

APPENDIX E

NOTE: All areas indicated in field notes are not required to be addressed during each inspection

INDUSTRIAL/ACADEMIC/RESEARCH INSPECTION FIELD NOTES
Region I

Inspection Report No. 94-001

License No. 37-02006-05 -092

Licensee (Name & Address):
Martin Marietta Corp.

Docket No. 030-06046 543-83
030-12894
040-07344

PO Box 8555
Phila. PA 19101

Licensee Contact John Andrews

Telephone No. _____

Last Amendment No. 45

Date of Amendment _____

Priority:
Program Code 03610

Date of Last Inspection Jan 17-18, 1991

Date of This Inspection Oct 24-26, 1994

Type of Inspection: () Announced () Unannounced
 () Routine () Special
 () Initial () Reinspection

Next Inspection Date _____ () Normal () Reduced () Extended

Summary of Findings and Action:

- () No violations cited, Clear 591 issued
- () Violation(s), 591 issued
- () Violation(s), Regional letter issued
- () Followup on Previous Violations

Were non-cited violations identified during this inspection? () Y () N

Was proprietary information reviewed by or received by the inspector? () Y () N

Inspector: Sheila Redmond
(Signature)

Date 10/26/94

Approved: M. S. [Signature]

Date 11/2/94

Issue Date: XX/XX/XX
(RI rec'd 03/10/94)

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 4
FOIA- 2007-304 87100, Appendix E

F-31

(Signature)

1. INSPECTION HISTORY

() N/A - Initial inspection

- A. Violations were identified during any of the last two inspections or two years, whichever is longer (4Y) () N
- B. Response letter(s) or 591(s) dated 9/
- C. Open violations from previous inspections:

| Requirement | Violation | Corrective Action Taken (Y/N) | Status Open/Closed |
|-------------|-----------------------------|-------------------------------|--------------------|
| | Failure to survey to show | Y | C |
| | Complained w/ 20,106 - | | |
| | effluent releases from Kr85 | | |

- D. Explain any previous violation(s) not corrected or repeated (L) N/A

2. ORGANIZATION AND SCOPE OF PROGRAM

A. Organizational Structure

Mike West, Manager H&S
 ↓
 John Andrews, RSO → Tim Allers, Inv. Hyg

- + Individuals contacted during inspection
- * Individuals present at exit meeting

Larry Bruccolieri - Inv.
 Dominick Centurioni
 + various others

- 1. Meets license requirements [L/C] (4Y) () N
- 2. Multiple authorized locations of use and/or laboratories (4Y) () N
 If yes, may use ATTACHMENT A as a guide for location(s) or lab(s) inspected and note lab numbers where violations are found. () N/A
- 3. Briefly describe scope of activities, including types and quantities of use involving byproduct material, frequency of use, staff size, etc.

Very small use of RAM other than CO-60 Irradiators, which are used daily.

→ only locations where RAM is used or stored is at Astro Space Center + Vandenberg Rd site.

B. Radiation Safety Committee required [L/C]

(4Y) () N (see attached)

- 1. RSC fulfills license requirements [L/C] Y N
- 2. Records maintained [L/C] Y N

C. Radiation Safety Officer

- 1. Authorized on license [L/C] Y N
- 2. Fulfills duties as RSO Y N

- D. Use by authorized individuals [L/C] Y N

Remarks:

3. TRAINING, RETRAINING, AND INSTRUCTIONS TO WORKERS

- A. Instructions to workers/students per [10 CFR 19.12] Y N
- B. Training program required [L/C] Y N

1. If so, briefly describe training program:

*Yearly training given to ancillary
& RSM users. 4-6 sessions offered per year
to make sure they get energy*

- 2. Training program implemented Y N
- 3. Periodic training program required Y N
- 4. Periodic training program implemented Y N
- 5. Records maintained Y N

- C. Individuals understanding of procedures and Regulations is adequate Y N

- 1. Current operating procedures Y N
- 2. Emergency procedures Y N
- 3. Use of survey instrumentation Y N

D. Revised Part 20

Workers cognizant of requirements for:

- 1. Radiation Safety Program [20.1101] Y N
- 2. Annual dose limits [20.1301, 1302] Y N
- 3. New forms 4 and 5 Y N N/A
- 4. 10% monitoring threshold [20.1502] Y N
- 5. Dose limits to embryo/fetus and declared pregnant worker [20.1208] *training given* Y N
- 6. Grave Danger Posting [20.1902] Y N N/A
- 7. Procedures for opening packages [20.1906] Y N N/A
- 8. Sewer disposal limits [20.2003] Y N N/A

NOTE: Deficiencies in this area, while not always a violation, should be brought to the attention of licensee management at the exit meeting and in the cover letter transmitting the inspection report or NOV.

Remarks:

4. INTERNAL AUDITS, REVIEWS OR INSPECTIONS

- A. Audits are required [L/C] () Y () N
B. Audits or inspections are conducted () Y () N
(1) Audits conducted by _____
(2) Frequency _____
C. Content and implementation of the radiation protection program reviewed annually by the licensee [20.1101(c)] () Y () N
D. Records maintained [20.2102] () Y () N

5. FACILITIES

- A. Facilities as described in license application [L/C] () Y () N
B. Describe any Self-contained dry-source-storage irradiators [Part 36] and/or survey instrument calibrators (model, radionuclide, activity, use, etc.) () N/A
Licensee has 2 Co-60 Gammacell Irradiators. These are self-shielded Irradiators.
1. Maintenance of safety-related components performed by authorized persons [L/C] () Y () N
2. Access to keys and/or material controlled [20.1801, 1802, L/C] () Y () N
3. Access to ~~high~~ very high radiation areas controlled [20.1601, 1602, L/C] () Y () N
4. Adequate protection of shield integrity, fire protection [L/C] () Y () N N/A

Remarks: *Operator demonstrated leak test & daily interlock checks during inspection.*

6. MATERIALS

- A. Isotope, chemical form, quantity and use as authorized [L/C] () Y () N
B. Licensed materials secured to prevent unauthorized removal or access [20.1801, 1802] () Y () N
C. Leak tests and Inventories [L/C] *see attached*
1. Performed as required () Y () N () N/A
2. Adequate analysis methodology and sensitivity () Y () N () N/A
3. Records maintained [L/C] () Y () N

Remarks:

7. RADIATION SURVEYS

A. Instruments and equipment:

- 1. Appropriate operable survey instrumentation possessed and readily accessible [L/C] Y N
- 2. Calibrated as required [20.1501, L/C] Y N
- 3. Calibration records maintained [20.2103(a)] Y N

B. Briefly describe area survey requirements [20.1501(a), L/C]:

*RMC does yearly calibrations
Survey performed daily around irradiators. Also, monthly survey performed by HSO of all use/storage areas*

C. Performed as required [20.1501(a), L/C] Y N

- 1. Contamination found Y N
- 2. Corrective action taken and documented Y N *D/A*

D. Records maintained [20.2103, L/C] Y N

E. Protection of members of the public *N/A*

- 1. Licensee made adequate surveys to demonstrate either (1) that the TEDE to the individual likely to receive the highest dose does not exceed 100 mrem in a year, or (2) that if an individual were continuously present in an unrestricted area, the external dose would not exceed 2 mrem in any hour and 50 mrem in a year [20.1301(a)(1), 1302(b)] Y N
- 2. Unrestricted area radiation levels do not exceed 2 mrem in any one hour [20.1301(a)(2)] Y N
- 3. Records maintained [20.2103, 2107] Y N

Remarks:

8. RADIOACTIVE WASTE N/A

A. Disposal N/A

- 1. Decay-in-storage N/A
 - a. Procedures approved [20.2001(a)(2), L/C] Y N
 - b. In accordance with [L/C] Y N
 - c. Labels removed or defaced [20.1904(b)] Y N
- 2. Special procedures performed as required [L/C] Y N
- 3. Liquid scintillation (LS) media and animal carcasses per [20.2005] Y N N/A
- 4. Improper/unauthorized disposals [20.2001] Y N
- 5. Records maintained [20.2103(a), 2108, L/C] Y N

B. Effluents

N/A

- 1. Release into sanitary sewer [20.2003] Y N N/A
 - a. Material is readily soluble or readily dispersible [20.2003(a)(1)] Y N
 - b. Monthly average release concentrations do not exceed Appendix B values [20.2003] Y N
 - c. No more than 5 Ci of H-3, 1 Ci of C-14 and 1 Ci of all other radionuclides combined released in a year [20.2003] Y N
 - d. Procedures to ensure representative sampling and analysis properly implemented [20.1501(a)(2), L/C] Y N
- 2. Release to septic tanks [20.2003] Y N N/A
 - a. Within unrestricted limits [App B, Table 2] Y N
- 3. Waste incinerated Y N N/A
 - a. License authorizes [20.2004(a)(3)] Y N
 - b. Licensee directly monitors exhaust Y N
 - c. Airborne releases evaluated and controlled [20.1501, 1701] Y N
- 4. Control of effluents and ashes [20.1201, 1301, 1501, 2001, L/C] {See also IP 87102, RG 8.37} Y N

C. Waste Management

N/A

- 1. Waste compacted [L/C] Y N
- 2. Storage area(s) N/A
 - a. Protection from elements and fire [L/C] Y N
 - b. Control of waste maintained [20.1801] Y N
 - c. Containers properly labeled and area properly posted [20.1902, 1904] Y N
 - d. Package integrity maintained [L/C] Y N
- 3. Packaging, Control and Tracking [App. F.III] [20.2006(d)]:

Note: The licensee's waste is likely to be Class A.

- a. Not packaged for disposal in cardboard or fiberboard boxes [61.56(a)] Y N
 - b. Liquid wastes solidified, i.e., less than 1% freestanding liquid, and void spaces minimized [61.56(a), (b)] Y N
 - c. Does not generate harmful vapors [61.56] Y N
 - d. Structurally stable (will maintain its physical dimensions and form under expected disposal conditions) [61.56(b)] Y N
 - e. Packages properly labeled [App. F.III.A.2] Y N
 - f. Licensee conducts a QC program to ensure compliance with [61.55, 56] and includes management evaluation of audits [App. F.III.A.3] Y N
 - g. Shipments not acknowledged within 20 days after transfer are investigated and reported [App. F.III.A.8] Y N N/A
4. Transfers to land disposal facilities N/A
- a. Transferred to person specifically licensed to receive waste [30.41, 20.2001(b)] Y N
 - b. Each shipment accompanied by a manifest prepared as specified in Section I of Appendix F [20.2006(b), App. F.III.A.4] Y N
 - c. Manifests certified as specified in Section II of Appendix F [20.2006(c)] Y N N/A
- D. Records of surveys and material accountability are maintained [20.2103, 2108] Y N

Remarks:

Two shipments in past year to clean out facility. Picked up by Teledyne.

9. RECEIPT AND TRANSFER OF RADIOACTIVE MATERIAL

- A. Describe how packages are received and by whom: N/A
No packages received. All RHM are check sources that have been with company for years.
- B. Written package opening procedures established and followed [20.1906(e)] Y N
- C. All incoming packages with DOT labels wiped, unless exempted (gases and special form) [20.1906(b)(1)] Y N
- D. Incoming packages surveyed per [20.1906(b)(2)] Y N
- E. Monitoring in (c) and (d) performed within time

- specific. [20.1906(c)] () Y () N
- F. Transfer(s) between licensees performed per [30.41] () Y () N
- G. All sources surveyed before shipment and transfer [20.1501(a), 49 CFR 173.475(i), L/C] () Y () N
- H. Records of surveys and receipt/transfer maintained [20.2103(a), 30.51] () Y () N
- I. Transfers within licensee's authorized users or locations performed as required [L/C] () Y () N () N/A
- J. Arrangements made for Type A packages [20.1906(a)] () Y () N
- K. Package receipt/distribution activities evaluated for compliance with 20.1301 [20.1302] () Y () N () N/A

Remarks:

10. TRANSPORTATION (10 CFR 71.5(a) and 49 CFR 170-189) (✓) N/A

A. Licensee shipments are:

- () delivered to common carriers
- () transported in licensee's own private vehicle
- () both
- () no shipments since last inspection

B. HAZMAT training [172.700-704] () Y () N

C. Packages () N/A

1. Authorized packages used [173.415, 416(b)] () Y () N
2. Performance Test records on file () N/A

- a. Special Form Sources [173.476(a)] () Y () N
- b. DOT-7A packages [173.415(a)] () Y () N

3. COCs on file with NRC for Type B [71.12(c)(1)] () Y () N

4. Two labels (White-I, Yellow-II, Yellow-III) with TI, Nuclide, Activity, and Hazard Class [172.403, 173.441] () Y () N

5. Properly marked (Shipping Name, UN Number, Package Type, RQ, "This End Up" (liquids), Name and Address of consignee) [172.301,306,310,312,324] () Y () N

6. Closed and sealed during transport [173.475(f)] () Y () N

D. Shipping Papers () N/A

1. Prepared and used [172.200(a)] () Y () N

2. Proper {Shipping name, Hazard Class, UN Number, Quantity, Package Type, Nuclide, RQ, Radioactive Material, Physical and chemical form, Activity, Category of label, TI, Shipper's Name, Certification and Signature, Emergency Response Phone Number, "Limited Quantity" (if applicable), "Cargo Aircraft Only" (if applicable)} [172.200-204] () Y () N

3. Readily accessible during transport [177.718(e)] () Y () N

E. Vehicles () N/A

1. Placarded [172.504] () Y () N

2. Cargo blocked and braced [177.842(d)] () Y () N

3. Proper overpacks (shipping name, UN Number, labeled, statement indicating that inner package complies with specification packaging) [173.25] () Y () N

F. Any incidents reported to DOT [171.15, 16] () Y () N

Remarks:

11. PERSONNEL RADIATION PROTECTION

A. Licensee performed exposure evaluation [20.1501] (✓) Y () N

B. Licensee incorporated ALARA considerations in the Radiation Protection Program [20.1101(b)] (✓) Y () N

C. External Dosimetry () N/A

1. Licensee monitors workers [20.1502(a), L/C] (✓) Y () N

2. External exposures account for contributions from airborne activity [20.1203] () Y () N (✓) N/A

3. Supplier Landover Frequency Q

4. Supplier is NVLAP-approved [20.1501(c)] (✓) Y () N

5. Dosimeters exchanged at required frequency [L/C] (✓) Y () N

D. Internal Dosimetry (✓) N/A

1. Licensee monitors workers [20.1502(b), L/C] () Y () N

2. Briefly describe licensee's program for monitoring and controlling internal exposures [20.1701, 1702, L/C]:

3. Air sampling performed () Y () N

4. Monitoring/controlling program implemented () Y () N

5. Respiratory protection equipment [20.1703, L/C] () Y () N

E. Reports () N/A

1. Reviewed by RSO Frequency upon receipt

2. Inspector reviewed personnel monitoring records for period 1992 to 1992

- 3. Prior dose determined for individual likely to receive doses [20.2104] Y N N/A
- 4. Maximum exposures TEDE 1 Other Other
- 5. Maximum CDEs N/A Organs w/k
- 6. Maximum CEDE N/A
- 7. Licensee sums internal and external [20.1202] Y N N/A
- 8. TEDEs and ~~TEDEs~~ within limits [20.1201] Y N
- 9. NRC Forms or equivalent [20.2104(d), 2106(c)]
 - a. NRC-4 Y N N/A Complete: Y N
 - b. NRC-5 Y N Complete: Y N
- 10. Worker declared her pregnancy in writing during inspection period (review records) Y N N/A
 - If yes, licensee in compliance with [20.1208] Y N
 - and records maintained [20.2106(e)] Y N

- F. Who performed PSEs at this facility (number of people involved and doses received) [20.1206, 2104, 2105, 2204] N/A
- G. Records of exposures, surveys, monitoring, and evaluations maintained [20.2102, 2103, 2106, L/C] Y N

Remarks:

12. NRC INDEPENDENT MEASUREMENTS

A. Survey instrument Serial No. Last calibration

Eberline E-120

- B. Inspector's measurements were compared to licensee's Y N
- C. Describe the type, location, and results of measurements:

13. NOTIFICATION AND REPORTS

N/A

- A. Licensee in compliance with [19.13, 30.50] (reports to individuals, public and occupational, monitored to show compliance with Part 20) Y N N/A
- B. Licensee in compliance with [20.2201, 30.50] (theft or loss) Y N None
- C. Licensee in compliance with [20.2202, 30.50] (incidents) Y N None
- D. Licensee in compliance with [20.2203, 30.50] (overexposures and high radiation levels) Y N None
- E. Licensee aware of NRC Ops Center phone number Y N N/A

14. POSTING AND LABELING

- A. NRC-3 "Notice to Workers" is posted [19.11] Y () N
- B. Parts 19, 20, 21, Section 206 of Energy Reorganization Act, procedures adopted pursuant to Part 21, and license documents are posted or a notice indicating where documents can be examined is posted [19.11, 21.6] Y () N
- C. Other posting and labeling per [20.1902, 1904] and the licensee is not exempted by [20.1903, 1905] Y () N

Remarks:

15. RECORDKEEPING FOR DECOMMISSIONING

N/A

- A. Records of information important to the safe and effective decommissioning of the facility maintained in an independent and identifiable location until license termination [30.35(g)] () Y () N
- B. Records include all information outlined in [30.35(g)] () Y () N

Remarks:

16. BULLETINS AND INFORMATION NOTICES

- A. Bulletins, Information Notices, NMSS Newsletters, etc., received by the Licensee Y () N
- B. Licensee took appropriate action in response to Bulletins, Generic Letters, etc. () Y () N N/A

Remarks:

17. SPECIAL LICENSE CONDITIONS OR ISSUES

N/A

- A. Special license conditions or issues to be reviewed:
- B. Evaluation:

18. CONTINUATION OF REPORT ITEMS

N/A

19. VIOLATIONS, NCVs, AND OTHER ISSUES

() N/A

Note: Briefly state (1) the requirement and (2) how and when the licensee violated the requirement. For non-cited violations, indicate why the violation was not cited.

20. PERFORMANCE EVALUATION FACTORS

Licensee (name & location)
Martin Marietta

Inspector Avredomb
Inspection Date 10/24-26/94

- A. Lack of senior management involvement with the radiation safety program and/or Radiation Safety Officer (RSO) oversight () Y () N
- B. RSO too busy with other assignments () Y () N
- C. Insufficient staffing () Y () N
- D. Radiation Safety Committee fails to meet or functions inadequately () Y () N () N/A
- E. Inadequate consulting services or inadequate audits () Y () N () N/A

Remarks (consider above assessment and/or other pertinent PEFs):

Regional follow-up on above PEFs citations:

END

Attachment No. 4

Formerly Licensed Sites which have been Released to Other Uses

Of the locations and facilities identified on the last (1989) renewal application and current license Amendment (#45), the site deletions are summarized below:

I. Last Renewal Application (1989)

9-I-A: 3198 Chestnut St, Philadelphia

This entire site was removed from the license at the time of Amendment no. 45, in June 1994.

9-I-B: Airborne Radioactivity Control Room
Bldg. 100 Room U8604

This site, after about 5 years of disuse, was surveyed and swipe tested over the last year and found to have no measurable fixed, or removable radioactivity after transfer of certain stored radioactive samples to the storage Vault, and then to LLRW. The area is available for other use. The close-out survey was documented by letter to NRC Region 1 (Mr. E. Reber), dated 1/25/94, but incorrectly made reference to Room U8609.

9-I-C: Radioactive Material Use Lab
Bldg. 100 Room U8614

Close-out of this area was documented by letter to NRC Region 1 in 1991 and accepted by the NRC in a letter dated 3/22/91.

9-I-E: Krypton-85 Storage Facility
Bldg. 100 Outside

All Kr-85 gas tanks stored in this shed were transferred in 1992 and a close-out survey was conducted; no physical reason would indicate any residual gas.

9-I-F: Carbon Billet Density Gauge Facility
Bldg. 100 Room T9278

This area had its sealed Co-60 source removed to the Vault (L1310) in 1993 and a satisfactory close-out survey was performed.

II Facilities To Be Deleted

1. 780 Third Ave., King of Prussia

The CCF No. 8 building had its final close-out survey done in 1992, following the relocation of the Radiation Effects Lab. to Bldg. 100 and prior to lease give-up.

2. Allendale Rd. King of Prussia

The leased bldg. CCF# 2 was not explicitly in the 1989 renewal application. The building was decontaminated after the conclusion of activity in 1971 or 1972, inspected by the AEC and released to unrestricted use. Documentation should exist in our files and NRC files.

3. 751 Fifth Ave, King of Prussia

The leased bldg. CCF# 9 was not explicitly in the 1989 renewal application. Decommissioning surveys were conducted by GE. Documentation should exist in our files and NRC files.

4. D and Luzerne Sts., Philadelphia (Ge-RES'D's "D" St. Facility)

Only a sealed cobalt-60 source was used there prior to transfer to Bldg. 100, Room T9278 (above) in about 1976.

5. 401 Hunting Park Avenue

This was strictly used only as a warehouse. It stored packaged radioactive waste prior to LLRW disposal, such as epoxy matrix material with mixed-in depleted uranium.

6. 7500 Lindbergh Blv'd., Philadelphia ("Skeats Lab.")

It is believed the only source used there was an Alphascan vacuum gauge which was formally under PA DER control since it used natural radium. Periodic wipes were conducted, the source was removed and sent to LLRW in 1991 and the facility has been razed.

MMC Astro Space Radioactive Material Inventory Report H

| EH&S No. | MMC LIC No. | Status | ISOTOPE | | Device | Form | Owner | Loc Used |
|----------|-------------|--------|---------|----------------|------------------|-----------------------------|--------|------------|
| | | | Orig. | Activity | | | | Loc Stored |
| RadHS012 | 37-02006-05 | ACTIVE | Pb-210 | 4 nanoCi | PROP. CTR | METAL | MMC AS | U8223 |
| RadHS013 | SUB-831 | ACTIVE | Th-230 | -5 nanoCi | PROP. CTR | METAL | MMC AS | U8223 |
| RadHS014 | 37-02006-05 | ACTIVE | Cs-137 | 8.0 microCi | PROP. CTR | METAL | MMC AS | U8223 |
| RadHS015 | 37-02006-05 | ACTIVE | Pu-239 | 6.0 microCi | PROP. CTR | METAL | MMC AS | U8223 |
| RadHS017 | 37-02006-09 | ACTIVE | Co-60 | | Sealed steel rod | METAL RODS | MMC AS | (b)(4) |
| RadHS018 | 37-02006-09 | ACTIVE | | | sealed steel rod | Gammacell 157 METAL RODS | MMC AS | (b)(4) |
| RadHS019 | 37-02006-05 | ACTIVE | Sr-90 | < 25 microCi | THICKNESS GAUGE | METAL | MMC AS | BLDG B |
| RadHS020 | 37-02006-05 | ACTIVE | Tl-204 | 0.100 millicCi | THICKNESS GAUGE | GAUGE | MMC AS | BLDG B |
| RadHS021 | 37-02006-05 | ACTIVE | Pm-147 | < 75 microCi | THICKNESS GAUGE | METAL | MMC AS | BLDG B |
| RadHS022 | 37-02006-05 | ACTIVE | Sr-90 | <25 microCi | THICKNESS GAUGE | METAL | MMC AS | BLDG B |
| RadHS023 | 37-02006-05 | ACTIVE | Tl-204 | 0.100 millicCi | THICKNESS GAUGE | METAL | MMC AS | BLDG B |
| RadHS024 | 37-02006-05 | ACTIVE | Pm-147 | 0.900 millicCi | THICKNESS GAUGE | METAL | MMC AS | BLDG B |

check sources

Ir-192 radiators

EX4

check sources

Generally Licensed

Astro Space Center

3rd 5th + Vanderburg St

MMC Astro Space Radioactive Material Inventory Report H

| <u>EH&S No.</u> | <u>MMC LIC No.</u> | <u>Status</u> | <u>ISOTOPE</u> <u>Orig. Activity</u> | <u>Device</u> | <u>Form</u> <u>Container</u> | <u>Owner</u> | <u>Loc Used</u> <u>Loc Stored</u> |
|---------------------|--------------------|---------------|---|----------------------------------|---------------------------------|--------------|--------------------------------------|
| RadHS002 | 37-02006-05 | STORAGE | Sr-90 100 mCi | | 7" Pb Pig | MMC AS | No [b)(4)] |
| RadHS003 | 37-02006-05 | STORAGE | Sr-90 10 Ci | Beta Irradiator | 6" Capped Pig | MMC AS | No [b)(4)] |
| RadHS004 | 37-02006-05 | STORAGE | Am-241 1 Ci | | 3" Steel Pig | MMC AS | No [b)(4)] |
| RadHS005 | 37-02006-05 | STORAGE | Pu-239 5 micro Ci | | METAL 1.5" Pipe | MMC AS | None L1304 |
| RadHS006 | 37-02006-05 | STORAGE | Pu-238 90 mCi | | 3 sm. plugs lead foil | MMC AS | none L1304 |
| RadHS009 | 37-02006-05 | STORAGE | Sr-90 <5 microCi | Prop. Counter | METAL | MMC AS | U8223 U8223 |
| RadHS010 | 37-02006-05 | STORAGE | Tl-204 < 50 microCi | Prop. Counter | METAL | MMC AS | U8223 U8223 |
| RadHS011 | 37-02006-05 | STORAGE | Th-230 7 NCI | prop. counter | METAL | MMC AS | U8223 U8223 |
| RadHS016 | 37-02006-06 | STORAGE | Co-60 81.8 millicCi | Graphite Density Gauge | METAL Lead assembly | MMC AS | last [b)(4)] |
| RadHS025 | 37-02006-05 | STORAGE | Kr-85 | Tracer-Flo | GAS Triotech tank | MMC AS | B100 U8301 U8301 |
| RadHS026 | SUB-831 | STORAGE | Th-232 6.03 millicCi | 11 plates | MgTh METAL TRAILER | USAF | TBD Out. near B301 |
| RadHS027 | 37-02006-05 | STORAGE | Cs-137 ~100 NCI (2/94) | Starsat (Misty Rain Hardware) | DUST/Imbedded BOX | DNA | TBD Out. near B301 |

*labeled Caution RMA
Caution Rad. Area*

644

*labeled as
Radioactive Material
No RAD levels found*

JLA 8/13/94

MMC Astro Space Radioactive Material Inventory Report H

| <u>EH&S No.</u> | <u>MMC LIC No.</u> | <u>Status</u> | <u>ISOTOPE</u> <u>Orig. Activity</u> | <u>Device</u> | <u>Form</u> <u>Container</u> | <u>Owner</u> | <u>Loc Used</u> <u>Loc Stored</u> |
|---------------------|--------------------|---------------|---|--------------------------|----------------------------------|--------------|--------------------------------------|
| RadHS029 | 37-02006-05 | STORAGE | CS-137 8 MICROCI | | METAL | MMC AS | U8223 U8223 |
| RadHS040 | General | STORAGE | Po-210 | STATIC MASTER BRUSHES | METAL plastic bag | MMC AS | None L1304 |
| RadHS041 | General | STORAGE | H3 | 5 EXIT SIGNS | none | MMC AS | None L1304 |
| RadHS044 | SUB-831 | Storage | U-238 approx. 0.04 Ci | Simulator | METAL W87 | US DOE | BLDG 400 Bldg. 400 |
| RadHS053 | General | STORAGE | H-3 | 3M Static Meter | | MMC AS | None L1304 |
| RadHS054 | General | STORAGE | H-3 | 3 Exit Signs | | MMC AS | None L1304 |
| RadHS058 | GENERAL ? | Storage | U-238 ~ 1 microCi | None | None Powder plastic bottle | MMC AS | None L1304 |
| RadHS059 | SUB831 | Storage | Th-232 less than 1 millicCi | DSCS 3A3 | MgTh Box | USAF | Sys Test Ldsat Ci Rm |
| RadHS060 | SUB831 | Storage | Th-232 less than 1 millicCi | DSCS B6 | MgTh Box | USAF | Sys Test Ldsat Ci Rm |
| RadHS061 | SUB831 | Storage | Th-232 less than 1 millicCi | DSCS B7 | MgTh Box | USAF | Sys Test Ldsat Ci Rm |
| RadHS062 | SUB831 | Storage | Th-232 less than 1 millicCi | DSCS B8 | MgTh Box | USAF | Sys Test Ldsat Ci Rm |
| RadHS063 | SUB831 | Storage | Th-232 less than 1 millicCi | DSCS B11 | MgTh Box | USAF | Sys Test Ldsat Ci Rm |
| RadHS064 | SUB831 | Storage | Th-232 less than 1 millicCi | DSCS B13 | MgTh Box | USAF | Sys Test Ldsat Ci Rm |
| RadHS065 | General ? | Storage | Po-210 0.01 Ci. | Fire sensor | ? none | MMAS | was Model Shop L1304 |

SAFETY INSPECTION

| | | | |
|--|--|--|--|
| 1. LICENSEE <i>Martin Marietta Corporation P.O. Box 8555 Philadelphia, Pennsylvania 19101</i> | | 2. REGIONAL OFFICE REGION I U S NUCLEAR REGULATORY COMMISSION 475 ALLENDALE ROAD KING OF PRUSSIA PA 19406-1415 | |
| 3. DOCKET NUMBER(S) <i>040-07344 030-12894</i> | 4. LICENSE NUMBER(S) <i>SUB-831 37-02006-09</i> | 5. DATE OF INSPECTION <i>December 8, 1993</i> | |

LICENSEE:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The findings as a result of this inspection are as follows:

- 1. Within the scope of this inspection, no violations were observed.
- 2. The inspector also verified the steps you have taken to correct the violations identified during the last inspection. We have no further questions on those actions at this time.
- 3. During this inspection certain of your activities, as described below or attached, were in violation of NRC requirements. This form is a NOTICE OF VIOLATION, which is required to be posted in accordance with 10 CFR 19.11.
 - A. _____ was not properly posted to
Indicate the presence of a _____, 10 CFR 20.203(b),(c),(d),(e) or 34.42.
 - B. _____ of sealed sources were not
performed at the proper frequencies. 10 CFR _____ or License Condition Number _____.
 - C. Records of _____ were not properly maintained.
10 CFR _____ or License Condition Number _____.
 - D. Documents were not properly posted or otherwise made available. 10 CFR 19.11.
 - E. Reports or notification of _____ were not made in accordance with
10 CFR _____ or License Condition Number _____.
 - F. _____

I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations identified in the items checked above. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201. No further response will be submitted unless required by the NRC.

| | | | |
|----------------------|------|---------------------------|----------------|
| SIGNATURE - LICENSEE | DATE | SIGNATURE - NRC INSPECTOR | DATE |
| | | <i>Judith A. Jovston</i> | <i>12/8/93</i> |