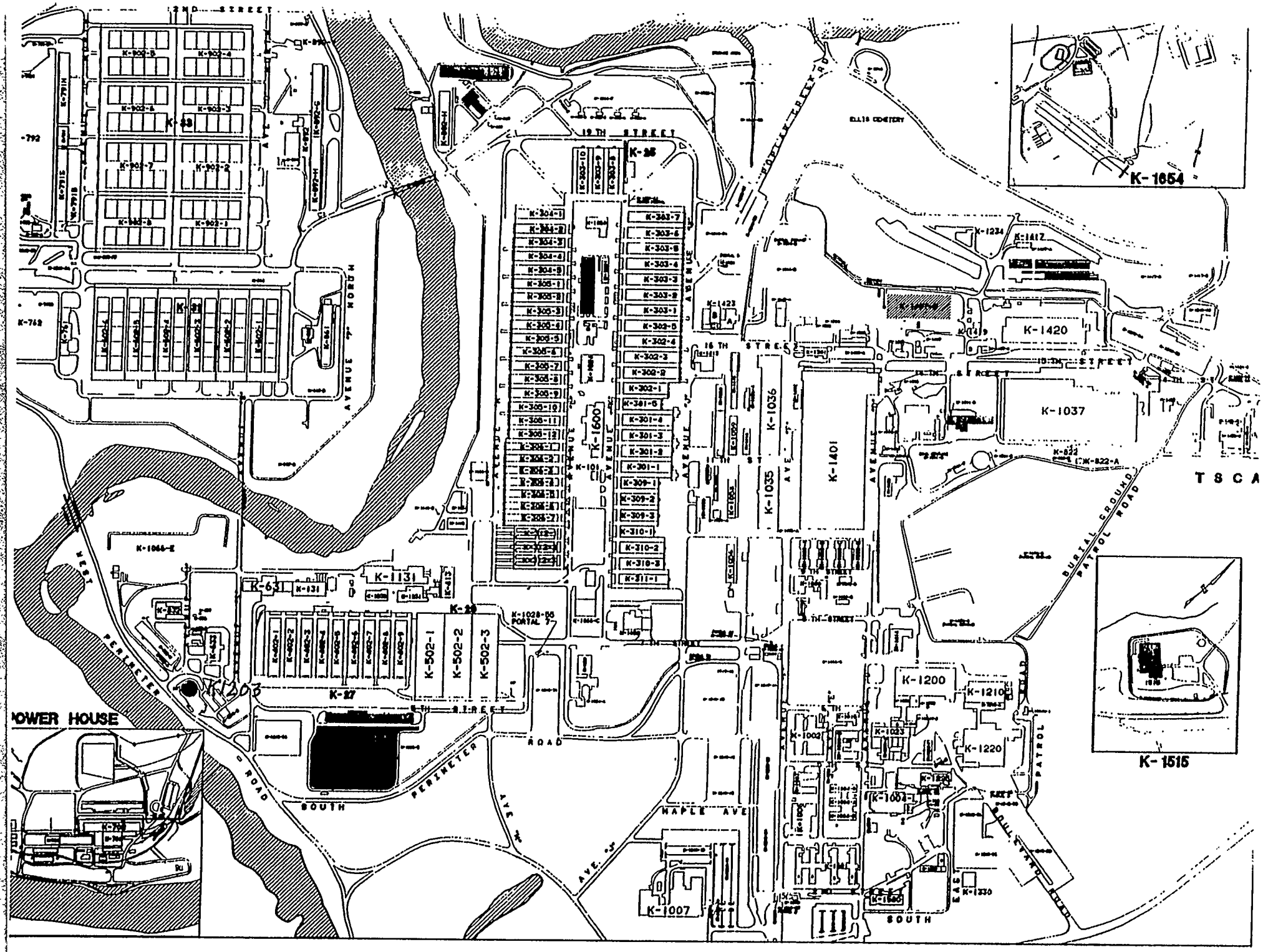
POWER HOUSE
T S C A

Power and Utilities

Building Number	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
K-710	Sewage Treatment Facility	Power & Utilities	46	Sewage Treatment	0	Same	Waste Sludge
K-731	K27 & K29 Switch House	Power & Utilities	44	Electrical Distribution	1	Same	High Voltage
K-732	K27 & K29 Switch Yard	Power & Utilities	44	Substation	0	Same	High Voltage, PCB
K-741	Elza Switch House (Y12)	Power & Utilities	46	Electrical Distribution	1	Same	High Voltage
K-751	X-10 Switch House	Power & Utilities	38	Electrical Distribution	1	Same	High Voltage
K-801-H	Cooling Tower	Power & Utilities	46	Water Cooling	0	Same	Structural, Chemical
K-802	Recirculating Cooling Water Pump House	Power & Utilities	46	Recirculating Cooling Water Pump House	2	Same	Chemical
K-1101	Air & Nitrogen Plant	Power & Utilities	45	Plant air and Nitrogen Supply	6*	Same	Noise, Electrical
K-1203	Waste Water Treatment	Power & Utilities	45	Sewage Treatment	0	Same	Rad Waste Sludge, Chlorine,
K-1501	Steam Plant	Power & Utilities	45	Plant Steam Supply	23*	Same	Asbestos, Chemical, Noise, Construction, Steam, Water Spots
K-1515	Water Plant	Power & Utilities	46	Sanitary Water Production	4*	Same	Chlorine

*Shift Operations



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POWER HOUSE
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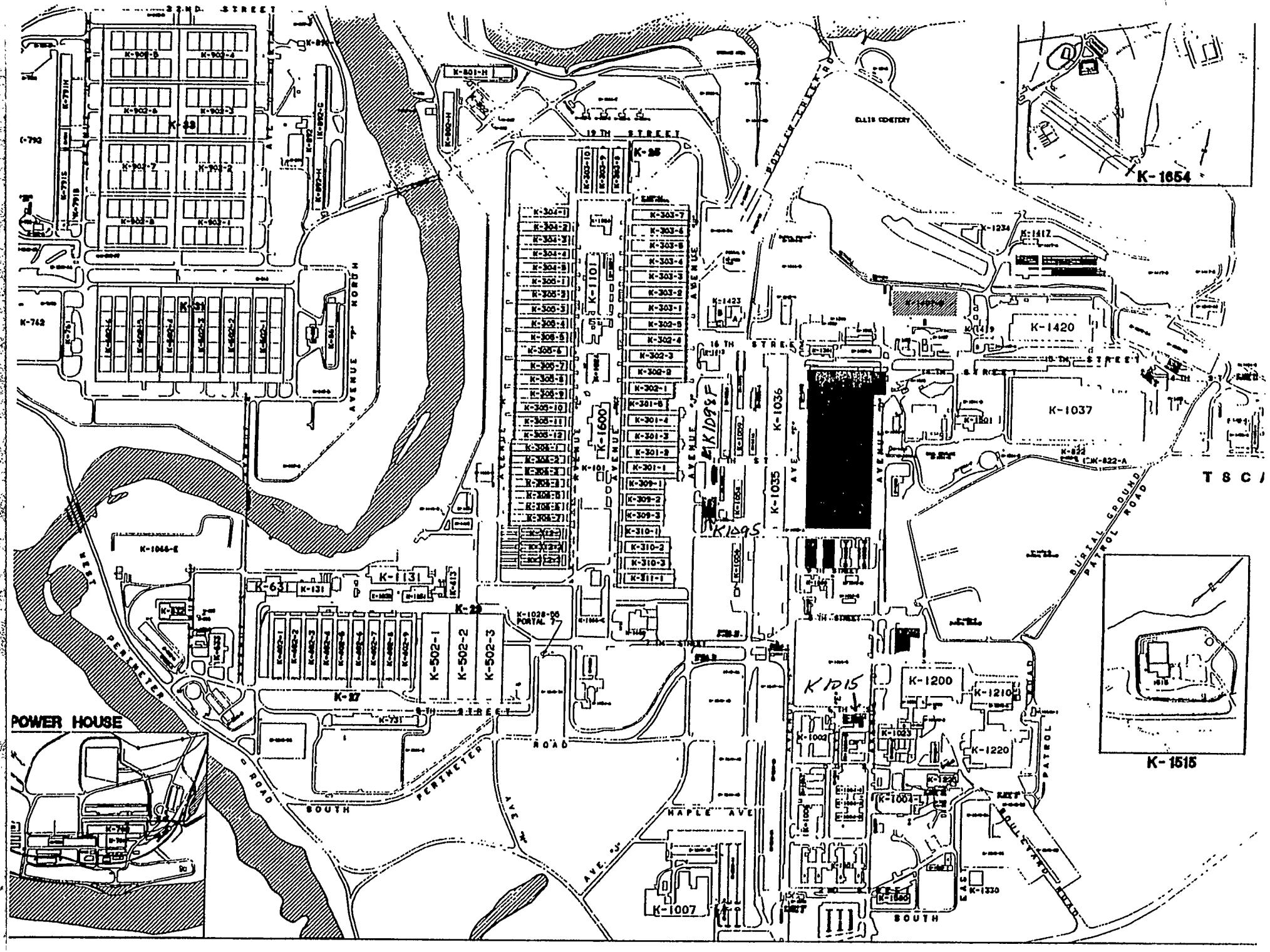
Maintenance

Building Number	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
K-1008-A	Change House	Maintenance	43	Change House	75	Same	Standard Industrial
K-1008-B	Change House	Maintenance	43	Change House	65	Same	Standard Industrial
K-1015	Laundry	Maintenance	47	Laundry	25	Same	Noise, Contaminated Clothes, Low Level Fixed & Transferable Contamination
K-1095	Paint Shop	Maintenance	10	Paint Shop	10	Same	Vapors
K-1098-E	Heat Treatment Facility	Maintenance	33	Heat Treatment	2	Same	Standard Industrial, Historical Low Level Fixed Contamination
K-1098-F	Sand Blast Facility	Maintenance	14	Sandblasting	2	Same	Standard Industrial
K-1401	Maintenance Building	Maintenance	45	Maintenance Shops, Offices, Labs	400	Same	Historical Contamination
K-1414	Garage and Gas Station	Maintenance	42	Garage and Gas Station	15	Same	Standard Industrial
K-1430	Maintenance Shop	Maintenance	15	Maintenance Shop	0	Shop & Offices	Standard Industrial



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BURIAL GROUND PATROL ROAD
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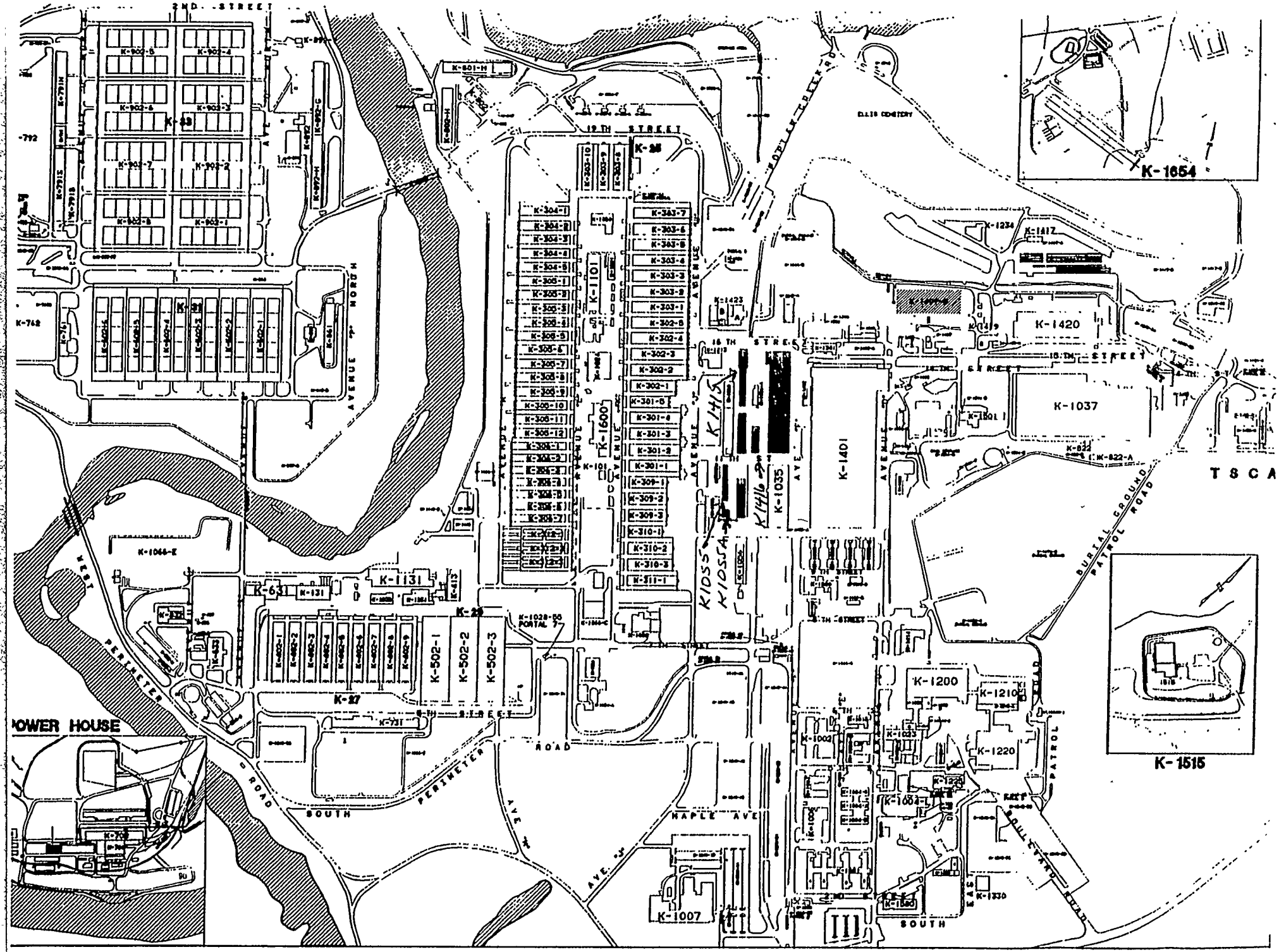
Stores Warehouses

Building Number	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
K-722	Storage Warehouse	Materials	30	Property Sales	10	Warehouse	Standard Industrial
K-1036	Shipping and Receiving	Materials	44	Shipping, Receiving, and Mail Room	60	Stores	Standard Industrial
K-1055	Storage Shed	Materials	10	Compressed Gas Cylinder Storage	0	Same	Compressed Gas
K-1055-A	Storage Shed	Materials	10	Chlorine Cylinder Storage	0	Same	Chlorine
K-1058	Building Material Warehouse	Materials	47	Building Materials Storage	0	Same	Standard Industrial
K-1059	Materials Warehouse	Materials	47	Materials Storage	2	Same	Standard Industrial, High Level Fixed, Low Level Transferable Radioactive Contamination
-1415	Storage Shed	Materials	37	Wood Building Material	0	Same	Standard Industrial
-1416	Chemical Storage	Materials	39	Acid Storage	0	Warehouse	Acid



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SOUTH PERIMETER ROAD
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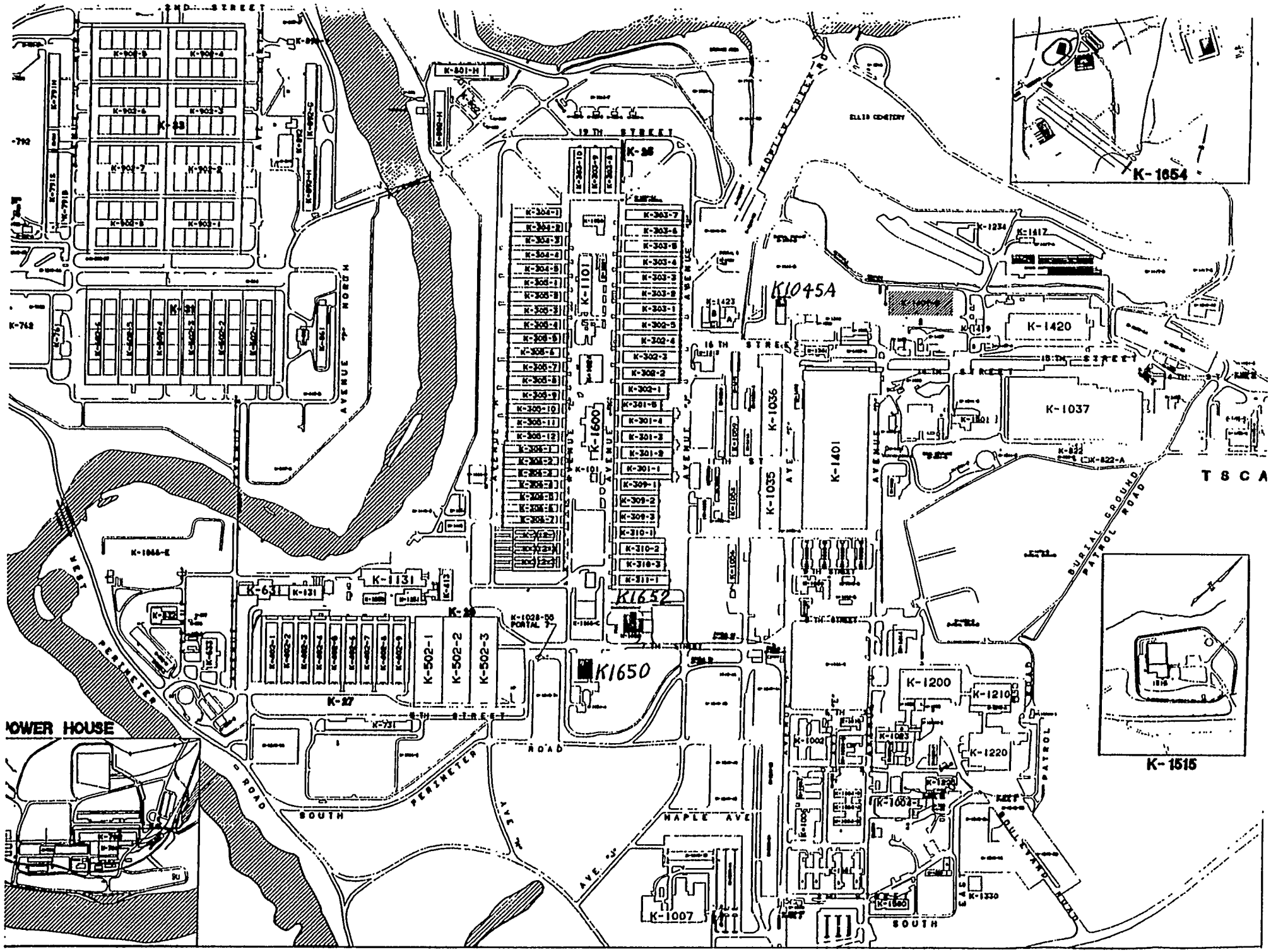
BURIAL GROUND PATROL ROAD
SOUTH EAST PATROL ROAD
POWER HOUSE
TSCA

Plant Protection Facilities

Building Number	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
K-1045-A	Fire Training Facility	Plant Protection & Shift Operations	17	Fire Training	0	Same	Standard Industrial
K-1650	Central Control Facility	Plant Protection & Shift Operations	11	Command Center	30*	Same	Standard Industrial
K-1652	Plant Protection Headquarters	Plant Protection & Shift Operations	8	Offices and Fire Hall	120*	Same	Standard Industrial
K-1654	Firearms Training Facility	Y12 Central Safeguards	15	Firearms Training	50	Same	Firearms Safety

Shift Operations



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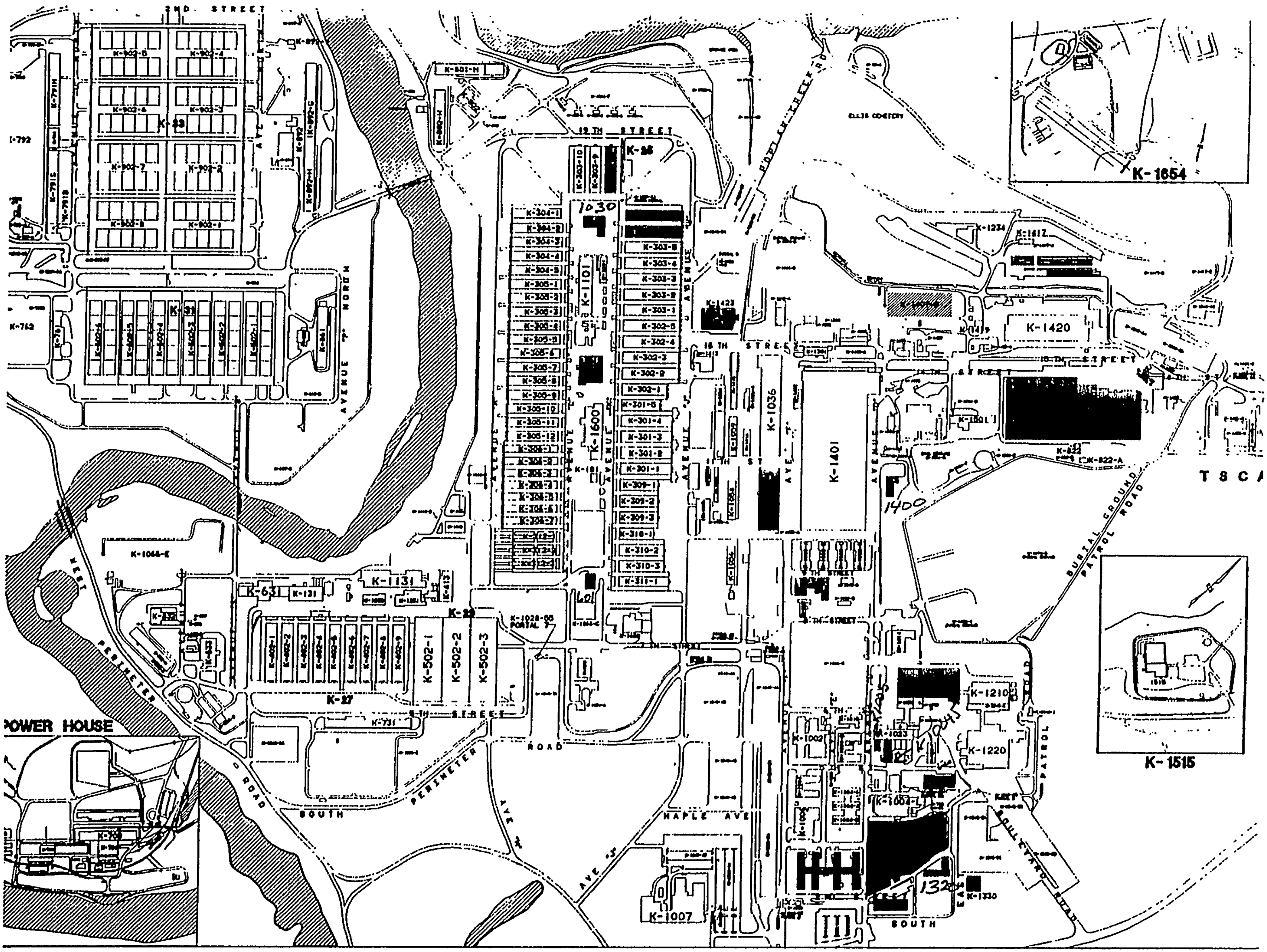
HAPLE AVE
BURIAL GROUND PATROL ROAD
POWER HOUSE
TSCA

Offices and Computing

Building Number	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
K-303-6	Offices	Engineering	45	Offices	24	Cascade	Standard Industrial**
K-303-7	Offices	Engineering	45	Offices	48	Cascade	Standard Industrial**
K-303-8	Offices	Health Safety & Environmental Management	45	Offices	48	Cascade	Standard Industrial**
K-601	Offices	Power & Utilities	45	Offices / Training	26	Blend Area	Historical Low Level Contamination
K-1001A-D	Offices	Human Resources	45	Offices	250	Same	Standard Industrial
K-1005	Offices	Applied Technology	20	Offices	23	Same	Standard Industrial
K-1007	Computing/Offices	Computing & Telecommunications	32	Offices / Computing Center	411*	Same	Standard Industrial
K-1008F	Offices	Applied Technology	20	Offices	39	Change House	Standard Industrial
K-1020	Offices	Health Safety & Environmental Management	45	Offices	24	Fire Hall	Standard Industrial
K-1024	Offices	Decontamination & Decommissioning	45	Offices	61	Instrument Shop	Asbestos In Attic
K-1030	Offices	International Technology Programs	45	Offices / SCIF	49	Mechanical Shop	Standard Industrial
K-1035	Offices	Maintenance	45	Offices and Shops	113	Warehouse	Standard Industrial
K-1037	Offices	AVLIS	45	Offices / Computing	120	Barrier Plant	Standard Industrial
K-1200 North Bay	Offices	Applied Technology	20	Offices	23	Centrifuge Development	Standard Industrial
K-1225	Offices	Applied Technology	20	Offices	80	Same	Standard Industrial**
K-1320	Offices	Engineering	8	Offices	44	Same	Standard Industrial
K-1320-A	Offices	Engineering	6	Offices	38	Same	Standard Industrial
K-1330	Offices	Environmental Restoration	1	Offices	50	Same	Standard Industrial
K-1400	Offices	Auditing	30	Offices	60	Same	Standard Industrial
K-1423	Offices	Waste Management	23	Offices	25	Toll Enrichment	Standard Industrial**
K-1550 Thru W	Trailers	Engineering	22	Offices	159	Same	Standard Industrial
K-1580	Offices	Engineering	14	Offices	160	Same	Standard Industrial

* Lift Operations ** Non-Office Areas are contaminated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BOULEVARD ROAD
WEST PERIMETER ROAD
SOUTH PERIMETER ROAD
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NORTH AVENUE
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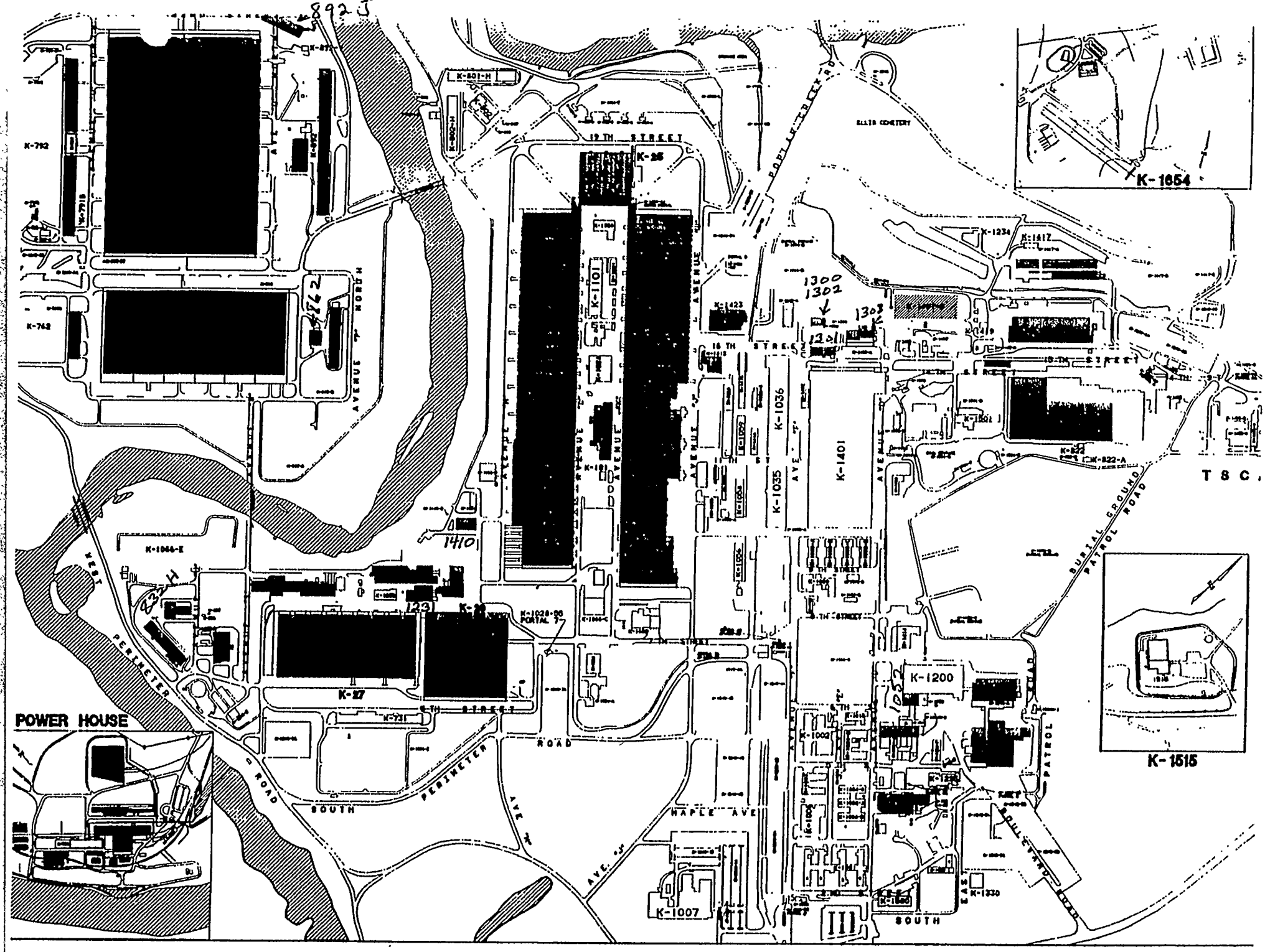
601

Shutdown Facilities

Building Number	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
K-25	Former Process Building	Decontamination & Decommissioning	45	Shutdown (Except Storage Vaults and Office Areas)	10	Cascade	Standard Industrial, Historical Contamination, Tc99, Fissile Storage, Asbestos in Cold Traps
K-27	Former Process Building	Decontamination & Decommissioning	43	Shutdown (Except Storage Vaults)	3	Cascade	Standard Industrial, Historical Contamination, Tc99, Fissile Storage
K-29	Former Process Building	Decontamination & Decommissioning	41	Shutdown (Except Storage Areas)	3	Cascade	Standard Industrial, Historical Contamination, Tc99, Fissile Storage
K-31	Former Process Building	Decontamination & Decommissioning	39	Shutdown (Except Storage Areas)	3	Cascade	Standard Industrial, Historical Low Level Contamination, Fissile Storage
K-33	Former Process Building	Decontamination & Decommissioning	38	Shutdown (Except Storage Areas)	20	Cascade	Standard Industrial, Historical Low Level Contamination, Fissile Storage
-131	Former Process Support Building	Decontamination & Decommissioning	43	Shutdown	0	Process Support	Standard Industrial, Historical Low Level Contamination
-413	Former Product Withdrawal Facility	Decontamination & Decommissioning	43	Shutdown	0	Product Withdrawal	Standard Industrial, Historical Low Level Contamination
-631	Former Process Support Building	Decontamination & Decommissioning	43	Shutdown	2	Process Support	Standard Industrial, Historical Low Level Contamination
-633	Former Test Loop	Decontamination & Decommissioning	35	Shutdown	0	Test Loop	Standard Industrial, Historical Low Level Contamination
-701 Thru -770 Except perating uildings	Former Power House Area Buildings	Decontamination & Decommissioning	45	Shutdown	10	Power Generation And Support	Standard Industrial, Historical Low Level Fixed Contamination
-761	Former K-31 Switch House	Power & Utilities	41	Offices	10	Switch House	Standard Industrial, Electrical
-791	Former K33 Switch House	Power & Utilities	39	Storage and Offices	20	Switch House	Standard Industrial, Electrical
-800 ries	Former Cooling Towers	Decontamination & Decommissioning / Power & Utilities	15-45	Shutdown	0	Cooling Tower	Standard Industrial, Chromium
1004-L	Former Gaseous Diffusion Pilot Plant	Decontamination & Decommissioning	40	Shutdown (50 Percent)	0	Pilot Plant	Standard Industrial, Fixed and Transferable Contamination

Shutdown Facilities Continued

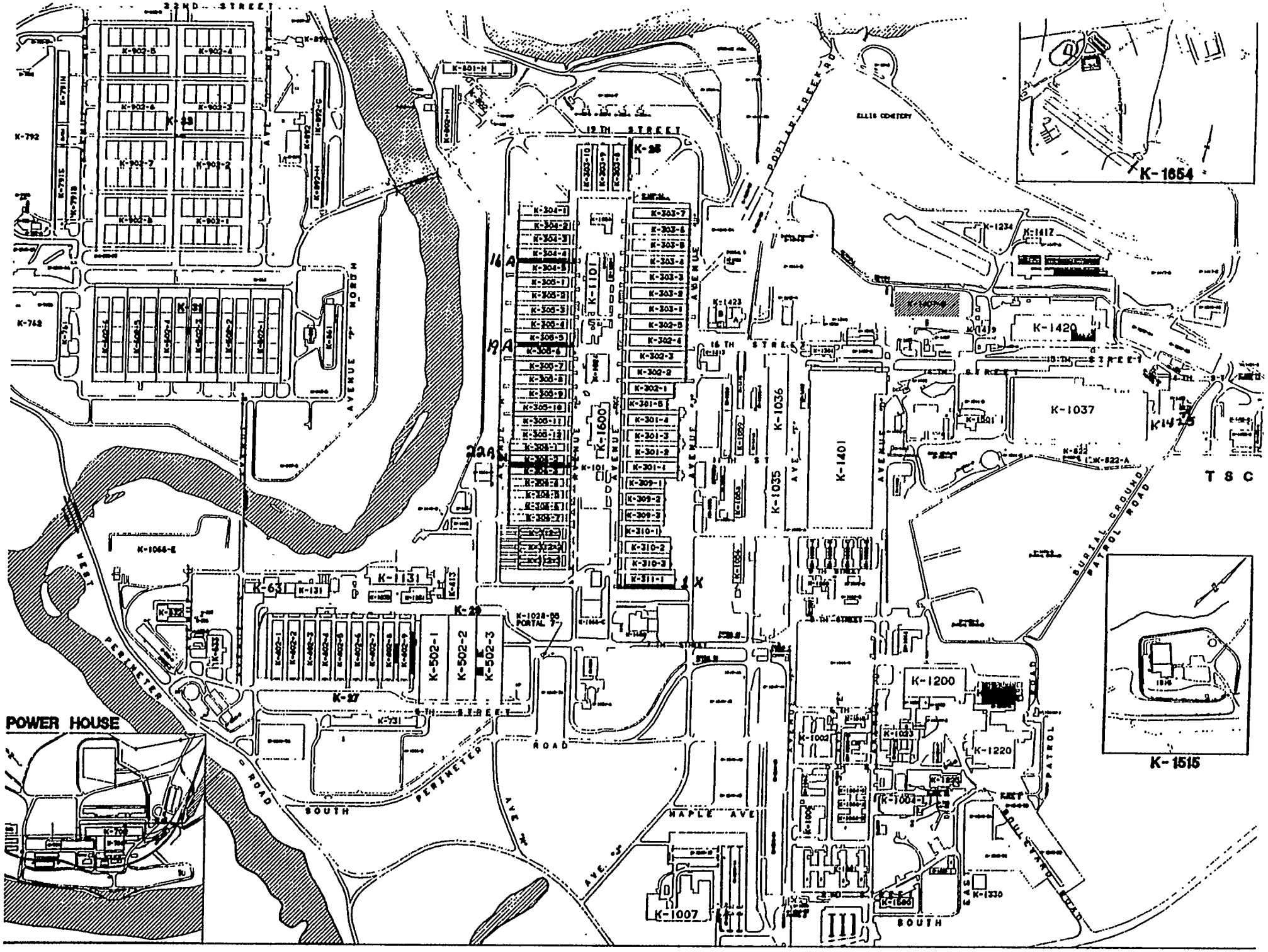
Building Number	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
K-1023	Former Gas Centrifuge Facility	Applied Technology	20	Shutdown	0	Centrifuge	Standard Industrial, Historical Low Level Fixed Contamination
K-1037	Former Barrier Plant	Decontamination & Decommissioning	45	Shutdown (50 percent)	0	Barrier	Standard Industrial, Classified Hazardous Materials
K-1052	Former Gas Centrifuge Facility	Applied Technology	16	Shutdown	0	Centrifuge	Standard Industrial, Historical Low Level Contamination
K-1131	Former Feed & Tails	Decontamination & Decommissioning	45	Shutdown	0	Feed & Tails	Standard Industrial, Historical Contamination
K-1210	Former Gas Centrifuge Facility	Applied Technology	20	Shutdown	0	Centrifuge	Standard Industrial, Historical Contamination
K-1220	Former Gas Centrifuge Facility	Applied Technology	13	Shutdown	0	Centrifuge	Standard Industrial, Historical Contamination
K-1231	Former Process Building	Decontamination & Decommissioning	45	Shutdown	0	Process	Standard Industrial, Historical Contamination
K-1233	Former Collection Facility	Decontamination & Decommissioning	23	Shutdown	0	Collection	Standard Industrial, Historical Low Level Contamination
K-1300 thru K-1303	Former Process Buildings	Decontamination & Decommissioning / Waste Management	45	Shutdown	0	Process	Standard Industrial, Historical Contamination
K-1410	Former Decon / Plating	Waste Management	45	Shutdown	0	Decon	Standard Industrial, Historical Contamination
K-1413	Former Development Facility	Technical	45	Shutdown	0	Dev. Fac.	Standard Industrial, Historical Low Level Contamination
K-1420	Decontamination and Uranium Recovery	Waste	37	Shutdown	50	Plating Decon & Uranium Recovery	Chemical, Fissile, Contamination
K-1423	Former Toll Enrichment Facility	Waste Management	35	Shutdown (50 Percent)	0	Toll Enrichment	Standard Industrial, Historical Low Level Fixed Reaiation
K-1600	Development Facility	Applied Technology	15	Shutdown	0	Same	Standard Industrial, Historical Low Level Contamination



K-1654
K-1515
POWER HOUSE
K-1101
K-1036
K-1035
K-1401
K-1200
K-1007
K-27
K-25
K-1234
K-1417
K-1423
K-1028-00 PORTAL 7
K-1066-E
K-792
K-762
K-801-H
K-731
K-822
K-822-A
K-1002
K-1330
19 TH STREET
16 TH STREET
11 TH STREET
8 TH STREET
7 TH STREET
6 TH STREET
5 TH STREET
AVENUE "F" NORTH
AVENUE "J"
AVENUE "K"
AVE. "J"
WEST PERIMETER ROAD
SOUTH PERIMETER ROAD
HAPLE AVE
BURIAL GROUND PATROL ROAD
PATROL ROAD
BOULEVARD ROAD
EAST
SOUTH
ELLIS CEMETERY
T S C
892 J
1300
1302
1303
1301
1410
1052
123

Fissile Storage Areas

Building Number	Description	Number of Storage Areas	Usage	Number of Occupants	Former Usage	Hazards Within
K-25, 1X Vault	Fissile Storage Area	1	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination
K-25, 16A Vault	Fissile Storage Area	1	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination
K-25, 19A Vault	Fissile Storage Area	1	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination
K-25, 22A Vault	Fissile Storage Area	1	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination
K-27	Fissile Storage Area	2	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination
K-29	Fissile Storage Area	2	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination
K-31	Fissile Storage Area	2	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination
K-33	Fissile Storage Area	1	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination
K-1210	Fissile Storage Area	1	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination
K-1420	Fissile Storage Area	2	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination
K-1425	Fissile Storage Area	1	Fissile Material Storage	0	Same	Fissile, Fixed and Possible Transferable Contamination



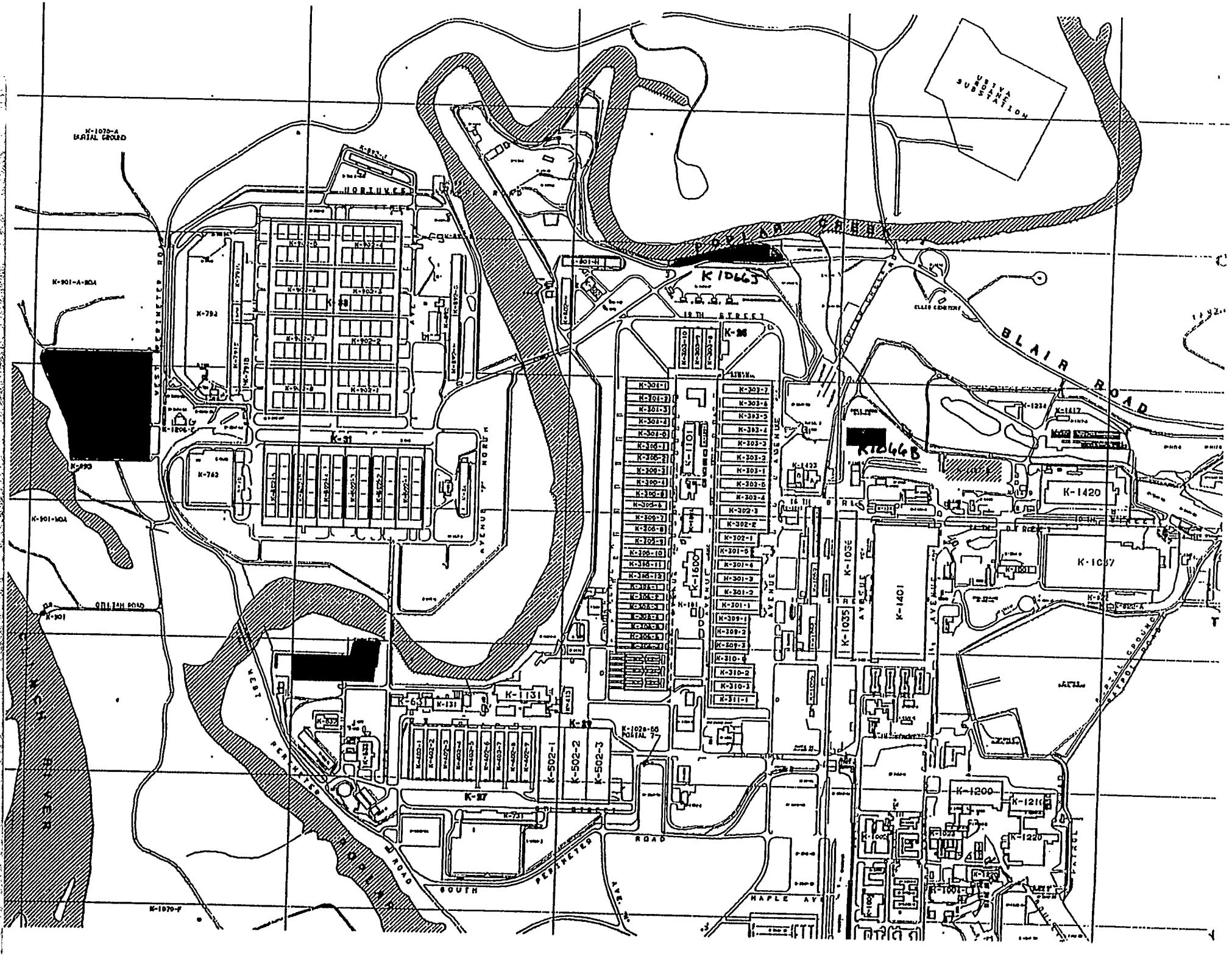
22ND STREET
19TH STREET
16TH STREET
ELLIS CEMETERY
K-1654
K-1420
K-1037
K-1401
K-1036
K-1035
K-1101
K-1600
K-1131
K-631
K-1200
K-1220
K-1007
K-1515
K-502-1
K-502-2
K-502-3
K-27
K-29
K-25
K-33
K-31
K-1066-E
K-1028-55 PORTAL 7
POWER HOUSE
T S C
NEST PERIMETER ROAD
SOUTH PERIMETER ROAD
HAPLE AVE
BURIAL GROUND PATROL ROAD
PATROL ROAD
AVENUE "F" NORTH
AVENUE "J"
AVENUE "K"
AVE. "J"
PORTAL CREEK RD
16A
19A
22A
1X
III

Cylinder Storage Pads

Building Number	Description	Division	Age	Building Usage	Number of Occupants	Former Usage	Hazards Within
K-1066-B	Cylinder Storage Pad	Decontamination & Decommissioning	25	UF6 Cylinder Storage (Heels)*	0	Same	Historical Low Level Fixed Radioactive Contamination, Radiation field from cylinders**
K-1066-E	Cylinder Storage Pad	Decontamination & Decommissioning	25	UF6 Cylinder Storage (Normal & Tails)*	0	Same	Historical Low Level Fixed Radioactive Contamination, Radiation field from cylinders
K-1066-J	Cylinder Storage Pad	Decontamination & Decommissioning	25	UF6 Cylinder Storage (Normal & Tails)*	0	Same	Historical Low Level Fixed Radioactive Contamination, Radiation field from cylinders
K-1066-K	Cylinder Storage Pad	Decontamination & Decommissioning	15	UF6 Cylinder Storage (Tails)*	0	Same	Historical Low Level Fixed Radioactive Contamination, Radiation field from cylinders

* Heels is UF6 feed residual of 50 pounds or less.
Normal is normal assay UF6.
Tails is depleted UF6.

** Less than 5 millirem



K-1070-A
BURIAL GROUND
K-901-A-80A
K-901-80A
K-901
K-1070-F
K-792
K-762
K-31
K-26
K-1101
K-1600
K-1131
K-631
K-27
K-502-1
K-502-2
K-502-3
K-1028-66
PORTAL 7
K-1035
K-1401
K-1420
K-1037
K-1200
K-1220
K-1234
K-1417
K-1423
K-1001
K-1066J
K-1066B
POPLAR CREEK
BLAIR ROAD
19TH STREET
16TH STREET
AVENUE "F" NORTH
WEST PERIMETER ROAD
SOUTH PERIMETER ROAD
HAPLE AVE
PORTAL GROUND
PATROL ROAD
USTVA ROANE SUBSTATION