

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. Department of the Army U.S. Army Communications - Electronics Command AMSEL-SF-RER</p> <p>2. Fort Monmouth, New Jersey 07703-5024</p>	<p>In accordance with the letter dated September 1, 1999,</p> <p>3. License number 29-01022-06 is amended in its entirety to read as follows:</p> <p>4. Expiration date February 28, 2005</p> <p>5. Docket No. 030-05248 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material with atomic numbers 1 through 83</p> <p>B. Any byproduct material with atomic numbers 84 through 95</p> <p>C. Hydrogen 3</p> <p>D. Cobalt 60</p> <p>E. Strontium 90</p> <p>F. Cesium 137</p> <p>G. Uranium (Natural or Depleted)</p> <p>H. Thorium (Natural)</p> <p>I. Polonium 210</p> <p>J. Plutonium 238</p> <p>K. Americium 241</p> <p>L. Californium 252</p> <p>M. Cesium 137</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Accelerator targets</p> <p>D. Sealed sources</p> <p>E. Sealed sources</p> <p>F. Sealed sources</p> <p>G. Any</p> <p>H. Any</p> <p>I. Any</p> <p>J. Sealed sources</p> <p>K. Any</p> <p>L. Sealed source</p> <p>M. Sealed sources (J.L. Shepherd Model 6810)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not to exceed 1 curie per radionuclide and 10 curies total</p> <p>B. Not to exceed 1 millicurie total</p> <p>C. 30 curies</p> <p>D. [] curies</p> <p>E. 5 curies</p> <p>F. [] curies</p> <p>G. 5 kilograms</p> <p>H. 10 kilograms</p> <p>I. 10 microcuries</p> <p>J. 10 microcuries</p> <p>K. 1 millicurie</p> <p>L. [] curie</p> <p>M. [] curies</p>
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Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 2
FOIA-Do-02-38

Q/25/11

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
29-01022-06

Docket or Reference Number
030-05248

Amendment No. 48

- | | | |
|---|---|--|
| 6. Byproduct, source, and/or special nuclear material | 7. Chemical and/or physical form | 8. Maximum amount that licensee may possess at any one time under this license |
| N. Cesium 137 | N. Sealed source (J.L. Shepherd Model 6810) | N. $1 \frac{1}{2}$ curies. Exd |
| O. Cesium 137 | O. Sealed source (J.L. Shepherd Model 6810) | O. 130 millicuries |

9. Authorized use:

- A. Research and development as defined in 10 CFR 30.4; for training and instrument calibrations; analysis of test samples as a service for persons as defined in 10 CFR 20.1003; calibration of instruments as a service for persons as defined in 10 CFR 20.1003 and the storage of contaminated materials.
- B. through L. Research and development as defined in 10 CFR 30.4; for training and instrument calibrations; analysis of test samples as a service for persons as defined in 10 CFR 20.1003; calibration of instruments as a service for persons as defined in 10 CFR 20.1003.
- M. For use in a J.L. Shepherd Model 81-140 calibrator; calibration of instruments as a service for persons as defined in 10 CFR 20.1003.
- N. and O. For use in a J.L. Shepherd Model 89-260 calibrator; calibration of instruments as a service for persons as defined in 10 CFR 20.1003.

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CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at the U.S. Army Communications - Electronics Command, Fort Monmouth, New Jersey.
11. A. Licensed material shall be used by, or under the supervision of, individuals designated in writing by the Radiation Safety Committee, Joseph M. Santarsiero, Chairman.
- B. The Radiation Safety Officer for this license is Joseph M. Santarsiero.
12. Licensed material shall not be used in or on human beings.
13. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
14. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.

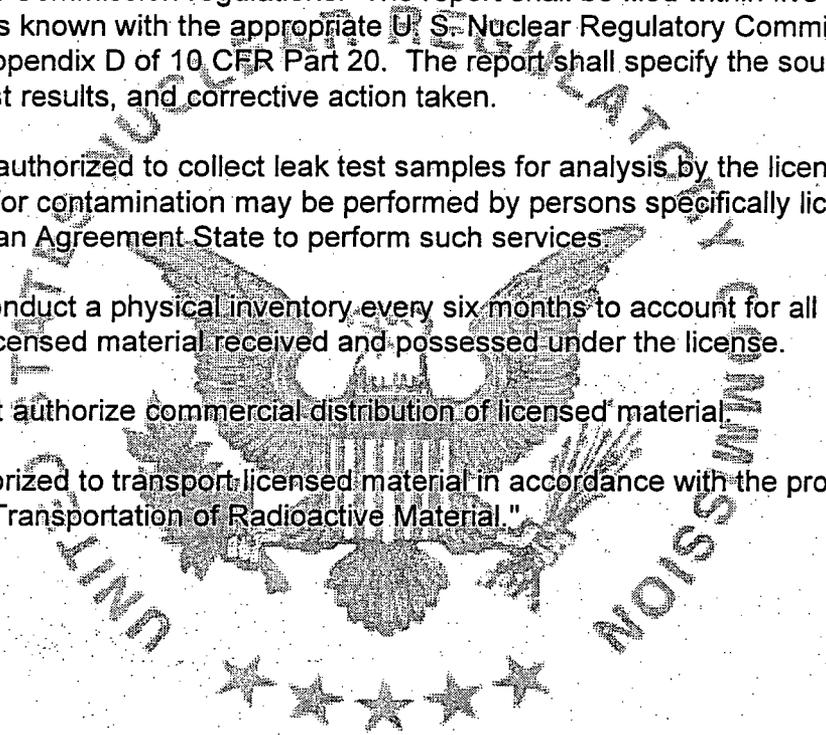
**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
29-01022-06Docket or Reference Number
030-05248

Amendment No. 48

15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3, or
 - (ii) they contain only a radioactive gas, or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
29-01022-06Docket or Reference Number
030-05248

Amendment No. 48

- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the appropriate U.S. Nuclear Regulatory Commission, Regional Office referenced in Appendix D of 10 CFR Part 20. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
17. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
18. This license does not authorize commercial distribution of licensed material.
19. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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- The seal of the U.S. Nuclear Regulatory Commission is centered on the page. It features an eagle with wings spread, perched atop a shield with vertical stripes. The shield is supported by two figures. Below the shield are five stars. The words "UNITED STATES OF AMERICA" are written in a semi-circle above the eagle, and "NUCLEAR REGULATORY COMMISSION" is written in a semi-circle below it.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
29-01022-06Docket or Reference Number
030-05248

Amendment No. 48

20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Letter dated February 15, 1995
- B. Letter dated March 15, 1995
- C. Letter dated May 19, 1995
- D. Letter dated August 15, 1995
- E. Letter dated March 10, 1997
- F. Letter dated April 11, 1997
- G. Letter dated May 12, 1997
- H. Letter dated July 30, 1997
- I. Letter dated August 27, 1997, with attachment
- J. Letter dated December 2, 1997
- K. Letter dated July 30, 1998
- L. Letter dated May 13, 1998, with attached survey report
- M. Letter dated November 18, 1998
- N. Facsimile dated February 26, 1999
- O. Letters dated September 10, 1999
- P. Letter dated September 23, 1999

For the U.S. Nuclear Regulatory Commission

Date September 23, 1999

By

Original signed by Steven W. Shaffer

Steven W. Shaffer
Decommissioning and Laboratory Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

September 23, 1999

Docket No. 030-05248
Control No. 127250

License No. 29-01022-06

Joseph M. Santarsiero
Acting Director, Safety Risk Management
Department of the Army
U.S. Army Communications Electronics Command
AMSEL-SF-RER
Ft. Monmouth, NJ 07703-5024

Dear Mr. Santarsiero:

This refers to your license amendment request dated September 1, 1999. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original signed by Steven W. Shaffer

Steve W. Shaffer
Health Physicist
Decommissioning and Laboratory Branch
Division of Nuclear Materials Safety

Enclosure:
Amendment No. 48

cc:
Joseph M. Santarsiero, Radiation Safety Officer

ML10

DOCUMENT NAME: B:\DNMS Documents\Lic Cover Letter\L29-01022-06.127250.wpd 1964711
To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	SShaffer <i>SS</i>						
DATE	09/23/99	09/ /99	09/ /99	09/ /99			

OFFICIAL RECORD COPY



DEPARTMENT OF THE ARMY
HEADQUARTERS, US ARMY COMMUNICATIONS-ELECTRONICS COMMAND
AND FORT MONMOUTH
FORT MONMOUTH, NEW JERSEY 07703-5000

MS 6
J-5

REPLY TO
ATTENTION OF

September 23, 1999

Directorate of Safety
Risk Management

U. S. Nuclear Regulatory Commission
Region 1
Attention: Mr. Steven Shaffer
475 Allendale Road
King of Prussia, Pennsylvania 19406-1415

Dear Mr. Shaffer:

This refers to U.S. Nuclear Regulatory Commission (NRC) License Number 29-01022-06, Docket Number 030-05248, Mail Control Number 127250, our letters of September 10, 1999(2), and to the September 22, 1999 telephone conversations between Messrs. Richard J. Lovell and Craig Goldberg, our staff, and your Mr. Steven Shaffer. This letter supersedes our letter dated September 22, 1999.

The following additional information is provided in support of our NRC license amendment requests to authorize the storage of Low Level Radioactive Waste (LLRW).

- a. All areas used as LLRW storage locations will be clearly delineated as such, and posted in accordance with Title 10, Code of Federal Regulations, Part 20 requirements.
- b. All LLRW accumulated will be dry, active waste, to include general construction debris.
- c. No flammable or corrosive materials will be stored with, or contained within, LLRW.
- d. LLRW will be packaged and stored in environmentally sound containment and/or shipping containers for ultimate disposal, i.e., trailers, sealed roll-off containers and/or drums, etc.

127250

-2-

At your request, at enclosures 1 and 2 are drawings depicting the proposed temporary LLRW storage area located on [the asphalt street between the intersection of 6th Street and Avenues B and C in the Evans Area.]

Your expeditious processing of this amendment request is appreciated.

If we can provide you with anything further in this matter, our point of contact is Mr. Richard J. Lovell, or the undersigned, on Voice (732) 427-4427/3112 or Facsimile (732) 532-6403 or (732) 542-7161.

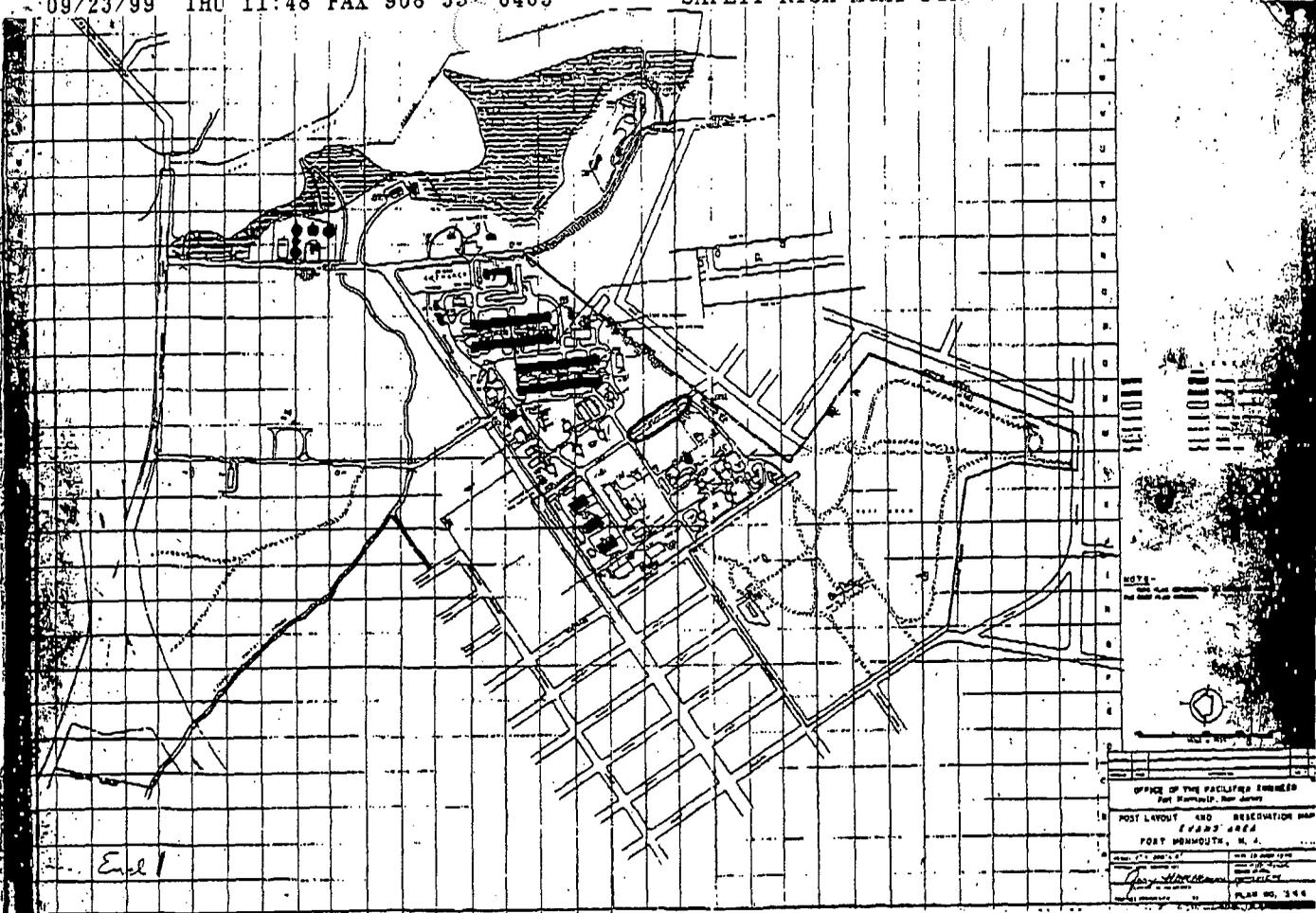
Sincerely,

Richard Santarsiero
JOSEPH M. SANTARSIERO
Acting Director, Safety
Risk Management

Enclosures

Copy Furnished:

Commander, U.S. Army Materiel Command, ATTN: AMCSF-P,
5001 Eisenhower Avenue, Alexandria, VA 22333-0001





DEPARTMENT OF THE ARMY

HEADQUARTERS, US ARMY COMMUNICATIONS-ELECTRONICS COMMAND

AND FORT MONMOUTH

FORT MONMOUTH, NEW JERSEY 07703-5000

REPLY TO
ATTENTION OF

M516
J-5

September 22, 1999

Directorate of Safety
Risk Management

U. S. Nuclear Regulatory Commission
Region 1
Attention: Mr. Steven Shaffer
475 Allendale Road
King of Prussia, Pennsylvania 19406-1415

Dear Mr. Shaffer:

This refers to U.S. Nuclear Regulatory Commission (NRC) License Number 29-01022-06, Docket Number 030-05248, Mail Control Number 127250, our letters of September 10, 1999(2), and to the September 22, 1999 telephone conversation between Mr. Richard J. Lovell of our staff and your Mr. Steven Shaffer.

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a. All areas used as LLRW storage locations will be clearly delineated as such, and posted in accordance with Title 10, Code of Federal Regulations, Part 20 requirements.

b. All LLRW accumulated will be dry, active waste, to include general construction debris.

c. No flammable or corrosive materials will be stored with, or contained within, LLRW.

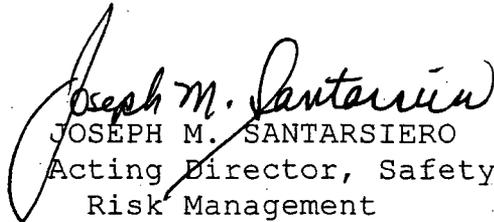
At your request, enclosures 1 and 2 are drawings depicting the proposed temporary LLRW storage area located on the asphalt street between the intersection of 6th Street and Avenues B and C in the Evans Area.

Your expeditious processing of this amendment request is appreciated.

127250
SEP 24 1999
SEP 22 1999

If we can provide you with anything further in this matter, our point of contact is Mr. Richard J. Lovell, or the undersigned, on Voice (732) 427-4427/3112 or Facsimile (732) 532-6403 or (732) 542-7161.

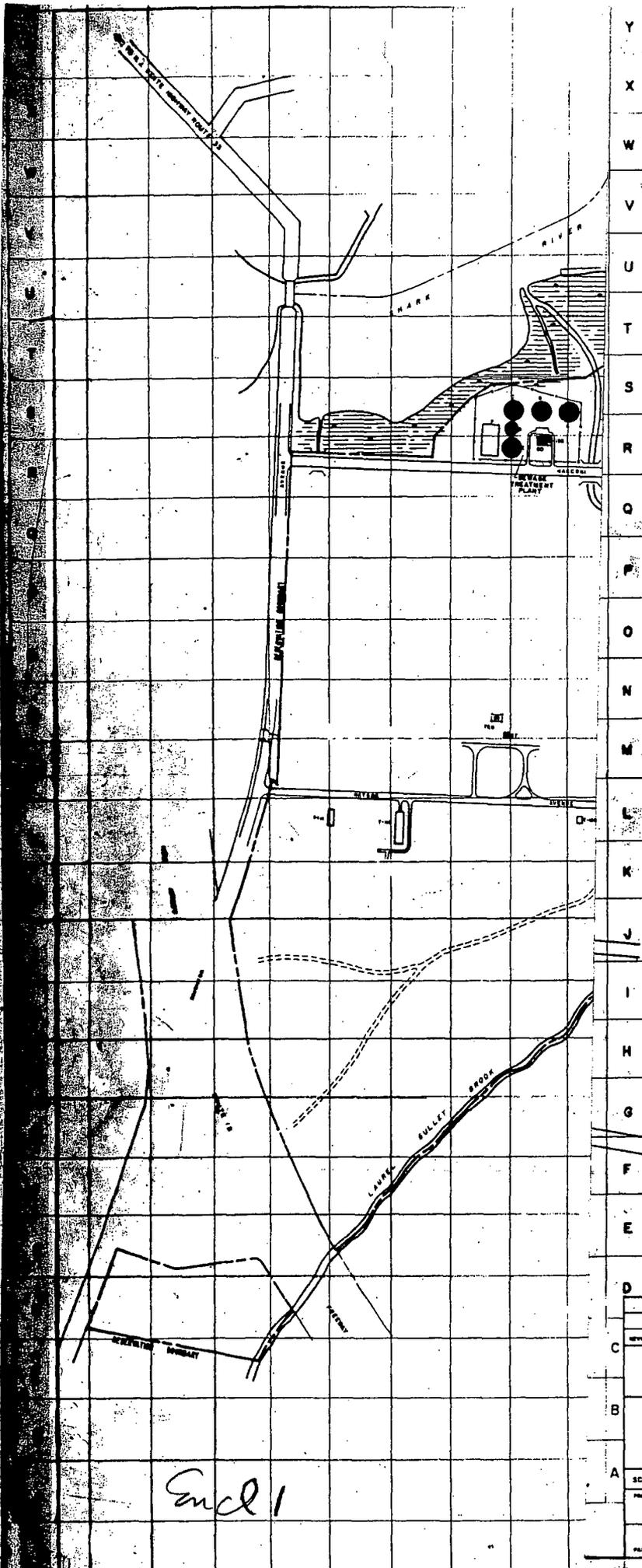
Sincerely,


JOSEPH M. SANTARSIERO
Acting Director, Safety
Risk Management

Enclosures

Copy Furnished:

Commander, U.S. Army Materiel Command, ATTN: AMCSF-P,
5001 Eisenhower Avenue, Alexandria, VA 22333-0001



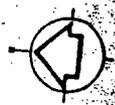
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LEGEND

- SOLID, PERMANENT
- SOLID, NON-PERMANENT
- SOLID, TEMPORARY
- ROAD AND PARKWAY
- TRAIL
- FENCE
- GROUND AREA

NOTE-

THIS PLAN SUPERSEDES ALL PREVIOUS EDITIONS OF THE SAME PLAN NUMBER.



SCALE IN FEET

REVISION	DATE	DESCRIPTION	BY

OFFICE OF THE FACILITIES ENGINEER
Fort Monmouth, New Jersey

POST LAYOUT AND RESERVATION MAP
EVANS AREA
FORT MONMOUTH, N. J.

SCALE: 1" = 200' - 0" DATE: 19 JUNE 1978

PREPARED UNDER DIRECTION OF: *George H. McManus*
George H. McManus
 GEORGE H. McMANUS

DESIGNED BY: *CPE*
 CHECKED BY: *CPE*

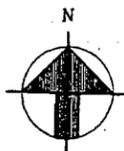
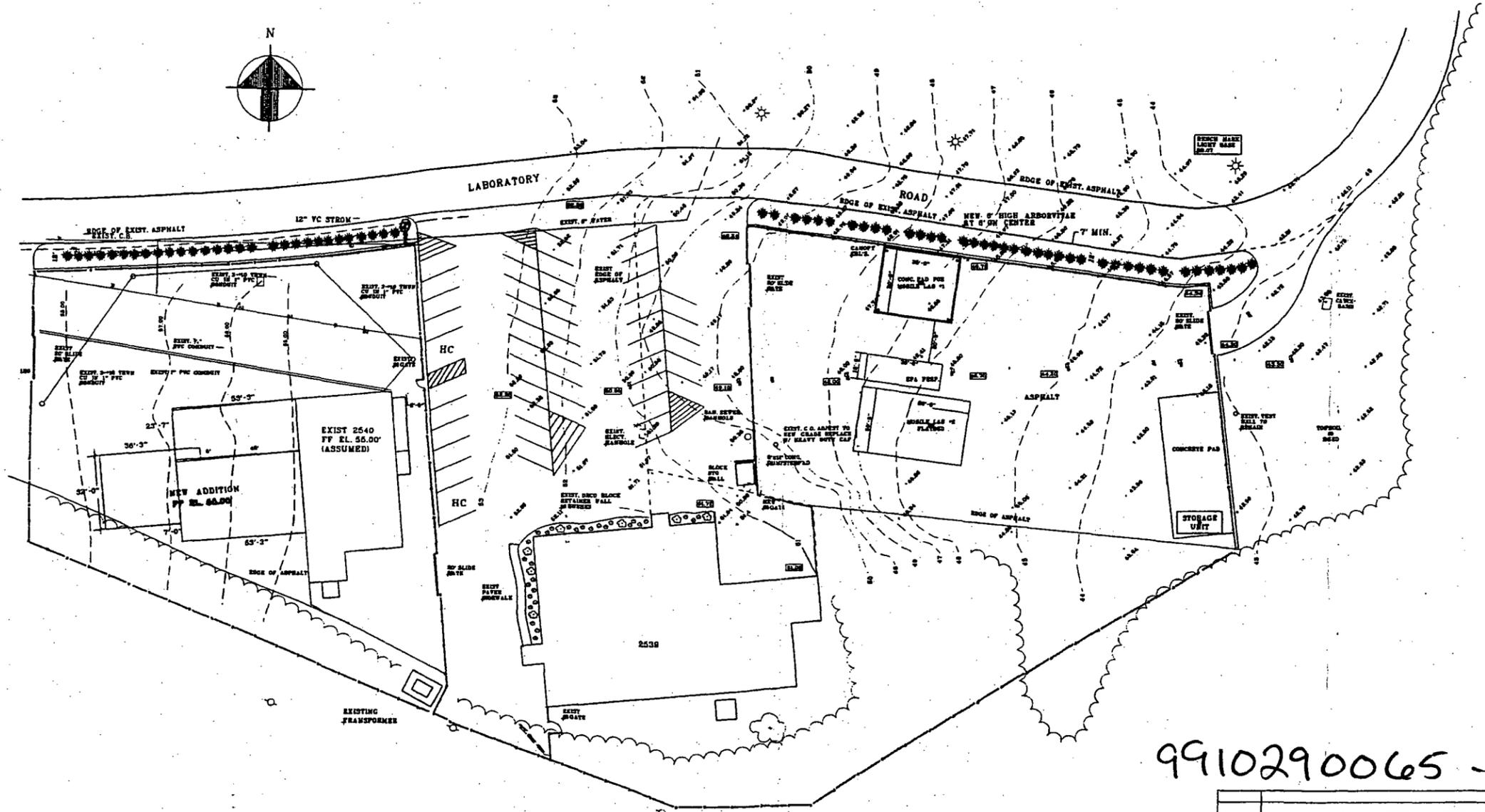
PLANNING ENGINEER: LTC CE PLAN NO. 546

Encl 1

546

**APERTURE
CARD**

Also Available on
Aperture Card

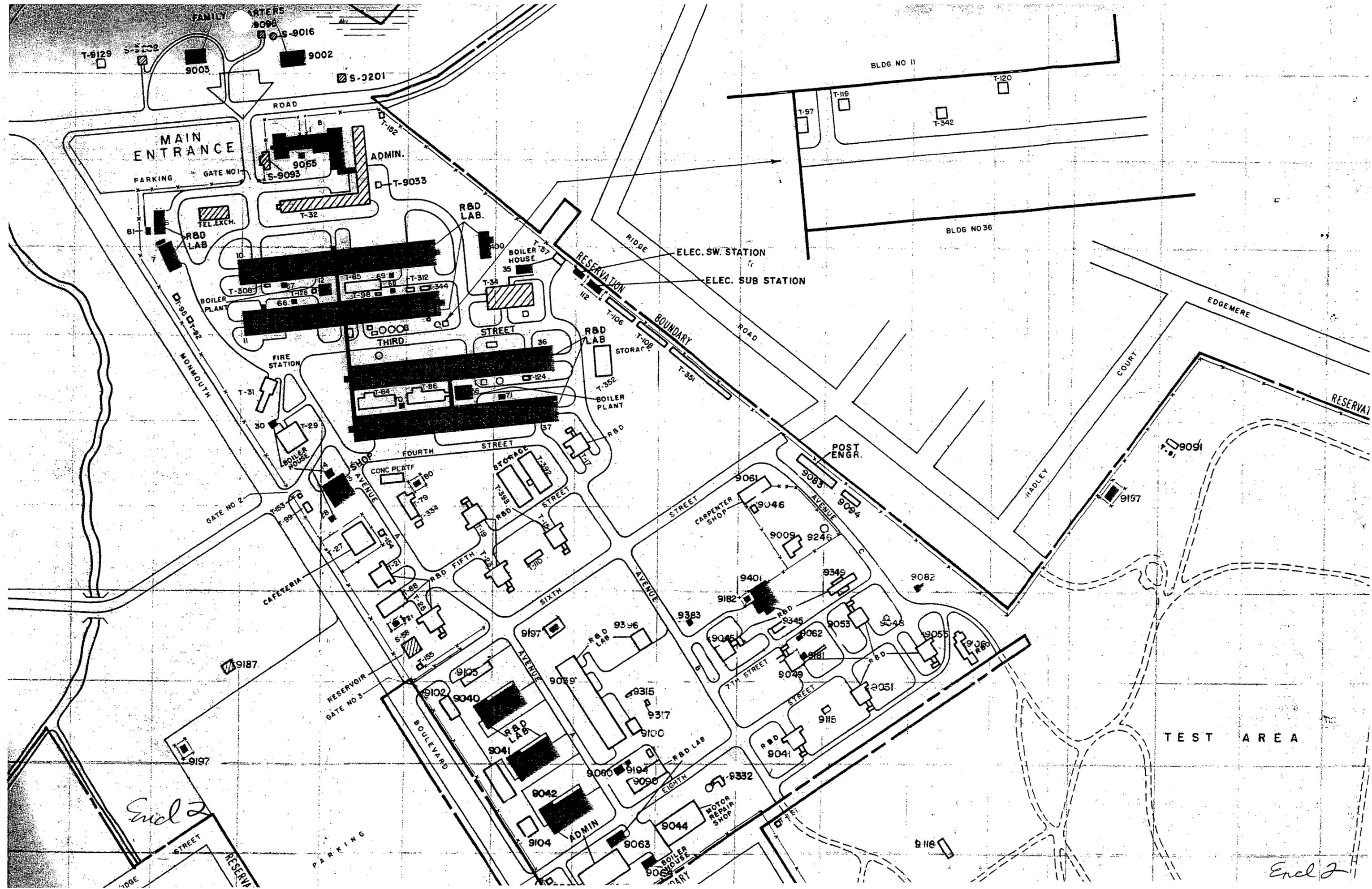


9910290065-01

- LEGEND:**
- EXIST. CHAIN LINK FENCE
 - SHRUBS
 - EDGE OF NEW ASPHALT
 - CATCH BASIN
 - LIGHT POLE

SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
DIRECTORATE OF PUBLIC WORKS Fort Monmouth, New Jersey "An Army Community Of Excellence"			
DWN. SP. DSGH S.P. DPW PR. MGR. S.BARDINO CHIEF ESO A. SMOLLER SAFETY PRVY. MED. J. CAPYTH S. POLZA PPLP BR. ENVIRON. J. BERSHOW A. SHAM CHIEF CMD ENCL. OFF M. MAIER C. EDWIG CUSTOMER M. WALL	CONSTRUCT ADDITION TO BUILDING 2540 FOR CBD COM		
SITE PLAN			
RECOMMENDED: CHIEF SUPERVISOR PLANS & SERVICES E. DOONEY	SCALE: 1" = 20' DATE:	DRAWING NUMBER: 10666-2	
APPROVED ACT. DIR. PUBLIC WORKS JIM OTT, PE	PR. NO.: 97-1000	SHEET 2 OF 10	

Encl



Encl 2

Encl 2



DEPARTMENT OF THE ARMY

HEADQUARTERS, US ARMY COMMUNICATIONS-ELECTRONICS COMMAND
AND FORT MONMOUTH
FORT MONMOUTH, NEW JERSEY 07703-5000

REPLY TO
ATTENTION OF

September 1, 1999

Directorate of Safety
Risk Management

U. S. Nuclear Regulatory Commission
Region 1
Attention: Mr. Steven W. Courtemanche
475 Allendale Road
King of Prussia, Pennsylvania 19406-1415

Dear Mr. Courtemanche:

This refers to U.S. Nuclear Regulatory Commission (NRC) License Number 29-01022-06, Docket Number 030-05248, our letters of February 11, 1999(2) and February 26, 1999, and to the August 23, 1999 telephone conversation between Messrs. Craig Miller and Steven Horne, IceSolv Incorporated, contracted to the Directorate of Safety Risk Management, and your Mr. Steven Shaffer.

We are requesting that you amend the above NRC license to allow for the temporary storage of potential Low Level Radioactive Waste (LLRW) accumulated as a result of remediation efforts in support of the Base Realignment and Closure (BRAC) activities of the Evans Area. The LLRW accumulated, i.e., construction debris, is to be stored outside of the Zone 4A fenced compound, in order to allow us the ability to complete final status surveys of Zone 4A.

We propose to place all LLRW into Zone 4, on a grass-covered field on the Northwest corner at the intersection of Avenue B and 6th Street. All LLRW will be packaged in their shipping containers for ultimate disposal.

1 2 7 2 5 0

SEP - 7 1999

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ML 10

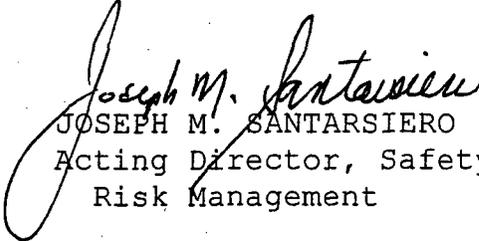
The area selected for use does not offer the security of a lockable fence, however, the Evans Area gates are currently locked during non-working hours and manned by Department of Defense (DoD)/military police officers during regular working hours. Access to Evans Area is controlled to allow entry to only those individuals on the approved access list.

This storage will be required until such time as arrangements can be made with the DoD Executive Agent for LLRW for the removal of the waste and shipment to either a licensed consolidation facility or directly to an authorized burial site.

Your expeditious processing of this amendment request is appreciated.

If we can provide you with anything further in this matter, our point of contact is Mr. Richard J. Lovell, or the undersigned, on Voice (732) 427-4427/3112 or Facsimile (732) 532-6403 or (732) 542-7161.

Sincerely,


JOSEPH M. SANTARSIERO
Acting Director, Safety
Risk Management

Copy Furnished:

Commander, U.S. Army Materiel Command, ATTN: AMCSF-P,
5001 Eisenhower Avenue, Alexandria 22333-0001

This is to acknowledge the receipt of your letter/application dated

9/1/99

, and to inform you that the initial processing which includes an administrative review has been performed.

AMEND. 29-01022-06
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 1 2 7 2 5 0
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (R)
(6-88)

Sincerely,
Licensing Assistance Team Leader