

TECHNICAL CENTER  
RADIOACTIVE MATERIALS AND RADIATION-PRODUCING DEVICES  
INVENTORY AS OF APRIL 1, 1980

INVENTORY OUTLINE

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  - B. MICROWAVE GENERATORS
  - C. LASERS

A-68

I. RADIOACTIVE MATERIALS

| ISOTOPE | ACTIVITY (mCi) |       |        |        |       |                          |         | Total                  |
|---------|----------------|-------|--------|--------|-------|--------------------------|---------|------------------------|
|         | A.1            | A.2   | A.3    | B      | C     | D                        | E       |                        |
| Am-241  | 4564.0         |       |        |        |       | $9.8 \times 10^{-5}$     |         | 4564.000098            |
| Ba-133  |                |       |        |        |       | $5.3 \times 10^{-4}$     |         | $5.3 \times 10^{-4}$   |
| C-14    |                |       | 26.1   |        |       | $8.52 \times 10^{-4}$    | 637.343 | 663.443852             |
| Cd-109  |                |       |        |        |       | $4.679 \times 10^{-3}$   |         | $4.679 \times 10^{-3}$ |
| Cl-36   |                |       |        |        |       | $3.1 \times 10^{-5}$     |         | $3.1 \times 10^{-5}$   |
| Co-60   |                |       |        |        |       | $9.364 \times 10^{-4}$   |         | $9.364 \times 10^{-4}$ |
| Cs-137  | 20620.9        | 708.3 |        | 189.2  |       | 1725.781038              |         | 23244.18104            |
| Fe-55   |                |       |        | 43.8   |       |                          |         | 43.8                   |
| H-3     |                |       | 1220.0 | 7871.7 | 759.3 | $7 \times 10^{-5}$       |         | 9851.00005             |
| Ni-63   |                |       |        | 67.4   |       | $2.08 \times 10^{-4}$    |         | 67.400208              |
| Po-210  |                |       |        | 0.0375 |       |                          |         | 0.0375                 |
| Ra-226  |                |       | 0.06   | 0.2    |       | $2.01338 \times 10^{-2}$ |         | 0.2801338              |
| Sr-90   | 1334.6         |       |        |        |       | $6.14 \times 10^{-6}$    |         | 1334.600006            |
|         |                |       |        |        |       |                          |         |                        |

II. RADIATION-PRODUCING DEVICES

X-Ray Machines: 10  
 Microwave Generators: 26  
 Lasers: 13

I. A.1. STORAGE AREA - INDEFINITE STORAGE

| Isotope   | Serial # | Mfr. and Model # | Acitivity (mCi)<br>Calib. Date | Activity as of<br>4/1/80 (mCi) | Comments       | Date In  |
|-----------|----------|------------------|--------------------------------|--------------------------------|----------------|----------|
| Cs-137    | 64126    | SHRM-PA          | 100          6/75              | 89.4                           |                | 9/7/77   |
| Sr-90     | S-1006   | Numinco SH1A     | 1000          2/64             | 667.3                          |                | 2/4/64   |
| Sr-90     | S-1005   | Numinco SH1A     | 1000          2/64             | 667.3                          |                | 2/14/64  |
| Cs-137    | 559      | TN-5192          | 200          1/23/75           | 177.5                          |                | 5/10/78  |
| Cs-137    | 274      | TN-5190          | 200          12/10/73          | 172.9                          |                | 5/10/78  |
| Cs-137    | 302      | TN-5190          | 200          12/10/73          | 172.9                          |                | 5/10/78  |
| Cs-137    | 215      | TN-5192          | 200          9/14/73           | 171.9                          |                | 5/10/78  |
| Cs-137    | 299      | TN-5190          | 200          12/10/73          | 172.9                          |                | 5/10/78  |
| Cs-137    | 6783     | HM-8             | 2000          8/67             | 1492.6                         |                | 12/28/78 |
| Am-241-Be | 2545     | Container 1100   | 930          10/75             | 923.6                          | At Seadrift    | 12/10/79 |
| Am-241-Be | 2        | TN-5010          | 1300          9/6/65           | 1271.5                         | Moisture Gauge | 10/3/74  |
| Cs-137    | 2372     | TN-5176          | 4000          8/28/74          | 3516.2                         | (for Alloy)    | 10/3/74  |
| Cs-137    | 572      | TN-5192          | 200          1/75              | 177.2                          |                | 11/20/78 |
| Cs-137    | 548      | TN-5192          | 200          1/23/75           | 177.5                          |                | 4/10/79  |
| Cs-137    | 545      | TN-5192          | 200          1/23/75           | 177.5                          |                | 4/10/79  |
| Cs-137    | 534      | TN-5192          | 200          1/23/75           | 177.5                          |                | 4/10/79  |
| Cs-137    | 551      | TN-5192          | 200          1/23/75           | 177.5                          |                | 4/10/79  |
| Cs-137    | 524      | TN-5192          | 200          10/30/74          | 175.8                          |                | 4/10/79  |
| Cs-137    | 580      | TN-5192          | 200          1/23/75           | 177.5                          |                | 4/10/79  |

I. A.1. STORAGE AREA - INDEFINITE STORAGE (Page 2)

| Isotope | Serial #             | Mfr. and Model # | Acitivity (mCi)<br>Calib. Date | Activity as of<br>4/1/80 (mCi) | Comments | Date In  |
|---------|----------------------|------------------|--------------------------------|--------------------------------|----------|----------|
| Cs-137  | 515                  | TN-5192          | 200 1/23/75                    | 177.5                          |          | 4/10/79  |
| Cs-137  | 560                  | TN-5192          | 200 1/23/75                    | 177.5                          |          | 4/10/79  |
| Cs-137  | 61063                | SHRM-PA          | 100 7/70                       | 79.8                           |          | 8/21/75  |
| Cs-137  | L-469                | SHRM-PA          | 100 2/75                       | 88.8                           |          | 12/4/75  |
| Cs-137  | 64127                | SHRM-PA          | 100 6/75                       | 89.4                           |          | 9/7/77   |
| Cs-137  | 64128                | SHRM-PA          | 100 6/75                       | 89.4                           |          | 9/7/77   |
| Cs-137  | 64154                | SHRM-PA          | 100 2/75                       | 88.8                           |          | 12/4/75  |
| Cs-137  | 285                  | TN-5190          | 200 12/10/73                   | 172.9                          |          | 1/19/77  |
| Cs-137  | 60410                | SHRH-A           | 1500 1/69                      | 1156.7                         |          | 12/3/75  |
| Cs-137  | 60409                | SHRH-A           | 1500 1/69                      | 1156.7                         |          | 12/3/75  |
| Cs-137  | 511-30<br>6901-25135 | SHRH-A           | 1000 1/62                      | 656.0                          |          | 5/10/78  |
| Cs-137  | 65620                | SR-1             | 500 3/77                       | 465.6                          |          | 6/20/79  |
| Cs-137  | 65621                | SR-1             | 500 3/77                       | 465.6                          |          | 6/20/79  |
| Cs-137  | 567                  | TN-5192          | 200 1/75                       | 177.2                          |          | 10/19/76 |
| Cs-137  | 2684                 | SHRH-36          | 500 4/77                       | 466.5                          |          | 5/3/77   |
| Cs-137  | 2683                 | SHRH-36          | 500 4/77                       | 466.5                          |          | 5/3/77   |
| Cs-137  | 1760                 | SHRM             | 100 7/70                       | 79.8                           |          | 9/5/75   |
| Cs-137  | 2475                 | SHRM-60          | 500 8/76                       | 459.3                          |          | 11/28/79 |
| Cs-137  | 2476                 | SHRM-60          | 500 8/76                       | 459.3                          |          | 11/28/79 |

I. A.1. STORAGE AREA - INDEFINITE STORAGE (Page 3)

| Isotope   | Serial # | Mfr. and Model # | Acitivity (mCi)<br>Calib. Date | Activity as of<br>4/1/80 (mCi) | Comments                       | Date In  |
|-----------|----------|------------------|--------------------------------|--------------------------------|--------------------------------|----------|
| Cs-137    | 2477     | SHRM-60          | 500 8/76                       | 459.3                          |                                | 11/28/79 |
| Cs-137    | 2549     | SHRM-60          | 500 8/76                       | 459.3                          |                                | 11/28/79 |
| Cs-137    | 2552     | SHRM-60          | 500 8/76                       | 459.3                          |                                | 11/28/79 |
| Cs-137    | 2553     | SHRM-60          | 500 8/76                       | 459.3                          |                                | 11/28/79 |
| Cs-137    | 2555     | SHRM-60          | 500 8/76                       | 459.3                          |                                | 11/28/79 |
| Cs-137    | 2556     | SHRM-60          | 500 8/76                       | 459.3                          |                                | 11/28/79 |
| Cs-137    | 2557     | SHRM-60          | 500 8/76                       | 459.3                          |                                | 11/28/79 |
| Cs-137    | 2561     | SHRM-60          | 500 8/76                       | 459.3                          |                                | 11/28/79 |
| Cs-137    | 2562     | SHRM-60          | 500 8/76                       | 459.3                          |                                | 11/28/79 |
| Cs-137    | 2563     | SHRM-60          | 500 8/76                       | 459.3                          |                                | 11/28/79 |
| Am-241-Be | 1504     | Alum. Suitcase   | 2390 6/19/74                   | 2369.2                         | Sent to Taft<br>for Profile    |          |
| Cs-137    | 65199    | SR-1             | 300 9/77                       | 282.7                          |                                | 1/2/80   |
| Cs-137    | 1266     | SHRM-5           | 100 3/66                       | 72.2                           |                                | 1/17/80  |
| Cs-137    | 6779     | HM-8             | 2000 8/67                      | 1492.9                         | No lock.<br>500 mr/hr contact. | 3/17/80  |
|           |          |                  |                                |                                |                                |          |
|           |          |                  |                                |                                |                                |          |
|           |          |                  |                                |                                |                                |          |
|           |          |                  |                                |                                |                                |          |
|           |          |                  |                                |                                |                                |          |





I. B. SOURCES IN USE AT THE TECH CENTER

| Isotope | Serial # | Mfr. and Model #                                    | Activity (mCi)<br>Calib. Date | Activity as of<br>4/1/80 (mCi) | Comments                                   | Location                     |
|---------|----------|---|-------------------------------|--------------------------------|--|------------------------------|
| Ni-63   | A-1743   | Varian<br>Gas Chromatograph                         | 8      1/80                   | 8.0                            | Mr. Bill Lambdin<br>770/250 - Ext. 4481    | 770/249                      |
| Cs-137  | 2180     | SHRM  | 50      12/77                 | 47.3                           | Rocket Hollow<br>A1 W Cell<br>Dr. Joe Amos | Bldg. 777                    |
| Cs-137  | 2181     | SHRM  | 50      12/77                 | 47.3                           | Rocket Hollow<br>A2 W Cell<br>Dr. Joe Amos | Bldg. 777                    |
| Cs-137  | 2182     | SHRM  | 50      12/77                 | 47.3                           | Rocket Hollow<br>B1 E Cell<br>Dr. Joe Amos | Bldg. 777                    |
| Cs-137  | 2503     | SHRM  | 50      12/77                 | 47.3                           | Rocket Hollow<br>B2 E Cell<br>Dr. Joe Amos | Bldg. 777                    |
| Fe-55   | 445      | PGT-100 Analyzer                                    | 50      10/79                 | 43.8                           | Phil Gaarenstroom<br>770/228               | Bldg. 777<br>Analy. Sup. Lab |
| Ra-226  | 6901-24  | Indl. Nucleonics<br>Pipe Wall<br>Thickness Gauge    | 0.2      1958                 | 0.2                            | B.H. Clark 2000/2131                       | 2000/2104                    |
| Ni-63   | 767      | Varian 3700<br>Gas Chromatograph                    | 8      5/78                   | 7.9                            | J. Marchio 770/262                         | 770/245                      |
| Ni-63   | C0587    | HP 5840A<br>Gas Chromatograph                       | 15      8/77                  | 14.7                           | S.A. Siegrist 770/318                      | 770/315                      |
| Ni-63   | C1048    | HP 5840A<br>Gas Chromatograph                       | 15      3/79                  | 14.9                           | E.R. Lashley 770/316                       | 770/347                      |
| Ni-63   | 234      | Bendix<br>Gas Chromatograph                         | 15      9/74                  | 14.4                           | R.L. Berglund 770/350                      | 770/345                      |
| H-3     | 146      | AID Portable<br>Gas Chromatograph                   | 200      1/65                 | 84.7                           |  | 770/343                      |
| H-3     | 119      | Bendix Gas Chroma-<br>tograph Analog<br>Tech. Corp. | 1000      8/75                | 7670.5                         | S.A. Siegrist 770/318                      | 770/323                      |







I. D. CALIBRATION AND CHECK SOURCES 2Q80

| Isotope | Serial #             | Mfr. and Model #  | Activity (mCi)<br>Calib. Date |       | Activity as of<br>4/1/80 (mCi) | Comments                    | Location             |
|---------|----------------------|-------------------|-------------------------------|-------|--------------------------------|-----------------------------|----------------------|
| Cs-137  | M-644                | Ohmart Comp. Cell | 0.5                           | 11/67 | 0.335                          | Contained in lead pig       | 747-Calibration Room |
| Cs-137  | 512                  | TN-5192           | 200                           | 11/74 | 176.5                          |                             | Ditto                |
| Cs-137  | 60476                | SHRH-A            | 2000                          | 12/68 | 1539.3                         |                             | Ditto                |
| Cs-137  | 511-36<br>6901-25050 | SHRM-PA           | 10                            | 5/64  | 6.92                           |                             | Ditto                |
| Cs-137  | V-857                | Comp. Cell        | 0.5                           | 10/67 | 0.375                          | Contained in lead pig       | 747-Cabinet 2        |
| Cs-137  | 6901-25058           | Comp. Cell        | 0.5                           | 5/64  | 0.346                          | Ditto                       | Ditto                |
| Cs-137  | M-645                | Comp. Cell        | 0.5                           | 6/66  | 0.363                          | Ditto<br>(2 sources in pig) | Ditto                |
| Cs-137  | J-698                | Comp. Cell        | 0.5                           | 11/67 | 0.375                          | Ditto                       | Ditto                |
| Cs-137  | L-837                | Comp. Cell        | 0.25                          | 4/76  | 0.228                          | Ditto                       | Ditto                |
| Cs-137  | V-856                | Comp. Cell        | 0.5                           | 10/67 | 0.375                          | Ditto                       | Ditto                |
| Cs-137  | T-609                | Comp. Cell        | 0.25                          | 12/67 | 0.188                          | Ditto                       | Ditto                |
| Cs-137  | M-629                | Comp. Cell        | 0.1                           | 10/71 | 0.083                          | Ditto                       | Ditto                |
| Cs-137  | 454                  | Comp. Cell        | 0.5                           | 11/64 | 0.350                          | Ditto<br>(2 sources in pig) | Ditto                |

## I.D.CALIBRATION AND CHECK SOURCES 2Q80 (Page 2)

| Isotope | Serial #            | Mfr. and Model #     | Activity ( $\mu$ Ci)<br>Calib. Date | Activity as of<br>4/1/80 ( $\mu$ Ci) | Comments             | Location |
|---------|---------------------|----------------------|-------------------------------------|--------------------------------------|----------------------|----------|
| Am-241  | Am-601              | MRC Disk             | 0.1      6/70                       | 0.098                                | Calibration Source   | 740/2309 |
| C-14    | N/A                 | Eberline CS-4A       | 0.5      2/78                       | 0.5                                  | Calibration Source   | 740/2309 |
| Cs-137  | 617                 | Beckman <sup>k</sup> | 0.1      1/78                       | 0.094                                | LS-9000 Check Source | 740/2309 |
| Ra-226  | N/A                 | Numinco Disk         |                                     |                                      | Check Source         | 740/2309 |
| Ba-133  | CT-200-3<br>G 3-45  | Baird Atomic Disk    | 0.598      1/79                     | 0.530                                | Energy Calib. Source | 740/2309 |
| Co-60   | CT-200-7<br>G 7-78  | Baird Atomic Disk    | 1.06      1/79                      | 0.899                                | Energy Calib. Source | 740/2309 |
| Cd-109  | CT-200-1<br>G 1-25  | Baird Atomic Disk    | 9.21      1/79                      | 4.679                                | Energy Calib. Source | 740/2309 |
| Cs-137  | CT-200-4<br>G 4-102 | Baird Atomic Disk    | 1.08      1/79                      | 1.04                                 | Energy Calib. Source | 740/2309 |
| H-3     | H 262123            | Beckman Vial         | 0.04      4/77                      | 0.034                                | LS9000 Calib. Set    | 740/2309 |
| C-14    | C 260039            | Beckman Vial         | 0.013      2/77                     | 0.013                                | LS9000 Calib. Set    | 740/2309 |
| H-3     | H 263102            | Beckman Vial         | 0.043      6/77                     | 0.036                                | LS9000 Calib. Set    | 740/2309 |
| C-14    | C 262070            | Beckman Vial         | 0.014      4/77                     | 0.014                                | LS9000 Calib. Set    | 740/2309 |
| C-14    | 107-2               | IPL Disk             | 0.157      8/71                     | 0.157                                | LB II Calib. Set     | 740/2309 |

| Isotope | Serial # | Mfr. and Model #        | Activity ( $\mu$ Ci)<br>Calib. Date | Activity as of<br>4/1/80 ( $\mu$ Ci) | Comments                                       | Location      |
|---------|----------|-------------------------|-------------------------------------|--------------------------------------|--|---------------|
| C1-36   | 107-3    | IPL Disk                | 0.031 8/71                          | 0.031                                | LB II Calib. Set                               | 740/2309      |
| Ni-63   | 107-5    | "                       | 0.222 8/71                          | 0.208                                | "  | "             |
| Sr-90   | 107-4    | "                       | 0.00761 8/71                        | 0.00614                              | "  | "             |
| C-14    | 107-1    | "                       | 0.168 8/71                          | 0.168                                | "  | "             |
| Cs-137  | 7105-1   | "                       | 0.0104 12/70                        | 0.0084                               | "  | "             |
| Cs-137  | 7105-2   | "                       | 0.107 12/70                         | 0.086                                | "  | "             |
| Co-60   | 7105-3   | "                       | 0.0149 12/70                        | 0.0044                               | "  | "             |
| Co-60   | 7105-4   | "                       | 0.113 12/70                         | 0.033                                | "  | "             |
| Ra-226  | 7105-5   | "                       | 0.124 12/70                         | 0.123                                | "  | "             |
| Ra-226  | 7105-6   | "                       | 0.0109 12/70                        | 0.0108                               | "  | "             |
| Ra-226  | 740-5303 | Packard<br>Tri-Carb LSC | 20.0 1/70                           | 20.0                                 | Internal Source                                | 740/4313      |
| Cs-137  | Cs-106   | Beckman LSC             | 20.0 1/74                           | 17.0                                 | Internal Source                                | 740/4315      |
| Cs-137  | -        | -                       | 10.0 1/75                           | 8.86                                 | Three check sources<br>stored in a lead cylin. | 747 Cabinet 2 |



I.E. UNENCAPSULATED ISOTOPES

List of the Radiolabeled Chemicals with the Registration  
Chemistry Group, Union Carbide Agricultural Products Company

| <u>Compound</u>                     | <u>Label</u> | <u>Amount (mCi)</u> |
|-------------------------------------|--------------|---------------------|
| Potassium cyanide                   | Carbon-14    | 75.0                |
| UC 51109                            | "            | 2.72                |
| Barium carbonate                    | "            | 3.00                |
| UC 44858                            | "            | 6.57                |
| Standak oxime                       | "            | 0.50                |
| Standak                             | "            | 41.99               |
| Acetonitrile                        | "            | 2.50                |
| Acetic Acid                         | "            | 2.995               |
| Methomyl                            | "            | 4.00                |
| Aldicarb N-methyl <sup>14</sup> C   | "            | 0.718               |
| Aldicarb tert <sup>14</sup> C       | "            | 0.388               |
| Aldicarb S-methyl <sup>14</sup> C   | "            | 148.1               |
| Carbaryl N-methyl <sup>14</sup> C   | "            | 0.692               |
| Carbaryl carbonyl <sup>14</sup> C   | "            | 0.146               |
| Carbaryl 1-naphthyl <sup>14</sup> C | "            | 190.00              |
| Thiodicarb                          | "            | 129.77              |
| Radiolabeled biological matter      | "            | 25.06               |
| Radioactive waste                   | "            | <u>3.194</u>        |
|                                     | TOTAL        | 637.343             |

## II.A - X-RAY INVENTORY

| <u>ID</u> | <u>Use</u>                            | <u>Location</u>             |
|-----------|---------------------------------------|-----------------------------|
| X-1       | Analytical (Microscope)               | 770/123                     |
| X-2       | Analytical (Microscope)               | 740/3308                    |
| X-3       | Analytical (Diffraction)              | 770/252                     |
| X-4       | Analytical (Diffraction/Fluorescence) | 770/252                     |
| X-5       | Analytical (Diffraction)              | 770/424                     |
| X-6       | Analytical                            | 770/115                     |
| X-7       | Medical                               | 791 - X-Ray Room            |
| X-8       | Industrial Radiography                | 511/Test & Inspection Bldg. |
| X-9       | Industrial Radiography                | Institute (511/2149)        |
| X-10      | Analytical (Diffraction)              | 770/252                     |



## II.B

INVENTORY

|     |      |                           |             |                           |
|-----|------|---------------------------|-------------|---------------------------|
| 1.  | M-1  | Montgomery Ward-Signature | Bldg. 339   | Lunch Room                |
| 2.  | M-2  | Litton Industries         | Bldg. 701   | Lunch Room                |
| 3.  | M-3  | Whirlpool Model REM 7400  | Bldg. 704   | Lunch Room                |
| 4.  | M-4  | Whirlpool Mealminder      | Bldg. 705   | Lunch Room                |
| 5.  | M-5  | Whirlpool Mealminder      | Bldg. 706   | Lunch Room                |
| 6.  | M-6  | Whirlpool Mealminder      | Bldg. 707   | Lunch Room                |
| 7.  | M-7  | Whirlpool Mealminder      | Bldg. 708   | Lunch Room                |
| 8.  | M-8  | Thermador Thermatronic    | Bldg. 720   | Lunch Room                |
| 9.  | M-9  | Litton Systems 70/30      | Bldg. 740   |                           |
| 10. | M-10 | Litton Systems 70/30      | Bldg. 770   | Lunch Room                |
| 11. | M-11 | Whirlpool Mealminder      | Bldg. 771   | Lunch Room                |
| 12. | M-12 | Amana Radarange           | Bldg. 773   | Lunch Room                |
| 13. | M-13 | Amana Radarange           | Bldg. 781   | Lunch Room                |
| 14. | M-14 | Sears                     | Bldg. 785   |                           |
| 15. | M-15 | Litton Systems 70/30      | Bldg. 2000  | Lunch Room (Left Oven)    |
| 16. | M-16 | Litton Systems 70/30      | Bldg. 2000  | Lunch Room (Right Oven)   |
| 17. | M-17 | Litton Sytems 70/30       | Bldg. 3001  | Lunch Room (Right Oven)   |
| 18. | M-18 | Litton Systems 70/30      | Bldg. 3001  | Lunch Room (Left Oven)    |
| 19. | M-19 | Litton Minutemaster       | Bldg. 6000  | Lunch Room (1st Floor)    |
| 20. | M-20 | Litton Minutemaster       | Bldg. 6000  | Lunch Room (Guard Office) |
| 21. | M-21 | Litton Minutemaster       | Bldg. 6000  | Lunch Room (2nd Floor)    |
| 22. | M-22 | Whirlpool Model REM 7400  | Guard House |                           |
| 23. | M-23 | Whirlpool Model RFM 7300  | Bldg. 791   | Cafeteria                 |
| 24. | M-24 | Whirlpool Model RFM 7300  | Bldg. 791   | Cafeteria                 |

INVENTORY (CONTD)

- |     |      |                           |            |                        |
|-----|------|---------------------------|------------|------------------------|
| 25. | M-25 | Montgomery Ward, KSA8039A | Bldg. 727  | Lunch Room (2nd Floor) |
| 26. | M-26 | Litton Minutemaster       | Bldg. 3001 | Lunch Room (by Window) |

II.C. LASER INVENTORY

| <u>I.D.</u> | <u>Use</u>   | <u>Location</u> |
|-------------|--------------|-----------------|
| L-1         | Research     | 740/3305        |
| L-2         | Research     | 740/3305        |
| L-3         | Research     | 740/3305        |
| L-4         | Research     | 740/3305        |
| L-5         | Research     | 770/466         |
| L-6         | Research     | 770/159E        |
| L-7         | Research     | 770/466         |
| L-8         | Research     | 720/146         |
| L-9         | Research     | 720/146         |
| L-10        | Construction | 511/5518        |
| L-11        | Construction | 511/5518        |
| L-12        | Research     | 740/3305        |
| L-13        | Research     | 740/3305        |