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# TESTING AND EVALUATION OF PRIMARY ALKALINE CELLS AND BATTERIES

Report No. 3, Third Semi-Annual Report

1 March 1961 to 1 September 1961

Signal Corps Contract No. DA-36-039 SC-78320

Order No. 40009-PM-60-91-91

Task No. 3A99-09-002-02

Mallory Battery Company

North Tarrytown, New York

A Division of P. R. Mallory & Co., Inc., Indianapolis, Ind.

XEROX

62-1-5

# TESTING AND EVALUATION OF PRIMARY ALKALINE CELLS AND BATTERIES

Report No. 3, Third Semi-Annual Report

1 March 1961 to 1 September 1961

Object of Study: The testing and evaluation of primary alkaline cells and batteries of the zinc-alkaline-mercuric oxide system over a wide range of discharge rate, temperature and storage time under Signal Corps Technical Requirement SCL-6274 of 19 September 1958

Signal Corps Contract No. DA-36-039 SC-78320
Order No. 40009-PM-60-91-91
Task No. 3A99-09-002-02

Placed by

U. S. Army Signal Research and Development Laboratory
Fort Monmouth, New Jersey

With the

Mallory Battery Company
North Tarrytown, New York

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1 PURPOSE

1.1 To test and evaluate the performance of alkaline primary cells and batteries of types 1R, 12R, 42R, 502R, 601R, 625R, 640R, 650R, and 675R of the zinc-alkaline-mercuric oxide system as detailed in the Signal Corps Technical Requirement SCL-6274.

1.2 Division of Program into Tasks.

1.2.1 Task A: Establishment of Test Facilities and Procedures.

1.2.2 Task B: Test and Evaluation of Type 12R Cell.

1.2.2.1 Sub-Task B1: Initial Discharge, SCL-6274, Chart No. 1.

1.2.2.2 Sub-Task B2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.

1.2.2.3 Sub-Task B3: 36-Month Storage & Discharge, SCL-6274, Chart No. 2.

1.2.2.4 Sub-Task B4: 12-Month Storage with Intermittent Discharge, SCL-6274, Chart No. 4.

1.2.2.5 Sub-Task B5: 12-Month Cyclic Storage & Discharge, SCL-6274, Chart No. 5.

1.2.2.6 Sub-Task B6: 3-Month Storage and Discharge, SCL-6274, Chart No. 7.

1.2.3 Task C: Test and Evaluation of Type 42R Cell.

1.2.3.1 Sub-Task C1: Initial Discharge, SCL-6274, Chart No. 1.

1.2.3.2 Sub-Task C2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.

1.2.3.3 Sub-Task C3: 36-Month Storage and 1000-Hour Discharge, SCL-6274, Chart No. 6.

| | | |
|---|---|---|
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| 1.2.4.2 | Sub-Task D2: | 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1. |
| 1.2.4.3 | Sub-Task D3: | 36-Month Storage and Discharge, SCL-6274, Chart No. 3. |
| 1.2.4.4 | Sub-Task D4: | 12-Month Cyclic Storage and Discharge, SCL-6274, Chart No. 5. |
| 1.2.4.5 | Sub-Task D5: | 3-Month Storage and Discharge, SCL-6274, Chart No. 7. |
| 1.2.5 | Task E: Test and Evaluation of Type 1R Cell. | |
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| 1.2.5.2 | Sub-Task E2: | 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1. |
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| 1.2.6.3 | Sub-Task F3: | 36-Month Storage and Discharge, SCL-6274, Chart No. 3. |
| 1.2.6.4 | Sub-Task F4: | 12-Month Storage and Intermittent Discharge, SCL-6274, Chart No. 4. |
| 1.2.6.5 | Sub-Task F5: | 12-Month Cyclic Storage and Discharge, SCL-6274, Chart No. 5. |
| 1.2.6.6 | Sub-Task F6: | 3-Month Storage and Discharge, SCL-6274, Chart No. 7. |
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| | | |
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| 1.2.10.2 | Sub-Task J2: | 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1. |
| 1.2.10.3 | Sub-Task J3: | Battery Assembly with Mechanical Testing, Storage and Discharge, SCL-6274, Table I. |

2 ABSTRACT

2.1 Task B: Test and Evaluation of Type 12R Cells

Work continued on the program for Initial Discharge of 12R cells. The tests at 55°F have not been completed at this time.

Monthly EMF readings were taken on 12R cells stored at 70°F.

Type 12R cells were placed in cyclic storage of 0 - 130°F for a twelve month program. Six month cells were discharged.

Type 12R cells stored at 160°F were tested after 1, 2, 3 and 6 months storage. Cells stored for three months at 115°F were tested. Six month tests on cells stored at -20, 20, 70 and 115°F were tested.

2.2 Task C: Test and Evaluation of Type 42R Cell

Monthly EMF readings were taken on 42R cells stored at 70°F.

Work continued on the program of Initial Discharge of 42R cells. The tests at 55°F have not been completed at this time.

Cells placed in storage at temperatures of from

-20° to 115°F were removed for the twelve month discharge tests at the 1000 hour rate.

2.3 Task D: Test and Evaluation of Type 640R Cell

Work was started on the program of Initial Discharge of 640R cells. The tests at 55°F have not been completed.

Monthly EMF readings were taken on 640R cells stored at 70°F.

Over seven thousand 640R cells were distributed among five storage temperatures from -20° to +160°F to provide up to thirty-six months of storage.

## 3 CONFERENCES

3.1 1 March 1961 at the Mallory Battery Company Engineering Annex, Elmsford, New York.

The attending Signal Corps personnel was Mr. A. Lockwood. The Mallory Battery Company was represented by C. G. Birdsall and R. M. Goodman.

Discussion was held on the test facilities in the Engineering Annex, the test procedures and the test program for the coming months.

3.2 13 July 1961 at Mallory Battery Company Engineering Annex, Elmsford, New York.

The attending Signal Corps personnel were Messrs. A. Lockwood and J. Hovendon. The Mallory Battery Company was represented by C. G. Birdsall and R. M. Goodman.

Discussion was held on the dispersion of test group samples as related to the application of test data to battery desigh. It was agreed that a criteria should be established to confine cell testing within meaningful limits.

3.3 9 August 1961 at Fort Monmouth, New Jersey. The attending Signal Corps personnel were Messrs. A. Lockwood and J. Hovendon. Mallory Battery Company

was represented by F. P. Schiro, C. C. Birdsall, and R. M. Goodman.

Discussion was held on the "coefficient of variation" of cell test groups and the need for revision of Technical Requirements SCL-6274.

3.4 16 August 1961 at Fort Monmouth, New Jersey. The attending Signal Corps personnel were Messrs. A. Lockwood and J. Hovendon. Mallory Battery Company was represented by R. M. Goodman.

Further discussion on revision of the Technical Requirements, SCL-6274 was held.

4 FACTUAL DATA

4.1 Task A: Test Facilities and Procedures

4.1.1 There is nothing to report this period on test facilities and procedures.

4.2 Task B: Test and Evaluation of Type 12R Cell

4.2.1 Sub-Task B1: Initial Discharge, SCL-6274, Chart No. 1.

4.2.1.1 Work continued during this period on the initial discharge of 12R cells. These initial discharges were run in accordance with Chart No. 1 of SCL-6274. The test results are summarized in Table 1 (at the end of this section). Tests at 55°F still have to be run.

4.2.2 Sub-Task B2: 36 Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1

4.2.2.1 Monthly EMF readings have been made on a group of fifty 12R cells stored at 70°F. The summary of data for 12 months of storage is shown in Table 2.

4.2.3 Sub-Task B3: 36 Month Storage and Discharge, SCL-6274, Chart No. 2

4.2.3.1 From the 8581 type 12R cells in storage at temperatures

of -20, +20, +70, +115° and +160°F, cells have been withdrawn for testing and evaluation at 1, 2, 3, and 6 months. The results are shown in Tables 3, 4, 5, 6 and 7.

4.2.4 <u>Sub-Task B4: 12 Months Storage with Intermittent Discharge, SCL-6274, Chart No. 4</u>

4.2.4.1 No work was done on Sub-Task B4 during this period.

4.2.5 <u>Sub-Task B5: 12 Month Cyclic Storage and Discharge, SCL-6274, Chart No. 5</u>

4.2.5.1 For this test cyclic storage between 0° and 130°F was provided through the facilities of the Signal Corps Engineering Laboratories at Fort Monmouth, New Jersey. After one and six months of cyclic storage twenty-four cells were tested at Mallory Battery Company. The results are contained in Table 8.

4.2.6 <u>Sub-Task B6: 3 Month Storage and Discharge, SCL-6274, Chart No. 7</u>

4.2.6.1 No work was done on Sub-Task B6.

4.3 <u>Task C: Test and Evaluation of Type 42R Cells</u>

4.3.1 Sub-Task C1: Initial Discharge, SCL-6274, Chart No.1

4.3.1.1 Work progressed during this period on the initial discharge of 42R cells. The initial discharges were run in accordance with Chart No. 1 of SCL-6274. The test results are summarized in Table 9 (at the end of this section). Tests at 55°F still have to be run.

4.4 Task D: Test and Evaluation of Type 640R Cell

4.4.1 Sub-Task D1: Initial Discharge, SCL-6274, Chart No. 1

4.4.1.1 Work progressed during this period on the initial discharge of 640R cells. The initial discharges were run in accordance with Chart No. 1 of SCL-6274. The test results are summarized in Table 11 (at the end of this section). Tests at 55° still have to be run.

4.4.2 Sub-Task D2: 36 Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1

4.4.2.1 Monthly EMF readings were taken on a group of fifty 640R cells stored at 70°F. The summary of data for 9 months of storage is shown in Table 12.

4.4.3 Sub-Task D3: 36 Month Storage and Discharge, SCL-6274, Chart No. 3.

4.4.3.1 From the 9141 type 640R cells in storage at temperatures of -20°, +20°, +70°, +115° and +160°F, cells have been withdrawn for testing and evaluation at 1 and 2 months at 160°F. The results are shown in Tables 13 and 14.

4.4.4 Sub-Task D4: 12 Month Cyclic Storage and Discharge, SCL-6274, Chart No. 5.

4.4.4.1 For this test cyclic storage between 0° and 130°F was provided through the facilities of the Signal Corps Engineering Laboratories at Fort Monmouth, New Jersey.

After one month of cyclic storage twenty-four cells were tested at the Mallory Battery Company. The results are contained in Table 15.

4.4.5 Sub-Task D5: 3 Month Storage and Discharge, SCL-6274, Chart No. 7.

4.4.5.1 No work was done on Sub-Task D5.

TABLE 1: SUMMARY OF INITIAL DISCHARGE OF TYPE 12R CELL

| Load in Ohms | Temperature of Discharge, °F. | Hours to 0.90 Volt | | | | Discharge Numbers |
|---|---|---|---|---|---|---|
| | | Mean | Median | Maximum | Minimum | |
| 2.2 | 40 | 0.10 | 0.10 | 0.15 | 0.05 | 511, 512, 547 |
| | 55 | | | | | |
| | 70 | 0.28 | 0.24 | 4.50 | 0.10 | 364, 365, 513 |
| | 115 | 6.39 | 6.30 | 7.90 | 5.80 | 517, 518, 545 |
| | 160 | 6.29 | 6.40 | 8.00 | 5.40 | 549, 550, 551 |
| | 200 | 3.07 | 3.45 | 4.35 | 0.85 | 411, 412, 555 |
| 2.7 | 40 | 0.06 | 0.05 | 0.15 | 0.05 | 413, 414, 548 |
| | 55 | | | | | |
| | 70 | 1.54 | 1.53 | 3.30 | 0.10 | 378, 382, 514 |
| | 115 | 7.98 | 7.71 | 11.00 | 7.00 | 389, 390, 546 |
| | 160 | 7.82 | 7.80 | 8.40 | 7.15 | 395, 396, 552 |
| | 200 | 4.83 | 5.11 | 9.00 | 0.80 | 521, 522, 556 |
| 3.3 | 40 | 0.12 | 0.10 | 0.20 | 0.05 | 444, 445, 567 |
| | 55 | | | | | |
| | 70 | 4.90 | 5.90 | 6.50 | 0.35 | 377, 383, 525 |
| | 115 | 9.58 | 9.63 | 10.90 | 5.40 | 407, 408, 516 |
| | 160 | 9.60 | 9.56 | 10.20 | 9.25 | 409, 410, 515 |
| | 200 | 3.90 | 2.40 | 7.45 | 1.60 | 523, 524, 570 |
| 4.7 | 20 | 0.20 | 0.21 | 0.30 | 0.15 | 397, 398, 480 |
| | 40 | 0.33 | 0.35 | 0.75 | 0.05 | 415, 416, 481 |
| | 55 | | | | | |
| | 70 | 11.65 | 11.50 | 13.67 | 10.80 | 51, 57, 58 |
| | 115 | 13.87 | 13.76 | 14.60 | 13.20 | 399, 400, 482 |
| | 160 | 11.44 | 12.70 | 13.50 | 3.10 | 427, 428, 483 |
| | 200 | 3.66 | 3.54 | 4.90 | 2.40 | 429, 430, 484 |
| 5.6 | 20 | 0.20 | 0.18 | 0.40 | 0.10 | 756, 757, 758 |
| | 40 | 0.36 | 0.23 | 0.90 | 0.05 | 405, 406, 568 |
| | 55 | | | | | |
| | 70 | 15.50 | 15.70 | 16.50 | 14.55 | 122, 142, 497 |
| | 115 | 16.54 | 16.19 | 18.20 | 15.40 | 379, 380, 569 |
| | 160 | 15.59 | 16.50 | 17.40 | 5.00 | 146, 498, 499 |
| | 200 | 5.61 | 5.60 | 7.80 | 4.10 | 507, 519, 520 |

(CONTD) TABLE 1: SUMMARY OF INITIAL DISCHARGE OF TYPE 12R CELL

| Load in Ohms | Temperature of Discharge, °F. | Hours to 0.90 Volt | | | | Discharge Numbers |
|---|---|---|---|---|---|---|
| | | Mean | Median | Maximum | Minimum | |
| 8.2 | -20 | 0.15 | 0.15 | 0.25 | 0.05 | 759, 760, 761 |
| | 0 | 0.15 | 0.15 | 0.25 | 0.05 | 762, 763, 764 |
| | 20 | 0.21 | 0.20 | 0.30 | 0.15 | 526, 527, 565 |
| | 40 | 0.68 | 0.63 | 2.15 | 0.05 | 71, 79, 566 |
| | 55 | | | | | |
| | 70 | 23.40 | 23.52 | 24.20 | 22.30 | 123, 143, 505 |
| | 115 | 24.64 | 24.08 | 27.50 | 24.00 | 355, 356, 363 |
| | 160 | 13.42 | 7.14 | 24.80 | 6.15 | 357, 362, 509 1128, 1129, 1130 |
| | 200 | 8.44 | 8.30 | 10.50 | 6.90 | 360, 361, 508 |
| 12.0 | -20 | 0.22 | 0.20 | 0.25 | 0.15 | 915, 916, 917 |
| | 0 | 0.38 | 0.33 | 0.75 | 0.20 | 956, 957, 958 |
| | 20 | 0.64 | 0.54 | 1.70 | 0.20 | 810, 811, 812 |
| | 40 | 10.21 | 8.33 | 18.40 | 5.95 | 1039, 1040, 1041 |
| | 55 | | | | | |
| | 70 | 36.58 | 36.20 | 39.40 | 34.70 | 844, 845, 846 |
| | 115 | 36.13 | 36.34 | 38.00 | 33.20 | 1009, 1010, 1011 |
| | 160 | 34.99 | 36.57 | 39.05 | 15.40 | 1108, 1109, 1110 |
| | 200 | 16.25 | 16.45 | 18.20 | 13.15 | 858, 859, 860 |
| 15.0 | -20 | 0.28 | 0.28 | 0.35 | 0.15 | 847, 848, 849 |
| | 0 | 0.56 | 0.45 | 1.60 | 0.30 | 985, 986, 987 |
| | 20 | 1.68 | 1.73 | 3.50 | 0.60 | 1095, 1096, 1097 |
| | 40 | 7.36 | 6.08 | 17.95 | 3.05 | 1072, 1073, 1074 |
| | 55 | | | | | |
| | 70 | 46.53 | 46.44 | 48.65 | 44.20 | 1131, 1132, 1133 |
| | 115 | 44.19 | 44.70 | 46.20 | 41.75 | 930, 931, 932 |
| | 160 | 42.48 | 44.75 | 46.40 | 20.00 | 1114, 1115, 1116 |
| | 200 | 22.59 | 22.07 | 41.20 | 17.05 | 855, 856, 857 |

(CONTD) TABLE 1: SUMMARY OF INITIAL DISCHARGE OF TYPE 12R CELL

| Load in Ohms | Temperature of Discharge, °F. | Hours to 0.90 Volt Mean | Median | Maximum | Minimum | Discharge Numbers |
|---|---|---|---|---|---|---|
| 33.0 | -20 | 0.86 | 0.90 | 1.15 | 0.50 | 393, 394, 601 |
| | 0 | 2.79 | 2.30 | 6.30 | 1.05 | 939, 940, 941 |
| | 20 | 8.76 | 8.00 | 15.00 | 4.30 | 375, 376, 510 |
| | 40 | 101.98 | 102.00 | 107.70 | 97.00 | 145, 278, 279 |
| | 55 | | | | | |
| | 70 | 102.07 | 103.10 | 107.90 | 97.60 | 52, 72, 136B |
| | 115 | 94.48 | 97.80 | 103.30 | 42.10 | 75, 83, 458 |
| | 160 | 85.15 | 83.60 | 101.70 | 47.00 | 373, 374, 459 |
| | 200 | 68.87 | 67.87 | 89.60 | 48.30 | 391, 392, 571 |
| 39 | 20 | 8.45 | 7.04 | 13.35 | 5.15 | 104, 115 |
| | 160 | 100.63 | 101.62 | 119.30 | 80.50 | 119, 120, 138 |
| | 200 | 84.99 | 84.42 | 106.60 | 69.20 | 208, 280, 281 |
| 56 | 0 | 7.27 | 7.46 | 15.25 | 1.70 | 90, 91 |
| 100 | -20 | 8.08 | 7.97 | 11.20 | 5.30 | 94 |
| 120 | -20 | 12.24 | 12.27 | 12.95 | 11.40 | 127 |
| 130 | -20 | 16.84 | 16.03 | 27.10 | 11.90 | 139, 140, 130 |
| 150 | -20 | 17.93 | 18.16 | 36.00 | 3.70 | 125, 130, 141 |
| 220 | 0 | 163.59 | 157.55 | 262.10 | 105.10 | 341, 342, 343, 344 |
| 330 | -20 | 118.03 | 121.96 | 151.30 | 36.10 | 126, 152, 277 |

## TABLE 2: EMF READINGS OF TYPE 12R CELL

| EMF Reading In Volts | Distribution of EMF Readings Months of Storage at 70°F. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.3550-1.3554 | Initial | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1.3545-1.3549 | 2 | 1 | | | | | | | | | | | |
| 1.3540-1.3544 | 3 | 2 | | | | | | | | | | | |
| 1.3535-1.3539 | 18 | 15 | 1 | 1 | | | | | | | | | |
| 1.3530-1.3534 | 24 | 26 | 3 | 0 | 1 | 1 | 1 | | | | | | |
| 1.3525-1.3529 | 2 | 4 | 18 | 5 | 0 | 0 | 1 | | | | | | |
| 1.3420-1.3524 | 1 | 2 | 21 | 18 | 9 | 5 | 16 | 1 | 1 | | | | |
| 1.3515-1.3519 | | | 5 | 21 | 22 | 21 | 22 | 3 | 0 | 1 | | | |
| 1.3510-1.3514 | | | 2 | 3 | 14 | 18 | 6 | 16 | 3 | 0 | | | 1 |
| 1.3505-1.3509 | | | | 0 | 1 | 2 | 2 | 23 | 21 | 6 | | | 0 |
| 1.3500-1.3504 | | | | 2 | 1 | 1 | 0 | 4 | 18 | 22 | | | 2 |
| 1.3495-1.3499 | | | | | 1 | 0 | 1 | 0 | 3 | 15 | | | 14 |
| 1.3490-1.3494 | | | | | 1 | 2 | | 1 | 1 | 3 | | | 19 |
| 1.3485-1.3489 | | | | | | | | 0 | | 1 | | | 10 |
| 1.3480-1.3484 | | | | | | | | 1 | | 0 | | | 1 |
| 1.3475-1.3479 | | | | | | | | 1 | | 0 | | | 1 |
| 1.3470-1.3474 | | | | | | | | | | 1 | | | 0 |
| 1.3465-1.3469 | | | | | | | | | | 1 | | | 0 |
| 1.3460-1.3464 | | | | | | | | | | | | | 1 |
| 1.3455-1.3459 | | | | | | | | | | | | | 0 |
| 1.3450-1.3454 | | | | | | | | | | | | | 1 |

Note: No readings were made during the 10th and 11th months because the storage was not 70°F.

TABLE 3: 12R STORAGE FOR ONE MONTH AT 160°F

| Discharge Loads | Discharge Temperatures in °F | | | | | |
|---|---|---|---|---|---|---|
| | -20° | 40° | 70° | 115° | 160° | 200° |
| 5 Hour Rate | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms |
| 10 Hour Rate | 4.7 ohms | 4.4 ohms | 4.4 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms |
| 100 Hour Rate | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms |
| 5 Hour Rate | | | | | | |
| Mean | | | 0.63 | | 8.44 | 4.65 |
| Med. | | | 0.40 | | 9.74 | 3.19 |
| Max. | | | 1.00 | | 10.75 | 10.05 |
| Min. | | | 0.30 | | 1.05 | 0.95 |
| Discharge Nos. | | | 645 | | 641, 642 | 638, 639 |
| 10 Hours Rate | | | | | | |
| Mean | | 0.37 | 8.39 | 14.23 | 6.95 | 2.72 |
| Med. | | 0.34 | 8.53 | 14.21 | 7.53 | 2.60 |
| Max. | | 0.75 | 10.50 | 15.30 | 14.90 | 11.60 |
| Min. | | 0.20 | 4.10 | 13.40 | 1.30 | 1.70 |
| Discharge Nos. | | 557,558,608 609 | 105 106 | 541,542 543,544 | 535,536 537,538 | 559,560, 606,607 |
| 100 Hour Rate | | | | | | |
| Mean | 1.39 | 96.02 | 99.28 | 87.58 | | |
| Med. | 1.30 | 97.02 | 99.11 | 97.63 | | |
| Max. | 2.00 | 104.60 | 105.80 | 103.30 | | |
| Min. | 1.00 | 70.60 | 92.30 | 3.10 | | |
| Discharge Nos. | 539,640 553,554 | 148,147 124,210 | 99,100 101,102 | 116,117 118,203 | | |

TABLE 4: 12R STORAGE FOR TWO MONTHS AT 160°F

| | Discharge Temperatures in 0°F | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -20° | 0° | 40° | 70° | 115° | 160° | 200° | 250° |
| **Discharge Loads** | | | | | | | | |
| 5 Hour Rate | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms |
| 10 Hour Rate | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms |
| 100 Hour Rate | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms |
| 5 Hour Rate | | | | | | | | |
| Mean | | | 0.17 | 2.98 | 10.26 | 9.15 | 1.99 | 2.29 |
| Med. | | | 0.16 | 2.62 | 10.29 | 9.62 | 1.49 | 1.90 |
| Max. | | | 0.25 | 6.55 | 11.35 | 10.20 | 8.60 | 7.10 |
| Min. | | | 0.05 | 0.45 | 9.80 | 1.25 | 1.15 | 1.45 |
| Discharge Nos. | | | 703,704 | 668,1042 | 709,710 | 684,685 | 798,799 | 1048,1049 |
| | | | 705,706 | 1043 | 711,712 | 686,687 | 800,801 | 1050,1051 |
| 10 Hour Rate | | | | | | | | |
| Mean | | | 0.24 | 0.83 | 14.54 | 4.21 | 2.14 | |
| Med. | | | 0.23 | 0.41 | 14.50 | 1.88 | 2.12 | |
| Max. | | | 0.80 | 5.65 | 15.65 | 14.10 | 2.65 | |
| Min. | | | 0.00 | 0.28 | 13.80 | 1.50 | 1.85 | |
| Discharge Nos. | | | 653,654 | 198,199 | 770,771 | 643,644 | 794,795 | |
| | | | 655,656 | 200,201 | 772,773 | 701,702 | 796,797 | |
| 100 Hour Rate | | | | | | | | |
| Mean | 0.05 | | 29.15 | 97.44 | 70.94 | | | |
| Med. | 0.41 | | 16.60 | 98.09 | 68.80 | | | |
| Max. | 1.30 | | 90.85 | 103.80 | 102.45 | | | |
| Min. | .02 | | 10.00 | 81.80 | 30.50 | | | |
| Discharge Nos. | 669,670 | | 217,218 | 171,173 | 212,213 | | | |
| | 707,708 | | 666,667 | 174,688 | 635,636 | | | |

TABLE 5: 12R STORAGE FOR THREE MONTHS AT 160°F

| Discharge Loads | Discharge Temperatures °F. | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -20° | 0° | 40° | 70° | 115° | 160° | 200° | 250° |
| 5 Hour Rate | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms |
| 10 Hour Rate | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms |
| 100 Hour Rate | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms |
| 5 Hour Rate | | | | | | | | |
| Mean | | | 0.29 | 0.37 | 0.74 | 0.98 | 0.90 | 1.50 |
| Med. | | | 0.27 | 0.37 | 0.76 | 0.88 | 0.85 | 1.57 |
| Max. | | | 0.45 | 0.50 | 0.85 | 1.25 | 1.25 | 2.25 |
| Min. | | | 0.20 | 0.02 | 0.60 | 0.65 | 0.65 | 0.35 |
| Discharge Nos. | | | 1083,1084 | 967,968 | 959,960 | 1184,1183 | 963,964 | 1056,1057 |
| | | | 1085,1086 | 969,970 | 961,962 | | 965,966 | 1058,1059 |
| | | | | 971,972 | | | | |
| 10 Hour Rate | | | | | | | | |
| Mean | | 0.16 | 0.43 | 0.71 | 2.35 | 2.74 | 1.88 | |
| Med. | | 0.15 | 0.50 | 0.86 | 1.43 | 1.60 | 1.80 | |
| Max. | | 0.20 | 0.70 | 1.10 | 12.75 | 11.85 | 2.90 | |
| Min. | | 0.15 | 0.10 | 0.70 | 1.10 | 1.25 | 0.95 | |
| Discharge Nos. | | 1119,1120 | 1117,1124 | 256,257 | 1145,1146 | 1185,1186 | 948,949 | |
| | | | 1118 | 853,854 | | | 950,951 | |
| 100 Hour Rate | | | | | | | | |
| Mean | 2.57 | 4.71 | 25.00 | 93.98 | 60.34 | | | |
| Med. | 2.55 | 3.40 | 15.00 | 96.70 | 44.64 | | | |
| Max. | 3.00 | 12.60 | 97.80 | 102.80 | 125.00 | | | |
| Min. | 2.10 | 2.20 | 11.00 | 62.20 | 9.50 | | | |
| Discharge Nos. | 1165,1166 | 1167,1168 | 247,248 | 231,232 | 254,255 | | | |
| | | | 249,250 | 233,234 | 259,260 | | | |

**TABLE 6:** 12R STORAGE FOR THREE MONTHS AT 115°F

| Discharge Loads | Discharge Temperatures °F. | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -20° | 0° | 40° | 70° | 115° | 160° | 200° | 250° |
| 5 Hour Rate | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms | 3.3 ohms |
| 10 Hour Rate | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms |
| 100 Hour Rate | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms | 33 ohms |
| 5 Hour Rate | | | | | | | | |
| Mean | | | 0.13 | 1.15 | 10.21 | 9.46 | 2.02 | 3.22 |
| Med. | | | 0.12 | 0.81 | 10.13 | 9.39 | 1.85 | 1.85 |
| Max. | | | 0.30 | 5.50 | 11.65 | 9.90 | 7.85 | 8.65 |
| Min. | | | 0.05 | 0.25 | 9.60 | 8.70 | 1.55 | 1.25 |
| Discharge Nos. | | | 992,993<br>994,995 | 988,989<br>990,991 | 1005,1006<br>1007,1008 | 1187,1188<br>1189 | 944,945<br>946,947 | 1060,1061<br>1062,1063 |
| 10 Hour Rate | | | | | | | | |
| Mean | | all | 0.24 | 9.70 | 14.88 | 2.74 | 2.49 | |
| Med. | | Less | 0.25 | 9.66 | 14.70 | 1.60 | 2.38 | |
| Max. | | than | 0.30 | 11.50 | 16.60 | 11.85 | 2.75 | |
| Min. | | 0.05 | 0.10 | 0.30 | 13.20 | 1.25 | 1.90 | |
| Discharge Nos. | | 1198,1199<br>1200 | 1174,1175 | 369,370<br>371,372 | 1053,1052<br>1054,1055 | 1185,1186 | 975,976<br>977,978 | |
| 100 Hour Rate | | | | | | | | |
| Mean | 0.82 | 2.44 | 72.40 | 101.40 | 85.78 | | | |
| Med. | 0.83 | 2.12 | 83.60 | 101.91 | 96.00 | | | |
| Max. | 1.05 | 4.75 | 99.10 | 105.60 | 125.00 | | | |
| Min. | 0.60 | 0.65 | 11.60 | 96.00 | 21.00 | | | |
| Discharge Nos. | 1201,1202<br>1203 | 1220,1221<br>1222 | 262,263<br>264,299 | 220,221<br>222,223 | 254,255<br>367,368 | | | |

TABLE 7: 12R STORAGE FOR SIX MONTHS

| Discharge Load | Discharge Temperatures °F | | | | | |
|---|---|---|---|---|---|---|
| | 40 | 70 | 115 | 160 | 200 | 250 |
| 5 Hour Rate 3.3 Ohms | | | | | | |
| 6 Mo. @ -20°F | | | | | | |
| Mean | 0.21 | 7.15 | 9.78 | 10.37 | 4.67 | 7.19 |
| Med | 0.20 | 6.99 | 9.75 | 10.32 | 3.97 | 6.88 |
| Max | 0.40 | 9.00 | 10.95 | 11.25 | 8.45 | 9.95 |
| Min | 0.10 | 5.85 | 8.85 | 9.20 | 1.85 | 3.90 |
| Discharge Nos | 716,717 718,719 | 652,662 663,664 | 677,678 679,680 | 646,647 648,649 | 733,734 735,736 | 1030,1031 1032,1033 |
| 6 mo. @ 20°F | | | | | | |
| Mean | 0.35 | 5.27 | 9.70 | 9.88 | 2.25 | 6.00 |
| Med | 0.33 | 5.24 | 9.65 | 9.76 | 2.03 | 5.37 |
| Max | 0.60 | 7.50 | 11.00 | 10.90 | 6.50 | 10.30 |
| Min | 0.20 | 1.25 | 8.25 | 9.20 | 1.10 | 2.25 |
| Discharge Nos | 739,740 741,742 | 835,836 837,838 | 726,727, 728,729 | 689,690, 691,692 | 790,791, 792,793 | 1044,1045 1046,1047 |
| 6 mo. @ 70°F | | | | | | |
| Mean | 0.08 | 4.98 | 9.13 | 9.63 | 3.23 | 5.07 |
| Med | 0.10 | 5.36 | 9.36 | 9.62 | 2.23 | 4.93 |
| Max | 0.20 | 7.40 | 10.55 | 10.20 | 7.70 | 7.60 |
| Min | 0.05 | 0.35 | 5.40 | 9.15 | 1.60 | 3.95 |
| Discharge Nos | 444,445 567,774,775 | 377,383 525,870 871 | 407,408 506,737,738 | 409,410 515,720,721 | 523,524,570 776,777 | 1015,1016 1017,1018 |
| 6 mo. @ 115°F | | | | | | |
| Mean | 0.18 | 0.35 | 8.42 | 8.79 | 6.07 | 2.77 |
| Med | 0.17 | 0.35 | 8.25 | 8.92 | 8.70 | 3.00 |
| Max | 0.25 | 0.50 | 10.25 | 10.20 | 9.65 | 6.70 |
| Min | 0.10 | 0.25 | 7.75 | 2.80 | 1.05 | 1.40 |
| Discharge Nos | 751,752, 753,754 | 1028, 1029 | 747,748, 749,750 | 722,723,724 725,743,744 | 784,785 | 1037,1038 |

## TABLE 8: ONE AND SIX MONTH CYCLIC STORAGE OF 12R TYPE CELL

| | | | | |
|---|---|---|---|---|
| Storage Temperature | | Cyclic 0°-130° | | 70° |
| Storage Time | | 1 Month | 6 Months | Initial |
| Load in Ohms | | 4.7 | 4.7 | 4.7 |
| 70°F Rate | | 10 Hr | 10 Hr | 10 Hr |
| Discharge Nos. | | 235,236, 238,239 | 385,386, 387,388 | 51,57,58 |
| Number of Cells | | 24 | 24 | 15 |
| Hours to 0.90 Volt | Mean | 11.20 | 5.7 | 11.65 |
| | Med | 11.15 | 6.9 | 11.51 |
| | Max | 14.40 | 10.5 | 13.67 |
| | Min | 9.10 | 0.2 | 10.80 |

TABLE 9: SUMMARY OF INITIAL DISCHARGE OF TYPE 42R CELL

| Load in Ohms | Temperature of Discharge, °F. | Hours to 0.90 Volt | | | | Discharge Numbers |
|---|---|---|---|---|---|---|
| | | Mean | Median | Maximum | Minimum | |
| 0.68 | 70 | 1.17 | 0.21 | 5.65 | 0.10 | 494,942,943 |
| | 115 | 6.29 | 6.12 | 7.45 | 5.30 | 1034,1035,1036 |
| | 160 | 9.14 | 8.93 | 11.05 | 7.10 | 1091,1092,1093 |
| | 200 | 8.10 | 7.66 | 10.30 | 6.35 | 952,953,954 |
| 0.75 | -20 | Less than 0.02 | | | | 864, 865, 866 |
| | 20 | Less than 0.02 | | | | 878, 879, 880 |
| | 40 | 0.06 | 0.05 | 0.10 | 0.05 | 1135,1136,1137 |
| | 55 | | | | | |
| | 70 | 5.42 | 5.16 | 12.55 | 3.80 | 490, 493, 839 |
| | 115 | 6.22 | 6.17 | 7.35 | 5.25 | 781, 782, 783 |
| | 160 | 9.70 | 9.74 | 10.40 | 9.00 | 745, 746, 766 |
| | 200 | 9.74 | 9.95 | 10.55 | 9.15 | 808, 809, 840 |
| 1.2 | 20 | 0.11 | 0.10 | 0.15 | 0.10 | 425, 426, 448 |
| | 40 | 0.11 | 0.10 | 0.20 | 0.05 | 423, 424, 449 |
| | 55 | | | | | |
| | 70 | 9.60 | 9.47 | 10.90 | 7.80 | 32, 33, 40, 41 |
| | 115 | 15.53 | 15.15 | 19.50 | 14.55 | 403, 404, 450 |
| | 160 | 15.90 | 15.80 | 17.00 | 15.10 | 451, 462, 463 |
| | 200 | 13.73 | 14.12 | 15.05 | 11.05 | 460, 461, 714 |
| 1.8 | 20 | 0.13 | 0.13 | 0.20 | 0.10 | 464, 598, 599 |
| | 40 | 0.14 | 0.12 | 0.20 | 0.10 | 433, 434, 465 |
| | 55 | | | | | |
| | 70 | 15.27 | 15.32 | 16.70 | 11.80 | 36, 37, 45, 46 |
| | 115 | 23.61 | 23.60 | 24.50 | 22.40 | 442, 443, 466 |
| | 160 | 23.37 | 23.32 | 24.70 | 22.30 | 467, 468, 469 |
| | 200 | 18.49 | 18.28 | 22.10 | 15.50 | 596, 597, 715 |

(CONTD) TABLE 9: SUMMARY OF INITIAL DISCHARGE OF TYPE 42R CELL

| Load in Ohms | Temperature of Discharge, °F. | Hours to 0.90 Volt | | | | Discharge Numbers |
|---|---|---|---|---|---|---|
| | | Mean | Median | Maximum | Minimum | |
| 2.2 | -20 | 0.02 | 0.02 | 0.10 | 0.00 | 765, 769, 789 |
| | 0 | 0.12 | 0.10 | 0.25 | 0.05 | 903, 904, 905 |
| | 20 | 0.14 | 0.14 | 0.20 | 0.00 | 767, 768, 713 |
| | 40 | 1.79 | 0.66 | 12.60 | 0.15 | 470, 471, 472 |
| | 55 | | | | | |
| | 70 | 24.82 | 24.70 | 27.50 | 22.10 | 431, 446, 447 |
| | 115 | 28.50 | 28.23 | 29.30 | 26.40 | 417, 418, 441 |
| | 160 | 28.38 | 28.50 | 30.80 | 26.80 | 419, 420, 440 |
| | 200 | 22.35 | 22.92 | 26.50 | 15.90 | 421, 422, 595 |
| 3.3 | -20 | 0.13 | 0.15 | 0.15 | 0.10 | 936, 937, 938 |
| | 0 | 0.21 | 0.21 | 0.30 | 0.15 | 888, 889, 890 |
| | 20 | 0.24 | 0.23 | 0.35 | 0.15 | 906, 907, 908 |
| | 40 | 1.52 | 1.55 | 3.10 | 0.45 | 927, 928, 929 |
| | 55 | | | | | |
| | 70 | 42.45 | 41.37 | 51.10 | 38.75 | 881, 882, 883 |
| | 115 | 42.41 | 41.81 | 48.55 | 40.30 | 884, 885, 886 |
| | 160 | 41.10 | 41.08 | 43.75 | 39.20 | 1159,1160,1161 |
| | 200 | 35.79 | 36.67 | 41.70 | 28.45 | 909, 910, 911 |
| 4.7 | -20 | 0.30 | 0.30 | 0.35 | 0.25 | 979, 980, 981 |
| | 0 | 0.36 | 0.36 | 0.50 | 0.25 | 1125,1126,1127 |
| | 20 | 0.78 | 0.69 | 1.60 | 0.50 | 982, 983, 984 |
| | 40 | 20.60 | 19.49 | 32.60 | 10.75 | 1025,1026,1027 |
| | 55 | | | | | |
| | 70 | 59.26 | 58.58 | 65.00 | 56.55 | 832, 833, 834 |
| | 115 | 59.24 | 57.00 | 64.05 | 55.80 | 778, 779, 780 |
| | 160 | 56.81 | 56.60 | 62.30 | 50.85 | 1162,1163,1164 |
| | 200 | 48.97 | 48.54 | 57.00 | 43.20 | 912, 913, 914 |

(CONTD) TABLE 9: SUMMARY OF INITIAL DISCHARGE OF TYPE 42R CELL

| Load in Ohms | Temperature of Discharge, °F. | Hours to 0.9 Volt | | | | Discharge Numbers |
|---|---|---|---|---|---|---|
| | | Mean | Median | Maximum | Minimum | |
| 8.2 | -20 | 0.41 | 0.39 | 0.45 | 0.25 | 401, 402, 640 |
| | 0 | 0.73 | 0.75 | 0.85 | 0.45 | 1022,1023,1024 |
| | 20 | 4.30 | 3.95 | 6.70 | 2.25 | 437, 438, 474 |
| | 40 | 56.49 | 56.92 | 65.40 | 48.30 | 435, 436, 473 |
| | 55 | | | | | |
| | 70 | 98.36 | 96.80 | 100.60 | 80.30 | 38, 39, 47, 48 |
| | 115 | 99.25 | 98.96 | 104.50 | 95.50 | 452, 453, 475 |
| | 160 | 93.74 | 94.56 | 97.60 | 87.10 | 439, 454, 455, 477 |
| | 200 | 88.70 | 88.72 | 94.70 | 72.00 | 456, 457, 478 |
| 15.0 | -20 | 1.46 | 1.48 | 1.69 | 1.30 | 1019,1020,1021 |
| | 0 | 1.94 | 1.89 | 2.55 | 1.50 | 1079,1080,1081 |
| | 20 | 51.42 | 60.56 | 101.30 | 18.45 | 924, 925, 926 |
| | 40 | 180.74 | 186.30 | 197.70 | 151.75 | 875, 876, 877 |
| | 55 | | | | | |
| | 70 | 193.46 | 191.03 | 201.70 | 188.00 | 872, 873, 874 |

## TABLE 10: EMF READINGS OF TYPE 42R CELL

| EMF READINGS IN VOLTS | Distribution of EMF Readings Months of Storage at 70°F | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1.3580-1.3584 | | | | | | | | | | | | | |
| 1.3575-1.3579 | | | | | | | | | | | | | |
| 1.3570-1.3574 | 3 | 3 | | | | | | | | | | | |
| 1.3565-1.3569 | 20 | 24 | 11 | | | | 2 | | | | | | |
| 1.3560-1.3564 | 20 | 14 | 21 | 17 | 15 | 21 | 14 | | | | | | |
| 1.3555-1.3559 | 1 | 4 | 12 | 19 | 20 | 16 | 23 | 3 | 2 | 1 | | | |
| 1.3550-1.3554 | 5 | 3 | 2 | 9 | 10 | 7 | 5 | 16 | 15 | 11 | | | |
| 1.3545-1.3549 | 1 | 1 | 3 | 2 | 2 | 3 | 3 | 19 | 20 | 22 | | | 4 |
| 1.3540-1.3544 | | | 1 | 3 | 3 | 2 | 2 | 7 | 7 | 10 | | | 24 |
| 1.3535-1.3539 | | | | | 1 | 1 | 1 | 2 | 3 | 2 | | | 22 |
| 1.3530-1.3534 | | | | | | | | 2 | 2 | 3 | | | 5 |
| 1.3525-1.3529 | | | | | | | | 1 | 1 | 1 | | | 3 |
| 1.3520-1.3524 | | | | | | | | | | | | | 2 |
| 1.3515-1.3519 | | | | | | | | | | | | | |

Note: No readings were made during the 10th and 11th months because the storage was not 70°F.

TABLE 11: SUMMARY OF INITIAL DISCHARGE OF TYPE 640R CELL

| Load in Ohms | Temperature of Discharge, °F. | Hours to 0.90 Volt | | | | Discharge Numbers |
|---|---|---|---|---|---|---|
| | | Mean | Median | Maximum | Minimum | |
| 18 | 20 | 0.13 | 0.12 | 0.35 | 0.05 | 698, 699, 700 |
| | 40 | 0.12 | 0.12 | 0.20 | 0.05 | 583, 696, 697 |
| | 55 | | | | | |
| | 70 | 1.39 | 0.88 | 4.80 | 0.30 | 485, 572, 573 |
| | 115 | 9.38 | 9.31 | 10.50 | 8.55 | 577, 578, 819 |
| | 160 | 8.99 | 8.76 | 13.45 | 7.40 | 681, 682, 683 |
| | 200 | 8.32 | 8.26 | 9.50 | 7.05 | 813, 814, 815 |
| 22 | 20 | 0.05 | 0.05 | 0.10 | 0.00 | 617, 618, 619 |
| | 40 | 0.15 | 0.14 | 0.45 | 0.05 | 600, 602, 603 |
| | 55 | | | | | |
| | 70 | 4.65 | 4.20 | 6.50 | 0.60 | 486, 496, 574 |
| | 115 | 11.29 | 11.20 | 12.20 | 10.70 | 579, 580, 604 |
| | 160 | 10.50 | 10.64 | 12.20 | 8.20 | 581, 582, 605 |
| | 200 | 10.16 | 10.27 | 11.05 | 8.40 | 850, 851, 852 |
| 27 | 20 | 0.14 | 0.15 | 0.20 | 0.10 | 610, 611, 612 |
| | 40 | 0.27 | 0.21 | 0.55 | 0.10 | 613, 614, 615 |
| | 55 | | | | | |
| | 70 | 8.39 | 8.99 | 12.80 | 1.45 | 487, 495, 616 |
| | 115 | 13.59 | 13.51 | 14.50 | 12.70 | 629, 630, 631 |
| | 160 | 11.38 | 11.75 | 12.95 | 8.95 | 626, 627, 628 |
| | 200 | 11.52 | 12.08 | 13.85 | 2.70 | 861, 862, 863 |
| 39 | 0 | 0.12 | 0.12 | 0.15 | 0.10 | 826, 827, 828 |
| | 20 | 0.21 | 0.19 | 0.50 | 0.05 | 693, 694, 695 |
| | 40 | 0.62 | 0.59 | 1.10 | 0.40 | 650, 651, 887 |
| | 55 | | | | | |
| | 70 | 17.63 | 17.80 | 20.40 | 15.20 | 501, 673, 674 |
| | 115 | 19.28 | 18.93 | 21.45 | 17.35 | 623, 624, 625 |
| | 160 | 16.97 | 18.94 | 19.85 | 10.45 | 620, 621, 622 |
| | 200 | 17.87 | 18.44 | 20.35 | 4.25 | 996, 997, 998 |

(CONTD) TABLE 11: SUMMARY OF INITIAL DISCHARGE OF TYPE 640R CELL

| Load in Ohms | Temperature of Discharge, °F. | Hours to 0.90 Volt Mean | Median | Maximum | Minimum | Discharge Numbers |
|---|---|---|---|---|---|---|
| 47 | 0 | 0.11 | 0.10 | 0.20 | 0.10 | 841, 842, 843 |
| | 20 | 0.20 | 0.18 | 0.30 | 0.10 | 657, 658, 659 |
| | 40 | 1.11 | 1.14 | 1.80 | 0.55 | 632, 633, 634 |
| | 55 | | | | | |
| | 70 | 21.29 | 21.04 | 23.70 | 18.70 | 502, 671, 672 |
| | 115 | 22.60 | 22.65 | 24.75 | 19.75 | 589, 590, 591 |
| | 160 | 21.17 | 22.49 | 24.10 | 15.50 | 592, 593, 594 |
| | 200 | 20.23 | 22.51 | 23.40 | 5.70 | 675, 676, 955 |
| 68 | -20 | 0.25 | 0.25 | 0.30 | 0.20 | 1138,1139,1140 |
| | 0 | 0.35 | 0.34 | 0.50 | 0.25 | 867, 868, 869 |
| | 20 | 0.52 | 0.53 | 0.75 | 0.30 | 802, 803, 804 |
| | 40 | 1.83 | 1.63 | 5.15 | 0.85 | 897, 898, 899 |
| | 55 | | | | | |
| | 70 | 33.84 | 33.94 | 35.50 | 31.25 | 1012,1013,1014 |
| | 115 | 31.03 | 31.93 | 33.50 | 25.70 | 816, 817, 818 |
| | 160 | 29.78 | 31.42 | 33.20 | 20.75 | 1111,1112,1113 |
| | 200 | 30.63 | 31.92 | 35.05 | 21.95 | 918, 919, 920 |
| 100 | -20 | 0.44 | 0.43 | 0.70 | 0.30 | 1098,1099,1100 |
| | 0 | 0.53 | 0.55 | 0.70 | 0.35 | 894, 895, 896 |
| | 20 | 1.44 | 1.13 | 4.15 | 0.35 | 805, 806, 807 |
| | 40 | 3.92 | 3.55 | 7.25 | 2.05 | 900, 901, 902 |
| | 55 | | | | | |
| | 70 | 49.95 | 49.71 | 52.35 | 48.00 | 921, 922, 923 |
| | 115 | 45.46 | 46.44 | 52.40 | 31.10 | 823, 824, 825 |
| | 160 | 30.75 | 33.43 | 48.75 | 12.35 | 891,892,893,1134 |
| | 200 | 41.48 | 45.05 | 52.75 | 14.90 | 820, 821, 822 |

(CONTD) TABLE 11: SUMMARY OF INITIAL DISCHARGE OF TYPE 640R CELL

| Load in Ohms | Temperature of Discharge, °F. | Hours to 0.90 Volt | | | | Discharge Numbers |
|---|---|---|---|---|---|---|
| | | Mean | Median | Maximum | Minimum | |
| 180 | -20 | 0.77 | 0.75 | 1.00 | 0.55 | 786, 787, 788 |
| | 0 | 1.24 | 1.21 | 2.15 | 0.65 | 829, 830, 831 |
| | 20 | 4.85 | 4.44 | 10.15 | 1.65 | 586, 587, 588 |
| | 40 | 41.54 | 43.26 | 73.35 | 11.45 | 730, 731, 732 |
| | 55 | | | | | |
| | 70 | 79.87 | 83.82 | 95.20 | 78.80 | 504, 529, 530 |
| | 115 | 75.07 | 78.29 | 88.35 | 52.00 | 551, 562, 584 |
| | 160 | 72.47 | 75.28 | 88.85 | 47.05 | 563, 564, 585 |
| | 200 | 69.54 | 70.93 | 85.90 | 49.35 | 660, 661, 755 |

## TABLE 12: EMF READING OF TYPE 640R CELLS

| EMF READING IN VOLTS | Distribution of EMF Readings Months of Storage at 70°F | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1.3570-1.3574 | 1 | | | | | | | | | |
| 1.3565-1.3569 | 8 | | | | | | | | | |
| 1.3560-1.3564 | 18 | 2 | | 1 | | | | | | |
| 1.3555-1.3559 | 7 | 11 | 2 | 3 | | | | | | |
| 1.3550-1.3554 | 11 | 25 | 19 | 19 | | | | | | |
| 1.3545-1.3549 | 2 | 8 | 20 | 16 | 2 | | | | | |
| 1.3540-1.3544 | 2 | 2 | 5 | 8 | 8 | 4 | | | | |
| 1.3535-1.3539 | 1 | 0 | 3 | 2 | 19 | 6 | 2 | | | |
| 1.3530-1.3534 | | 1 | 0 | 0 | 11 | 15 | 4 | | | |
| 1.3525-1.3529 | | 1 | 0 | 0 | 5 | 13 | 15 | | | 1 |
| 1.3520-1.3524 | | | 1 | 1 | 3 | 5 | 13 | | | 2 |
| 1.3515-1.3519 | | | | 1 | 0 | 3 | 8 | | | 6 |
| 1.3510-1.3514 | | | | | 0 | 1 | 5 | | | 11 |
| 1.3505-1.3509 | | | | | 1 | 0 | 1 | | | 10 |
| 1.3500-1.3504 | | | | | 0 | 2 | 0 | | | 10 |
| 1.3495-1.3499 | | | | | 1 | 0 | 0 | | | 3 |
| 1.3490-1.3494 | | | | | | 0 | 0 | | | 4 |
| 1.3485-1.3489 | | | | | | 0 | 1 | | | 1 |
| 1.3480-1.3484 | | | | | | 1 | 0 | | | 0 |
| 1.3475-1.3479 | | | | | | | 0 | | | 0 |
| 1.3470-1.3474 | | | | | | | 0 | | | 0 |
| 1.3465-1.3469 | | | | | | | 1 | | | 1 |
| 1.3460-1.3464 | | | | | | | | | | 0 |
| 1.3455-1.3459 | | | | | | | | | | 0 |
| 1.3420-1.3424 | | | | | | | | | | 1 |

Notes: No readings were made during the 7th and 8th months because the storage was not 70°F.

TABLE 13: 64OR STORAGE FOR ONE MONTH AT 160°F

| | Discharge Temperature in °F. | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Discharge Loads | -20° | 0° | 40° | 70° | 115° | 160° | 200° | 250° |
| 10 Hour Rate | 27 ohms | 27 ohms | 27 ohms | 27 ohms | 27 ohms | 27 ohms | 27 ohms | 27 ohms |
| 20 Hour Rate | 47 ohms | 47 ohms | 47 ohms | 47 ohms | 47 ohms | 47 ohms | 47 ohms | 47 ohms |
| 100 Hour Rate | 180 ohms | 180 ohms | 180 ohms | 180 ohms | 180 ohms | 180 ohms | 180 ohms | 180 ohms |
| **10 Hour Rate** | | | | | | | | |
| Mean | | | 0.47 | 6.38 | 12.50 | 11.84 | 7.29 | 4.65 |
| Med | | | 0.42 | 7.42 | 12.47 | 12.12 | 9.44 | 4.05 |
| Max | | | 0.75 | 9.05 | 13.85 | 13.90 | 13.05 | 12.45 |
| Min | | | 0.30 | 1.05 | 11.25 | 2.55 | 1.70 | 3.15 |
| Discharge Nos. | | | 1204, 1205 | 1064,1065 1066,1067 | 1087,1088 1089 1090 | 1141,1142 1143,1144 | 1169,1170 1190,1191 | 1075,1076 1077,1078 |
| **20 Hour Rate** | | | | | | | | |
| Mean | | 0.30 | 1.75 | 21.14 | 21.81 | 13.77 | 6.50 | |
| Med | | 0.29 | 1.92 | 21.91 | 21.85 | 14.99 | 5.45 | |
| Max | | 0.45 | 2.20 | 24.30 | 23.40 | 24.35 | 21.40 | |
| Min | | 0.20 | 1.15 | 17.20 | 19.60 | 2.85 | 3.65 | |
| Discharge Nos | | 1210,1211 | 1171,1172 1173 | 1147,1148 1149,1150 | 1121, 1122,1123 | 1176,1177 1178,1179 | 1196,1197 1206,1207 | |
| **100 Hour Rate** | | | | | | | | |
| Mean | 1.44 | 2.46 | 25.09 | 78.80 | 77.89 | | | |
| Med | 1.43 | 2.44 | 23.16 | 79.60 | 78.74 | | | |
| Max | 1.90 | 3.65 | 48.95 | 86.80 | 87.00 | | | |
| Min | 0.85 | 1.60 | 12.65 | 72.05 | 66.40 | | | |
| Discharge Nos | 1208, 1209 | 1180,1181 1182 | 1155,1156 1157,1158 | 1068,1069 1070,1071 | 1151,1152 1153,1154 | | | |

TABLE 34: 64OR STORAGE FOR TWO MONTHS AT 160°F.

| Discharge Loads | Discharge Temperature in °F. | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -20° | 0° | 40° | 70° | 115° | 160° | 200° | 250° |
| 10 Hour Rate | 27 ohms | 27 ohms | 27 ohms | 27 ohms | 27 ohms | 27 ohms | 27 ohms | 27 ohms |
| 20 Hour Rate | 47 ohms | 47 ohms | 47 ohms | 47 ohms | 47 ohms | 47 ohms | 47 ohms | 47 ohms |
| 100 Hour Rate | 180 ohms | 180 ohms | 180 ohms | 180 ohms | 180 ohms | 180 ohms | 180 ohms | 180 ohms |
| **10 Hour Rate** | | | | | | | | |
| Mean | | | 0.63 | 3.76 | 12.09 | 11.61 | | |
| Med | | | 0.45 | 5.02 | 12.17 | 11.70 | | |
| Max | | | 0.95 | 5.60 | 12.80 | 12.70 | | |
| Min | | | 0.35 | 1.15 | 11.45 | 10.50 | | |
| Discharge Nos | | | 1212 | 1106,1213 | 1214 | 1223 | | |
| **20 Hour Rate** | | | | | | | | |
| Mean | | 0.29 | 1.74 | 20.33 | 20.78 | 15.47 | 6.44 | |
| Med | | 0.32 | 1.72 | 19.69 | 20.87 | 20.17 | 6.52 | |
| Max | | 0.40 | 2.40 | 22.65 | 21.50 | 22.45 | 8.30 | |
| Min | | 0.10 | 1.45 | 17.45 | 19.55 | 19.55 | 4.20 | |
| Discharge Nos | | 1224 | 1215 | 1194,1195 | 1216 | 1225 | 1226 | |
| **100 Hour Rate** | | | | | | | | |
| Mean | 1.11 | 2.54 | 20.44 | 81.40 | 73.31 | | | |
| Med | 1.45 | 1.90 | 22.00 | 81.52 | 76.10 | | | |
| Max | 1.65 | 5.10 | 29.40 | 84.75 | 79.80 | | | |
| Min | 0.20 | 1.75 | 11.80 | 76.25 | 58.10 | | | |
| Discharge Nos | 1217 | 1227 | 1218 | 1192,1193 | 1219 | | | |

TABLE 15: ONE-MONTH CYCLIC STORAGE OF 64OR TYPE CELL

| | | | |
|---|---|---|---|
| Storage Temperature | | Cyclic 0°-130°F | 70° |
| Storage Time | | 1 Month | Initial |
| Load in Ohms | | 27 | 27 |
| 70°F Rate | | 10 Hr | 10 Hr |
| Discharge Nos. | | 531, 532, 533, 534 | 487,495,616 |
| Number of Cells | | 24 | 15 |
| Hours | Mean | 6.2 | 8.4 |
| to | Med | 7.4 | 9.0 |
| 0.90 | Max | 8.4 | 12.8 |
| Volt | Min | 1.4 | 1.5 |

TABLE 16: CONDITION OF 12R AND 640R CELLS AFTER STORAGE AT VARIOUS TEMPERATURES

| Type | Storage Temp. | Length of Storage | Total Stored | Number Defective |
|---|---|---|---|---|
| 12R | 160° | 1 Mo. | 234 | 0 |
| 12R | 160 | 2 Mo. | 360 | 0 |
| 12R | 160 | 3 Mo. | 833 | 524 |
| 12R | 115 | 3 Mo. | 408 | 0 |
| 12R | 115 | 6 Mo. | 150 | 17 |
| 12R | -20 | 6 Mo. | 150 | 1 |
| 12R | 20 | 6 Mo. | 156 | 2 |
| 640R | 160 | 1 Mo. | 400 | 41 |
| 640R | 160 | 2 Mo. | 400 | 258 |

## TABLE NO. 17: COEFFICIENT OF VARIATION

## FOR INITIAL DISCHARGE OF 12R CELL

| Load | Discharge Temperature -20°F | 0°F | 20°F | 40°F | 70°F |
|---|---|---|---|---|---|
| 2.7 | | | | | V 72.7%<br>X 1.54 hrs<br>Max 3.30 hrs<br>Min 0.10 hrs |
| 3.3 | | | | | V 38.0%<br>X 4.88 hrs<br>Max 6.5 hrs<br>Min 3.0 hrs |
| 4.7 | | | V 26.9%<br>X 0.20 hrs<br>Max 0.30 hrs<br>Min 0.15 hrs | V 63.0%<br>X 0.33 hrs<br>Max 0.75 hrs<br>Min 0.05 hrs | V 5.92%<br>X 11.65 hrs<br>Max 13.67 hrs<br>Min 10.80 hrs |
| 8.2 | | | V 19.4%<br>X 0.21 hrs<br>Max 0.30 hrs<br>Min 0.15 hrs | V 87.6%<br>X 0.68 hrs<br>Max 2.15 hrs<br>Min 0.05 hrs | V 2.17%<br>X 23.5 hrs<br>Max 24.20 hrs<br>Min 22.30 hrs |
| 12 | 13.0%<br>X 0.22 hrs<br>Max 0.25 hrs<br>Min 0.15 hrs | V 6.28%<br>X 0.38 hrs<br>Max 0.75 hrs<br>Min 0.20 hrs | V 4.68%<br>X 0.64 hrs<br>Max 1.70 hrs<br>Min 0.20 hrs | V 31.2%<br>X 10.21 hrs<br>Max 18.40 hrs<br>Min 5.95 hrs | V 3.25%<br>X 36.6 hrs<br>Max 39.4 hrs<br>Min 34.7 hrs |
| 33 | V 17.1%<br>X 0.86 hrs<br>Max 1.15 hrs<br>Min 0.50 hrs | V 62.6%<br>X 2.79 hrs<br>Max 6.30 hrs<br>Min 1.05 hrs | V 30.3%<br>X 8.62 hrs<br>Max 15.00 hrs<br>Min 4.30 hrs | V 3.17%<br>X 101.9 hrs<br>Max 107.7 hrs<br>Min 97.0 hrs | V 2.85%<br>X 102.1 hrs<br>Max 107.9 hrs<br>Min 97.6 hrs |

V is coefficient of variation
X is test group mean

TABLE 18: CONDITION OF 12R AND 640R

CELLS AFTER STORAGE AT VARIOUS TEMPERATURES

| Type | Storage Temp. | Length of Storage | Total Stored | Number Defective |
|---|---|---|---|---|
| 12R | 160° | 1 mo. | 234 | 0 |
| 12R | 160° | 2 mo. | 360 | 0 |
| 12R | 160° | 3 mo. | 833 | 524 |
| 12R | 115° | 3 mo. | 408 | 0 |
| 12R | -20° | 6 mo. | 150 | 1 |
| 12R | 20° | 6 mo. | 156 | 2 |
| 12R | 115° | 6 mo. | 150 | 17 |
| 640R | 160° | 1 mo. | 400 | 41 |
| 640R | 160° | 2 mo. | 400 | 258 |
| 640R | 160° | 3 mo. | 400 | 380 |

## 5. CONCLUSION

5.1 The aim of the cell test program is to establish a wider range of mercury cell data than has heretofore been available. The limits for the data are set by the practical needs of battery design. Therefore the area of discharge rate and discharge temperature within which useful data is to be obtained should be defined and the Signal Corps Technical Requirement, SCL-6274 should be modified to be compatable with useful test results.

5.1.1 The work to date, in accordance with Signal Corps Technical Requirement, SCL-6274, has yielded data for cell types 12R, 42R and 640R, which is of questionable value for work in battery application. The pattern of test sample dispersion is consistent for these three cell types and in general typical of mercury cell performance.[1] At temperatures below 70°F the cells start to scatter widely in performance. At 70°F the cells scatter in performance at drain rates lower than about ten hours. (See Table Number 17) As much of the requirement of SCL-6274 is for testing at less than the ten-hour rate and at temperatures below 70°F a method is needed to facilitate working from the area of useful cell performance to the edge where it is no longer obtainable.

5.1.2 The coefficient of variation which is related to the scattering of cell performance is considered useful as a measurement of each test sample. It is a non-dimensional ratio of the mean value and the standard deviation of test samples.

(1) The dispersion of service in test samples for 12R cells at 70°F was presented in the conclusion of Report No. 2.

5.1.2.1 The coefficient of variation is expressed as V where,

$$V = \frac{100\sigma}{\bar{X}} \%$$

with, $\sigma$ being the sample standard deviation;

and, $\bar{X}$ the sample mean.

5.2 From examination of the test results on initial discharge of cell types 12R, 42R and 640R, a coefficient of variation less than about ten percent has been calculated for test data considered useful for battery design. This data for the 12R cell is shown in Table Number 17.

5.2.1 When the rate of discharge and the temperature of discharge are within the area of useful cell performance a low coefficient of variation (less than ten percent) is calculated for the sample. As factors contributing to the polarization of the cells on discharge are introduced, the coefficient of variation increased Values of from thirty to eighty percent have been calculated. As the cells drop in service to less than about one hour the test sample coefficient of variation decreases to a low value as the cell efficiency becomes uniformly low.

5.3 To use the coefficient of variation as a technique to limit cell testing through defining the area of useful cell performance requires a definite test procedure. Only by this method will the coefficient of variation be valid for the purpose. Testing as based on Chart No. 1 of SCL-6274 should be started at 70°F at the 100-hour discharge rate. From this known area of useful cell performance the work must proceed in descending order through the specified discharge rates.

The testing should then be stopped when the coefficient of variation becomes greater than ten percent. The work should then return to the 100-hour rate at the temperature of the next lower value. Again the descending order of rates from 100 hours of service should be followed. In similar fashion the entire area of useful cell performance below 100 hours at the different temperatures can be determined.

5.4 The Signal Corps Technical Requirement, SCL-6274 should be revised to include a limiting procedure for initial testing which will confine rates of discharge and temperatures to yield useable mercury battery data. The results of initial testing should then be applied to determine discharge rates for the storage and discharge schedules. Through this approach, the test program could then be accomplished.

## 6 PROGRAM FOR THE NEXT INTERVAL

6.1 The initial discharge of cell types 1R and 625R SCL-6274, Chart No. 1 will be started. Initial discharge will be completed for cell types 12R, 42R and 640R.

6.2 The monthly EMF readings will be continued for the 12R, 42R and 640R cells and started for the 1R and 625R.

6.3 The twelve-month storage and discharge of the 42R cells under Chart No. 6, SCL-6274 will be accomplished.

6.4 The twelve-month storage and discharge of the 12R cells under SCL-6274, Chart No. 2 will be accomplished.

6.5 The six-month storage and discharge of the 640R cells under SCL-6274, Chart 3 will be accomplished.

## 7. IDENTIFICATION OF PERSONNEL

7.1 The work on this contract is under the direct supervision of Richard R. Clune, Chief Engineer, Mallory Battery Company.

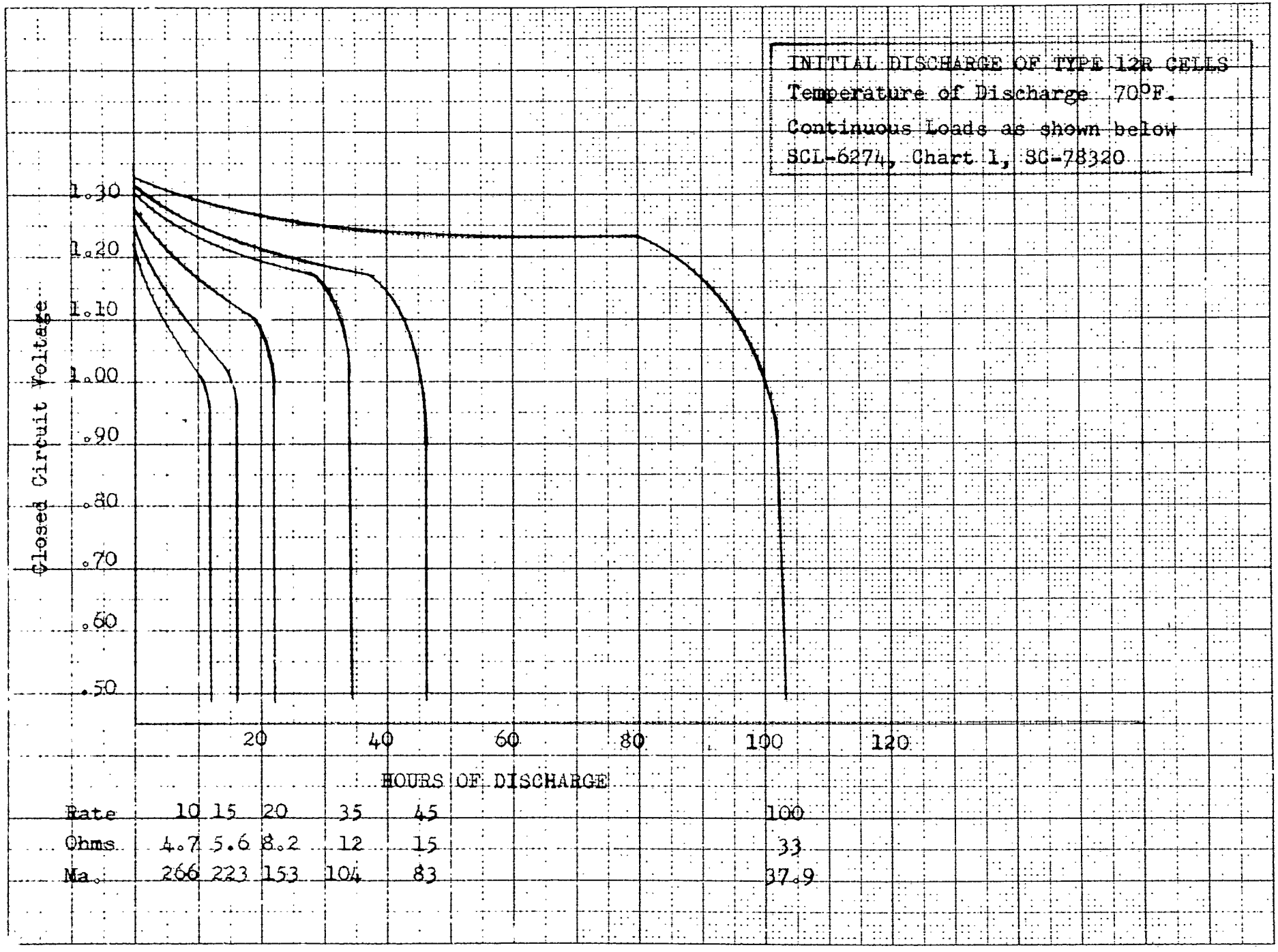
7.2 Individuals and the time they spent on this project during this half are indicated below:

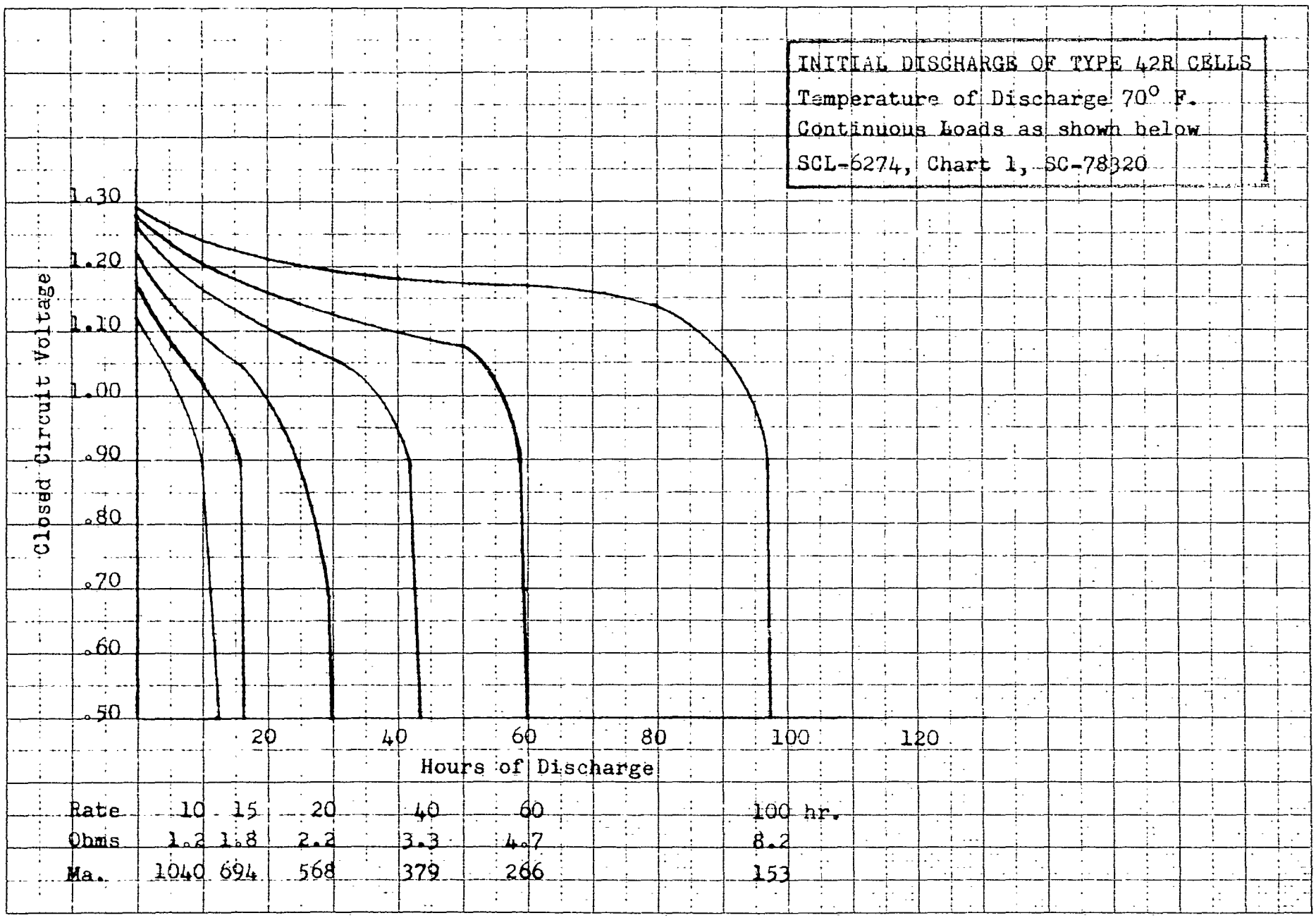
| PERSONNEL | HOURS ON THIS PROJECT THIS HALF |
|---|---|
| R. M. Goodman | |
| Senior Engineer | 494 |
| P. O'Gorman | |
| Laboratory Technician | 414 |
| T. Quattrochi | |
| Laboratory Technician | 894 |
| J. Hutnik | |
| Laboratory Technician | 408 |
| R. Dolfinger | |
| Laboratory Technician | 40 |
| Total | 2250 |

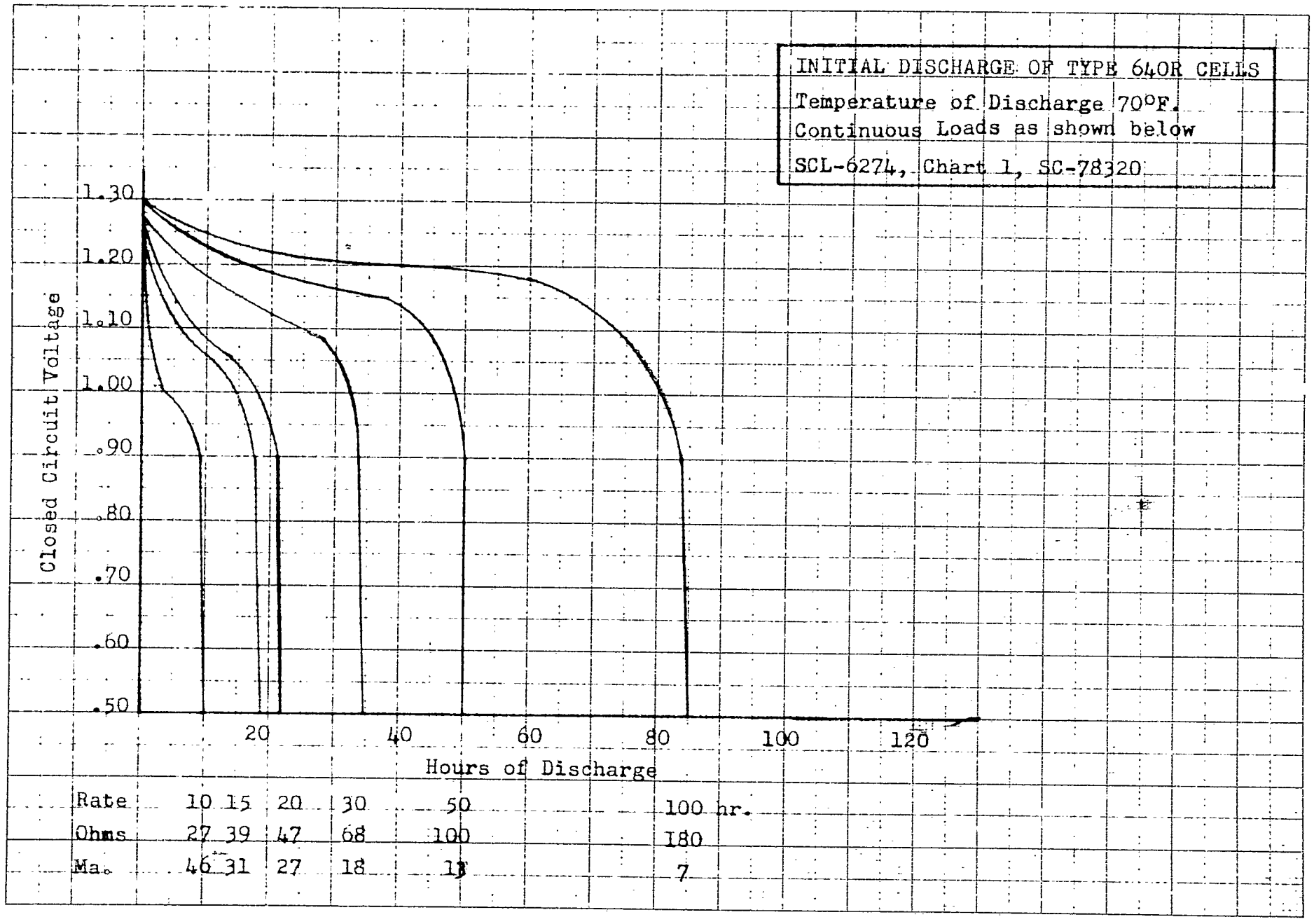
8 **APPENDIX**

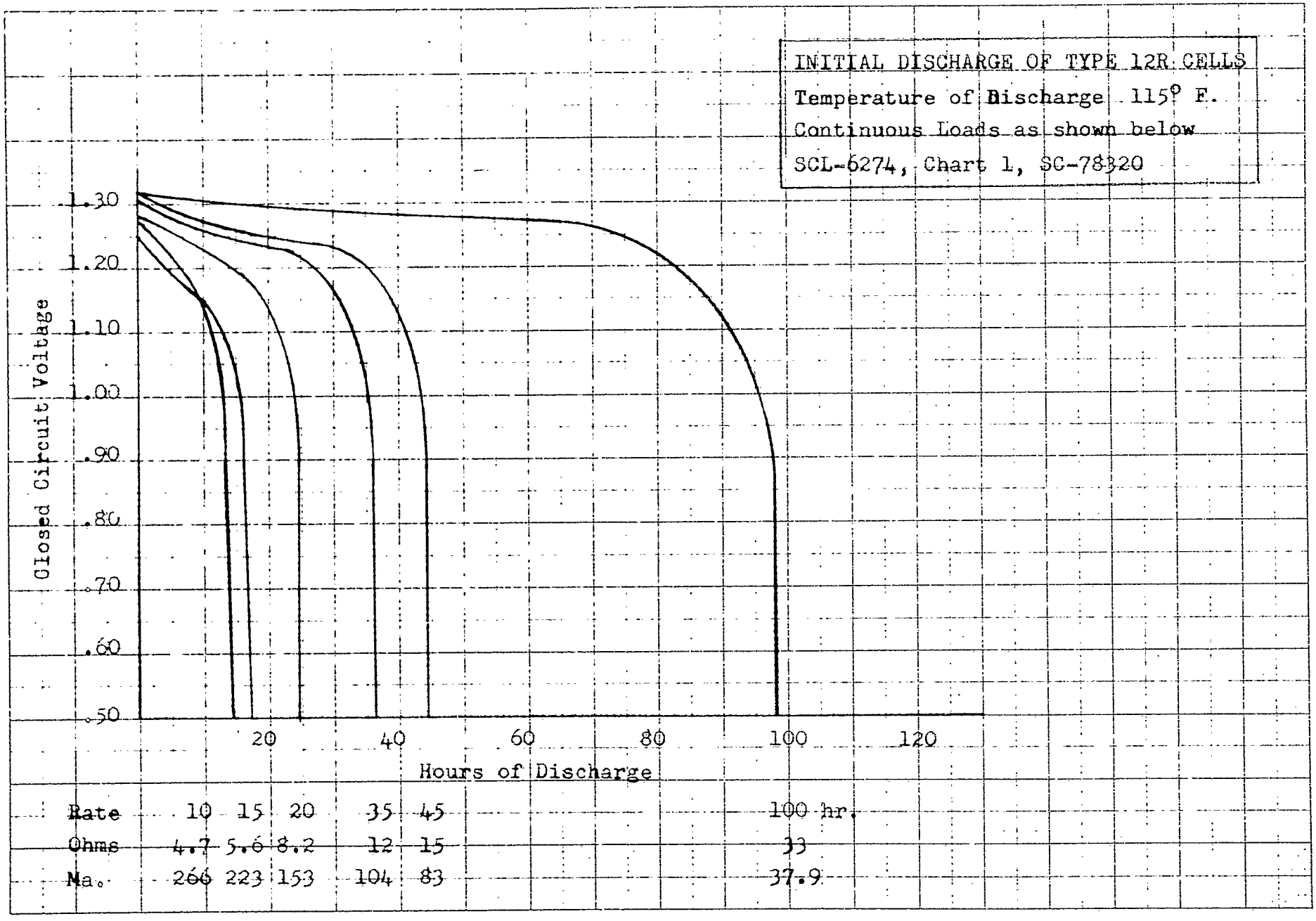

| | | Pages |
|---|---|---|
| 8.1 | Appendix I: Initial Discharge Curves of Cell Types 12R, 42R and 640R at 70°F | 42-44 |
| 8.2 | Appendix II: Initial Discharge Curves of Cell Types 12R, 42R and 640R at 115°F | 45-47 |
| 8.3 | Appendix III: Discharge Tests, Nos 373-1227 | 48-161 |

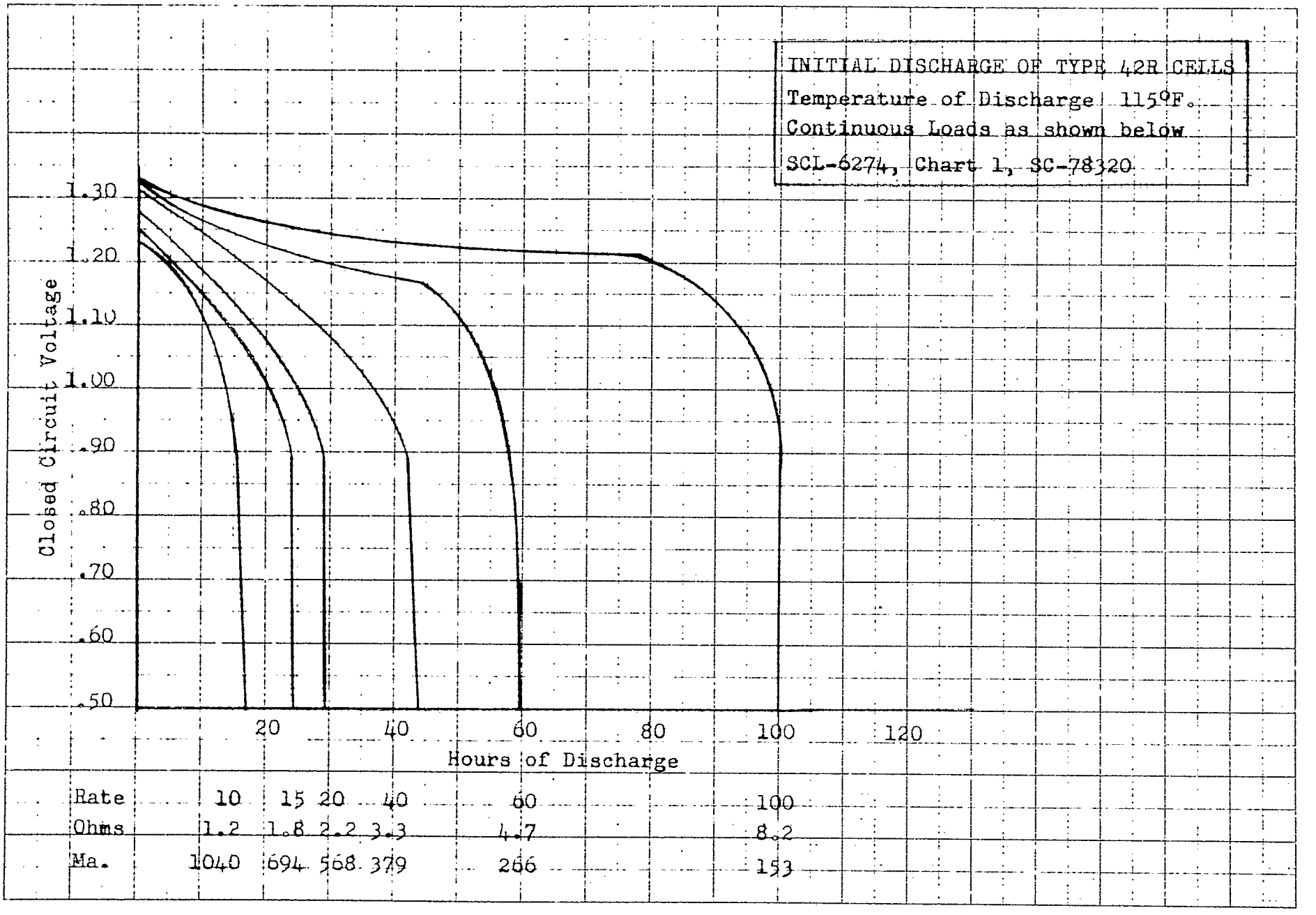
"PRECISE"
TRADE MARK
B. K. ELLIOTT COMPANY PITTSBURGH DETROIT, CLEVELAND

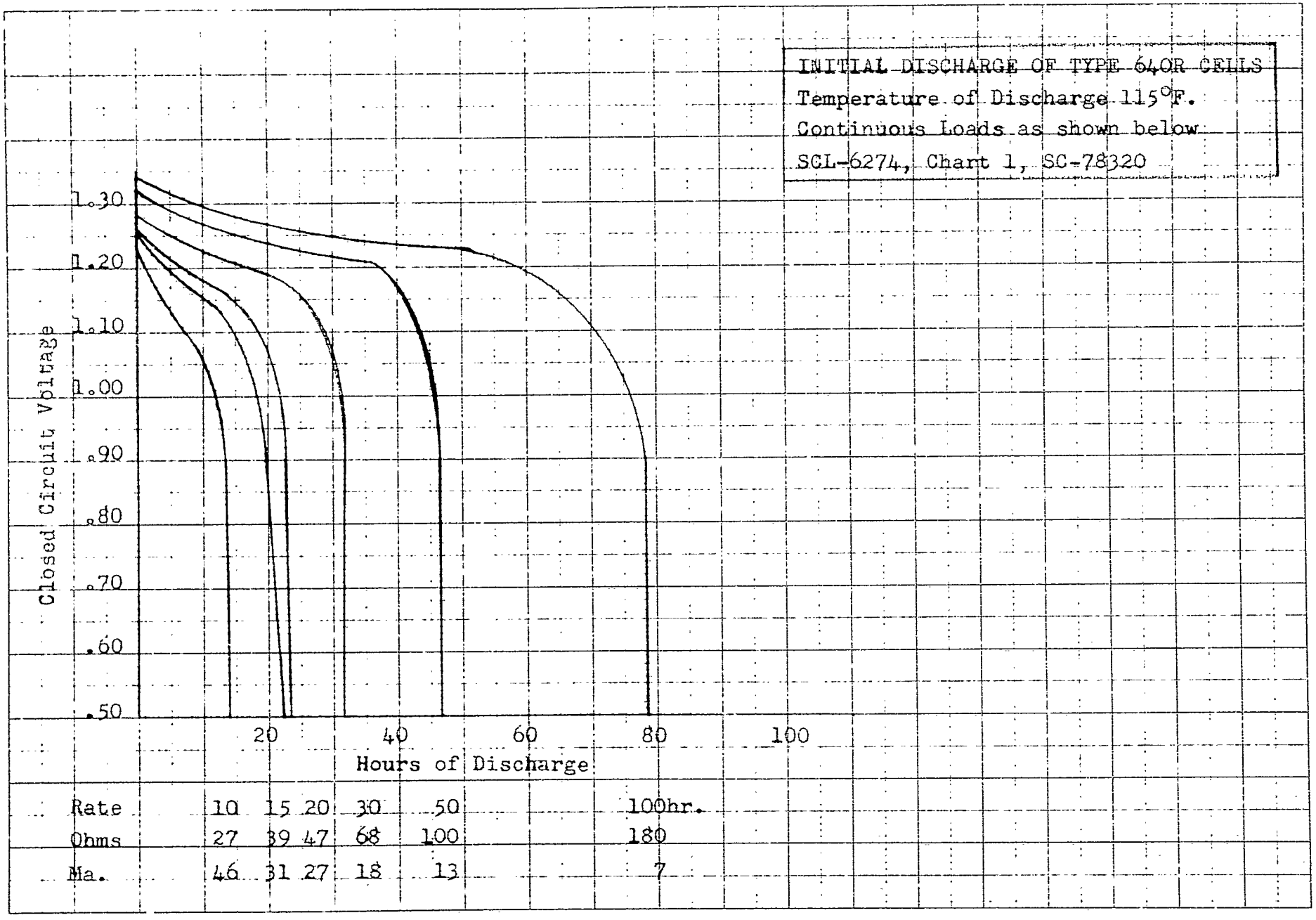



INITIAL DISCHARGE OF TYPE 42R CELLS
Temperature of Discharge 70° F.
Continuous Loads as shown below
SCL-6274, Chart 1, SC-78320
Closed Circuit Voltage
1.30
1.20
1.10
1.00
.90
.80
.70
.60
.50
20
40
60
80
100
120
Hours of Discharge
Rate 10 15 20 40 60 100 hr.
Ohms 1.2 1.8 2.2 3.3 4.7 8.2
Ma. 1040 694 568 379 266 153


INITIAL DISCHARGE OF TYPE 640R CELLS
Temperature of Discharge 70°F.
Continuous Loads as shown below
SCL-6274, Chart 1, SC-78320
Closed Circuit Voltage
1.30
1.20
1.10
1.00
.90
.80
.70
.60
.50
20
40
60
80
100
120
Hours of Discharge
Rate 10 15 20 30 50 100 hr.
Ohms 27 39 47 68 100 180
Ma. 46 31 27 18 13 7


INITIAL DISCHARGE OF TYPE 12R CELLS
Temperature of Discharge 115° F.
Continuous Loads as shown below
SCL-6274, Chart 1, SC-78320
Closed Circuit Voltage
1.30
1.20
1.10
1.00
.90
.80
.70
.60
.50
20
40
60
80
100
120
Hours of Discharge
Rate 10 15 20 35 45 100 hr.
Ohms 4.7 5.6 8.2 12 15 33
Ma. 266 223 153 104 83 37.9


INITIAL DISCHARGE OF TYPE 42R CELLS
Temperature of Discharge 115°F.
Continuous Loads as shown below
SCL-6274, Chart 1, SC-78320
Closed Circuit Voltage
1.30
1.20
1.10
1.00
.90
.80
.70
.60
.50
20
40
60
80
100
120
Hours of Discharge
Rate 10 15 20 40 60 100
Ohms 1.2 1.8 2.2 3.3 4.7 8.2
Ma. 1040 694 568 379 266 153


INITIAL DISCHARGE OF TYPE 640R CELLS
Temperature of Discharge 115°F.
Continuous Loads as shown below
SCL-6274, Chart 1, SC-78320
Closed Circuit Voltage
1.30
1.20
1.10
1.00
.90
.80
.70
.60
.50
20
40
60
80
100
Hours of Discharge
Rate 10 15 20 30 50 100hr.
Ohms 27 39 47 68 100 180
Ma. 46 31 27 18 13 7

## APPENDIX III

| Test Number | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 373 | 12R | 160 | Initial | Chart 1 | |
| 374 | 12R | 160 | Initial | Chart 1 | |
| 375 | 12R | 20 | Initial | Chart 1 | |
| 376 | 12R | 20 | Initial | Chart 1 | |
| 377 | 12R | 70 | Initial | Chart 1 | |
| 378 | 12R | 70 | Initial | Chart 1 | |
| 379 | 12R | 115 | Initial | Chart 1 | |
| 380 | 12R | 115 | Initial | Chart 1 | |
| 381 | 12R | 55 | Initial | Chart 1 | |
| 382 | 12R | 70 | Initial | Chart 1 | |
| 383 | 12R | 70 | Initial | Chart 1 | |
| 384 | 12R | 70 | Initial | Chart 1 | |
| 385 | 12R | 70 | 6 Mo. | Chart 5 | (4) |
| 386 | 12R | 70 | 6 Mo. | Chart 5 | (4) |
| 387 | 12R | 70 | 6 Mo. | Chart 5 | (4) |

(4) Cyclic Storage 0° - 130°F

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms<br>Hrs to 0.9V | 33<br>79.2 | 33<br>72.6 | 33<br>70.0 | 33<br>93.7 | 33<br>97.5 | 33<br>93.7 | 373 |
| ohms<br>Hrs to 0.9V | 33<br>95.7 | 33<br>47.0 | 33<br>86.1 | 33<br>99.0 | 33<br>95.8 | 33<br>101.7 | 374 |
| ohms<br>Hrs to 0.9V | 33<br>7.5 | 33<br>7.2 | 33<br>15.0 | 33<br>6.45 | 33<br>4.3 | 33<br>6.5 | 375 |
| ohms<br>Hrs to 0.9V | 33<br>7.7 | 33<br>12.0 | 33<br>9.5 | 33<br>7.7 | 33<br>8.7 | 33<br>8.7 | 376 |
| ohms<br>Hrs to 0.9V | 3.3<br>0.35 | 3.3<br>5.70 | 3.3<br>5.90 | 3.3<br>6.00 | 3.3<br>6.50 | 3.3<br>5.90 | 377 |
| ohms<br>Hrs to 0.9V | 2.7<br>0.45 | 2.7<br>2.65 | 2.7<br>3.25 | 2.7<br>0.20 | 2.7<br>1.45 | 2.7<br>1.75 | 378 |
| ohms<br>Hrs to 0.9V | 5.6<br>15.4 | 5.6<br>15.9 | 5.6<br>17.2 | 5.6<br>16.7 | 5.6<br>16.8 | 5.6<br>16.8 | 379 |
| ohms<br>Hrs to 0.9V | 5.6<br>16.3 | 5.6<br>16.4 | 5.6<br>15.4 | 5.6<br>16.5 | 5.6<br>16.8 | 5.6<br>16.5 | 380 |
| ohms<br>Hrs to 0.9V | 5.6<br>2.4 | 5.6<br>1.85 | 5.6<br>1.95 | 5.6<br>0.50 | 5.6<br>0.85 | 5.6<br>2.0 | 381 |
| ohms<br>Hrs to 0.9V | 2.7<br>1.40 | 2.7<br>2.60 | 2.7<br>2.15 | 2.7<br>1.30 | 2.7<br>3.50 | 2.7<br>4.15 | 382 |
| ohms<br>Hrs to 0.9V | 3.3<br>6.20 | 3.3<br>7.10 | 3.3<br>6.10 | 3.3<br>1.60 | 3.3<br>7.40 | 3.3<br>7.10 | 383 |
| ohms<br>Hrs to 0.9V | 3.9<br>3.2 | 3.9<br>9.3 | 3.9<br>7.9 | 3.9<br>9.5 | 3.9<br>8.9 | 3.9<br>8.65 | 384 |
| ohms<br>Hrs to 0.9V | 4.7<br>0.30 | 4.7<br>0.20 | 4.7<br>9.55 | 4.7<br>9.55 | 4.7<br>9.95 | 4.7<br>0.30 | 385 |
| ohms<br>Hrs to 0.9V | 4.7<br>9.25 | 4.7<br>10.5 | 4.7<br>9.0 | 4.7<br>9.2 | 4.7<br>10.0 | 4.7<br>10.3 | 386 |
| ohms<br>Hrs to 0.9V | 4.7<br>0.45 | 4.7<br>0.50 | 4.7<br>0.25 | 4.7<br>0.30 | 4.7<br>0.30 | 4.7<br>10.30 | 387 |

## APPENDIX III

| Test Number | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 388 | 12R | 70 | 6 Mo. | Chart 5 | (4) |
| 389 | 12R | 115 | Initial | Chart 1 | |
| 390 | 12R | 115 | Initial | Chart 1 | |
| 391 | 12R | 200 | Initial | Chart 1 | |
| 392 | 12R | 200 | Initial | Chart 1 | |
| 393 | 12R | -20 | Initial | Chart 1 | |
| 394 | 12R | -20 | Initial | Chart 1 | |
| 395 | 12R | 160 | Initial | Chart 1 | |
| 396 | 12R | 160 | Initial | Chart 1 | |
| 397 | 12R | 20 | Initial | Chart 1 | |
| 398 | 12R | 20 | Initial | Chart 1 | |
| 399 | 12R | 115 | Initial | Chart 1 | Nos. 1 & 4 cell tests defective |
| 400 | 12R | 115 | Initial | Chart 1 | |
| 401 | 42R | -20 | Initial | Chart 1 | |
| 402 | 42R | -20 | Initial | Chart 1 | |

(4) Cyclic Storage 0° to 130°F

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 8.3 | 9.0 | 0.3 | 10.05 | 9.55 | 0.45 | 388 |
| ohms | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | |
| Hrs to 0.9V | 7.7 | 7.0 | 7.3 | 7.8 | 7.7 | 8.25 | 389 |
| ohms | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | |
| Hrs to 0.9V | 7.7 | 7.9 | 8.2 | 7.65 | 7.85 | 8.05 | 390 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 71.7 | 62.8 | 75.8 | 64.7 | 69.7 | 65.5 | 391 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 79.9 | 66.9 | 59.7 | 48.3 | 70.5 | 61.6 | 392 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 0.9 | 0.75 | 1.15 | 0.95 | 0.9 | 0.9 | 393 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 0.75 | 0.95 | 0.9 | 0.9 | 0.75 | 0.95 | 394 |
| ohms | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | |
| Hrs to 0.9V | 7.7 | 7.5 | 7.65 | 7.8 | 8.0 | 8.0 | 395 |
| ohms | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | |
| Hrs to 0.9V | 7.15 | 8.1 | 7.8 | 7.8 | 8.4 | 7.9 | 396 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.15 | 0.20 | 0.15 | 0.25 | 0.15 | 0.20 | 397 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.15 | 0.20 | 0.15 | 0.25 | 0.15 | 0.20 | 398 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | | 1.46 | 14.35 | | 45 | 13.2 | 399 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 7 | 4.7 | |
| Hrs to 0.9V | 14.0 | 14.3 | 15.0 | 13.5 | 0 | 13.4 | 400 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 2 | 8.2 | |
| Hrs to 0.9V | 0.45 | 0.40 | 0.40 | 0.45 | 40 | 0.45 | 401 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 2 | 8.2 | |
| Hrs to 0.9V | 0.25 | 0.30 | 0.45 | 0.40 | 35 | 0.35 | 402 |

## APPENDIX III

| Test Number | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 403 | 42R | 115 | Initial | Chart 1 | |
| 404 | 42R | 115 | Initial | Chart 1 | No. 6 cell test defective |
| 405 | 12R | 40 | Initial | Chart 1 | No. 6 cell test defective |
| 406 | 12R | 40 | Initial | Chart 1 | No. 6 cell test defective |
| 407 | 12R | 115 | Initial | Chart 1 | |
| 408 | 12R | 115 | Initial | Chart 1 | |
| 409 | 12R | 160 | Initial | Chart 1 | |
| 410 | 12R | 160 | Initial | Chart 1 | |
| 411 | 12R | 200 | Initial | Chart 1 | |
| 412 | 12R | 200 | Initial | Chart 1 | |
| 413 | 12R | 40 | Initial | Chart 1 | |
| 414 | 12R | 40 | Initial | Chart 1 | |
| 415 | 12R | 40 | Initial | Chart 1 | |
| 416 | 12R | 40 | Initial | Chart 1 | |
| 417 | 42R | 115 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| Hrs to 0.9V | 14.55 | 15.10 | 14.70 | 15.10 | 15.10 | 15.2 | 403 |
| ohms | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| Hrs to 0.9V | 15.0 | 15.3 | 15.1 | 16.0 | 15.2 | - | 404 |
| ohms | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | |
| Hrs to 0.9V | 0.65 | 0.45 | 0.40 | 0.25 | 0.10 | - | 405 |
| ohms | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | |
| Hrs to 0.9V | 0.30 | 0.10 | 0.10 | 0.05 | 0.25 | - | 406 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.40 | 9.65 | 9.90 | 9.75 | 9.85 | 9.15 | 407 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.7 | 9.7 | 9.45 | 9.65 | 8.95 | 10.15 | 408 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.60 | 9.50 | 9.75 | 9.35 | 10.05 | 9.85 | 409 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.40 | 9.60 | 9.50 | 9.55 | 10.15 | 9.75 | 410 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 0.95 | 3.4 | 3.55 | 4.35 | 3.9 | 4.05 | 411 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 1.8 | 3.45 | 1.05 | 4.30 | 3.15 | 0.85 | 412 |
| ohms | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | |
| Hrs to 0.9V | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 413 |
| ohms | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | |
| Hrs to 0.9V | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 414 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.55 | 0.40 | 0.55 | 0.30 | 0.15 | 0.05 | 415 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.35 | 0.30 | 0.40 | 0.45 | 0.50 | 0.75 | 416 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 28.95 | 28.05 | 28.85 | 28.90 | 27.75 | 27.40 | 417 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 418 | 42R | 115 | Initial | Chart 1 | No. 6 cell test defective |
| 419 | 42R | 160 | Initial | Chart 1 | No. 6 cell test defective |
| 420 | 42R | 160 | Initial | Chart 1 | No.5&6 cell tests defective |
| 421 | 42R | 200 | Initial | Chart 1 | No. 2 cell test defective |
| 422 | 42R | 200 | Initial | Chart 1 | |
| 423 | 42R | 40 | Initial | Chart 1 | |
| 424 | 42R | 40 | Initial | Chart 1 | |
| 425 | 42R | 20 | Initial | Chart 1 | |
| 426 | 42R | 20 | Initial | Chart 1 | |
| 427 | 12R | 160 | Initial | Chart 1 | |
| 428 | 12R | 160 | Initial | Chart 1 | |
| 429 | 12R | 200 | Initial | Chart 1 | |
| 430 | 12R | 200 | Initial | Chart 1 | |
| 431 | 42R | 70 | Initial | Chart 1 | |
| 432 | 42R | 70 | Initial | Chart 1 | |

DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 28.1 | 28.8 | 27.9 | 28.4 | 28.8 | - | 418 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 28.2 | 28.4 | 28.2 | 27.9 | 28.0 | - | 419 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 29.3 | 27.4 | 27.6 | 29.0 | - | - | 420 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 25.8 | - | 26.6 | 15.9 | 25.6 | 22.2 | 421 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 25.9 | 16.7 | 19.1 | 26.5 | 20.2 | 22.0 | 422 |
| ohms | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.10 | 0.10 | 0.20 | 0.10 | 423 |
| ohms | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.15 | 0.10 | 0.10 | 0.15 | 424 |
| ohms | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.10 | 0.15 | 0.10 | 0.10 | 425 |
| ohms | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.10 | 0.15 | 0.10 | 0.15 | 426 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 12.6 | 3.1 | 12.4 | 12.9 | 13.0 | 12.4 | 427 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 12.0 | 12.6 | 13.0 | 12.1 | 12.9 | 12.9 | 428 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 4.9 | 4.1 | 2.4 | 3.3 | 3.8 | 4.2 | 429 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 3.8 | 3.9 | 2.9 | 3.1 | 2.9 | 4.5 | 430 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 23.6 | 24.3 | 24.9 | 25.4 | 24.0 | 22.4 | 431 |
| ohms | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |
| Hrs to 0.9V | 21.0 | 21.1 | 20.0 | 19.8 | 20.5 | 19.[illegible] | 432 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 433 | 42R | 40 | Initial | Chart 1 | |
| 434 | 42R | 40 | Initial | Chart 1 | |
| 435 | 42R | 40 | Initial | Chart 1 | |
| 436 | 42R | 40 | Initial | Chart 1 | |
| 437 | 42R | 20 | Initial | Chart 1 | Cell test No. 3 defective |
| 438 | 42R | 20 | Initial | Chart 1 | Cell test No. 1 defective |
| 439 | 42R | 160 | Initial | Chart 1 | |
| 440 | 42R | 160 | Initial | Chart 1 | 3 cells |
| 441 | 42R | 115 | Initial | Chart 1 | No. 2 Cell test defective 3 cells |
| 442 | 42R | 115 | Initial | Chart 1 | |
| 443 | 42R | 115 | Initial | Chart 1 | |
| 444 | 12R | 40 | Initial | Chart 1 | |
| 445 | 12R | 40 | Initial | Chart 1 | |
| 446 | 42R | 70 | Initial | Chart 1 | |
| 447 | 42R | 70 | Initial | Chart 1 | No. 3 cell test defective 3 cells |

DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| Hrs to 0.9V | 0.15 | 0.15 | 0.15 | 0.15 | 0.20 | 0.10 | 433 |
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.15 | 0.10 | 0.15 | 0.10 | 434 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 65.4 | 66.1 | 57.9 | 62.1 | 57.9 | 55.1 | 435 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 50.1 | 48.3 | 50.1 | 59.0 | 49.6 | 56.2 | 436 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 2.40 | 3.60 | - | 4.80 | 5.40 | 6.50 | 437 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | - | 3.40 | 2.25 | 4.40 | 4.65 | 4.20 | 438 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 90.6 | 92.3 | 92.0 | 92.1 | 91.7 | 91.3 | 439 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 30.8 | 28.9 | 26.8 | | | | 440 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 29.3 | - | 28.4 | | | | 441 |
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| Hrs to 0.9V | 22.4 | 24.5 | 22.9 | 22.5 | 23.4 | 23.1 | 442 |
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| Hrs to 0.9V | 23.0 | 24.1 | 23.4 | 24.0 | 24.0 | 24.5 | 443 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.10 | 0.10 | 0.15 | 0.10 | 444 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.10 | 0.20 | 0.15 | 0.10 | 445 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 22.1 | 25.5 | 25.3 | 27.5 | 25.3 | 26.2 | 446 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 24.4 | 24.7 | - | | | | 447 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 448 | 42R | 20 | Initial | Chart 1 | 3 cells |
| 449 | 42R | 40 | Initial | Chart 1 | 3 cells |
| 450 | 42R | 115 | Initial | Chart 1 | 3 cells |
| 451 | 42R | 160 | Initial | Chart 1 | |
| 452 | 42R | 115 | Initial | Chart 1 | |
| 453 | 42R | 115 | Initial | Chart 1 | |
| 454 | 42R | 160 | Initial | Chart 1 | |
| 455 | 42R | 160 | Initial | Chart 1 | |
| 456 | 42R | 200 | Initial | Chart 1 | |
| 457 | 42R | 200 | Initial | Chart 1 | No. 2 cell test defective |
| 458 | 12R | 115 | Initial | Chart 1 | 3 cells |
| 459 | 12R | 160 | Initial | Chart 1 | 3 cells |
| 460 | 42R | 200 | Initial | Chart 1 | |
| 461 | 42R | 200 | Initial | Chart 1 | |
| 462 | 42R | 160 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 1.2 | 1.2 | 1.2 | | | | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.10 | | | | 448 |
| ohms | 1.2 | 1.2 | 1.2 | | | | |
| Hrs to 0.9V | 0.05 | 0.10 | 0.10 | | | | 449 |
| ohms | 1.2 | 1.2 | 1.2 | | | | |
| Hrs to 0.9V | 16.1 | 19.5 | 15.5 | | | | 450 |
| ohms | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| Hrs to 0.9V | 16.4 | 16.5 | 16.5 | 15.9 | 16.5 | 15.1 | 451 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 95.5 | 99.0 | 99.2 | 98.8 | 97.0 | 97.5 | 452 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 102.9 | 104.5 | 101.8 | 99.0 | 101.2 | 100.8 | 453 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 93.4 | 96.1 | 93.2 | 96.6 | 89.2 | 97.6 | 454 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 96.2 | 97.5 | 95.4 | 92.9 | 95.5 | 87.1 | 455 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 89.0 | 83.4 | 88.4 | 87.7 | 86.8 | 93.4 | 456 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 91.5 | - | 94.4 | 89.1 | 89.2 | 88.7 | 457 |
| ohms | 33 | 33 | 33 | | | | |
| Hrs to 0.9V | 95.8 | 96.7 | 96.2 | | | | 458 |
| ohms | 33 | 33 | 33 | | | | |
| Hrs to 0.9V | 75.5 | 98.3 | 98.0 | | | | 459 |
| ohms | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| Hrs to 0.9V | 13.3 | 12.2 | 11.5 | 14.1 | 14.2 | 14.1 | 460 |
| ohms | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| Hrs to 0.9V | 14.3 | 14.4 | 14.0 | 12.7 | 14.2 | 13.2 | 461 |
| ohms | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| Hrs to 0.9V | 15.6 | 15.4 | 15.1 | 16.1 | 17.0 | 15.8 | 462 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | | Notes |
|---|---|---|---|---|---|---|
| 463 | 42R | 160 | Initial | Chart 1 | 3 cells | |
| 464 | 42R | 20 | Initial | Chart 1 | 3 cells | |
| 465 | 42R | 40 | Initial | Chart 1 | 3 cells | |
| 466 | 42R | 115 | Initial | Chart 1 | 3 cells | |
| 467 | 42R | 160 | Initial | Chart 1 | | |
| 468 | 42R | 160 | Initial | Chart 1 | | |
| 469 | 42R | 160 | Initial | Chart 1 | 3 cells | |
| 470 | 42R | 40 | Initial | Chart 1 | | |
| 471 | 42R | 40 | Initial | Chart 1 | | |
| 472 | 42R | 40 | Initial | Chart 1 | 3 cells | |
| 473 | 42R | 40 | Initial | Chart 1 | 3 cells | |
| 474 | 42R | 20 | Initial | Chart 1 | 3 cells | |
| 475 | 42R | 115 | Initial | Chart 1 | 3 cells | |
| 476 | 640R | 70 | Initial | Chart 1 | | |
| 477 | 42R | 160 | Initial | Chart 1 | 3 cells | |

DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 1.2 | 1.2 | 1.2 | | | | 463 |
| Hrs to 0.9V | 15.4 | 15.6 | 15.6 | | | | |
| Ohms | 1.8 | 1.8 | 1.8 | | | | 464 |
| Hrs to 0.9V | 0.15 | 0.15 | 0.15 | | | | |
| ohms | 1.8 | 1.8 | 1.8 | | | | 465 |
| Hrs to 0.9V | 0.15 | 0.10 | 0.10 | | | | |
| ohms | 1.8 | 1.8 | 1.8 | | | | 466 |
| Hrs to 0.9V | 23.2 | 24.2 | 24.5 | | | | |
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 467 |
| Hrs to 0.9V | 22.3 | 22.8 | 24.4 | 23.6 | 23.5 | 22.7 | |
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 468 |
| Hrs to 0.9V | 24.7 | 23.4 | 23.5 | 22.8 | 23.6 | 23.5 | |
| ohms | 1.8 | 1.8 | 1.8 | | | | 469 |
| Hrs to 0.9V | 23.1 | 23.6 | 23.0 | | | | |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 470 |
| Hrs to 0.9V | 0.60 | 0.95 | 0.15 | 0.20 | 0.50 | 0.30 | |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 471 |
| Hrs to 0.9V | 0.75 | 2.95 | 0.50 | 12.40 | 2.65 | 4.00 | |
| ohms | 2.2 | 2.2 | 2.2 | | | | 472 |
| Hrs to 0.9V | 0.30 | 2.40 | 0.30 | | | | |
| ohms | 8.2 | 8.2 | 8.2 | | | | 473 |
| Hrs to 0.9V | 57.7 | 60.4 | 51.5 | | | | |
| ohms | 8.2 | 8.2 | 8.2 | | | | 474 |
| Hrs to 0.9V | 4.15 | 3.40 | 6.70 | | | | |
| ohms | 8.2 | 8.2 | 8.2 | | | | 475 |
| Hrs to 0.9V | 96.5 | 98.8 | 97.2 | | | | |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | 476 |
| Hrs to 0.9V | 51.7 | 55.8 | 54.1 | 53.5 | 55.1 | 54.1 | |
| ohms | 8.2 | 8.2 | 8.2 | | | | 477 |
| Hrs to 0.9V | 96.5 | 93.7 | 97.4 | | | | |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 478 | 42R | 200 | Initial | Chart 1 | 3 Cells |
| 479 | 12R | 70 | Initial | Chart 1 | |
| 480 | 12R | 20 | Initial | Chart 1 | 3 Cells |
| 481 | 12R | 40 | Initial | Chart 1 | 3 Cells |
| 482 | 12R | 115 | Initial | Chart 1 | 3 Cells |
| 483 | 12R | 160 | Initial | Chart 1 | 3 Cells |
| 484 | 12R | 200 | Initial | Chart 1 | 3 Cells |
| 485 | 640R | 70 | Initial | Chart 1 | |
| 486 | 640R | 70 | Initial | Chart 1 | Cell Tests Nos. 4 & 6 defective |
| 487 | 640R | 70 | Initial | Chart 1 | |
| 488 | 42R | 70 | Initial | Chart 1 | 3 Cells |
| 489 | 42R | 70 | Initial | Chart 1 | |
| 490 | 42R | 70 | Initial | Chart 1 | |
| 491 | 42R | 70 | Initial | Chart 1 | |
| 492 | 42R | 70 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs to 0.9V | 94.7 | 72.0 | 93.6 | | | | 478 |
| ohms | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | |
| Hrs to 0.9V | 0.30 | 0.70 | 0.65 | 0.25 | 0.15 | 0.25 | 479 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs to 0.9V | 0.30 | 0.30 | 0.15 | | | | 480 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs to 0.9V | 0.05 | 0.10 | 0.05 | | | | 481 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs to 0.9V | 14.0 | 14.5 | 13.3 | | | | 482 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs to 0.9V | 3.1 | 13.1 | 13.5 | | | | 483 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs to 0.9V | 3.1 | [illegible] | 3.5 | | | | 484 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 0.80 | 0.40 | 0.70 | 0.75 | 0.30 | 0.75 | 485 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs to 0.9V | 5.70 | 1.90 | 3.90 | - | 3.70 | - | 486 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 8.8 | 8.5 | 8.5 | 9.5 | 8.0 | 8.2 | 487 |
| ohms | 1.0 | 1.0 | 1.0 | | | | |
| Hrs to 0.9V | 5.5 | 9.0 | 7.2 | | | | 488 |
| ohms | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | |
| Hrs to 0.9V | 5.3 | 6.3 | 7.0 | 7.6 | 7.0 | [illegible] | 489 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs to 0.9V | 4.1 | 4.2 | 5.1 | 6.1 | 5.2 | 4.5 | 490 |
| ohms | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 491 |
| ohms | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | |
| Hrs to 0.9V | 0.20 | 0.25 | 0.20 | 0.20 | 0.20 | 0.20 | 492 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 493 | 42R | 70 | Initial | Chart 1 | |
| 494 | 42R | 70 | Initial | Chart 1 | |
| 495 | 640R | 70 | Initial | Chart 1 | |
| 496 | 640R | 70 | Initial | Chart 1 | Cell Test No. 2 defective |
| 497 | 12R | 115 | Initial | Chart 1 | 3 Cells |
| 498 | 12R | 160 | Initial | Chart 1 | |
| 499 | 12R | 160 | Initial | Chart 1 | 3 Cells |
| 500 | 12R | 70 | Initial | Chart 1 | (2) |
| 501 | 640R | 70 | Initial | Chart 1 | (2) |
| 502 | 640R | 70 | Initial | Chart 1 | |
| 503 | 640R | 70 | Initial | Chart 1 | |
| 504 | 640R | 70 | Initial | Chart 1 | |
| 505 | 12R | 70 | Initial | Chart 1 | |
| 506 | 12R | 70 | Initial | Chart 1 | 3 Cells |
| 507 | 12R | 200 | Initial | Chart 1 | |

(2) Preliminary test

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs to 0.9V | 4.4 | 3.8 | 4.5 | 5.8 | 5.4 | 5.0 | 493 |
| ohms | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | |
| Hrs to 0.9V | 0.25 | 0.20 | 0.25 | 0.20 | 0.25 | 0.20 | 494 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 9.3 | 9.3 | 12.8 | 11.0 | 11.0 | 6.6 | 495 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs to 0.9V | 1.05 | - | 6.5 | 3.8 | 6.5 | 6.0 | 496 |
| ohms | 5.6 | 5.6 | 5.6 | | | | |
| Hrs to 0.9V | 16.5 | 15.7 | 15.4 | | | | 497 |
| ohms | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | |
| Hrs to 0.9V | 16.7 | 5.0 | 17.1 | 16.5 | 16.9 | 14.2 | 498 |
| ohms | 5.6 | 5.6 | 5.6 | | | | |
| Hrs to 0.9V | 16.4 | 16.5 | 17.4 | | | | 499 |
| ohms | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | |
| Hrs to 0.9V | 3.3 | 3.4 | 0.50 | 2.30 | 2.10 | 0.30 | 500 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs to 0.9V | 17.3 | 18.7 | 19.0 | 17.4 | 19.4 | 15.2 | 501 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 19.1 | 21.2 | 21.5 | 22.7 | 20.9 | 22.7 | 502 |
| ohms | 150 | 150 | 150 | 150 | 150 | 150 | |
| Hrs to 0.9V | 73.1 | 71.4 | 73.1 | 71.6 | 70.5 | 68.7 | 503 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 81.7 | 85.1 | 85.1 | 84.4 | 95.2 | 85.0 | 504 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 23.2 | 24.2 | 23.4 | 22.5 | 23.8 | 23.3 | 505 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 5.9 | 5.4 | 6.1 | | | | 506 |
| ohms | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | |
| Hrs to 0.9V | 5.1 | 5.9 | 5.5 | 4.1 | 5.1 | 5.3 | 507 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 508 | 12R | 200 | Initial | Chart 1 | 3 Cells |
| 509 | 12R | 160 | Initial | Chart 1 | 3 Cells |
| 510 | 12R | 20 | Initial | Chart 1 | 3 Cells |
| 511 | 12R | 40 | Initial | Chart 1 | |
| 512 | 12R | 40 | Initial | Chart 1 | |
| 513 | 12R | 70 | Initial | Chart 1 | 3 Cells |
| 514 | 12R | 70 | Initial | Chart 1 | 3 Cells |
| 515 | 12R | 160 | Initial | Chart 1 | 3 Cells |
| 516 | 12R | 115 | Initial | Chart 1 | 3 Cells |
| 517 | 12R | 115 | Initial | Chart 1 | |
| 518 | 12R | 115 | Initial | Chart 1 | |
| 519 | 12R | 200 | Initial | Chart 1 | |
| 520 | 12R | 200 | Initial | Chart 1 | 3 Cells |
| 521 | 12R | 200 | Initial | Chart 1 | |
| 522 | 12R | 200 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs to 0.9V | 8.5 | 10.3 | 8.8 | | | | 508 |
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs to 0.9V | 6.8 | 8.1 | 7.3 | | | | 509 |
| ohms | 33 | 33 | 33 | | | | |
| Hrs to 0.9V | 10.8 | 8.4 | 11.2 | | | | 510 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.15 | 0.05 | 0.10 | 0.10 | 511 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.10 | 0.05 | 0.10 | 0.10 | 512 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 4.5 | 1.9 | 0.50 | | | | 513 |
| ohms | 2.7 | 2.7 | 2.7 | | | | |
| Hrs to 0.9V | 1.05 | 0.10 | 3.30 | | | | 514 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 9.25 | 9.50 | 9.50 | | | | 515 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 10.9 | 9.8 | 9.1 | | | | 516 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 5.8 | 6.9 | 6.3 | 7.9 | 6.7 | 5.8 | 517 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 5.9 | 6.0 | 6.8 | 5.8 | 5.9 | 6.1 | 518 |
| ohms | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | |
| Hrs to 0.9V | 7.8 | 5.8 | 4.2 | 5.6 | 7.6 | 5.8 | 519 |
| ohms | 5.6 | 5.6 | 5.6 | | | | |
| Hrs to 0.9V | 5.6 | 5.5 | 5.3 | | | | 520 |
| ohms | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | |
| Hrs to 0.9V | 7.3 | 1.5 | 1.00 | 0.80 | 1.00 | 4.80 | 521 |
| ohms | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | |
| Hrs to 0.9V | 8.8 | 8.0 | 9.0 | 5.4 | 5.0 | 5.6 | 522 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 523 | 12R | 200 | Initial | Chart 1 | |
| 524 | 12R | 200 | Initial | Chart 1 | No.4 cell test defective |
| 525 | 12R | 70 | Initial | Chart 1 | 3 cells |
| 526 | 12R | 20 | Initial | Chart 1 | |
| 527 | 12R | 20 | Initial | Chart 1 | |
| 528 | 42R | 70 | Initial | Chart 1 | (2) All less than 0.10 hr. |
| 529 | 640R | 70 | Initial | Chart 1 | |
| 530 | 640R | 70 | Initial | Chart 1 | 3 cells |
| 531 | 640R | 70 | 1 Mo. (4) | Chart 5 | |
| 532 | 640R | 70 | 1 Mo. (4) | Chart 5 | |
| 533 | 640R | 70 | 1 Mo. (4) | Chart 5 | |
| 534 | 640R | 70 | 1 Mo. (4) | Chart 5 | |
| 535 | 12R | 160 | 1 Mo. @ 160°F | Chart 2 | |
| 536 | 12R | 160 | 1 Mo. @ 160°F | Chart 2 | |
| 537 | 12R | 160 | 1 Mo. @ 160°F | Chart 2 | No. 5&6 cell tests defective |

(4) Cyclic storage 0° to 130°F. (2) Preliminary Test

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 6.2 | 1.8 | 2.0 | 2.1 | 2.4 | 2.6 | 523 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 7.7 | 1.6 | 2.2 | | 2.9 | 6.5 | 524 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 4.75 | 4.65 | 5.5 | | | | 525 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 0.15 | 0.20 | 0.15 | 0.20 | 0.20 | 0.20 | 526 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 0.25 | 0.15 | 0.20 | 0.25 | 0.20 | 0.20 | 527 |
| ohms | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | |
| Hrs to 0.9V | | | | | | | 528 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 78.8 | 87.6 | 82.4 | 83.9 | 88.1 | 79.[illegible] | 529 |
| ohms | 180 | 180 | 180 | | | | |
| Hrs to 0.9V | 83.3 | 86.8 | 82.8 | | | | 530 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 7.5 | 7.9 | 8.4 | 8.0 | 1.4 | 7.9 | 531 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 8.2 | 8.3 | 7.1 | 7.4 | 7.5 | 8.3 | 532 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 6.8 | 1.4 | 7.2 | 5.9 | 8.4 | 5.6 | 533 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 1.8 | 7.4 | 1.4 | 6.2 | 8.2 | 1.4 | 534 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 15.1 | 1.6 | 1.3 | 1.4 | 1.3 | 1.4 | 535 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 11.6 | 14.9 | 13.5 | 13.6 | 1.4 | 1.8 | 536 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 1.4 | 1.4 | 1.4 | 13.5 | | | 537 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 538 | 12R | 160 | 1 Mo. @ 160°F | Chart 2 | |
| 539 | 12R | -20 | 1 Mo. @ 160°F | Chart 2 | |
| 540 | 12R | -20 | 1 Mo. @ 160°F | Chart 2 | |
| 541 | 12R | 115 | 1 Mo. @ 160°F | Chart 2 | |
| 542 | 12R | 115 | 1 Mo. @ 160°F | Chart 2 | |
| 543 | 12R | 115 | 1 Mo. @ 160°F | Chart 2 | |
| 544 | 12R | 115 | 1 Mo. @ 160°F | Chart 2 | |
| 545 | 12R | 115 | Initial | Chart 1 | 3 cells |
| 546 | 12R | 115 | Initial | Chart 1 | 3 cells |
| 547 | 12R | 40 | Initial | Chart 1 | 3 cells |
| 548 | 12R | 40 | Initial | Chart 1 | 3 cells |
| 549 | 12R | 160 | Initial | Chart 1 | |
| 550 | 12R | 160 | Initial | Chart 1 | |
| 551 | 12R | 160 | Initial | Chart 1 | 3 cells |
| 552 | 12R | 160 | Initial | Chart 1 | 3 cells |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 12.1 | 1.7 | 1.6 | 14.9 | 12.3 | 13.6 | 538 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 1.2 | 1.3 | 1.0 | 1.3 | 1.1 | 1.4 | 539 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 1.6 | 1.7 | 1.9 | 2.0 | 1.9 | 1.7 | 540 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 14.4 | 14.1 | 14.1 | 14.7 | 14.6 | 14.2 | 541 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 15.3 | 14.1 | 13.7 | 14.4 | 14.7 | 14.2 | 542 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 14.5 | 14.0 | 13.8 | 14.5 | 14.1 | 13.4 | 543 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 13.4 | 14.1 | 14.6 | 13.9 | 14.4 | 13.7 | 544 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 6.7 | 6.3 | 6.9 | | | | 545 |
| ohms | 2.7 | 2.7 | 2.7 | | | | |
| Hrs to 0.9V | 11.0 | 7.6 | 7.7 | | | | 546 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 0.05 | 0.05 | 0.05 | | | | 547 |
| ohms | 27 | 27 | 27 | | | | |
| Hrs to 0.9V | 0.15 | 0.05 | 0.05 | | | | 548 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 6.5 | 6.0 | 5.4 | 6.6 | 5.8 | 5.8 | 549 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 6.4 | 6.4 | 6.2 | 6.0 | 6.6 | 6.3 | 550 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 6.5 | 5.8 | 8.0 | | | | 551 |
| ohms | 2.7 | 2.7 | 2.7 | | | | |
| Hrs to 0.9V | 7.8 | 7.7 | 7.7 | | | | 552 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 553 | 12R | -20 | 1 Mo. @ 160°F | Chart 2 | |
| 554 | 12R | -20 | 1 Mo. @ 160°F | Chart 2 | |
| 555 | 12R | 200 | Initial | Chart 1 | 3 cells |
| 556 | 12R | 200 | Initial | Chart 1 | 3 cells |
| 557 | 12R | 40 | 1 Mo. @ 160°F | Chart 2 | |
| 558 | 12R | 40 | 1 Mo. @ 160°F | Chart 2 | |
| 559 | 12R | 200 | 1Mo. @ 160°F | Chart 2 | |
| 560 | 12R | 200 | 1 Mo. @ 160°F | Chart 2 | |
| 561 | 640R | 115 | Initial | Chart 1 | 3 cells |
| 562 | 640R | 115 | Initial | Chart 1 | |
| 563 | 640R | 160 | Initial | Chart 1 | |
| 564 | 640R | 160 | Initial | Chart 1 | 3 cells |
| 565 | 12R | 20 | Initial | Chart 1 | 3 cells |
| 566 | 12R | 40 | Initial | Chart 1 | 3 cells |
| 567 | 12R | 40 | Initial | Chart 1 | 3 cells |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 1.20 | 1.30 | 1.00 | 1.30 | 1.10 | 1.30 | 553 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 1.40 | 1.60 | 1.20 | 1.20 | 1.30 | 1.90 | 554 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 3.55 | 3.55 | 4.20 | | | | 555 |
| ohms | 2.7 | 2.7 | 2.7 | | | | |
| Hrs to 0.9V | 4.75 | 4.75 | 4.70 | | | | 556 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.50 | 0.35 | 0.40 | 0.45 | 0.35 | 0.45 | 557 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.35 | 0.45 | 0.35 | 0.30 | 0.45 | 0.30 | 558 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 2.5 | 1.75 | 1.70 | 2.90 | 2.25 | 2.70 | 559 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 1.85 | 2.65 | 2.95 | 2.40 | 2.30 | 2.35 | 560 |
| ohms | 180 | 180 | 180 | | | | |
| Hrs to 0.9V | 83.75 | 55.15 | 83.3 | | | | 561 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 68.9 | 79.6 | 83.55 | 67.3 | 52.0 | 63.3 | 562 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 57.35 | 47.05 | 80.15 | 87.90 | 70.35 | 63.75 | 563 |
| ohms | 180 | 180 | 180 | | | | |
| Hrs to 0.9V | 58.55 | 71.30 | 84.75 | | | | 564 |
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs to 0.9V | 0.30 | 0.20 | 0.25 | | | | 565 |
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs to 0.9V | 0.30 | 1.90 | 0.20 | | | | 566 |
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs to 0.9V | 0.15 | 0.05 | 0.10 | | | | 567 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 568 | 12R | 40 | Initial | Chart 1 | 3 cells |
| 569 | 12R | 115 | Initial | Chart 1 | 3 cells |
| 570 | 12R | 200 | Initial | Chart 1 | 3 cells |
| 571 | 12R | 200 | Initial | Chart 1 | 3 cells |
| 572 | 640R | 70 | Initial | Chart 1 | |
| 573 | 640R | 70 | Initial | Chart 1 | 3 cells |
| 574 | 640R | 70 | Initial | Chart 1 | Cell test no. 2 defective 3 cells |
| 575 | 42R | 20 | Initial | Chart 1 | |
| 576 | 42R | 20 | Initial | Chart 1 | |
| 577 | 640R | 115 | Initial | Chart 1 | |
| 578 | 640R | 115 | Initial | Chart 1 | |
| 579 | 640R | 115 | Initial | Chart 1 | |
| 580 | 640R | 115 | Initial | Chart 1 | |
| 581 | 640R | 160 | Initial | Chart 1 | |
| 582 | 640R | 160 | Initial | Chart 1 | No. 2 cell test Defective |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 5.6 | 5.6 | 5.6 | | | | |
| Hrs to 0.9V | 0.90 | 0.25 | 0.90 | | | | 568 |
| ohms | 5.6 | 5.6 | 5.6 | | | | |
| Hrs to 0.9V | 16.6 | 16.65 | 18.20 | | | | 569 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 7.4 | 1.75 | 7.45 | | | | 570 |
| ohms | 33 | 33 | 33 | | | | |
| Hrs to 0.9V | 64.15 | 80.20 | 89.60 | | | | 571 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 1.10 | 0.60 | 1.00 | 4.00 | 1.70 | 1.20 | 572 |
| ohms | 18 | 18 | 18 | | | | |
| Hrs to 0.9V | 4.8 | 0.60 | 2.1 | | | | 573 |
| ohms | 22 | 22 | 22 | | | | |
| Hrs to 0.9V | 5.65 | - | 6.5 | | | | 574 |
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.15 | 0.15 | <0.05 | 0.15 | 575 |
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 576 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 8.55 | 9.15 | 8.95 | 9.55 | 8.95 | 9.15 | 577 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 9.45 | 10.10 | 9.35 | 10.50 | 9.10 | 10.10 | 578 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs to 0.9V | 10.75 | 12.00 | 11.15 | 10.70 | 11.25 | 11.55 | 579 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs to 0.9V | 10.70 | 10.45 | 11.85 | 12.20 | 11.50 | 11.55 | 580 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs to 0.9V | 10.75 | 10.95 | 9.00 | 9.60 | 12.20 | 10.05 | 581 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs to 0.9V | 8.2 | | 11.40 | 11.10 | 11.05 | 11.30 | 582 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SOL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 583 | 64OR | 40 | Initial | Chart 1 | |
| 584 | 64OR | 115 | Initial | Chart 1 | |
| 585 | 64OR | 160 | Initial | Chart 1 | |
| 586 | 64OR | 20 | Initial | Chart 1 | |
| 587 | 64OR | 20 | Initial | Chart 1 | |
| 588 | 64OR | 20 | Initial | Chart 1 | 3 cells |
| 589 | 64OR | 115 | Initial | Chart 1 | |
| 590 | 64OR | 115 | Initial | Chart 1 | |
| 591 | 64OR | 115 | Initial | Chart 1 | 3 cells |
| 592 | 64OR | 160 | Initial | Chart 1 | |
| 593 | 64OR | 160 | Initial | Chart 1 | 3 cells |
| 594 | 64OR | 160 | Initial | Chart 1 | |
| 595 | 42R | 200 | Initial | Chart 1 | 3 cells |
| 596 | 42R | 200 | Initial | Chart 1 | |
| 597 | 42R | 200 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.10 | 0.15 | 0.05 | 0.05 | 583 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 88.35 | 81.95 | 74.55 | 84.00 | 86.30 | 74.05 | 584 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 88.75 | 88.55 | 84.30 | 63.40 | 88.85 | 52.15 | 585 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 4.10 | 10.15 | 4.60 | 2.85 | 2.90 | 10.15 | 586 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 1.80 | 4.05 | 5.40 | 3.50 | 6.60 | 5.40 | 587 |
| ohms | 180 | 180 | 180 | | | | |
| Hrs to 0.9V | 1.65 | 4.15 | 5.4 | | | | 588 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 22.15 | 22.40 | 23.10 | 22.05 | 22.10 | 20.75 | 589 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 24.10 | 23.65 | 22.40 | 19.75 | 22.60 | 23.30 | 590 |
| ohms | 4 7 | 4 7 | 4 7 | | | | |
| Hrs to 0.9V | 22.75 | 23.20 | 24.75 | | | | 591 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 24.10 | 23.45 | 18.10 | 22.80 | 21.50 | 23.20 | 592 |
| ohms | 47 | 47 | 47 | | | | |
| Hrs to 0.9V | 22.85 | 21.20 | 15.50 | | | | 593 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 20.45 | 16.50 | 18.85 | 23.05 | 22.50 | 23.85 | 594 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 22.95 | 20.35 | 23.05 | | | | 595 |
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| Hrs to 0.9V | 18.50 | 16.80 | 17.00 | 21.70 | 18.50 | 19.55 | 596 |
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| Hrs to 0.9V | 19.05 | 19.00 | 17.05 | 16.65 | 16.85 | 18.40 | 597 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 598 | 42R | 20 | Initial | Chart 1 | |
| 599 | 42R | 20 | Initial | Chart 1 | |
| 600 | 640R | 400 | Initial | Chart 1 | 3 cells |
| 601 | 12R | -20 | Initial | Chart 1 | 3 cells |
| 602 | 640R | 40 | Initial | Chart 1 | |
| 603 | 640R | 40 | Initial | Chart 1 | |
| 604 | 640R | 115 | Initial | Chart 1 | 3 cells |
| 605 | 640R | 160 | Initial | Chart 1 | 3 cells |
| 606 | 12R | 200 | 1 Mo. @ 160°F. | Chart 2 | |
| 607 | 12R | 200 | 1 Mo. @ 160°F. | Chart 2 | |
| 608 | 12R | 40 | 1 Mo. @ 160°F. | Chart 2 | |
| 609 | 12R | 40 | 1 Mo. @ 160°F. | Chart 2 | |
| 610 | 640R | 20 | Initial | Chart 1 | |
| 611 | 640R | 20 | Initial | Chart 1 | |
| 612 | 640R | 20 | Initial | Chart 1 | 3 cells |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.10 | 0.15 | 0.10 | 0.10 | 598 |
| ohms | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| Hrs to 0.9V | 0.15 | 0.15 | 0.20 | 0.10 | 0.10 | 0.15 | 599 |
| ohms | 22 | 22 | 22 | | | | |
| Hrs to 0.9V | 0.15 | 0.05 | 0.15 | | | | 600 |
| ohms | 33 | 33 | 33 | | | | |
| Hrs to 0.9V | 0.70 | 1.00 | 0.50 | | | | 601 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs to 0.9V | 0.20 | 0.15 | 0.15 | 0.05 | 0.10 | 0.05 | 602 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs to 0.9V | 0.20 | 0.20 | 0.45 | 0.15 | 0.05 | 0.10 | 603 |
| ohms | 22 | 22 | 22 | | | | |
| Hrs to 0.9V | 11.05 | 11.20 | 11.65 | | | | 604 |
| ohms | 22 | 22 | 22 | | | | |
| Hrs to 0.9V | 10.25 | 9.65 | 11.45 | | | | 605 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 2.35 | 2.30 | 2.10 | 2.25 | 2.40 | 1.90 | 606 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 2.35 | 2.55 | 2.85 | 11.60 | 2.45 | 1.80 | 607 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.20 | 0.30 | 0.30 | 0.20 | 0.30 | 0.75 | 608 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.35 | 0.35 | 0.30 | 0.25 | 0.30 | 0.55 | 609 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 0.15 | 0.10 | 0.15 | 0.15 | 0.15 | 0.15 | 610 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 0.15 | 0.20 | 0.15 | 0.15 | 0.15 | 0.10 | 611 |
| ohms | 27 | 27 | 27 | | | | |
| Hrs to 0.9V | 0.15 | 0.10 | 0.10 | | | | 612 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 613 | 640R | 40 | Initial | Chart 1 | |
| 614 | 640R | 40 | Initial | Chart 1 | |
| 615 | 640R | 40 | Initial | Chart 1 | 3 cells |
| 616 | 640R | 70 | Initial | Chart 1 | 3 cells |
| 617 | 640R | 20 | Initial | Chart 1 | 3 cells |
| 618 | 640R | 20 | Initial | Chart 1 | |
| 619 | 640R | 20 | Initial | Chart 1 | |
| 620 | 640R | 160 | Initial | Chart 1 | No. 4 cell test defective |
| 621 | 640R | 160 | Initial | Chart 1 | |
| 622 | 640R | 160 | Initial | Chart 1 | 3 cells |
| 623 | 640R | 115 | Initial | Chart 1 | |
| 624 | 640R | 115 | Initial | Chart 1 | |
| 625 | 640R | 115 | Initial | Chart 1 | 3 cells |
| 626 | 640R | 160 | Initial | Chart 1 | |
| 627 | 640R | 160 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.10 | 0.15 | 0.30 | 0.20 | 613 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 0.50 | 0.55 | 0.25 | 0.45 | 0.45 | 0.45 | 614 |
| ohms | 27 | 27 | 27 | | | | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.15 | | | | 615 |
| ohms | 27 | 27 | 27 | | | | |
| Hrs to 0.9V | 1.45 | 9.35 | 3.55 | | | | 616 |
| ohms | 22 | 22 | 22 | | | | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.10 | | | | 617 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs to 0.9V | 0.05 | 0.00 | 0.05 | 0.05 | 0.05 | 0.00 | 618 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs to 0.9V | 0.05 | 0.05 | 0.05 | | 0.05 | 0.05 | 619 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs to 0.9V | 19.85 | 15.60 | 12.35 | 18.85 | 19.95 | 15.40 | 620 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs to 0.9V | 12.30 | 14.85 | 19.45 | 18.60 | 10.45 | 19.25 | 621 |
| ohms | 39 | 39 | 39 | | | | |
| Hrs to 0.9V | 18.75 | 19.45 | 19.40 | | | | 622 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs to 0.9V | 20.05 | 19.35 | 17.73 | 20.85 | 18.45 | 20.80 | 623 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs to 0.9V | 18.70 | 19.80 | 19.35 | 19.00 | 17.60 | 19.15 | 624 |
| ohms | 39 | 39 | 39 | | | | |
| Hrs to 0.9V | 18.65 | 18.70 | 21.45 | | | | 625 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 10.45 | 12.25 | 10.55 | 10.65 | 12.65 | 11.65 | 626 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 12.35 | 8.93 | 7.95 | 11.60 | 12.90 | 12.95 | 627 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 628 | 640R | 160 | Initial | Chart 1 | 3 cells |
| 629 | 640R | 115 | Initial | Chart 1 | No. 4 cell test defective |
| 630 | 640R | 115 | Initial | Chart 1 | |
| 631 | 640R | 115 | Initial | Chart 1 | 3 cells |
| 632 | 640R | 40 | Initial | Chart 1 | |
| 633 | 640R | 40 | Initial | Chart 1 | |
| 634 | 640R | 40 | Initial | Chart 1 | 3 cells |
| 635 | 12R | 115 | 2 Mo. @ 160°F. | Chart 2 | Not required and test discontinued |
| 636 | 12R | 115 | 2 Mo. @ 160°F. | Chart 2 | |
| 637 | 12R | 70 | 2 Mo. @ 160°F. | Chart 2 | Test disconnected in error. Repeated as 688 |
| 638 | 12R | 200 | 1 Mo. @ 160°F. | Chart 2 | |
| 639 | 12R | 200 | 1 Mo. @ 160°F. | Chart 2 | |
| 640 | 42R | -20 | Initial | Chart 1 | 3 cells |
| 641 | 12R | 160 | 1 Mo. @ 160°F. | Chart 2 | |
| 642 | 12R | 160 | 1 Mo. @ 160°F. | Chart 2 | |

DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 27 | 27 | 27 | | | | |
| Hrs to 0.9V | 12.55 | 11.45 | 11.80 | | | | 628 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 14.00 | 12.70 | 14.15 | | 13.50 | 14.20 | 629 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 14.05 | 13.30 | 14.20 | 13.35 | 13.00 | 13.10 | 630 |
| ohms | 27 | 27 | 27 | | | | |
| Hrs to 0.9V | 13.00 | 14.50 | 13.35 | | | | 631 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 0.75 | 0.80 | 0.55 | 1.80 | 1.10 | 0.85 | 632 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 1.50 | 1.10 | 1.15 | 1.50 | 1.15 | 0.85 | 633 |
| ohms | 47 | 47 | 47 | | | | |
| Hrs to 0.9V | 1.20 | 1.20 | 1.20 | | | | 634 |
| ohms | 330 | 330 | 330 | 330 | 330 | 330 | |
| Hrs to 0.9V | | | | | | | 635 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 87.65 | 85.75 | 102.45 | 96.95 | 94.85 | 98.05 | 636 |
| ohms | | | | | | | |
| Hrs to 0.9V | | | | | | | 637 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.05 | 10.05 | 8.60 | 1.45 | 0.95 | 9.25 | 638 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.40 | 1.45 | 10.00 | 1.30 | 1.10 | 1.25 | 639 |
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs to 0.9V | 0.30 | 0.35 | 0.40 | | | | 640 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.05 | 10.00 | 9.15 | 10.15 | 8.65 | 10.70 | 641 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.65 | 10.75 | 9.05 | 10.35 | 1.30 | 10.45 | 642 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 643 | 12R | 160 | 2 Mo. @ 160°F | Chart 2 | |
| 644 | 12R | 160 | 2 Mo. @ 160°F | Chart 2 | |
| 645 | 12R | 70 | 1 Mo. @ 160°F | Chart 2 | |
| 646 | 12R | 160 | 6 Mo. @ -20°F | Chart 2 | |
| 647 | 12R | 160 | 6 Mo. @ -20°F | Chart 2 | |
| 648 | 12R | 160 | 6 Mo. @ -20°F | Chart 2 | |
| 649 | 12R | 160 | 6 Mo. @ -20°F | Chart 2 | |
| 650 | 640R | 40 | Initial | Chart 1 | |
| 651 | 640R | 40 | Initial | Chart 1 | |
| 652 | 12R | 70 | 6 Mo. @ -20°F | Chart 2 | |
| 653 | 12R | 40 | 2 Mo. @ 160°F | Chart 2 | |
| 654 | 12R | 40 | 2 Mo. @ 160°F | Chart 2 | |
| 655 | 12R | 40 | 2 Mo. @ 160°F | Chart 2 | |
| 656 | 12R | 40 | 2 Mo. @ 160°F | Chart 2 | |
| 657 | 640R | 20 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 1.95 | 1.70 | 1.80 | 2.00 | 1.95 | 1.90 | 643 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 1.90 | 2.05 | 1.70 | 1.70 | 1.60 | 1.95 | 644 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.45 | 0.65 | 0.40 | 1.00 | 0.35 | 0.30 | 645 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.80 | 11.25 | 10.00 | 10.25 | 10.15 | 10.30 | 646 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 11.00 | 10.40 | 10.40 | 10.40 | 10.30 | 10.45 | 647 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 10.75 | 10.85 | 10.35 | 10.95 | 10.90 | 11.05 | 648 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.20 | 9.20 | 9.55 | 9.70 | 10.15 | 10.55 | 649 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs to 0.9V | 0.75 | 1.10 | 0.50 | 0.45 | 0.45 | 0.75 | 650 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs to 0.9V | 0.40 | 0.55 | 0.95 | 0.40 | 0.60 | 0.30 | 651 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 6.35 | 6.00 | 6.65 | 6.10 | 6.55 | 5.85 | 652 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.0 | 0.0 | 0.15 | 0.10 | 0.15 | 0.02 | 653 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.15 | 0.30 | 0.05 | 0.10 | 0.35 | 0.10 | 654 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.20 | 0.40 | 0.25 | 0.35 | 0.25 | 0.15 | 655 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.35 | 0.35 | 0.35 | 0.80 | 0.45 | 0.50 | 656 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 0.15 | 0.10 | 0.15 | 0.10 | 0.20 | 0.25 | 657 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 658 | 640R | 20 | Initial | Chart 1 | No. 4 Cell test defective |
| 659 | 640R | 20 | Initial | Chart 1 | 3 cells |
| 660 | 640R | 200 | Initial | Chart 1 | |
| 661 | 640R | 200 | Initial | Chart 1 | |
| 662 | 12R | 70 | 6 Mo. @ -20°F | Chart 2 | |
| 663 | 12R | 70 | 6 Mo. @ -20°F | Chart 2 | |
| 664 | 12R | 70 | 6 Mo. @ -20°F | Chart 2 | |
| 665 | 12R | 70 | 6 Mo. @ -20°F | Chart 2 | |
| 666 | 12R | 40 | 2 Mo. @ 160°F | Chart 2 | |
| 667 | 12R | 40 | 2 Mo. @ 160°F | Chart 2 | No. 4 Cell test defective |
| 668 | 12R | 70 | 2 Mo. @ 160°F | Chart 2 | |
| 669 | 12R | -20 | 2 Mo. @ 160°F | Chart 2 | All cells less than .05 hr. |
| 670 | 12R | -20 | 2 Mo. @ 160°F | Chart 2 | All cells less than .05 hr. |
| 671 | 640R | 70 | Initial | Chart 1 | No. 4 cell test defective |
| 672 | 640R | 70 | Initial | Chart 1 | 3 cells |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 0.20 | 0.10 | 0.20 | | 0.15 | 0.30 | 658 |
| ohms | 47 | 47 | 47 | | | | |
| Hrs to 0.9V | 0.25 | 0.30 | 0.30 | | | | 659 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 81.80 | 63.65 | 62.50 | 75.10 | 84.60 | 67.50 | 660 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 82.25 | 78.45 | 82.65 | 85.90 | 70.10 | 60.50 | 661 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.20 | 7.70 | 7.10 | 7.35 | 7.85 | 8.30 | 662 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 6.75 | 7.55 | 7.00 | 6.65 | 7.10 | 6.90 | 663 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.00 | 6.90 | 7.10 | 7.00 | 7.45 | 8.10 | 664 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 7.75 | 7.75 | 7.70 | 7.95 | 8.30 | 8.10 | 665 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 17.35 | 15.80 | 18.65 | 20.85 | 22.65 | 29.65 | 666 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 74.65 | 75.20 | 89.80 | | 90.85 | 85.40 | 667 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 6.15 | 6.30 | 6.55 | 5.85 | 5.95 | 5.85 | 668 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | | | | | | | 669 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | | | | | | | 670 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 18.70 | 19.90 | 20.75 | | 20.65 | 20.95 | 671 |
| ohms | 47 | 47 | 47 | | | | |
| Hrs to 0.9V | 22.70 | 23.70 | 22.70 | | | | 672 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 673 | 640R | 70 | Initial | Chart 1 | |
| 674 | 640R | 70 | Initial | Chart 1 | 3 cells |
| 675 | 640R | 200 | Initial | Chart 1 | |
| 676 | 640R | 200 | Initial | Chart 1 | |
| 677 | 12R | 115 | 6 Mo. @ -20°F | Chart 2 | |
| 678 | 12R | 115 | 6 Mo. @ -20°F | Chart 2 | |
| 679 | 12R | 115 | 6 Mo. @ -20°F | Chart 2 | |
| 680 | 12R | 115 | 6 Mo. @ -20°F | Chart 2 | |
| 681 | 640R | 160 | Initial | Chart 1 | |
| 682 | 640R | 160 | Initial | Chart 1 | |
| 683 | 640R | 160 | Initial | Chart 1 | 3 cells |
| 684 | 12R | 160 | 2 Mo. @ 160°F | Chart 2 | |
| 685 | 12R | 160 | 2 Mo. @ 160°F | Chart 2 | |
| 686 | 12R | 160 | 2 Mo. @ 160°F | Chart 2 | |
| 687 | 12R | 160 | 2 Mo. @ 160°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs to 0.9V | 15.50 | 20.30 | 18.25 | 17.25 | 18.25 | 15.55 | 673 |
| ohms | 39 | 39 | 39 | | | | |
| Hrs to 0.9V | 16.40 | 20.40 | 15.50 | | | | 674 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 21.85 | 23.05 | 23.15 | 22.45 | 23.40 | 23.30 | 675 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 5.70 | 20.10 | 22.80 | 22.75 | 6.90 | 21.20 | 676 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.60 | 9.35 | 9.95 | 10.00 | 9.95 | 10.65 | 677 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.35 | 10.35 | 9.85 | 9.60 | 8.85 | 9.65 | 678 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.50 | 9.65 | 9.80 | 9.30 | 10.95 | 10.30 | 679 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.70 | 9.80 | 10.35 | 9.45 | 9.95 | 9.70 | 680 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 13.45 | 8.50 | 7.40 | 8.95 | 8.70 | 8.15 | 681 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 7.95 | 8.95 | 8.60 | 9.75 | 9.10 | 9.00 | 682 |
| ohms | 18 | 18 | 18 | | | | |
| Hrs to 0.9V | 9.45 | 8.40 | 8.60 | | | | 683 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.7 | 9.5 | 9.55 | 9.20 | 9.45 | 9.25 | 684 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.35 | 10.0 | 9.7 | 9.25 | 9.45 | 9.20 | 685 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.70 | 9.30 | 9.55 | 9.65 | 9.65 | 10.20 | 686 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.30 | 9.40 | 9.30 | 9.35 | 1.25 | 9.25 | 687 |

## APPENDIX I II

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 688 | 12R | 70 | 2 Mo. @ 160°F | Chart 2 | |
| 689 | 12R | 160 | 6 Mo. @ 20°F | Chart 2 | |
| 690 | 12R | 160 | 6 Mo. @ 20°F | Chart 2 | |
| 691 | 12R | 160 | 6 Mo. @ 20°F | Chart 2 | |
| 692 | 12R | 160 | 6 Mo. @ 20°F | Chart 2 | |
| 693 | 640R | 20 | Initial | Chart 1 | |
| 694 | 640R | 20 | Initial | Chart 1 | No. 4 cell test defective |
| 695 | 640R | 20 | Initial | Chart 1 | 3 cells |
| 696 | 640R | 40 | Initial | Chart 1 | |
| 697 | 640R | 40 | Initial | Chart 1 | No. 2 cell test defective 3 cells |
| 698 | 640R | 20 | Initial | Chart 1 | |
| 699 | 640R | 20 | Initial | Chart 1 | |
| 700 | 640R | 20 | Initial | Chart 1 | 3 cells |
| 701 | 12R | 160 | 2 Mo. @ 160°F | Chart 2 | |
| 702 | 12R | 160 | 2 Mo. @ 160°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 103.75 | 101.60 | 97.25 | 98.95 | 104.15 | 102.16 | 688 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.50 | 9.90 | 9.25 | 10.00 | 10.75 | 9.45 | 689 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.70 | 10.20 | 10.10 | 10.45 | 9.70 | 9.60 | 690 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.95 | 10.90 | 9.35 | 10.70 | 9.20 | 9.90 | 691 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.90 | 9.50 | 9.75 | 10.15 | 9.60 | 9.50 | 692 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs to 0.9V | 0.15 | 0.50 | 0.15 | 0.20 | 0.15 | 0.15 | 693 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs to 0.9V | 0.20 | 0.20 | 0.20 | | 0.25 | 0.50 | 694 |
| ohms | 39 | 39 | 39 | | | | |
| Hrs to 0.9V | 0.25 | 0.05 | 0.45 | | | | 695 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 0.05 | 0.10 | 0.15 | 0.15 | 0.20 | 0.15 | 696 |
| ohms | 18 | 18 | 18 | | | | |
| Hrs to 0.9V | 0.05 | | 0.10 | | | | 697 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 0.05 | 0.10 | 0.05 | 0.35 | 0.10 | 0.10 | 698 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.10 | 699 |
| ohms | 18 | 18 | 18 | | | | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.10 | | | | 700 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 1.95 | 1.95 | 13.75 | 1.70 | 1.50 | 13.40 | 701 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 1.55 | 1.75 | 12.40 | 14.10 | 1.60 | 13.30 | 702 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 703 | 12R | 40 | 2 Mo. @ 160°F | Chart 2 | |
| 704 | 12R | 40 | 2 Mo. @ 160°F | Chart 2 | |
| 705 | 12R | 40 | 2 Mo. @ 160°F | Chart 2 | |
| 706 | 12R | 40 | 2 Mo. @ 160°F | Chart 2 | |
| 707 | 12R | -20 | 2 Mo. @ 160°F | Chart 2 | |
| 708 | 12R | -20 | 2 Mo. @ 160°F | Chart 2 | |
| 709 | 12R | 115 | 2 Mo. @ 160°F | Chart 2 | No. 5 cell test defective |
| 710 | 12R | 115 | 2 Mo. @ 160°F | Chart 2 | |
| 711 | 12R | 115 | 2 Mo. @ 160°F | Chart 2 | |
| 712 | 12R | 115 | 2 Mo. @ 160°F | Chart 2 | |
| 713 | 42R | 20 | Initial | Chart 1 | 3 cells |
| 714 | 42R | 200 | Initial | Chart 1 | 3 cells |
| 715 | 42R | 200 | Initial | Chart 1 | 3 cells |
| 716 | 12R | 40 | 6 Mo. @ -20°F | Chart 2 | |
| 717 | 12R | 40 | 6 Mo. @ -20°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.20 | 0.15 | 0.15 | 0.05 | 0.10 | 0.10 | 703 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.25 | 0.20 | 0.20 | 0.20 | 0.20 | 0.30 | 704 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.15 | 0.20 | 0.05 | 0.10 | 0.05 | 0.10 | 705 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.10 | 0.15 | 0.25 | 0.25 | 0.20 | 0.25 | 706 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 0.80 | 1.25 | 0.75 | 1.15 | 1.20 | 0.80 | 707 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 1.05 | 1.15 | 1.30 | 0.95 | 0.95 | 0.90 | 708 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 11.25 | 10.05 | 10.20 | 10.55 | | 11.05 | 709 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 10.20 | 10.40 | 11.35 | 9.95 | 9.20 | 10.10 | 710 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.95 | 9.80 | 10.00 | 9.85 | 9.90 | 10.20 | 711 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 10.20 | 10.45 | 10.20 | 10.40 | 10.30 | 10.45 | 712 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 0.05 | 0.05 | 0.00 | | | | 713 |
| ohms | 1.2 | 1.2 | 1.2 | | | | |
| Hrs to 0.9V | 15.05 | 14.20 | 14.45 | | | | 714 |
| ohms | 1.8 | 1.8 | 1.8 | | | | |
| Hrs to 0.9V | 20.70 | 15.50 | 22.10 | | | | 715 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.15 | 716 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.20 | 0.25 | 0.20 | 0.30 | 0.20 | 0.30 | 717 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 718 | 12R | 40 | 6 Mo. @ -20°F | Chart 2 | No. 6 Cell test defective |
| 719 | 12R | 40 | 6 Mo. @ -20°F | Chart 2 | |
| 720 | 12R | 160 | 6 Mo. @ 70°F | Chart 2 | |
| 721 | 12R | 160 | 6 Mo. @ 70°F | Chart 2 | 3 cells |
| 722 | 12R | 160 | 6 Mo. @ 115°F | Chart 2 | |
| 723 | 12R | 160 | 6 Mo. @ 115°F | Chart 2 | |
| 724 | 12R | 160 | 6 Mo. @ 115°F | Chart 2 | No. 1 Cell test defective |
| 725 | 12R | 160 | 6 Mo. @ 115°F | Chart 2 | |
| 726 | 12R | 115 | 6 Mo. @ 20°F | Chart 2 | |
| 727 | 12R | 115 | 6 Mo. @ 20°F | Chart 2 | |
| 728 | 12R | 115 | 6 Mo. @ 20°F | Chart 2 | |
| 729 | 12R | 115 | 6 Mo. @ 20°F | Chart 2 | |
| 730 | 640R | 40 | Initial | Chart 1 | |
| 731 | 640R | 40 | Initial | Chart 1 | |
| 732 | 640R | 40 | Initial | Chart 1 | 3 cells |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.10 | 0.25 | 0.20 | | 718 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.20 | 0.25 | 0.20 | 0.30 | 0.20 | 0.40 | 719 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.4 | 9.9 | 9.7 | 9.45 | 9.9 | 10.05 | 720 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 9.65 | 9.40 | 9.15 | | | | 721 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.8 | 8.4 | 8.75 | 10.15 | 8.95 | 10.20 | 722 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.55 | 7.55 | 8.35 | 9.40 | 9.30 | 9.70 | 723 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | | 8.60 | 8.95 | 8.55 | 8.10 | 8.10 | 724 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.95 | 8.75 | 8.95 | 9.40 | 8.55 | 9.45 | 725 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 10.40 | 10.45 | 9.05 | 9.65 | 10.05 | 9.45 | 726 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.35 | 9.25 | 8.25 | 11.00 | 9.80 | 9.95 | 727 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.85 | 10.45 | 9.75 | 9.70 | 8.90 | 9.10 | 728 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.75 | 9.15 | 9.50 | 10.10 | 10.30 | 9.20 | 729 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 45.15 | 16.75 | 22.95 | 11.45 | 18.70 | 26.10 | 730 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 46.00 | 42.25 | 45.10 | 43.20 | 40.60 | 45.15 | 731 |
| ohms | 180 | 180 | 180 | | | | |
| Hrs to 0.9V | 73.25 | 73.35 | 73.05 | | | | 732 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 733 | 12R | 200 | 6 Mo. @ -20°F | Chart 2 | |
| 734 | 12R | 200 | 6 Mo. @ -20°F | Chart 2 | |
| 735 | 12R | 200 | 6 Mo. @ -20°F | Chart 2 | |
| 736 | 12R | 200 | 6 Mo. @ -20°F | Chart 2 | |
| 737 | 12R | 115 | 6 Mo. @ 70°F | Chart 2 | |
| 738 | 12R | 115 | 6 Mo. @ 70°F | Chart 2 | 3 cells |
| 739 | 12R | 40 | 6 Mo. @ 20°F | Chart 2 | |
| 740 | 12R | 40 | 6 Mo. @ 20°F | Chart 2 | |
| 741 | 12R | 40 | 6 Mo. @ 20°F | Chart 2 | |
| 742 | 12R | 40 | 6 Mo. @ 20°F | Chart 2 | |
| 743 | 12R | 160 | 6 Mo. @ 115°F | Chart 2 | |
| 744 | 12R | 160 | 6 Mo. @ 115°F | Chart 2 | |
| 745 | 42R | 160 | Initial | Chart 1 | |
| 746 | 42R | 160 | Initial | Chart 1 | 3 Cells |
| 747 | 12R | 115 | 6 Mo. @ 115°F | Chart 2 | No. 6 Cell Test defective |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 3.05 | 2.25 | 1.85 | 2.40 | 2.00 | 1.70 | 733 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.25 | 2.30 | 8.40 | 2.45 | 2.40 | 8.45 | 734 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.95 | 6.10 | 1.95 | 7.70 | 8.60 | 1.60 | 735 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 6.5 | 8.3 | 2.2 | 7.6 | 6.85 | 7.15 | 736 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.45 | 9.35 | 9.40 | 10.55 | 10.55 | 9.55 | 737 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 9.70 | 9.45 | 9.35 | | | | 738 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.30 | 0.25 | 0.25 | 0.25 | 0.20 | 0.25 | 739 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.40 | 0.45 | 0.40 | 0.35 | 0.50 | 0.55 | 740 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.35 | 0.25 | 0.25 | 0.20 | 0.20 | 0.25 | 741 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.60 | 0.35 | 0.40 | 0.50 | 0.45 | 0.45 | 742 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 2.8 | 9.05 | 8.70 | 8.25 | 8.70 | 8.85 | 743 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.65 | 9.05 | 9.25 | 9.90 | 9.30 | 9.75 | 744 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs to 0.9V | 9.65 | 9.65 | 10.40 | 9.10 | 10.00 | 9.75 | 745 |
| ohms | 0.75 | 0.75 | 0.75 | | | | |
| Hrs to 0.9V | 9.00 | 9.90 | 9.65 | | | | 746 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.35 | 8.50 | 8.35 | 7.80 | 8.60 | | 747 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 748 | 12R | 115 | 6 Mo. @ 115°F | Chart 2 | |
| 749 | 12R | 115 | 6 Mo. @ 115°F | Chart 2 | |
| 750 | 12R | 115 | 6 Mo. @ 115°F | Chart 2 | |
| 751 | 12R | 40 | 6 Mo. @ 115°F | Chart 2 | |
| 752 | 12R | 40 | 6 Mo. @ 115°F | Chart 2 | |
| 753 | 12R | 40 | 6 Mo. @ 115°F | Chart 2 | |
| 754 | 12R | 40 | 6 Mo. @ 115°F | Chart 2 | |
| 755 | 640R | 200 | Initial | Chart 1 | 3 cells |
| 756 | 12R | 20 | Initial | Chart 1 | |
| 757 | 12R | 20 | Initial | Chart 1 | |
| 758 | 12R | 20 | Initial | Chart 1 | 3 cells |
| 759 | 12R | -20 | Initial | Chart 1 | |
| 760 | 12R | -20 | Initial | Chart 1 | |
| 761 | 12R | -20 | Initial | Chart 1 | 3 cells |
| 762 | 12R | 0 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.90 | 9.50 | 7.55 | 8.15 | 7.75 | 8.15 | 748 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.4 | 7.75 | 8.05 | 8.00 | 8.70 | 8.70 | 749 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.45 | 8.45 | 10.25 | 7.75 | 8.10 | 8.55 | 750 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.20 | 0.10 | 0.20 | 0.10 | 0.10 | 0.15 | 751 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.20 | 0.15 | 0.15 | 0.15 | 0.20 | 0.15 | 752 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.15 | 0.10 | 0.20 | 0.15 | 0.15 | 0.25 | 753 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.20 | 0.25 | 0.25 | 0.20 | 0.25 | 0.25 | 754 |
| ohms | 180 | 180 | 180 | | | | |
| Hrs to 0.9V | 49.4 | 49.45 | 49.35 | | | | 755 |
| ohms | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | |
| Hrs to 0.9V | 0.15 | 0.10 | 0.20 | 0.15 | 0.20 | 0.15 | 756 |
| ohms | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | |
| Hrs to 0.9V | 0.20 | 0.20 | 0.15 | 0.10 | 0.15 | 0.25 | 757 |
| ohms | 5.6 | 5.6 | 5.6 | | | | |
| Hrs to 0.9V | 0.35 | 0.20 | 0.40 | | | | 758 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 0.05 | 0.10 | 0.10 | 0.05 | 0.10 | 0.10 | 759 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 0.10 | 0.20 | 0.25 | 0.15 | 0.15 | 0.20 | 760 |
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs to 0.9V | 0.20 | 0.20 | 0.20 | | | | 761 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 0.15 | 0.20 | 0.15 | 0.15 | 0.15 | 0.10 | 762 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 763 | 12R | 0 | Initial | Chart 1 | |
| 764 | 12R | 0 | Initial | Chart 1 | 3 cells |
| 765 | 42R | -20 | Initial | Chart 1 | |
| 766 | 42R | 160 | Initial | Chart 1 | |
| 767 | 42R | 20 | Initial | Chart 1 | No. 2 cell test defective |
| 768 | 42R | 20 | Initial | Chart 1 | |
| 769 | 42R | -20 | Initial | Chart 1 | 3 cells. Cell No. 2 & 3 less than 0.05 hr. |
| 770 | 12R | 115 | 2 Mo. @ 160°F | Chart 2 | |
| 771 | 12R | 115 | 2 Mo. @ 160°F | Chart 2 | |
| 772 | 12R | 115 | 2 Mo. @ 160°F | Chart 2 | |
| 773 | 12R | 115 | 2 Mo. @ 160°F | Chart 2 | |
| 774 | 12R | 40 | 6 Mo. @ 70°F | Chart 2 | |
| 775 | 12R | 40 | 6 Mo. @ 70°F | Chart 2 | 3 cells |
| 776 | 12R | 200 | 6 Mo. @ 70°F | Chart 2 | |
| 777 | 12R | 200 | 6 Mo. @ 70°F | Chart 2 | 3 cells |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs to 0.9V | 0.15 | 0.20 | 0.15 | 0.10 | 0.25 | 0.20 | 763 |
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs to 0.9V | 0.05 | 0.10 | 0.10 | | | | 764 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 765 |
| ohms | .75 | .75 | .75 | .75 | .75 | .75 | |
| Hrs to 0.9V | 10.00 | 10.00 | 9.00 | 10.00 | 9.70 | 9.70 | 766 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 0.10 | | 0.15 | 0.15 | 0.20 | 0.10 | 767 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs to 0.9V | 0.15 | 0.20 | 0.15 | 0.15 | 0.15 | 0.15 | 768 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | 0.10 | | | | | | 769 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 15.65 | 13.85 | 14.05 | 14.35 | 15.15 | 14.10 | 770 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 14.95 | 14.25 | 15.40 | 14.60 | 14.00 | 14.90 | 771 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 14.75 | 14.85 | 15.15 | 13.95 | 14.70 | 14.35 | 772 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 14.90 | 14.65 | 13.80 | 14.40 | 14.10 | 14.20 | 773 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 774 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 0.15 | 0.10 | 0.10 | | | | 775 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 2.45 | 1.90 | 2.85 | 2.25 | 1.95 | 2.25 | 776 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 1.95 | 2.50 | 1.70 | | | | 777 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 778 | 42R | 115 | Initial | Chart 1 | |
| 779 | 42R | 115 | Initial | Chart 1 | |
| 780 | 42R | 115 | Initial | Chart 1 | 3 Cells |
| 781 | 42R | 115 | Initial | Chart 1 | |
| 782 | 42R | 115 | Initial | Chart 1 | |
| 783 | 42R | 115 | Initial | Chart 1 | 3 cells |
| 784 | 12R | 200 | 6 Mo. @ 115°F | Chart 2 | No. 3 cell test defective |
| 785 | 12R | 200 | 6 Mo. @ 115°F | Chart 2 | |
| 786 | 640R | -20 | Initial | Chart 1 | |
| 787 | 640R | -20 | Initial | Chart 1 | |
| 788 | 640R | -20 | Initial | Chart 1 | 3 cells |
| 789 | 42R | -20 | Initial | Chart 1 | 3 cells.All less than0.05 hrs. |
| 790 | 12R | 200 | 6 Mo. @ 20°F. | Chart 2 | |
| 791 | 12R | 200 | 6 Mo. @ 20°F. | Chart 2 | |
| 792 | 12R | 200 | 6 Mo. @ 20°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 59.50 | 58.20 | 57.80 | 57.80 | 63.80 | 58.4 | 778 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 60.65 | 58.5 | 57.45 | 64.05 | 62.3 | 55.8 | 779 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs to 0.9V | 57.8 | 58.1 | 58.45 | | | | 780 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs to 0.9V | 5.25 | 5.75 | 6.3 | 7.35 | 5.95 | 5.95 | 781 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs to 0.9V | 5.25 | 6.30 | 5.55 | 6.05 | 6.25 | 6.55 | 782 |
| ohms | 0.75 | 0.75 | 0.75 | | | | |
| Hrs to 0.9V | 7.10 | 6.90 | 6.75 | | | | 783 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 8.60 | 9.65 | | 8.30 | 1.25 | 8.00 | 784 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.55 | 7.95 | 7.55 | 7.80 | 8.70 | 8.50 | 785 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 0.90 | 0.65 | 1.00 | 0.95 | 0.75 | 0.55 | 786 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 0.75 | 0.75 | 0.85 | 0.90 | 0.75 | 0.70 | 787 |
| ohms | 180 | 180 | 180 | | | | |
| Hrs to 0.9V | 0.70 | 0.60 | 0.75 | | | | 788 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs to 0.9V | | | | | | | 789 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.10 | 2.05 | 1.25 | 2.30 | 1.65 | 2.75 | 790 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.60 | 3.00 | 6.50 | 2.40 | 1.80 | 2.50 | 791 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.25 | 1.65 | 1.75 | 2.25 | 2.00 | 1.95 | 792 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 793 | 12R | 200 | 6 Mo. @ 20°F | Chart 2 | No. 2 cell test defective |
| 794 | 12R | 200 | 2 Mo. @ 160°F | Chart 2 | |
| 795 | 12R | 200 | 2 Mo. @ 160°F | Chart 2 | |
| 796 | 12R | 200 | 2 Mo. @ 160°F | Chart 2 | |
| 797 | 12R | 200 | 2 Mo. @ 160°F | Chart 2 | |
| 798 | 12R | 200 | 2 Mo. @ 160°F | Chart 2 | |
| 799 | 12R | 200 | 2 Mo. @ 160°F | Chart 2 | |
| 800 | 12R | 200 | 2 Mo. @ 160°F | Chart 2 | |
| 801 | 12R | 200 | 2 Mo. @ 160°F | Chart 2 | |
| 802 | 640R | 20 | Initial | Chart 1 | |
| 803 | 640R | 20 | Initial | Chart 1 | 3 cells |
| 804 | 640R | 20 | Initial | Chart 1 | |
| 805 | 640R | 20 | Initial | Chart 1 | |
| 806 | 640R | 20 | Initial | Chart 1 | No. 4 cell test defective |
| 807 | 640R | 20 | Initial | Chart 1 | 3 cells |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 2.45 | | 2.65 | 1.90 | 2.70 | 2.30 | 793 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 2.20 | 2.00 | 2.20 | 1.95 | 2.20 | 2.65 | 794 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.95 | 2.35 | 2.10 | 2.10 | 2.00 | 2.20 | 795 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 2.05 | 2.35 | 2.15 | 1.85 | 2.25 | 2.10 | 796 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 2.25 | 1.95 | 2.00 | 2.20 | 2.20 | 2.00 | 797 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.15 | 1.35 | 1.40 | 1.55 | 1.30 | 7.00 | 798 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.55 | 1.80 | 1.50 | 1.30 | 1.20 | 1.55 | 799 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.35 | 1.55 | 1.30 | 1.70 | 1.55 | 1.50 | 800 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.25 | 8.60 | 1.55 | 1.70 | 1.75 | 1.35 | 801 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs to 0.9V | 0.40 | 0.40 | 0.60 | 0.30 | 0.50 | 0.55 | 802 |
| ohms | 68 | 68 | 68 | | | | |
| Hrs to 0.9V | 0.75 | 0.50 | 0.45 | | | | 803 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs to 0.9V | 0.50 | 0.35 | 0.60 | 0.60 | 0.65 | 0.60 | 804 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs to 0.9V | 4.15 | 0.95 | 0.95 | 0.90 | 2.60 | 0.35 | 805 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs to 0.9V | 0.50 | 1.25 | 1.40 | | 1.00 | 1.05 | 806 |
| ohms | 100 | 100 | 100 | | | | |
| Hrs to 0.9V | 1.60 | 1.90 | 1.55 | | | | 807 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 808 | 42R | 200 | Initial | Chart 1 | |
| 809 | 42R | 200 | Initial | Chart 1 | 3 cells |
| 810 | 12R | 20 | Initial | Chart 1 | |
| 811 | 12R | 20 | Initial | Chart 1 | |
| 812 | 12R | 20 | Initial | Chart 1 | 3 cells |
| 813 | 640R | 200 | Initial | Chart 1 | |
| 814 | 640R | 200 | Initial | Chart 1 | |
| 815 | 640R | 200 | Initial | Chart 1 | 3 cells |
| 816 | 640R | 115 | Initial | Chart 1 | |
| 817 | 640R | 115 | Initial | Chart 1 | |
| 818 | 640R | 115 | Initial | Chart 1 | 3 cells |
| 819 | 640R | 115 | Initial | Chart 1 | 3 cells |
| 820 | 640R | 200 | Initial | Chart 1 | |
| 821 | 640R | 200 | Initial | Chart 1 | |
| 822 | 640R | 200 | Initial | Chart 1 | 3 cells |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs to 0.9V | 9.15 | 9.75 | 9.70 | 9.90 | 10.10 | 10.15 | 808 |
| ohms | 0.75 | 0.75 | 0.75 | | | | |
| Hrs to 0.9V | 5.95 | 8.95 | 10.30 | | | | 809 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs to 0.9V | 0.70 | 1.00 | 0.25 | 0.40 | 0.35 | 1.00 | 810 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs to 0.9V | 0.95 | 0.35 | 1.70 | 0.70 | 0.40 | 0.25 | 811 |
| ohms | 12 | 12 | 12 | | | | |
| Hrs to 0.9V | 0.20 | 0.50 | 0.80 | | | | 812 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 8.20 | 9.50 | 7.75 | 8.95 | 7.05 | 8.15 | 813 |
| ohms | 18 | 18 | 18 | 18 | 18 | 18 | |
| Hrs to 0.9V | 8.30 | 8.75 | 8.80 | 8.05 | 8.60 | 9.10 | 814 |
| ohms | 18 | 18 | 18 | | | | |
| Hrs to 0.9V | 7.25 | 8.55 | 7.80 | | | | 815 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs to 0.9V | 33.05 | 33.30 | 33.35 | 26.95 | 27.95 | 32.25 | 816 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs to 0.9V | 25.70 | 33.20 | 32.75 | 31.60 | 33.50 | 28.75 | 817 |
| ohms | 68 | 68 | 68 | | | | |
| Hrs to 0.9V | 30.30 | 30.80 | 31.95 | | | | 818 |
| ohms | 18 | 18 | 18 | | | | |
| Hrs to 0.9V | 8.75 | 9.45 | 9.55 | | | | 819 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs to 0.9V | 52.75 | 40.90 | 47.10 | 49.50 | 35.90 | 34.05 | 820 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs to 0.9V | 47.40 | 50.15 | 46.10 | 42.45 | 17.50 | 48.55 | 821 |
| ohms | 100 | 100 | 100 | | | | |
| Hrs to 0.9V | 14.90 | 47.40 | 47.50 | | | | 822 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-5274 Reference | Notes |
|---|---|---|---|---|---|
| 823 | 640R | 115 | Initial | Chart 1 | |
| 824 | 640R | 115 | Initial | Chart 1 | |
| 825 | 640R | 115 | Initial | Chart 1 | 3 cells |
| 826 | 640R | 0 | Initial | Chart 1 | |
| 827 | 640R | 0 | Initial | Chart 1 | |
| 828 | 640R | 0 | Initial | Chart 1 | 3 cells |
| 829 | 640R | 0 | Initial | Chart 1 | |
| 830 | 640R | 0 | Initial | Chart 1 | |
| 831 | 640R | 0 | Initial | Chart 1 | 3 cells |
| 832 | 42R | 70 | Initial | Chart 1 | |
| 833 | 42R | 70 | Initial | Chart 1 | |
| 834 | 42R | 70 | Initial | Chart 1 | 3 cells |
| 835 | 12R | 70 | 6 Mo. @ +20°F | Chart 2 | |
| 836 | 12R | 70 | 6 Mo. @ +20°F | Chart 2 | Cell 3 test defective |
| 837 | 12R | 70 | 6 Mo. @ +20°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 45.20 | 52.40 | 48.75 | 45.65 | 38.05 | 49.30 | 823 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 31.10 | 45.80 | 48.60 | 47.10 | 49.30 | 47.70 | 824 |
| ohms | 100 | 100 | 100 | | | | |
| Hrs. to 0.9V | 44.50 | 45.95 | 42.50 | | | | 825 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs. to 0.9V | 0.10 | 0.10 | 0.10 | 0.10 | 0.15 | 0.15 | 826 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs. to 0.9V | 0.10 | 0.15 | 0.15 | 0.10 | 0.15 | 0.15 | 827 |
| ohms | 39 | 39 | 39 | | | | |
| Hrs. to 0.9V | 0.10 | 0.10 | 0.15 | | | | 828 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs. to 0.9V | 0.70 | 0.90 | 0.65 | 1.00 | 1.45 | 2.15 | 829 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs. to 0.9V | 1.15 | 1.40 | 1.55 | 1.30 | 1.20 | 1.55 | 830 |
| ohms | 180 | 180 | 180 | | | | |
| Hrs. to 0.9V | 1.05 | 1.40 | 1.10 | | | | 831 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 65.00 | 61.70 | 57.95 | 58.35 | 56.55 | 59.15 | 832 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 56.95 | 59.25 | 59.10 | 57.70 | 58.65 | 60.20 | 833 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs. to 0.9V | 59.15 | 61.50 | 57.65 | | | | 834 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 5.60 | 7.50 | 1.25 | 4.85 | 5.60 | 5.25 | 835 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.75 | 5.70 | | 5.40 | 4.70 | 4.05 | 836 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 4.65 | 5.65 | 7.00 | 7.45 | 5.30 | 4.80 | 837 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 838 | 12R | 70 | 6 Mo. @ +20°F | Chart 2 | |
| 839 | 42R | 70 | Initial | Chart 1 | 3 cells |
| 840 | 42R | 200 | Initial | Chart 1 | |
| 841 | 640R | 0 | Initial | Chart 1 | |
| 842 | 640R | 0 | Initial | Chart 1 | |
| 843 | 640R | 0 | Initial | Chart 1 | 3 cells |
| 844 | 12R | 70 | Initial | Chart 1 | |
| 845 | 12R | 70 | Initial | Chart 1 | |
| 846 | 12R | 70 | Initial | Chart 1 | 3 cells |
| 847 | 12R | -20 | Initial | Chart 1 | |
| 848 | 12R | -20 | Initial | Chart 1 | |
| 849 | 12R | -20 | Initial | Chart 1 | 3 cells |
| 850 | 640R | 200 | Initial | Chart 1 | |
| 851 | 640R | 200 | Initial | Chart 1 | |
| 852 | 640R | 200 | Initial | Chart 1 | 3 cells.No.2 cell test defective |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| Ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 5.65 | 5.40 | 5.80 | 6.90 | 5.35 | 5.65 | 838 |
| ohms | 0.75 | 0.75 | 0.75 | | | | |
| Hrs. to 0.9V | 5.10 | 5.55 | 12.55 | | | | 839 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs. to 0.9V | 10.35 | 9.70 | 10.55 | 10.40 | 9.80 | 10.45 | 840 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs. to 0.9V | 0.10 | 0.10 | 0.15 | 0.10 | 0.10 | 0.10 | 841 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs. to 0.9V | 0.05 | 0.10 | 0.10 | 0.10 | 0.10 | 0.15 | 842 |
| ohms | 47 | 47 | 47 | | | | 843 |
| Hrs. to 0.9V | 0.15 | 0.15 | 0.20 | | | | |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 37.65 | 36.65 | 39.40 | 37.45 | 35.85 | 37.80 | 844 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 34.75 | 36.85 | 36.20 | 36.55 | 37.35 | 34.70 | 845 |
| ohms | 12 | 12 | 12 | | | | |
| Hrs. to 0.9V | 35.90 | 35.85 | 35.80 | | | | 846 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 0.30 | 0.30 | 0.25 | 0.25 | 0.25 | 0.25 | 847 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 0.30 | 0.30 | 0.35 | 0.35 | 0.25 | 0.35 | 848 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 0.15 | 0.30 | 0.20 | | | | 849 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs. to 0.9V | 10.95 | 11.05 | 10.50 | 8.45 | 9.20 | 10.35 | 850 |
| ohms | 22 | 22 | 22 | 22 | 22 | 22 | |
| Hrs. to 0.9V | 11.05 | 9.95 | 8.40 | 9.80 | 11.05 | 10.75 | 851 |
| ohms | 22 | 22 | 22 | | | | |
| Hrs. to 0.9V | 10.95 | | 9.85 | | | | 852 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 853 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | |
| 854 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | |
| 855 | 12R | 200 | Initial | Chart 1 | |
| 856 | 12R | 200 | Initial | Chart 1 | |
| 857 | 12R | 200 | Initial | Chart 1 | 3 cells |
| 858 | 12R | 200 | Initial | Chart 1 | Cell 1,5 test defective |
| 859 | 12R | 200 | Initial | Chart 1 | |
| 860 | 12R | 200 | Initial | Chart 1 | 3 cells |
| 861 | 640R | 200 | Initial | Chart 1 | |
| 862 | 640R | 200 | Initial | Chart 1 | |
| 863 | 640R | 200 | Initial | Chart 1 | 3 cells |
| 864 | 42R | -20 | Initial | Chart 1 | All less than 0.02 hr. |
| 865 | 42R | -20 | Initial | Chart 1 | All less than 0.02 hr. |
| 866 | 42R | -20 | Initial | Chart 1 | 3 cells. All less than 0.02 hr |
| 867 | 640R | 0 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.85 | 0.70 | 0.80 | 0.80 | 1.00 | 0.85 | 853 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.75 | 0.80 | 0.95 | 0.85 | 0.85 | 0.80 | 854 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 17.05 | 24.10 | 24.70 | 22.50 | 20.40 | 22.30 | 855 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 17.45 | 21.05 | 23.60 | 22.85 | 25.60 | 20.45 | 856 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 17.20 | 20.45 | 41.20 | | | | 857 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | | 17.55 | 16.00 | 18.30 | | 13.15 | 858 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 17.00 | 16.20 | 16.90 | 16.20 | 16.95 | 17.10 | 859 |
| ohms | 12 | 12 | 12 | | | | |
| Hrs. to 0.9V | 17.05 | 14.60 | 14.25 | | | | 860 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 13.25 | 13.15 | 11.35 | 11.70 | 12.10 | 9.65 | 861 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 11.90 | 12.45 | 13.35 | 12.70 | 2.70 | 10.50 | 862 |
| ohms | 27 | 27 | 27 | | | | |
| Hrs. to 0.9V | 13.85 | 11.95 | 12.20 | | | | 863 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs. to 0.9V | | | | | | | 864 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs. to 0.9V | | | | | | | 865 |
| ohms | 0.75 | 0.75 | 0.75 | | | | |
| Hrs. to 0.9V | | | | | | | 866 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs. to 0.9V | 0.25 | 0.30 | 0.25 | 0.45 | 0.45 | 0.40 | 867 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 868 | 640R | 0 | Initial | Chart 1 | |
| 869 | 640R | 0 | Initial | Chart 1 | 3 cells |
| 870 | 12R | 70 | 6 Mo. @ 70°F | Chart 2 | |
| 871 | 12R | 70 | 6 Mo. @ 70°F | Chart 2 | 3 cells |
| 872 | 42R | 70 | Initial | Chart 1 | |
| 873 | 42R | 70 | Initial | Chart 1 | Test not made |
| 874 | 42R | 70 | Initial | Chart 1 | 3 cells |
| 875 | 42R | 40 | Initial | Chart 1 | |
| 876 | 42R | 40 | Initial | Chart 1 | No.5 cell test defective |
| 877 | 42R | 40 | Initial | Chart 1 | 3 cells |
| 878 | 42R | 20 | Initial | Chart 1 | All less than 0.02 hr. |
| 879 | 42R | 20 | Initial | Chart 1 | All less than 0.02 hr. |
| 880 | 42R | 20 | Initial | Chart 1 | 3 cells. All less than 0.02 hr. |
| 881 | 42R | 70 | Initial | Chart 1 | |
| 882 | 42R | 70 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs. to 0.9V | 0.25 | 0.40 | 0.50 | 0.50 | 0.45 | 0.35 | 868 |
| ohms | 68 | 68 | 68 | | | | |
| Hrs. to 0.9V | 0.25 | 0.25 | 0.25 | | | | 869 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.75 | 4.70 | 5.45 | 4.55 | 4.55 | 3.75 | 870 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs. to 0.9V | 3.40 | 4.85 | 5.90 | | | | 871 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 195.05 | 187.10 | 190.70 | 195.50 | 191.95 | 188.0 | 872 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | | | | | | | 873 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 194.65 | 196.55 | 201.70 | | | | 874 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 195.20 | 191.15 | 191.35 | 197.65 | 191.05 | 186.90 | 875 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 151.75 | 170.95 | 160.90 | 170.20 | | 169.65 | 876 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 180.30 | 190.30 | 183.05 | | | | 877 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs. to 0.9V | | | | | | | 878 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs. to 0.9V | | | | | | | 879 |
| ohms | 0.75 | 0.75 | 0.75 | | | | |
| Hrs. to 0.9V | | | | | | | 880 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 38.75 | 41.35 | 42.30 | 41.45 | 41.50 | 40.55 | 881 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 43.00 | 41.05 | 50.50 | 42.80 | 40.20 | 39.95 | 882 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 883 | 42R | 70 | Initial | Chart 1 | 3 cells |
| 884 | 42R | 115 | Initial | Chart 1 | |
| 885 | 42R | 115 | Initial | Chart 1 | |
| 886 | 42R | 115 | Initial | Chart 1 | 3 cells |
| 887 | 64OR | 40 | Initial | Chart 1 | 3 cells |
| 888 | 42R | 0 | Initial | Chart 1 | |
| 889 | 42R | 0 | Initial | Chart 1 | |
| 890 | 42R | 0 | Initial | Chart 1 | 3 cells |
| 891 | 64OR | 160 | Initial | Chart 1 | No.3,4,&5 cell test defective |
| 892 | 64OR | 160 | Initial | Chart 1 | No.2&6 cell test defective |
| 893 | 64OR | 160 | Initial | Chart 1 | 3 cells. No. 2&3 cell test defective |
| 894 | 64OR | 0 | Initial | Chart 1 | |
| 895 | 64OR | 0 | Initial | Chart 1 | |
| 896 | 64OR | 0 | Initial | Chart 1 | 3 cells |
| 897 | 64OR | 40 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs. to 0.9V | 39.40 | 42.85 | 51.10 | | | | 883 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 40.05 | 42.70 | 46.15 | 40.45 | 48.55 | 40.70 | 884 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 44.95 | 42.10 | 41.40 | 42.75 | 41.35 | 40.45 | 885 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs. to 0.9V | 40.30 | 42.80 | 41.50 | | | | 886 |
| ohms | 39 | 39 | 39 | | | | |
| Hrs. to 0.9V | 0.65 | 0.75 | 0.65 | | | | 887 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.15 | 0.15 | 0.20 | 0.15 | 0.20 | 0.25 | 888 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.20 | 0.20 | 0.20 | 0.25 | 0.25 | 0.25 | 889 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs. to 0.9V | 0.20 | 0.25 | 0.30 | | | | 890 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 30.75 | 29.70 | | | | 27.90 | 891 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 34.35 | | 31.00 | 24.95 | 31.15 | | 892 |
| ohms | 100 | 100 | 100 | | | | |
| Hrs. to 0.9V | 33.75 | | | | | | 893 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 0.35 | 0.35 | 0.60 | 0.60 | 0.50 | 0.70 | 894 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 0.45 | 0.65 | 0.50 | 0.50 | 0.60 | 0.40 | 895 |
| ohms | 100 | 100 | 100 | | | | |
| Hrs. to 0.9V | 0.60 | 0.60 | 0.55 | | | | 896 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs. to 0.9V | 0.85 | 0.85 | 1.15 | 1.05 | 1.15 | 1.50 | 897 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 898 | 640R | 40 | Initial | Chart 1 | |
| 899 | 640R | 40 | Initial | Chart 1 | 3 cells |
| 900 | 640R | 40 | Initial | Chart 1 | |
| 901 | 640R | 40 | Initial | Chart 1 | |
| 902 | 640R | 40 | Initial | Chart 1 | 3 cells. Cell 3, incorrect load resistor |
| 903 | 42R | 0 | Initial | Chart 1 | |
| 904 | 42R | 0 | Initial | Chart 1 | |
| 905 | 42R | 0 | Initial | Chart 1 | 3 cells |
| 906 | 42R | 20 | Initial | Chart 1 | |
| 907 | 42R | 20 | Initial | Chart 1 | |
| 908 | 42R | 20 | Initial | Chart 1 | 3 cells |
| 909 | 42R | 200 | Initial | Chart 1 | |
| 910 | 42R | 200 | Initial | Chart 1 | |
| 911 | 42R | 200 | Initial | Chart 1 | 3 cells |
| 912 | 42R | 200 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs. to 0.9V | 2.05 | 2.05 | 1.60 | 3.00 | 2.05 | 5.15 | 898 |
| ohms | 68 | 68 | 68 | | | | |
| Hrs. to 0.9V | 1.80 | 1.55 | 1.65 | | | | 899 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 4.25 | 2.75 | 3.65 | 7.25 | 3.10 | 2.90 | 900 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 2.05 | 3.60 | 4.15 | 4.80 | 3.35 | 4.40 | 901 |
| ohms | 100 | 100 | 100 | | | | |
| Hrs. to 0.9V | 5.10 | 3.50 | 25.80 | | | | 902 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs. to 0.9V | 0.05 | 0.10 | 0.10 | 0.10 | 0.10 | 0.25 | 903 |
| ohms | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| Hrs. to 0.9V | 0.10 | 0.10 | 0.10 | 0.10 | 0.15 | 0.10 | 904 |
| ohms | 2.2 | 2.2 | 2.2 | | | | |
| Hrs. to 0.9V | 0.15 | 0.15 | 0.10 | | | | 905 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.20 | 0.15 | 0.30 | 0.20 | 0.20 | 0.15 | 906 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.25 | 0.20 | 0.30 | 0.20 | 0.35 | 0.25 | 907 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs. to 0.9V | 0.25 | 0.25 | 0.30 | | | | 908 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 38.55 | 39.20 | 28.45 | 36.25 | 35.80 | 33.80 | 909 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 29.45 | 35.40 | 38.55 | 36.55 | 32.90 | 37.35 | 910 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs. to 0.9V | 33.90 | 38.70 | 41.70 | | | | 911 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 47.40 | 47.50 | 46.55 | 50.65 | 46.90 | 50.45 | 912 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 913 | 42R | 200 | Initial | Chart 1 | |
| 914 | 42R | 200 | Initial | Chart 1 | 3 cells |
| 915 | 12R | -20 | Initial | Chart 1 | |
| 916 | 12R | -20 | Initial | Chart 1 | |
| 917 | 12R | -20 | Initial | Chart 1 | 3 cells |
| 918 | 640R | 200 | Initial | Chart 1 | |
| 919 | 640R | 200 | Initial | Chart 1 | |
| 920 | 640R | 200 | Initial | Chart 1 | 3 cells |
| 921 | 640R | 70 | Initial | Chart 1 | |
| 922 | 640R | 70 | Initial | Chart 1 | |
| 923 | 640R | 70 | Initial | Chart 1 | 3 cells |
| 924 | 42R | 20 | Initial | Chart 1 | No.1,2,5 & 6 cell test defective |
| 925 | 42R | 20 | Initial | Chart 1 | |
| 926 | 42R | 20 | Initial | Chart 1 | No.3 cell test defective-3 cells |
| 927 | 42R | 40 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 51.20 | 49.20 | 49.40 | 43.20 | 52.75 | 45.60 | 913 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs. to 0.9V | 48.75 | 47.95 | 57.00 | | | | 914 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 0.15 | 0.20 | 0.20 | 0.25 | 0.20 | 0.20 | 915 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 0.25 | 0.25 | 0.20 | 0.25 | 0.20 | 0.25 | 916 |
| ohms | 12 | 12 | 12 | | | | |
| Hrs. to 0.9V | 0.25 | 0.20 | 0.20 | | | | 917 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs. to 0.9V | 31.75 | 29.00 | 31.70 | 26.55 | 35.05 | 33.10 | 918 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs. to 0.9V | 29.30 | 31.95 | 32.75 | 33.05 | 26.20 | 33.70 | 919 |
| ohms | 68 | 68 | 68 | | | | |
| Hrs. to 0.9V | 21.95 | 32.95 | 31.10 | | | | 920 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 48.85 | 52.35 | 49.50 | 50.30 | 49.05 | 50.05 | 921 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 48.00 | 49.25 | 49.30 | 52.35 | 50.90 | 50.15 | 922 |
| ohms | 100 | 100 | 100 | | | | |
| Hrs. to 0.9V | 50.45 | 49.30 | 49.45 | | | | 923 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | | | 19.05 | 48.45 | | | 924 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 18.45 | 79.85 | 65.60 | 22.00 | 68.75 | 72.05 | 925 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 18.70 | 101.30 | | | | | 926 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 2.05 | 1.65 | 1.95 | 1.85 | 1.35 | 2.30 | 927 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 928 | 42R | 40 | Initial | Chart 1 | |
| 929 | 42R | 40 | Initial | Chart 1 | 3 cells |
| 930 | 12R | 115 | Initial | Chart 1 | Cell tests 1,2, 5,6 defective |
| 931 | 12R | 115 | Initial | Chart 1 | |
| 932 | 12R | 115 | Initial | Chart 1 | Cell test 3 defective 3 cells |
| 933 | 12R | 20 | Initial | Chart 1 | |
| 934 | 12R | 20 | Initial | Chart 1 | |
| 935 | 12R | 20 | Initial | Chart 1 | 3 cells |
| 936 | 42R | -20 | Initial | Chart 1 | |
| 937 | 42R | -20 | Initial | Chart 1 | |
| 938 | 42R | -20 | Initial | Chart 1 | 3 cells |
| 939 | 12R | 0 | Initial | Chart 1 | |
| 940 | 12R | 0 | Initial | Chart 1 | |
| 941 | 12R | 0 | Initial | Chart 1 | 3 cells |
| 942 | 42R | 70 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 928 |
| Hrs. to 0.9V | 0.45 | 0.50 | 0.40 | 0.95 | 0.60 | 0.80 | |
| ohms | 3.3 | 3.3 | 3.3 | | | | 929 |
| Hrs. to 0.9V | 2.05 | 3.10 | 2.80 | | | | |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | 930 |
| Hrs. to 0.9V | | | 43.90 | 44.85 | | | |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | 931 |
| Hrs. to 0.9V | 44.80 | 44.50 | 44.75 | 46.20 | 45.85 | 41.75 | |
| ohms | 15 | 15 | 15 | | | | 932 |
| Hrs. to 0.9V | 42.95 | 42.30 | | | | | |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 933 |
| Hrs. to 0.9V | 0.05 | 0.05 | 0.15 | 0.10 | 0.05 | 0.05 | |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 934 |
| Hrs. to 0.9V | 0.10 | 0.10 | 0.10 | 0.10 | 0.15 | 0.05 | |
| ohms | 3.3 | 3.3 | 3.3 | | | | 935 |
| Hrs. to 0.9V | 0.10 | 0.10 | 0.10 | | | | |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 936 |
| Hrs. to 0.9V | 0.10 | 0.10 | 0.15 | 0.10 | 0.10 | 0.10 | |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 937 |
| Hrs. to 0.9V | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | |
| ohms | 3.3 | 3.3 | 3.3 | | | | 938 |
| Hrs. to 0.9V | 0.15 | 0.15 | 0.15 | | | | |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | 939 |
| Hrs. to 0.9V | 1.40 | 1.40 | 4.65 | 3.10 | 4.45 | 6.30 | |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | 940 |
| Hrs. to 0.9V | 2.45 | 2.10 | 1.15 | 4.50 | 1.05 | 5.45 | |
| ohms | 33 | 33 | 33 | | | | 941 |
| Hrs. to 0.9V | 1.30 | 1.10 | 1.45 | | | | |
| ohms | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 942 |
| Hrs. to 0.9V | 5.55 | 0.10 | 5.65 | 0.20 | 0.10 | 0.20 | |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 943 | 42R | 70 | Initial | Chart 1 | 3 cells |
| 944 | 12R | 200 | 3 Mo. @ 115°F | Chart 2 | |
| 945 | 12R | 200 | 3 Mo. @ 115°F | Chart 2 | |
| 946 | 12R | 200 | 3 Mo. @ 115°F | Chart 2 | |
| 947 | 12R | 200 | 3 Mo. @ 115°F | Chart 2 | |
| 948 | 12R | 200 | 3 Mo. @ 160°F | Chart 2 | No.4 cell test defective |
| 949 | 12R | 200 | 3 Mo. @ 160°F | Chart 2 | No.5 cell test defective |
| 950 | 12R | 200 | 3 Mo. @ 160°F | Chart 2 | |
| 951 | 12R | 200 | 3 Mo. @ 160°F | Chart 2 | |
| 952 | 42R | 200 | Initial | Chart 1 | |
| 953 | 42R | 200 | Initial | Chart 1 | No.4 cell test defective |
| 954 | 42R | 200 | Initial | Chart 1 | 3 cells |
| 955 | 640R | 200 | Initial | Chart 1 | 3 cells |
| 956 | 12R | 0 | Initial | Chart 1 | |
| 957 | 12R | 0 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 0.68 | 0.68 | 0.68 | | | | |
| Hrs. to 0.9V | 0.15 | 0.15 | 4.15 | | | | 943 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.75 | 1.55 | 1.55 | 2.05 | 1.55 | 1.55 | 944 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.95 | 1.80 | 7.85 | 1.95 | 1.75 | 1.85 | 945 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.55 | 1.85 | 2.30 | 1.75 | 1.85 | 1.80 | 946 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.85 | 1.60 | 1.85 | 1.85 | 1.65 | 1.45 | 947 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 1.75 | 1.40 | 1.65 | | 1.60 | 2.55 | 948 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 2.00 | 1.45 | 1.85 | 0.95 | | 1.55 | 949 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 2.00 | 1.30 | 1.95 | 2.55 | 1.25 | 1.90 | 950 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 1.45 | 2.70 | 1.95 | 2.00 | 2.90 | 2.60 | 951 |
| ohms | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | |
| Hrs. to 0.9V | 7.25 | 8.90 | 7.25 | 8.95 | 6.45 | 10.30 | 952 |
| ohms | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | |
| Hrs. to 0.9V | 9.80 | 8.65 | 7.45 | | 7.15 | 7.95 | 953 |
| ohms | 0.68 | 0.68 | 0.68 | | | | |
| Hrs. to 0.9V | 6.35 | 8.70 | 8.20 | | | | 954 |
| ohms | 47 | 47 | 47 | | | | |
| Hrs. to 0.9V. | 22.70 | 23.10 | 21.05 | | | | 955 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 0.25 | 0.30 | 0.20 | 0.50 | 0.50 | 0.65 | 956 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 0.75 | 0.25 | 0.40 | 0.25 | 0.40 | 0.40 | 957 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 958 | 12R | 0 | Initial | Chart 1 | 3 cells |
| 959 | 12R | 115 | 3 Mo. @ 160°F | Chart 2 | |
| 960 | 12R | 115 | 3 Mo. @ 160°F | Chart 2 | No. 1 cell test defective |
| 961 | 12R | 115 | 3 Mo. @ 160°F | Chart 2 | |
| 962 | 12R | 115 | 3 Mo. @ 160°F | Chart 2 | No. 3 cell test defective |
| 963 | 12R | 200 | 3 Mo. @ 160°F | Chart 2 | |
| 964 | 12R | 200 | 3 Mo. @ 160°F | Chart 2 | No. 6 cell test defective |
| 965 | 12R | 200 | 3 Mo. @ 160°F | Chart 2 | |
| 966 | 12R | 200 | 3 Mo. @ 160°F | Chart 2 | |
| 967 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | No.1,2,&6 cell test defective |
| 968 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | No. 3&4 cell test defective |
| 969 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | No. 1 & 6 cell test defective |
| 970 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | No. 6 cell test defective |
| 971 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | |
| 972 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 12 | 12 | 12 | | | | |
| Hrs. to 0.9V | 0.25 | 0.25 | 0.30 | | | | 958 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.60 | 0.75 | 0.75 | 0.65 | 0.75 | 0.90 | 959 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | | 0.65 | 0.80 | 0.75 | 0.85 | 0.80 | 960 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.70 | 0.65 | 0.65 | 0.75 | 0.60 | 0.85 | 961 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.85 | 0.60 | | 0.75 | 0.70 | 0.70 | 962 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.80 | 0.85 | 0.75 | 0.75 | 0.75 | 1.25 | 963 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V. | 0.90 | 0.95 | 1.10 | 0.90 | 1.00 | | 964 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.00 | 0.85 | 0.80 | 0.65 | 1.00 | 0.70 | 965 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.75 | 0.75 | 1.20 | 1.15 | 1.05 | 0.85 | 966 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | | | 0.40 | 0.40 | 0.45 | | 967 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.02 | 0.45 | | | 0.35 | 0.30 | 968 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | | 0.35 | 0.40 | 0.35 | 0.35 | | 969 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V. | 0.45 | 0.50 | 0.45 | 0.30 | 0.40 | | 970 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.35 | 0.35 | 0.35 | 0.45 | 0.50 | 0.35 | 971 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.35 | 0.40 | 0.35 | 0.40 | 0.40 | 0.55 | 972 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 973 | 12R | 200 | 3 Mo. @ 160°F. | Chart 2 | |
| 974 | 12R | 200 | 3 Mo. @ 160°F. | Chart 2 | |
| 975 | 12R | 200 | 3 Mo. @ 160°F. | Chart 2 | |
| 976 | 12R | 200 | 3 Mo. @ 160°F. | Chart 2 | No. 2 cell test defective |
| 977 | 12R | 200 | 3 Mo. @ 160°F. | Chart 2 | |
| 978 | 12R | 200 | 3 Mo. @ 160°F. | Chart 2 | |
| 979 | 42R | -20 | Initial | Chart 1 | |
| 980 | 42R | -20 | Initial | Chart 1 | |
| 981 | 42R | -20 | Initial | Chart 1 | 3 cells |
| 982 | 42R | 20 | Initial | Chart 1 | |
| 983 | 42R | 20 | Initial | Chart 1 | |
| 984 | 42R | 20 | Initial | Chart 1 | 3 cells |
| 985 | 12R | 0 | Initial | Chart 1 | |
| 986 | 12R | 0 | Initial | Chart 1 | 3 cells |
| 987 | 12R | 0 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.15 | 6.55 | 8.50 | 8.20 | 7.85 | 1.05 | 973 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.05 | 1.50 | 8.00 | 7.70 | 1.15 | 1.10 | 974 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 2.75 | 1.90 | 2.65 | 2.35 | 2.30 | 2.35 | 975 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 2.10 | | 2.45 | 2.55 | 2.00 | 2.25 | 976 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 2.30 | 2.35 | 2.75 | 2.55 | 2.75 | 2.25 | 977 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 2.45 | 1.90 | 2.85 | 2.10 | 2.65 | 2.50 | 978 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.25 | 0.30 | 0.25 | 0.30 | 0.35 | 0.25 | 979 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.30 | 0.30 | 0.35 | 0.30 | 0.30 | 0.30 | 980 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs. to 0.9V | 0.30 | 0.35 | 0.35 | | | | 981 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.50 | 0.85 | 0.60 | 0.60 | 0.90 | 0.55 | 982 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 1.00 | 0.90 | 0.55 | 1.15 | 1.60 | 0.85 | 983 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs. to 0.9V | 0.50 | 0.55 | 0.60 | | | | 984 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 0.50 | 0.35 | 0.50 | 0.45 | 0.70 | 0.80 | 985 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 0.30 | 0.35 | 0.40 | 0.65 | 0.50 | 0.60 | 986 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 0.45 | 0.30 | 1.60 | | | | 987 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 988 | 12R | 70 | 3 Mo. @ 115°F | Chart 2 | |
| 989 | 12R | 70 | 3 Mo. @ 115°F | Chart 2 | |
| 990 | 12R | 70 | 3 Mo. @ 115°F | Chart 2 | |
| 991 | 12R | 70 | 3 Mo. @ 115°F | Chart 2 | |
| 992 | 12R | 40 | 3 Mo. @ 115°F | Chart 2 | |
| 993 | 12R | 40 | 3 Mo. @ 115°F | Chart 2 | |
| 994 | 12R | 40 | 3 Mo. @ 115°F | Chart 2 | No. 4 cell test defective |
| 995 | 12R | 40 | 3 Mo. @ 115°F | Chart 2 | |
| 996 | 640R | 200 | Initial | Chart 1 | |
| 997 | 640R | 200 | Initial | Chart 1 | |
| 998 | 640R | 200 | Initial | Chart 1 | 3 cells |
| 999 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | No. 5 cell test defective |
| 1000 | 12R | 70 | 3 Mo. @ 160°F. | Chart 2 | |
| 1001 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | |
| 1002 | 12R | 70 | 3 Mo. @ 160°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.30 | 4.20 | 0.45 | 5.50 | 0.40 | 0.30 | 988 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.30 | 2.70 | 0.40 | 1.05 | 4.70 | 0.25 | 989 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.85 | 0.80 | 1.30 | 0.70 | 0.50 | 0.45 | 990 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.30 | 0.85 | 0.30 | 0.25 | 0.35 | 0.40 | 991 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.10 | 0.05 | 0.10 | 0.15 | 0.02 | 0.05 | 992 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.15 | 0.10 | 0.15 | 0.05 | 0.05 | 0.20 | 993 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.15 | 0.05 | 0.05 | | 0.20 | 0.15 | 994 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.15 | 0.15 | 0.10 | 0.15 | 0.30 | 0.20 | 995 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs. to 0.9V | 15.45 | 16.40 | 4.25 | 4.50 | 18.60 | 4.20 | 996 |
| ohms | 39 | 39 | 39 | 39 | 39 | 39 | |
| Hrs. to 0.9V | 15.40 | 19.35 | 17.70 | 19.60 | 19.45 | 20.35 | 997 |
| ohms | 39 | 39 | 39 | | | | |
| Hrs. to 0.9V | 19.10 | 20.35 | 12.10 | | | | 998 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.35 | 0.35 | 0.45 | 0.50 | | 0.40 | 999 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.40 | 0.20 | 0.45 | 0.40 | 0.60 | 0.40 | 1000 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.65 | 0.30 | 0.40 | 0.35 | 0.40 | 0.40 | 1001 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.45 | 0.40 | 0.35 | 0.40 | 0.40 | 0.35 | 1002 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1003 | 12R | 70 | 6 Mo. @ 70°F | Chart 2 | |
| 1004 | 12R | 70 | 6 Mo. @ 70°F | Chart 2 | 3 cells |
| 1005 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | |
| 1006 | 12R | 115 | 3 Mo. @ 115°F. | Chart 2 | |
| 1007 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | |
| 1008 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | |
| 1009 | 12R | 115 | Initial | Chart 1 | |
| 1010 | 12R | 115 | Initial | Chart 1 | |
| 1011 | 12R | 115 | Initial | Chart 1 | 3 cells |
| 1012 | 640R | 70 | Initial | Chart 1 | |
| 1013 | 640R | 70 | Initial | Chart 1 | |
| 1014 | 640R | 70 | Initial | Chart 1 | 3 cells |
| 1015 | 12R | 250 | 6 Mo. @ 70°F | Chart 2 | |
| 1016 | 12R | 250 | 6 Mo. @ 70°F | Chart 2 | |
| 1017 | 12R | 250 | 6 Mo. @ 70°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 4.95 | 4.30 | 6.50 | 3.25 | 4.25 | 0.45 | 1003 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs. to 0.9V | 4.65 | 4.40 | 0.85 | | | | 1004 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 9.90 | 10.05 | 10.35 | 9.95 | 10.35 | 10.00 | 1005 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 9.90 | 9.80 | 9.85 | 10.20 | 10.30 | 10.10 | 1006 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 10.50 | 10.70 | 11.65 | 10.35 | 10.20 | 11.20 | 1007 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 10.50 | 9.95 | 9.60 | 10.05 | 10.05 | 9.60 | 1008 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 33.30 | 36.85 | 35.10 | 36.10 | 35.80 | 37.45 | 1009 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 35.35 | 35.40 | 38.00 | 36.20 | 36.65 | 37.00 | 1010 |
| ohms | 12 | 12 | 12 | | | | |
| Hrs. to 0.9V | 36.65 | 35.90 | 36.25 | | | | 1011 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs. to 0.9V | 34.40 | 34.35 | 35.60 | 34.00 | 34.75 | 32.25 | 1012 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs. to 0.9V | 33.50 | 34.65 | 33.45 | 33.80 | 33.45 | 34.65 | 1013 |
| ohms | 68 | 68 | 68 | | | | |
| Hrs. to 0.9V | 35.50 | 31.95 | 31.25 | | | | 1014 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 5.20 | 5.30 | 4.00 | 3.95 | 4.75 | 5.10 | 1015 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 5.50 | 7.30 | 4.90 | 6.10 | 4.70 | 3.70 | 1016 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 4.10 | 5.35 | 4.30 | 5.35 | 4.35 | 5.75 | 1017 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1018 | 12R | 250 | 6 Mo. @ 70°F | Chart 2 | |
| 1019 | 42R | -20 | Initial | Chart 1 | |
| 1020 | 42R | -20 | Initial | Chart 1 | |
| 1021 | 42R | -20 | Initial | Chart 1 | 3 cells |
| 1022 | 42R | 0 | Initial | Chart 1 | |
| 1023 | 42R | 0 | Initial | Chart 1 | |
| 1024 | 42R | 0 | Initial | Chart 1 | 3 cells |
| 1025 | 42R | 40 | Initial | Chart 1 | |
| 1026 | 42R | 40 | Initial | Chart1 | |
| 1027 | 42R | 40 | Initial | Chart 1 | 3 cells |
| 1028 | 12R | 70 | 6 Mo. @ 115°F | Chart 2 | |
| 1029 | 12R | 70 | 6 Mo. @ 115°F | Chart 2 | |
| 1030 | 12R | 250 | 6 Mo. @-20°F | Chart 2 | |
| 1031 | 12R | 250 | 6 Mo. @ -20°F | Chart 2 | |
| 1032 | 12R | 250 | 6 Mo. @ -20°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 4.75 | 5.25 | 4.35 | 7.60 | 4.25 | 5.75 | 1018 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 1.20 | 1.50 | 1.35 | 1.60 | 1.40 | 1.30 | 1019 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 1.40 | 1.60 | 1.55 | 1.55 | 1.55 | 1.50 | 1020 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 1.40 | 1.45 | 1.50 | | | | 1021 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs. to 0.9V | 0.75 | 0.60 | 0.75 | 0.70 | 0.75 | 0.65 | 1022 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs. to 0.9V | 0.80 | 0.75 | 0.75 | 0.75 | 0.75 | 0.85 | 1023 |
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs. to 0.9V | 0.45 | 0.80 | 0.85 | | | | 1024 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 19.25 | 19.65 | 17.40 | 11.60 | 12.70 | 10.30 | 1025 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 30.95 | 28.45 | 29.90 | 32.60 | 32.70 | 29.90 | 1026 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs. to 0.9V | 10.95 | 11.90 | 10.75 | | | | 1027 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.50 | 0.30 | 0.25 | 0.35 | 0.35 | 0.35 | 1028 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.30 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 1029 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 5.80 | 8.30 | 9.15 | 5.80 | 7.85 | 8.45 | 1030 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 9.25 | 5.90 | 7.65 | 7.80 | 7.40 | 5.80 | 1031 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 3.90 | 5.45 | 5.80 | 8.35 | 5.85 | 9.95 | 1032 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1033 | 12R | 250 | 6 Mo. @ -20°F | Chart 2 | No 6 cell test defective |
| 1034 | 42R | 115 | Initial | Chart 1 | |
| 1035 | 42R | 115 | Initial | Chart 1 | No 2 cell test defective |
| 1036 | 42R | 115 | Initial | Chart 1 | 3 cells |
| 1037 | 12R | 250 | 6 Mo. @ 115°F | Chart 2 | No. 3 cell test defective |
| 1038 | 12R | 250 | 6 Mo. @ 115°F | Chart 2 | |
| 1039 | 12R | 40 | Initial | Chart 1 | |
| 1040 | 12R | 40 | Initial | Chart 1 | |
| 1041 | 12R | 40 | Initial | Chart 1 | 3 cells |
| 1042 | 12R | 70 | 2 Mo. @ 160°F | Chart 2 | |
| 1043 | 12R | 70 | 2 Mo. @ 160°F | Chart 2 | |
| 1044 | 12R | 250 | 6 Mo. @ 20°F | Chart 2 | |
| 1045 | 12R | 250 | 6 Mo. @ 20°F | Chart 2 | |
| 1046 | 12R | 250 | 6 Mo. @ 20°F | Chart 2 | |
| 1047 | 12R | 250 | 6 Mo. @ 20°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 5.90 | 8.65 | 5.60 | 8.75 | 8.05 | | 1033 |
| ohms | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | |
| Hrs. to 0.9V | 7.45 | 7.55 | 6.70 | 5.25 | 4.90 | 5.30 | 1034 |
| ohms | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | |
| Hrs. to 0.9V | 6.00 | | 5.60 | 6.10 | 7.45 | 6.10 | 1035 |
| ohms | 0.68 | 0.68 | 0.68 | | | | |
| Hrs. to 0.9V | 7.25 | 6.50 | 5.90 | | | | 1036 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.80 | 2.00 | | 1.40 | 2.05 | 1.80 | 1037 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.85 | 6.60 | 1.85 | 2.10 | 2.35 | 6.70 | 1038 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 6.05 | 10.20 | 13.95 | 9.05 | 8.85 | 9.10 | 1039 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 10.70 | 10.80 | 9.20 | 8.80 | 5.95 | 7.75 | 1040 |
| ohms | 12 | 12 | 12 | | | | |
| Hrs. to 0.9V | 18.35 | 15.05 | 9.30 | | | | 1041 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.40 | 0.75 | 0.55 | 0.75 | 0.45 | 0.75 | 1042 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.80 | 1.95 | 3.40 | 3.60 | 1.95 | 0.65 | 1043 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 2.25 | 4.30 | 10.30 | 5.90 | 5.05 | 4.10 | 1044 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 9.65 | 8.70 | 4.65 | 3.15 | 5.00 | 3.70 | 1045 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 7.95 | 9.40 | 4.35 | 5.30 | 8.20 | 7.15 | 1046 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 4.00 | 9.65 | 4.35 | 3.85 | 5.55 | 7.77 | 1047 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1048 | 12R | 250 | 2 Mo. @ 160°F | Chart 2 | |
| 1049 | 12R | 250 | 2 Mo. @ 160°F | Chart 2 | |
| 1050 | 12R | 250 | 2 Mo. @ 160°F | Chart 2 | No. 5 cell test defective |
| 1051 | 12R | 250 | 2 Mo. @ 160°F | Chart 2 | 2 cells |
| 1052 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | No. 1 cell test defective |
| 1053 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | |
| 1054 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | |
| 1055 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | |
| 1056 | 12R | 250 | 3 Mo. @ 160°F | Chart 2 | No. 5 cell test defective |
| 1057 | 12R | 250 | 3 Mo. @ 160°F | Chart 2 | No. 3&6 cell test defective |
| 1058 | 12R | 250 | 3 Mo. @ 160°F | Chart 2 | |
| 1059 | 12R | 250 | 3 Mo. @ 160°F | Chart 2 | |
| 1060 | 12R | 250 | 3 Mo. @ 115°F | Chart 2 | |
| 1061 | 12R | 250 | 3 Mo. @ 115°F | Chart 2 | |
| 1062 | 12R | 250 | 3 Mo. @ 115°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.45 | 1.60 | 1.90 | 1.85 | 1.60 | 1.90 | 1048 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.75 | 2.10 | 2.05 | 2.05 | 2.75 | 1.80 | 1049 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.50 | 2.00 | 1.50 | 7.10 | | 3.05 | 1050 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 2.65 | 2.85 | | | | | 1051 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | | 13.20 | 14.75 | 15.40 | 15.85 | 14.60 | 1052 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 14.35 | 15.25 | 14.45 | 14.70 | 15.20 | 16.60 | 1053 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 15.20 | 14.75 | 14.30 | 14.55 | 14.40 | 14.30 | 1054 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 16.10 | 14.65 | 15.10 | 14.75 | 15.65 | 14.15 | 1055 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.45 | 1.45 | 1.25 | 1.55 | | 1.55 | 1056 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.65 | 2.20 | | 1.40 | 1.85 | | 1057 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.60 | 1.25 | 1.30 | 1.60 | 1.45 | 1.50 | 1058 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.35 | 1.75 | 2.15 | 1.15 | 2.25 | 1.65 | 1059 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.55 | 1.80 | 1.55 | 8.45 | 1.25 | 8.70 | 1060 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.80 | 1.75 | 1.35 | 1.50 | 1.65 | 7.85 | 1061 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.30 | 2.80 | 2.45 | 2.15 | 1.75 | 2.05 | 1062 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1063 | 12R | 250 | 3 Mo. @ 115°F | Chart 2 | |
| 1064 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1065 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1066 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1067 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1068 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1069 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1070 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1071 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1072 | 12R | 40 | Initial | Chart 1 | |
| 1073 | 12R | 40 | Initial | Chart 1 | |
| 1074 | 12R | 40 | Initial | Chart 1 | 3 cells |
| 1075 | 640R | 250 | 1 Mo. @ 160°F | Chart 3 | |
| 1076 | 640 R | 250 | 1 Mo. @ 160°F | Chart 3 | |
| 1077 | 640R | 250 | 1 Mo. @ 160°F | Chart 3 | |

DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 2.55 | 8.15 | 2.30 | 8.65 | 1.85 | 2.00 | 1063 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 8.20 | 7.25 | 1.80 | 1.50 | 3.65 | 7.20 | 1064 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 7.20 | 1.90 | 6.90 | 7.75 | 7.25 | 8.20 | 1065 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 8.20 | 8.75 | 7.25 | 1.50 | 1.05 | 8.20 | 1066 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 8.80 | 9.05 | 7.30 | 8.25 | 8.70 | 7.25 | 1067 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs. to 0.9V | 77.55 | 79.05 | 74.15 | 74.40 | 79.75 | 76.80 | 1068 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs. to 0.9V | 74.35 | 75.90 | 83.90 | 82.70 | 79.40 | 80.80 | 1069 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs. to 0.9V | 72.05 | 80.25 | 79.80 | 78.55 | 79.80 | 82.80 | 1070 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs. to 0.9V | 82.75 | 86.60 | 74.55 | 75.15 | 79.20 | 80.85 | 1071 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 4.20 | 3.35 | 3.30 | 4.15 | 4.90 | 4.15 | 1072 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 6.50 | 3.05 | 8.75 | 6.65 | 14.50 | 16.15 | 1073 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 17.95 | 3.45 | 9.35 | | | | 1074 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 4.00 | 4.10 | 3.75 | 3.50 | 4.20 | 4.10 | 1075 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 4.55 | 3.40 | 3.20 | 4.75 | 12.45 | 4.30 | 1076 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 4.45 | 4.30 | 11.30 | 3.45 | 3.15 | 3.95 | 1077 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1078 | 640R | 250 | 1 Mo. @ 160°F | Chart 3 | |
| 1079 | 42R | 0 | Initial | Chart 1 | |
| 1080 | 42R | 0 | Initial | Chart 1 | |
| 1081 | 42R | 0 | Initial | Chart 1 | 3 cells |
| 1082 | 12R | 115 | Initial | Chart 1 | |
| 1083 | 12R | 40 | 3 Mo. @ 160°F | Chart 2 | |
| 1084 | 12R | 40 | 3 Mo. @ 160°F | Chart 2 | |
| 1085 | 12R | 40 | 3 Mo. @ 160°F | Chart 2 | |
| 1086 | 12R | 40 | 3 Mo. @ 160°F | Chart 2 | |
| 1087 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |
| 1088 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |
| 1089 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |
| 1090 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |
| 1091 | 42R | 160 | Initial | Chart 1 | |
| 1092 | 42R | 160 | Initial | Chart 1 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 3.40 | 4.45 | 4.20 | 4.90 | 3.90 | 3.80 | 1078 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 1.50 | 1.85 | 1.80 | 2.00 | 2.05 | 2.15 | 1079 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V. | 1.50 | 1.70 | 1.90 | 2.35 | 2.50 | 2.55 | 1080 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 1.75 | 1.60 | 1.90 | | | | 1081 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 45.65 | 46.10 | 44.60 | 44.35 | 44.00 | 41.00 | 1082 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.20 | 0.25 | 0.25 | 0.25 | 0.30 | 0.25 | 1083 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.20 | 0.25 | 0.25 | 0.25 | 0.30 | 0.30 | 1084 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.30 | 0.35 | 0.35 | 0.30 | 0.35 | 0.25 | 1085 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 0.20 | 0.35 | 0.30 | 0.35 | 0.45 | 0.30 | 1086 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 13.15 | 12.50 | 12.55 | 11.85 | 13.10 | 13.85 | 1087 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 11.25 | 12.05 | 11.85 | 12.65 | 11.85 | 12.00 | 1088 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 13.10 | 13.75 | 12.05 | 13.00 | 12.55 | 12.70 | 1089 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 13.35 | 12.65 | 11.50 | 12.40 | 12.35 | 12.00 | 1090 |
| ohms | .68 | .68 | .68 | .68 | .68 | .68 | |
| Hrs. to 0.9V | 8.60 | 8.10 | 8.70 | 8.40 | 10.40 | 9.60 | 1091 |
| ohms | .68 | .68 | .68 | .68 | .68 | .68 | |
| Hrs. to 0.9V | 9.75 | 10.35 | 8.45 | 9.15 | 7.10 | 8.15 | 1092 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1093 | 42R | 160 | Initial | Chart 1 | 3 cells |
| 1094 | 42R | 40 | Initial | Chart 1 | |
| 1095 | 12R | 20 | Initial | Chart 1 | |
| 1096 | 12R | 20 | Initial | Chart 1 | |
| 1097 | 12R | 20 | Initial | Chart 1 | 3 cells |
| 1098 | 640R | -20 | Initial | Chart 1 | |
| 1099 | 640R | -20 | Initial | Chart 1 | |
| 1100 | 640R | -20 | Initial | Chart 1 | 3 cells |
| 1101 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | |
| 1102 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | |
| 1103 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | |
| 1104 | 12R | 115 | 3 Mo. @ 115°F | Chart 2 | |
| 1105 | 12R | 40 | Initial | Chart 1 | |
| 1106 | 640R | 70 | 2 Mo. @160°F | Chart 3 | |
| 1107 | 640R | 70 | 2 Mo. @ 160°F | Chart 3 | |

DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | .68 | .68 | .68 | | | | |
| Hrs. to 0.9V | 10.65 | 11.05 | 8.60 | | | | 1093 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs. to 0.9V | 1.85 | 1.40 | 1.40 | 1.25 | 0.40 | 0.45 | 1094 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 2.05 | 1.95 | 2.00 | 0.60 | 1.10 | 1.95 | 1095 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 1.15 | 1.80 | 2.05 | 1.95 | 1.15 | 0.95 | 1096 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 1.90 | 1.15 | 3.50 | | | | 1097 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 0.50 | 0.50 | 0.30 | 0.45 | 0.45 | 0.35 | 1098 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 0.40 | 0.40 | 0.40 | 0.45 | 0.45 | 0.40 | 1099 |
| ohms | 100 | 100 | 100 | | | | |
| Hrs. to 0.9V | 0.40 | 0.45 | 0.70 | | | | 1100 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 15.90 | 15.10 | 13.75 | 14.80 | 14.95 | 14.45 | 1101 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 14.95 | 14.25 | 15.00 | 14.95 | 14.75 | 14.85 | 1102 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 15.70 | 14.25 | 14.90 | 14.80 | 15.75 | 14.25 | 1103 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 14.40 | 15.10 | 13.60 | 14.25 | 14.75 | 16.70 | 1104 |
| ohms | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | |
| Hrs. to 0.9V | 0.25 | 0.50 | 0.90 | 0.45 | 0.50 | 0.70 | 1105 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 4.95 | 4.95 | 1.25 | 3.60 | 5.35 | 2.25 | 1106 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs. to 0.9V | 2.20 | 1.25 | 3.10 | 1.55 | 3.55 | 3.55 | 1107 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1108 | 12R | 160 | Initial | Chart 1 | |
| 1109 | 12R | 160 | Initial | Chart 1 | |
| 1110 | 12R | 160 | Initial | Chart 1 | 3 cells |
| 1111 | 640R | 160 | Initial | Chart 1 | |
| 1112 | 640R | 160 | Initial | Chart 1 | |
| 1113 | 640R | 160 | Initial | Chart 1 | 3 cells |
| 1114 | 12R | 160 | Initial | Chart 1 | |
| 1115 | 12R | 160 | Initial | Chart 1 | No 2 & 6 cell test defective |
| 1116 | 12R | 160 | Initial | Chart 1 | 3 cells |
| 1117 | 12R | 40 | 3 Mo. @ 160°F | Chart 2 | |
| 1118 | 12R | 40 | 3 Mo. @ 160°F | Chart 2 | |
| 1119 | 12R | 0 | 3 Mo. @ 160°F | Chart 2 | |
| 1120 | 12R | 0 | 3 Mo. @ 160°F | Chart 2 | |
| 1121 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |
| 1122 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 36.50 | 37.60 | 37.10 | 39.05 | 15.40 | 35.00 | 1108 |
| ohms | 12 | 12 | 12 | 12 | 12 | 12 | |
| Hrs. to 0.9V | 36.55 | 33.80 | 36.25 | 37.30 | 37.50 | 37.30 | 1109 |
| ohms | 12 | 12 | 12 | | | | |
| Hrs. to 0.9V | 34.60 | 34.40 | 36.45 | | | | 1110 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs. to 0.9V | 30.50 | 32.85 | 32.50 | 28.05 | 33.20 | 31.45 | 1111 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs. to 0.9V | 31.60 | 31.05 | 26.65 | 27.00 | 31.25 | 33.25 | 1112 |
| ohms | 68 | 68 | 68 | | | | |
| Hrs. to 0.9V | 24.85 | 20.75 | 31.75 | | | | 1113 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 37.80 | 44.90 | 43.65 | 44.40 | 45.70 | 45.30 | 1114 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 20.00 | | 46.05 | 42.85 | 45.00 | | 1115 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 46.40 | 44.25 | 45.90 | | | | 1116 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.65 | 0.50 | 0.65 | 0.55 | 0.70 | 0.55 | 1117 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.55 | 0.45 | 0.35 | 0.35 | 0.45 | 0.45 | 1118 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.15 | 0.15 | 0.15 | 0.15 | 0.20 | 0.25 | 1119 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.15 | 0.15 | 0.15 | 0.15 | 0.20 | 0.05 | 1120 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs. to 0.9V. | 22.80 | 20.75 | 22.10 | 23.10 | 22.35 | 23.15 | 1121 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs. to 0.9V | 23.15 | 19.70 | 21.35 | 22.85 | 22.95 | 23.40 | 1122 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1123 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |
| 1124 | 12R | 40 | 3 Mo. @ 160°F | Chart 2 | |
| 1125 | 42R | 0 | Initial | Chart 1 | |
| 1126 | 42R | 0 | Initial | Chart 1 | |
| 1127 | 42R | 0 | Initial | Chart 1 | 3 cells |
| 1128 | 12R | 160 | Initial | Chart 1 | See 357,358 & 509 |
| 1129 | 12R | 160 | Initial | Chart 1 | See 357,358 & 509 No 1 cell test defective |
| 1130 | 12R | 160 | Initial | Chart 1 | 3 cells - See 357, 358 & 509 |
| 1131 | 12R | 70 | Initial | Chart 1 | |
| 1132 | 12R | 70 | Initial | Chart 1 | |
| 1133 | 12R | 70 | Initial | Chart 1 | 3 cells |
| 1134 | 640R | 160 | Initial | Chart 1 | |
| 1135 | 42R | 40 | Initial | Chart 1 | |
| 1136 | 42R | 40 | Initial | Chart 1 | |
| 1137 | 42R | 40 | Initial | Chart 1 | 3 cells |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs. to 0.9V | 20.15 | 20.75 | 21.30 | 21.60 | 21.55 | 19.60 | 1123 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.25 | 0.35 | 0.50 | 0.10 | 0.25 | 0.20 | 1124 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.25 | 0.30 | 0.35 | 0.30 | 0.35 | 0.50 | 1125 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs. to 0.9V | 0.40 | 0.45 | 0.40 | 0.40 | 0.45 | 0.45 | 1126 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs. to 0.9V | 0.25 | 0.25 | 0.25 | | | | 1127 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs. to 0.9V | 6.95 | 7.90 | 23.70 | 7.75 | 7.40 | 24.50 | 1128 |
| ohms | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | |
| Hrs. to 0.9V | | 6.15 | 24.80 | 6.15 | 7.25 | 19.85 | 1129 |
| ohms | 8.2 | 8.2 | 8.2 | | | | |
| Hrs. to 0.9V | 6.90 | 6.35 | 6.90 | | | | 1130 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V | 48.65 | 44.20 | 47.50 | 44.75 | 46.20 | 47.80 | 1131 |
| ohms | 15 | 15 | 15 | 15 | 15 | 15 | |
| Hrs. to 0.9V. | 46.00 | 46.75 | 46.35 | 46.65 | 47.50 | 46.60 | 1132 |
| ohms | 15 | 15 | 15 | | | | |
| Hrs. to 0.9V | 46.10 | 44.85 | 47.80 | | | | 1133 |
| ohms | 100 | 100 | 100 | 100 | 100 | 100 | |
| Hrs. to 0.9V | 36.00 | 48.75 | 36.40 | 38.20 | 12.35 | 15.30 | 1134 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs. to 0.9V | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1135 |
| ohms | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| Hrs. to 0.9V | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1136 |
| ohms | 0.75 | 0.75 | 0.75 | | | | |
| Hrs. to 0.9V | 0.10 | 0.10 | 0.10 | | | | 1137 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1138 | 640R | -20 | Initial | Chart 1 | |
| 1139 | 640R | -20 | Initial | Chart 1 | |
| 1140 | 640R | -20 | Initial | Chart 1 | 3 Cells |
| 1141 | 640R | 160 | 1 Mo. @ 160°F | Chart 3 | |
| 1142 | 640R | 160 | 1 Mo. @ 160°F | Chart 3 | |
| 1143 | 640R | 160 | 1 Mo. @ 160°F | Chart 3 | |
| 1144 | 640R | 160 | 1 Mo. @ 160°F | Chart 3 | |
| 1145 | 12R | 115 | 3 Mo. @ 160°F | Chart 2 | |
| 1146 | 12R | 115 | 3 Mo. @ 160°F | Chart 2 | |
| 1147 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1148 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1149 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1150 | 640R | 70 | 1 Mo. @ 160°F | Chart 3 | |
| 1151 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |
| 1152 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |

DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs to 0.9V | 0.20 | 0.20 | 0.25 | 0.30 | 0.20 | 0.25 | 1138 |
| ohms | 68 | 68 | 68 | 68 | 68 | 68 | |
| Hrs to 0.9V | 0.25 | 0.30 | 0.25 | 0.25 | 0.20 | 0.30 | 1139 |
| ohms | 68 | 68 | 68 | | | | |
| Hrs to 0.9V | 0.30 | 0.25 | 0.25 | | | | 1140 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 13.25 | 13.60 | 11.55 | 12.45 | 13.90 | 12.20 | 1141 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 11.55 | 12.10 | 10.80 | 11.80 | 12.15 | 12.60 | 1142 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 11.30 | 11.05 | 12.50 | 11.20 | 12.40 | 11.70 | 1143 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 12.50 | 12.20 | 13.15 | 2.55 | 12.45 | 13.15 | 1144 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 1.50 | 1.15 | 1.40 | 12.30 | 1.25 | 1.40 | 1145 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 1.10 | 1.35 | 1.40 | 12.75 | 1.20 | 1.45 | 1146 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 19.05 | 21.90 | 17.20 | 22.50 | 17.20 | 17.20 | 1147 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 21.90 | 22.55 | 17.30 | 23.05 | 22.45 | 23.45 | 1148 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 19.00 | 24.30 | 22.90 | 22.45 | 20.75 | 22.40 | 1149 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 23.95 | 19.15 | 20.90 | 22.90 | 19.00 | 24.25 | 1150 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 66.00 | 85.60 | 79.65 | 75.80 | 67.00 | 81.50 | 1151 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 83.30 | 79.80 | 78.25 | 82.60 | 87.00 | 74.50 | 1152 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1153 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |
| 1154 | 640R | 115 | 1 Mo. @ 160°F | Chart 3 | |
| 1155 | 640R | 40 | 1 Mo. @ 160°F | Chart 3 | No 1 cell test defective |
| 1156 | 640R | 40 | 1 Mo. @ 160°F | Chart 3 | |
| 1157 | 640R | 40 | 1 Mo. @ 160°F | Chart 3 | |
| 1158 | 640R | 40 | 1 Mo. @ 160°F | Chart 3 | |
| 1159 | 42R | 160 | Initial | Chart 1 | |
| 1160 | 42R | 160 | Initial | Chart 1 | |
| 1161 | 42R | 160 | Initial | Chart 1 | 3 Cells |
| 1162 | 42R | 160 | Initial | Chart 1 | |
| 1163 | 42R | 160 | Initial | Chart 1 | |
| 1164 | 42R | 160 | Initial | Chart 1 | 3 Cells |
| 1165 | 12R | -20 | 3 Mo. @ 160°F | Chart 2 | |
| 1166 | 12R | -20 | 3 Mo. @ 160°F | Chart 2 | 3 Cells |
| 1167 | 12R | 0 | 3 Mo. @ 160°F | Chart 2 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 75.90 | 83.75 | 66.40 | 76.80 | 77.05 | 82.30 | 1153 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 81.70 | 74.15 | 77.85 | 80.60 | 86.20 | 65.65 | 1154 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | | 24.80 | 16.30 | 4[illegible].30 | 12.75 | 17.45 | 1155 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 21.10 | 23.70 | 18.70 | 14.75 | 22.30 | 12.70 | 1156 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 14.60 | 27.70 | 31.15 | 21.00 | 13.25 | 12.65 | 1157 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 48.30 | 42.30 | 48.95 | 18.70 | 27.00 | 39.60 | 1158 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 41.10 | 41.85 | 40.20 | 43.75 | 40.60 | 41.55 | 1159 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 39.45 | 40.60 | 39.20 | 42.60 | 42.10 | 41.00 | 1160 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 41.25 | 40.35 | 40.85 | | | | 1161 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 60.20 | 62.30 | 54.45 | 54.50 | 57.90 | 57.15 | 1162 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 50.85 | 57.30 | 55.70 | 55.35 | 55.65 | 60.35 | 1163 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs to 0.9V | 58.05 | 56.50 | 55.95 | | | | 1164 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 2.15 | 2.45 | 2.65 | 2.95 | 3.00 | 2.90 | 1165 |
| ohms | 33 | 33 | 33 | | | | |
| Hrs to 0.9V | 2.10 | 2.35 | 2.55 | | | | 1166 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 2.50 | 2.65 | 2.20 | 12.60 | 2.20 | 3.30 | 1167 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1168 | 12R | 0 | 3 Mo. @ 160°F | Chart 2 | 3 Cells |
| 1169 | 640R | 200 | 1 Mo. @ 160°F | Chart 3 | |
| 1170 | 640R | 200 | 1 Mo. @ 160°F | Chart 3 | |
| 1171 | 640R | 40 | 1 Mo. @ 160°F | Chart 3 | |
| 1172 | 640R | 40 | 1 Mo. @ 160°F | Chart 3 | |
| 1173 | 640R | 40 | 1 Mo. @ 160°F | Chart 3 | |
| 1174 | 12R | 40 | 3 Mo. @ 115°F | Chart 2 | |
| 1175 | 12R | 40 | 3 Mo. @ 115°F | Chart 2 | |
| 1176 | 640R | 160 | 1 Mo. @ 160°F | Chart 3 | |
| 1177 | 640R | 160 | 1 Mo. @ 160°F | Chart 3 | |
| 1178 | 640R | 160 | 1 Mo. @ 160°F | Chart 3 | |
| 1179 | 640R | 160 | 1 Mo. @ 160°F | Chart 3 | |
| 1180 | 640R | 0 | 1 Mo. @ 160°F | Chart 3 | No 6 cell test defective |
| 1181 | 640R | 0 | 1 Mo. @ 160°F | Chart 3 | |
| 1182 | 640R | 0 | 1 Mo. @ 160°F | Chart 3 | No 6 cell test defective |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 33 | 33 | 33 | | | | |
| Hrs to 0.9V | 4.25 | 5.70 | 7.00 | | | | 1168 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 3.85 | 4.15 | 6.40 | 5.55 | 6.80 | 7.45 | 1169 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 12.00 | 13.05 | 2.90 | 11.50 | 12.55 | 2.45 | 1170 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 1.30 | 1.50 | 1.60 | 1.55 | 2.20 | 1.15 | 1171 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 2.00 | 1.60 | 1.95 | 2.05 | 1.65 | 1.75 | 1172 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 1.95 | 2.05 | 1.85 | 1.75 | 1.55 | 2.10 | 1173 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 0.25 | 0.20 | 0.30 | 0.15 | 0.25 | 0.30 | 1174 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 0.10 | 0.20 | 0.25 | 0.30 | 0.35 | 0.35 | 1175 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 5.00 | 22.60 | 6.25 | 24.35 | 2.85 | 21.50 | 1176 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 5.50 | 22.55 | 22.90 | 23.70 | 3.60 | 3.70 | 1177 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 21.20 | 4.05 | 20.35 | 19.65 | 21.25 | 4.60 | 1178 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 4.90 | 23.10 | 21.90 | 3.85 | 20.65 | 5.10 | 1179 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 2.30 | 2.60 | 2.10 | 2.75 | 2.85 | | 1180 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 2.10 | 2.15 | 2.30 | 2.40 | 2.95 | 3.65 | 1181 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 1.60 | 2.25 | 2.15 | 2.30 | 2.90 | | 1182 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1183 | 12R | 160 | 3 Mo. @ 160°F | Chart 2 | |
| 1184 | 12R | 160 | 3 Mo. @ 160°F | Chart 2 | 3 Cells |
| 1185 | 12R | 160 | 3 Mo. @ 160°F | Chart 2 | |
| 1186 | 12R | 160 | 3 Mo. @ 160°F | Chart 2 | 3 Cells |
| 1187 | 12R | 160 | 3 Mo. @ 115°F | Chart 2 | |
| 1188 | 12R | 160 | 3 Mo. @ 115°F | Chart 2 | |
| 1189 | 12R | 160 | 3 Mo. @ 115°F | Chart 2 | |
| 1190 | 640R | 200 | 1 Mo. @ 160°F | Chart 3 | |
| 1191 | 640R | 200 | 1 Mo. @ 160°F | Chart 3 | |
| 1192 | 640R | 70 | 2 Mo. @ 160°F | Chart 3 | |
| 1193 | 640R | 70 | 2 Mo. @ 160°F | Chart 3 | |
| 1194 | 640R | 70 | 2 Mo. @ 160°F | Chart 3 | |
| 1195 | 640R | 70 | 2 Mo. @ 160°F | Chart 3 | |
| 1196 | 640R | 200 | 1 Mo. @ 160°F | Chart 3 | No 6 cell test defective |
| 1197 | 640R | 200 | 1 Mo. @ 160°F | Chart 3 | No 3 & 5 cell test defective |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 1.00 | 1.00 | 0.65 | 0.85 | 1.00 | 0.90 | 1183 |
| ohms | 3.3 | 3.3 | 3.3 | | | | |
| Hrs to 0.9V | 1.25 | 1.25 | 0.90 | | | | 1184 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | 1.25 | 1.30 | 1.30 | 1.55 | 2.00 | 11.85 | 1185 |
| ohms | 4.7 | 4.7 | 4.7 | | | | |
| Hrs to 0.9V | 1.60 | 2.20 | 1.65 | | | | 1186 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.90 | 9.25 | 9.35 | 9.60 | 9.60 | 9.35 | 1187 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.90 | 9.00 | 8.70 | 9.05 | 9.70 | 9.35 | 1188 |
| ohms | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |
| Hrs to 0.9V | 9.80 | 9.60 | 9.20 | 9.80 | 9.65 | 9.45 | 1189 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 2.60 | 1.80 | 12.20 | 11.90 | 11.75 | 12.40 | 1190 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 1.70 | 12.05 | 12.30 | 12.95 | 11.35 | 2.45 | 1191 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 84.75 | 76.25 | 82.05 | 83.75 | 80.50 | 81.70 | 1192 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 83.60 | 81.00 | 81.75 | 80.05 | 79.90 | 81.45 | 1193 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 21.10 | 22.55 | 17.45 | 19.20 | 22.65 | 22.55 | 1194 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 17.45 | 22.55 | 19.25 | 19.20 | 22.55 | 17.45 | 1195 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 3.90 | 5.05 | 4.45 | 7.35 | 7.55 | | 1196 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 3.75 | 4.75 | | 4.60 | | 4.35 | 1197 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1198 | 12R | 0 | 3 Mo. @ 115°F | Chart 2 | All cells less than 0.05 hr. |
| 1199 | 12R | 0 | 3 Mo. @ 115°F | Chart 2 | All cells less than 0.05 hr. |
| 1200 | 12R | 0 | 3 Mo. @ 115°F | Chart 2 | All cells less than 0.05 hr. |
| 1201 | 12R | -20 | 3 Mo. @ 115°F | Chart 2 | |
| 1202 | 12R | -20 | 3 Mo. @ 115°F | Chart 2 | |
| 1203 | 12R | -20 | 3 Mo. @ 115°F | Chart 2 | |
| 1204 | 640R | 40 | 1 Mo. @ 160°F | Chart 3 | |
| 1205 | 640R | 40 | 1 Mo. @ 160°F | Chart 3 | |
| 1206 | 640R | 200 | 1 Mo. @ 160°F | Chart 3 | |
| 1207 | 640R | 200 | 1 Mo. @ 160°F | Chart 3 | |
| 1208 | 640R | -20 | 1 Mo. @ 160°F | Chart 3 | |
| 1209 | 640R | -20 | 1 Mo. @ 160°F | Chart 3 | 4 Cells |
| 1210 | 640R | 0 | 1 Mo. @ 160°F | Chart 3 | |
| 1211 | 640R | 0 | 1 Mo. @ 160°F | Chart 3 | |
| 1212 | 640R | 40 | 2 Mo. @ 160°F | Chart 3 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | | | | | | | 1198 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | | | | | | | 1199 |
| ohms | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | |
| Hrs to 0.9V | | | | | | | 1200 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 0.80 | 0.75 | 0.85 | 0.70 | 0.85 | 0.60 | 1201 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 0.70 | 0.90 | 0.70 | 0.95 | 1.00 | 0.65 | 1202 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 0.95 | 0.60 | 0.85 | 1.05 | 0.85 | 0.95 | 1203 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 0.50 | 0.45 | 0.30 | 0.40 | 0.40 | 0.45 | 1204 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 0.40 | 0.50 | 0.75 | 0.40 | 0.55 | 0.55 | 1205 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 7.10 | 4.90 | 5.20 | 4.70 | 4.70 | 21.40 | 1206 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 20.65 | 3.60 | 3.85 | 3.65 | 6.40 | 4.65 | 1207 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 0.85 | 1.70 | 1.40 | 1.35 | 1.30 | 1.40 | 1208 |
| ohms | 180 | 180 | 180 | 180 | | | |
| Hrs to 0.9V | 1.50 | 1.60 | 1.40 | 1.90 | | | 1209 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 0.30 | 0.25 | 0.35 | 0.25 | 0.20 | 0.30 | 1210 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 0.25 | 0.25 | 0.30 | 0.35 | 0.30 | 0.45 | 1211 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 0.65 | 0.50 | 0.40 | 0.35 | 0.30 | 0.95 | 1212 |

## APPENDIX III

| Test No. | Cell Type | Temp. °F. | Storage | SCL-6274 Reference | Notes |
|---|---|---|---|---|---|
| 1213 | 640R | 70 | 2 Mo. @ 160°F | Chart 3 | |
| 1214 | 640R | 115 | 2 Mo. @ 160°F | Chart 3 | |
| 1215 | 640R | 40 | 2 Mo. @ 160°F | Chart 3 | |
| 1216 | 640R | 115 | 2 Mo. @ 160°F | Chart 3 | |
| 1217 | 640R | -20 | 2 Mo. @ 160°F | Chart 3 | |
| 1218 | 640R | 40 | 2 Mo. @ 160°F | Chart 3 | |
| 1219 | 640R | 115 | 2 Mo. @ 160°F | Chart 3 | |
| 1220 | 12R | 0 | 3 Mo. @ 115°F | Chart 2 | |
| 1221 | 12R | 0 | 3 Mo. @ 115°F | Chart 2 | |
| 1222 | 12R | 0 | 3 Mo. @ 115°F | Chart 2 | |
| 1223 | 640R | 160 | 2 Mo. @ 160°F | Chart 3 | |
| 1224 | 640R | 0 | 2 Mo. @ 160°F | Chart 3 | |
| 1225 | 640R | 160 | 2 Mo. @ 160°F | Chart 3 | |
| 1226 | 640R | 200 | 2 Mo. @ 160°F | Chart 3 | |
| 1227 | 640R | 0 | 2 Mo. @ 160°F | Chart 3 | |

## DISCHARGE TESTS, NOS. 373 - 1227

| | Cell No. 1 | Cell No. 2 | Cell No. 3 | Cell No. 4 | Cell No. 5 | Cell No. 6 | Test No. |
|---|---|---|---|---|---|---|---|
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 5.60 | 1.75 | 4.30 | 1.15 | 5.05 | 4.95 | 1213 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 12.80 | 12.15 | 12.20 | 12.35 | 11.45 | 11.60 | 1214 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 2.40 | 1.70 | 1.50 | 1.75 | 1.45 | 1.65 | 1215 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 21.50 | 20.35 | 21.45 | 20.25 | 19.55 | 21.40 | 1216 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 1.55 | 0.30 | 1.35 | 1.60 | 1.65 | 0.20 | 1217 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 24.95 | 25.00 | 11.80 | 12.45 | 29.40 | 19.05 | 1218 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 77.80 | 58.10 | 74.75 | 72.05 | 79.80 | 77.45 | 1219 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 0.65 | 1.95 | 2.60 | 2.20 | 1.75 | 4.75 | 1220 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 0.90 | 1.40 | 1.35 | 2.70 | 4.75 | 4.30 | 1221 |
| ohms | 33 | 33 | 33 | 33 | 33 | 33 | |
| Hrs to 0.9V | 0.85 | 1.15 | 1.45 | 1.95 | 1.25 | 2.80 | 1222 |
| ohms | 27 | 27 | 27 | 27 | 27 | 27 | |
| Hrs to 0.9V | 11.85 | 11.55 | 12.70 | 12.25 | 10.50 | 10.85 | 1223 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 0.25 | 0.10 | 0.30 | 0.35 | 0.35 | 0.40 | 1224 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 21.20 | 19.15 | 4.05 | 4.50 | 22.45 | 21.50 | 1225 |
| ohms | 47 | 47 | 47 | 47 | 47 | 47 | |
| Hrs to 0.9V | 6.20 | 7.95 | 8.30 | 4.20 | 6.85 | 5.15 | 1226 |
| ohms | 180 | 180 | 180 | 180 | 180 | 180 | |
| Hrs to 0.9V | 1.80 | 1.85 | 1.75 | 1.95 | 2.80 | 5.10 | 1227 |

| | | | |
|---|---|---|---|
| AD No. ____ ACCESSION No. ____<br>Mallory Battery Co., North Tarrytown, N.Y.<br>Testing and Evaluation of Primary Alkaline Cells and Batteries, by R. M. Goodman. Unclassified. Report No. 3, 3rd Semi-Annual Report. 1 Sept. 1961. 161 pp. 6 ill. Contract No. DA-36-039 SC-78320, DA Project No. 3-18-00-700, SC Task No. 3A99-09-002-02.<br>The testing and evaluation of primary alkaline cells of the zinc-alkaline-mercuric oxide system over a wide range of temperature, discharge rate and storage. | Unclassified<br>1.) Batteries:<br>Primary Alkaline<br>2.) Contract:<br>DA-36-039 SC-78320 | AD No. ____ ACCESSION No. ____<br>Mallory Battery Co., North Tarrytown, N.Y.<br>Testing and Evaluation of Primary Alkaline Cells and Batteries, by R. M. Goodman. Unclassified. Report No. 3, 3rd Semi-Annual Report. 1 Sept. 1961. 161 pp. 6 ill. Contract No. DA-36-039 SC-78320, DA Project No. 3-18-00-700, SC Task No. 3A99-09-002-02.<br>The testing and evaluation of primary alkaline cells of the zinc-alkaline-mercuric oxide system over a wide range of temperature, discharge rate and storage. | Unclassified<br>1.) Batteries:<br>Primary Alkaline<br>2.) Contract:<br>DA-36-039 SC-78320 |
| AD No. ____ ACCESSION No. ____<br>Mallory Battery Co., North Tarrytown, N.Y.<br>Testing and Evaluation of Primary Alkaline Cells and Batteries, by R. M. Goodman. Unclassified. Report No. 3, 3rd Semi-Annual Report. 1 Sept. 1961. 161 pp. 6 ill. Contract No. DA-36-039 SC-78320, DA Project No. 3-18-00-700, SC Task No. 3A99-09-002-02.<br>The testing and evaluation of primary alkaline cells of the zinc-alkaline-mercuric oxide system over a wide range of temperature, discharge rate and storage. | Unclassified<br>1.) Batteries:<br>Primary Alkaline<br>2.) Contract:<br>DA-36-039 SC-78320 | AD No. ____ ACCESSION No. ____<br>Mallory Battery Co., North Tarrytown, N.Y.<br>Testing and Evaluation of Primary Alkaline Cells and Batteries, by R. M. Goodman. Unclassified. Report No. 3, 3rd Semi-Annual Report. 1 Sept. 1961. 161 pp. 6 ill. Contract No. DA-36-039 SC-78320, DA Project No. 3-18-00-700, SC Task No. 3A99-09-002-02.<br>The testing and evaluation of primary alkaline cells of the zinc-alkaline-mercuric oxide system over a wide range of temperature, discharge rate and storage. | Unclassified<br>1.) Batteries:<br>Primary Alkaline<br>2.) Contract:<br>DA-36-039 SC-78320 |