

DOCKET NO. 70-58

File G

THE MARTIN COMPANY

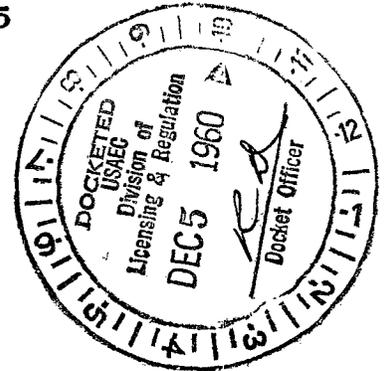
Baltimore 3, Maryland

December 1, 1960
Mail Number W722

Refer to: NMC-135

Director
Division of Licensing & Regulation
U. S. Atomic Energy Commission
Washington 25, D. C.

Attention: Mr. J. C. Delaney,
Chief, Nuclear Materials
Licensing Branch



Gentlemen:

Reference is made to our Special Nuclear Material License SNM-53 as amended, which authorizes Martin to receive and store five hundred (500) kilograms of U-235 contained in uranium as UO₂ and metal. We request to further amend this license to add storage facilities in addition to the Vault described in our License Application dated December 12, 1957, as follows:

- 1) In order to store feed material and finished products (fuel elements) a storage area has been established for contract material in a munitions bunker area located on Martin property. This area has been approved by the New York Operations Office. Enclosure 1 gives a detailed description of the facility, quantity and type of material to be stored and a procedure for the Administrative Control.
- 2) As a result of the expanded fuel element fabrication work at the Martin Company, we require an area to store scrap and waste Special Nuclear and By-Product material prior to shipment to a reprocessor. Enclosure 2 gives a detail description of the facility, quantity and type of material to be stored and a procedure for the Administrative Control.

We are also submitting a request to the New York Operations Office for approval of this facility.

Please direct any questions concerning these facilities to Mr. W. W. Wachtl, Chairman Nuclear Material Control

Handwritten notes and signature:
Wachtl
A/72

THE MARTIN COMPANY

Baltimore 3, Maryland

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December 1, 1960

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I certify that the statements made in this letter and enclosures are true, complete and correct to the best of my knowledge and belief and are made in good faith.

Very truly yours,

THE MARTIN COMPANY


J. V. Loppert,
Licensing Officer
Nuclear Division

WWW/JVL/plm

Nuclear Feed Material and Finished Product Storage Area

The Nuclear Feed Material and Finished Product Storage Area is located on Martin property in the Revetment Area which was previously a munitions bunker. As shown on the attached photograph this Revetment Area consists of eight bunkers. Each bunker cell measures 13' x 15' x 11' high. (See attached sketch.)

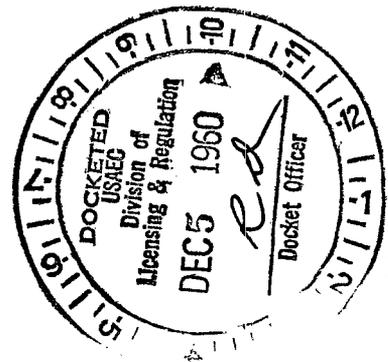
It is planned that up to three of the bunker cells will be utilized for nuclear storage. A small amount of explosive material including emergency flares, jet starter cartridges, fuse chord, small arm ammunition is currently being stored in the remaining bunkers. The area is separately fenced and locked within the Martin property periphery fence. A flood light system has been installed for security purposes. An ADT Alarm system will be located on each access door.

This area will provide storage for up to seventy-five (75) kilograms of contained U-235 per bunker depending upon storage container limitations. Both License and Contract SS Materials will be stored including feed material in shipping birdcages and finished products in approved shipping containers. Feed materials will be stored as required prior to production storage in the Manufacturing Vault. Finished fuel elements will be stored prior to shipment to other contractors. The storage of these materials will be in accordance with criteria presented in TID-7019, TID-7016 and Title 10 Code of Federal Regulations Part 70 and 71. It is not planned to include a radiation alarm system for the following reasons:

1. Remoteness of location and shield properties of the storage rooms.
2. Special administrative control exercised, restricting access.
3. Limited variety of SS material storage.

All packaging for shipment is controlled to insure compliance with Title 10 Parts 20, 70 and 71 Code of Federal Regulations and ICC Regulations (including Bureau of Explosives Permits when necessary).

Administrative Control of this area will be maintained according to the attached procedure entitled "Regulations and Control for Revetment Storage Area".

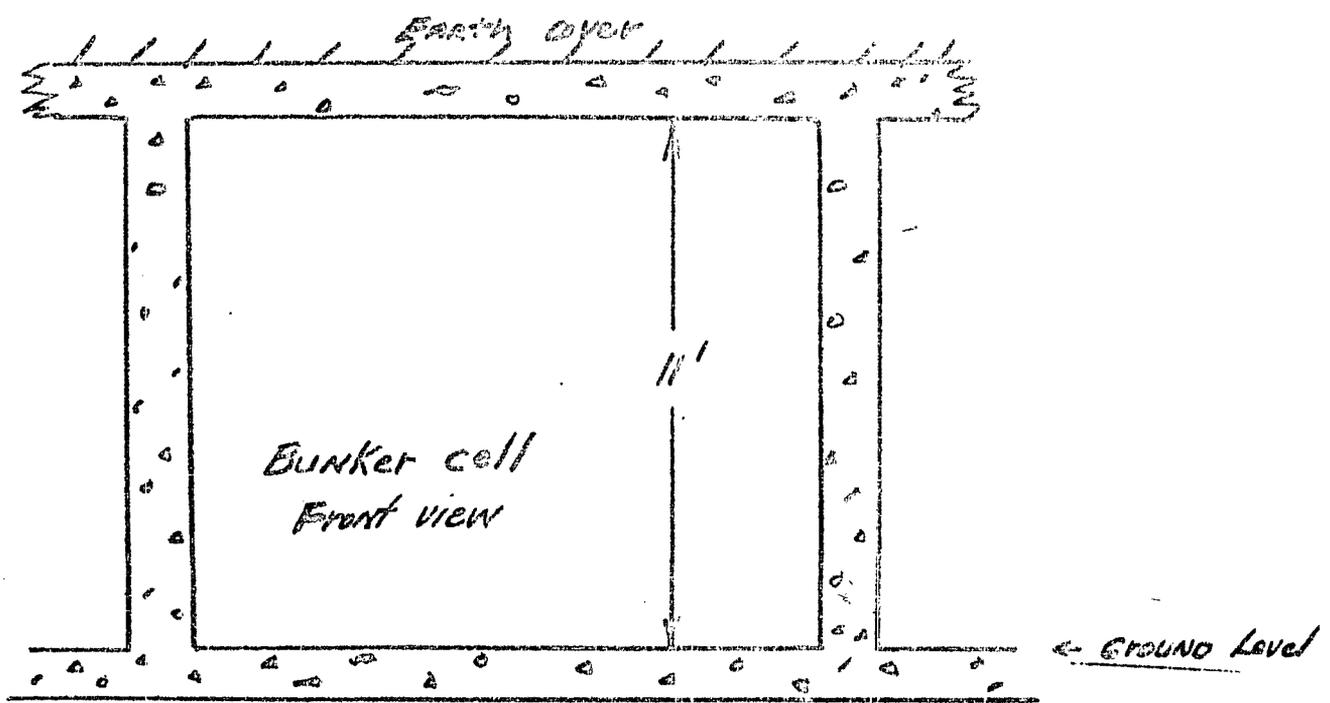
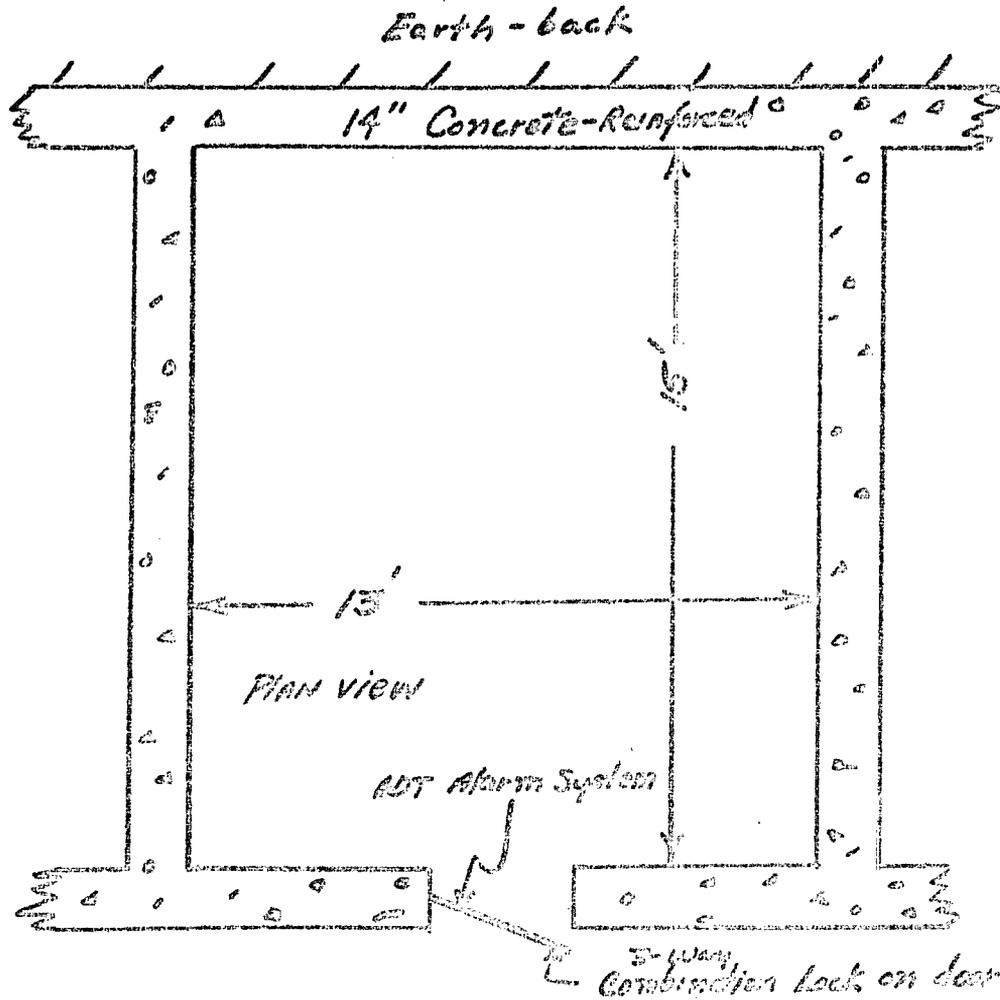


Enclosure 1



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Revetment Storage Area

REGULATIONS FOR CONTROL OF REVEIMENT STORAGE AREA

The following procedures are to be followed for transfer of nuclear material within the storage area, periodic inventories, and any emergencies occurring at the storage location.

1. General

The specific purpose of the area is to provide storage for Special Nuclear Material. Control of the area has been delegated to the Accountability Representative who will physically control all access to the area. The combination for the 3-way lock will be kept by the Accountability Representative. The following personnel should be contacted in this order for admittance: (Line supervision control)

R. L. Metzger (Accountability Representative)
Ext. 9725
Badge No. 1170-82304

W. W. Wachtl (Chairman, Nuclear Materials Control
Committee) - Ext. 8203
Badge No. 1170-83724

J. V. Loppert (Operations Manager) Ext. 8281
Badge No. 1170-82060

Visits include once-a-month inventories and periodic transfer of material.

2. Storage and Transfer of Material

Physical movement will be preceded by application to the Accountability Representative. The Accountability Representative will review all applications for movement of SS material within the area with the Nuclear Materials Control Committee, consisting of Health Physics, Criticality, Security, Accountability and Waste Control.

The Accountability Representative will be in attendance for all movement of material within the area. He will obtain a key to the Revetment periphery fence from the Security Department and all transfers of nuclear materials to this area will require that the shipment be accompanied by a Martin guard escort in a radio car. On all visits, Health Physics personnel will be in attendance, with portable radiation monitoring equipment. Prior to entry the area is surveyed, and any movement of material is monitored.

3. Inventory

Inventory of nuclear materials in the Magazine will be made at least on a monthly basis. The Accountability Representative will perform the inventory. Inventory will be conducted in accordance with procedures as stated in Nuclear Procedures Control Manual MND-1069, revised July 1959. MBA books will be maintained in the Vault Annex.

4. Emergency Procedures

In the event of any emergency occurring at the location, the following departments should be contacted:

Security Department - Ext. 280, 730
Health Physics Dept. - Ext. 9517, 9518

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Nuclear Waste Storage Area

The Nuclear Materials Scrap Storage Area is to be located on Martin property on the south side of "D" Building and within the periphery security fence (see attached sketch). The area will consist of five thousand (5000) square feet of the present concrete pad and will be contained in a regular chain link fence, six feet high. An eight foot gate will be centered on the north side and will be secured by a chain and padlock.

Scrap SS and By-product solutions and solid compounds will be stored in a 55-gallon steel drum or equivalent. Burnable low level wastes if to be shipped away for disposal will be baled and packed in containers and protected from the weather by water-proof coverings.

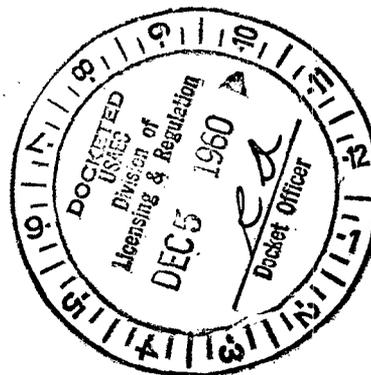
Storage of waste will be in accordance with criteria presented in TID-7019, TID-7016 and Title 10 Code of Federal Regulations Parts 20 and 70. The area will provide storage for up to one hundred (100) kilograms of contained U-235.

Both License and Contract SS material and By-product as scrap will be stored prior to shipment to other contractors for recovery or disposal purposes. Scrap will be segregated by project and type clearly labeled on each storage drum.

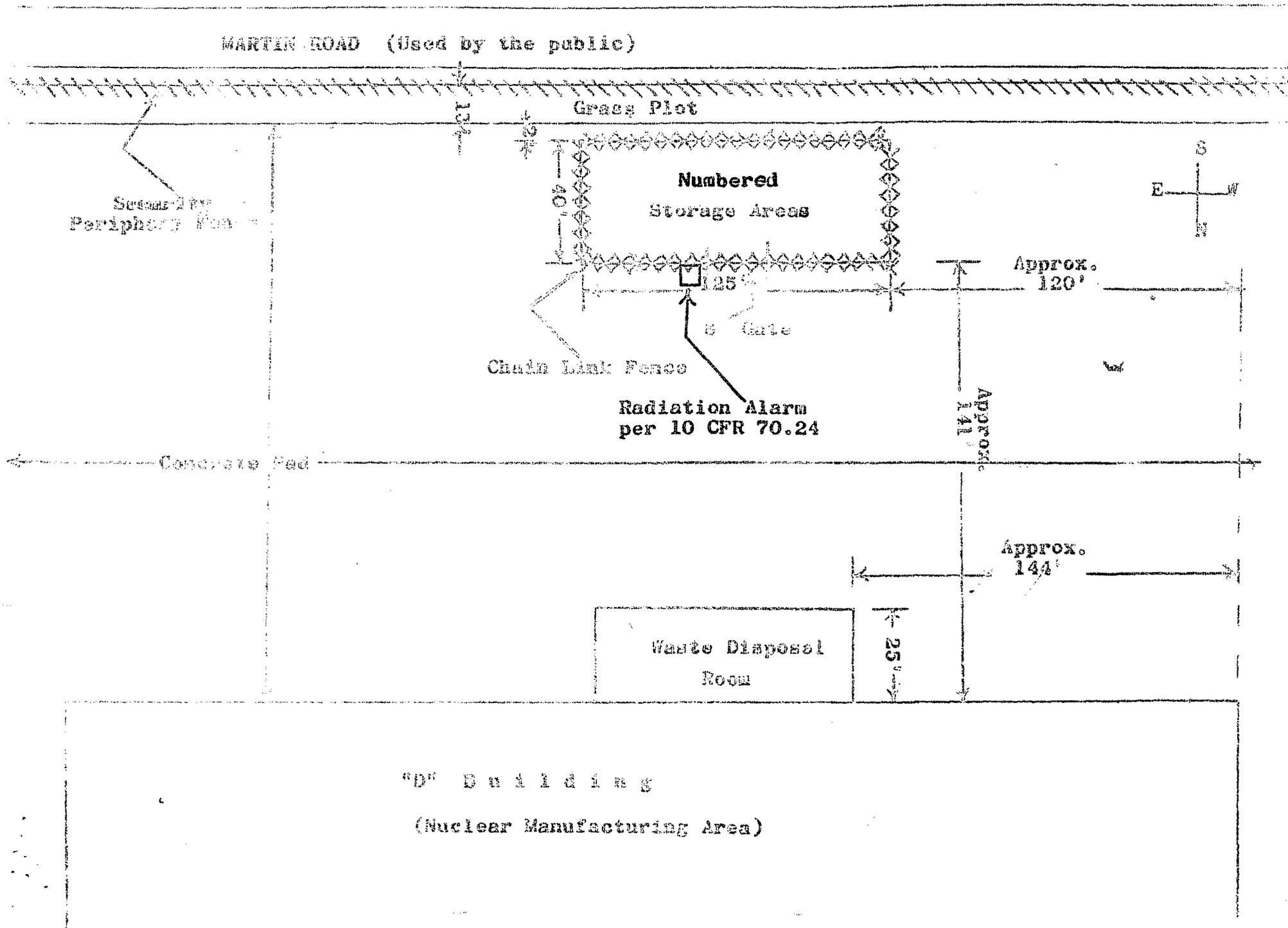
All waste packaging for shipment is checked to insure compliance with regulations in Title 10, Parts 20 and 71, Code of Federal Regulations and ICC Regulations (including Bureau of Explosives Permits when necessary.)

Storage of SS materials and quantities will be restricted to fall within the definitions and limits of Inaccessible and/or Workable forms. This facility will be added to the regular guard clock patrol assuring observation at least once each hour.

Administrative control of this storage area will be maintained according to the attached procedure entitled "Regulations for Control of Waste Storage Area".



PROPOSED NUCLEAR WASTE STORAGE AREA



REGULATIONS FOR CONTROL OF WASTE STORAGE AREA

The following procedures are to be followed for transfer of nuclear material within the storage area, periodic inventories, and any emergencies occurring at the storage location.

1. General

The specific purpose of the area is to provide storage for Special Nuclear and By-Product material waste. Control of the area has been delegated to the Accountability Representative who will physically control all access to the area. The combination for the 3-way lock will be kept by the Accountability Representative. The following personnel should be contacted in this order for admittance:
(Line supervision control)

R. L. Metzger (Accountability Representative) Ext. 9725
Badge No. 1170-82304

W. W. Wachtl (Chairman, Nuclear Materials Control
Committee) Ext. 8203
Badge No. 1170-83724

J. V. Loppert (Operations Manager) Ext. 8281
Badge No. 1170-82060

2. Storage and Transfer of Materials

Physical movement will be preceded by application to the Accountability Representative. The Accountability Representative will review all applications for movement of SS or By Product material within the area with the Nuclear Materials Control Committee, consisting of Health Physics, Criticality, Security, Accountability and Waste Control. Regulatory measures include control of material by type, quantity and segregation in the area by numbered sub-areas.

3. Inventory

Inventory will be conducted in accordance with procedures as stated in Nuclear Procedures Control Manual MND-1069, revised July 1959. MBA books will be maintained by the Waste Control chemist.

4. Emergency Procedures

In the event of any emergency occurring at the location the following departments should be contacted:

Security Department, Ext. 280, 730
Health Physics, Ext. 9517, 9518