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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

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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

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.

1.2.4	Task D: Test and Evaluation of Type 640R Cell.	
1.2.4.1	Sub-Task D1:	Initial Discharge, SCL-6274, Chart No. 1.
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.	
1.2.5.1	Sub-Task E1:	Initial Discharge, SCL-6274, Chart No. 1.
1.2.5.2	Sub-Task E2:	36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.
1.2.5.3	Sub-Task E3:	36-Month Storage and Discharge, SCL-6274, Chart No. 2.
1.2.5.4	Sub-Task E4:	Battery Assembly with Mechanical Testing, Storage and Discharge, SCL-6274, Table I.
1.2.6	Task F: Test and Evaluation of Type 625R Cell.	
1.2.6.1	Sub-Task F1:	Initial Discharge, SCL-6274, Chart No. 1.
1.2.6.2	Sub-Task F2:	36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.
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.
1.2.6.7	Sub-Task F7:	Battery Assembly with Mechanical Testing, Storage and Discharge, SCL-6274, Table I.
1.2.7	Task G: Test and Evaluation Type 502R Cell.	
1.2.7.1	Sub-Task G1:	Initial Discharge, SCL-6274, Chart No. 1.
1.2.7.2	Sub-Task G2:	36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.

1.2.8	Task H:	Test and Evaluation of Type 601 Cell.
1.2.8.1	Sub-Task H1:	Initial Discharge, SCL-6274, Chart No. 1.
1.2.8.2	Sub-Task H2:	36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.
1.2.9	Task I:	Test and Evaluation of Type 650R Cell.
1.2.9.1	Sub-Task I1:	Initial Discharge, SCL-6274, Chart No. 1.
1.2.9.2	Sub-Task I2:	36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.
1.2.10	Task J:	Test and Evaluation of Type 675R Cell.
1.2.10.1	Sub-Task J1:	Initial Discharge, SCL-6274, Chart No. 1.
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.			992,993 994,995	988,989 990,991	1005,1006 1007,1008	1187,1188 1189	944,945 946,947	1060,1061 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 1200	1174,1175	369,370 371,372	1053,1052 1054,1055	1185,1186	975,976 977,978	
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 1203	1220,1221 1222	262,263 264,299	220,221 222,223	254,255 367,368			

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% X 1.54 hrs Max 3.30 hrs Min 0.10 hrs
3.3					V 38.0% X 4.88 hrs Max 6.5 hrs Min 3.0 hrs
4.7			V 26.9% X 0.20 hrs Max 0.30 hrs Min 0.15 hrs	V 63.0% X 0.33 hrs Max 0.75 hrs Min 0.05 hrs	V 5.92% X 11.65 hrs Max 13.67 hrs Min 10.80 hrs
8.2			V 19.4% X 0.21 hrs Max 0.30 hrs Min 0.15 hrs	V 87.6% X 0.68 hrs Max 2.15 hrs Min 0.05 hrs	V 2.17% X 23.5 hrs Max 24.20 hrs Min 22.30 hrs
12	13.0% X 0.22 hrs Max 0.25 hrs Min 0.15 hrs	V 6.28% X 0.38 hrs Max 0.75 hrs Min 0.20 hrs	V 4.68% X 0.64 hrs Max 1.70 hrs Min 0.20 hrs	V 31.2% X 10.21 hrs Max 18.40 hrs Min 5.95 hrs	V 3.25% X 36.6 hrs Max 39.4 hrs Min 34.7 hrs
33	V 17.1% X 0.86 hrs Max 1.15 hrs Min 0.50 hrs	V 62.6% X 2.79 hrs Max 6.30 hrs Min 1.05 hrs	V 30.3% X 8.62 hrs Max 15.00 hrs Min 4.30 hrs	V 3.17% X 101.9 hrs Max 107.7 hrs Min 97.0 hrs	V 2.85% X 102.1 hrs Max 107.9 hrs 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, σ 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.

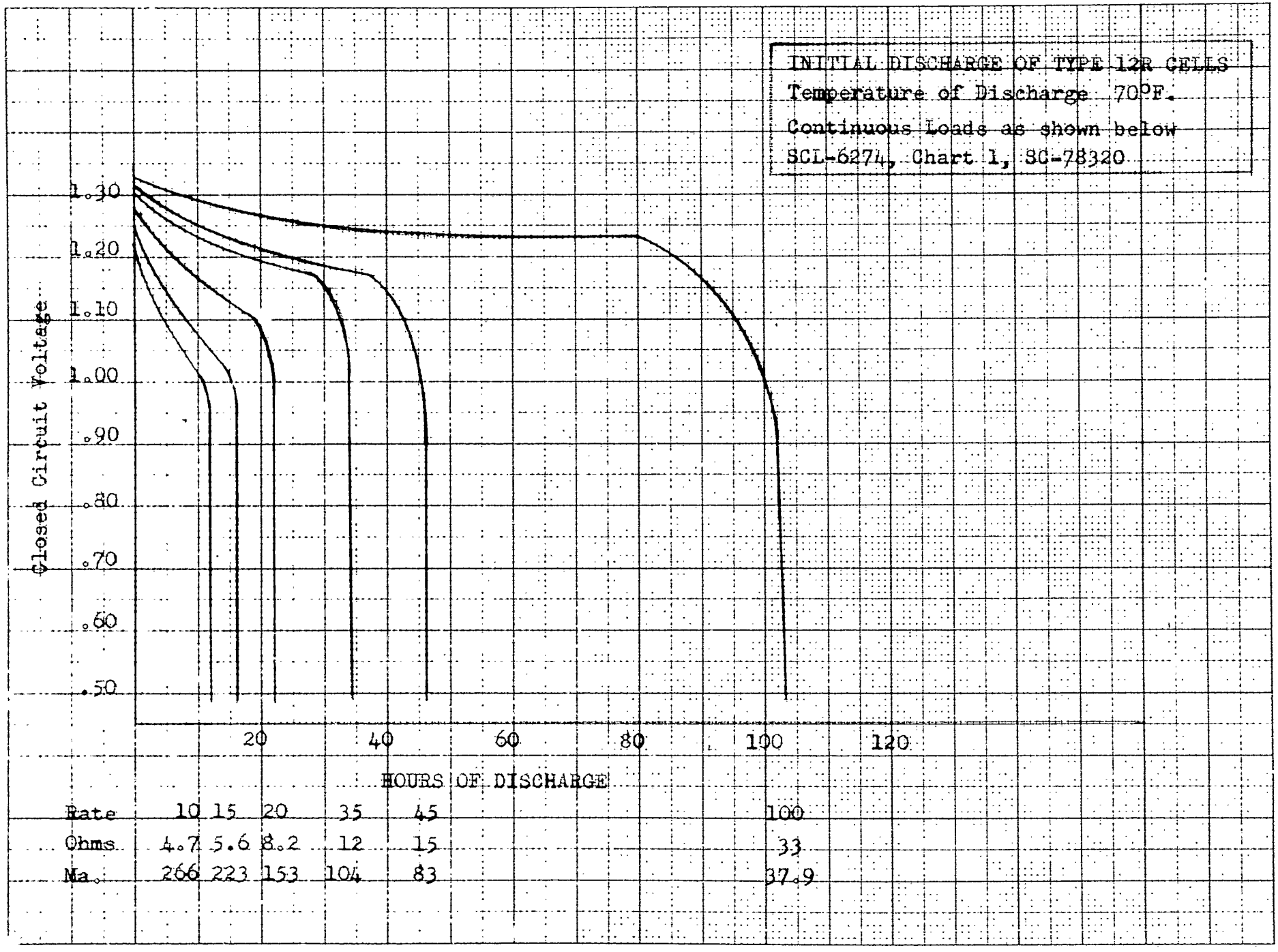
7.2 Individuals and the time they spent on this project during this half are indicated below:

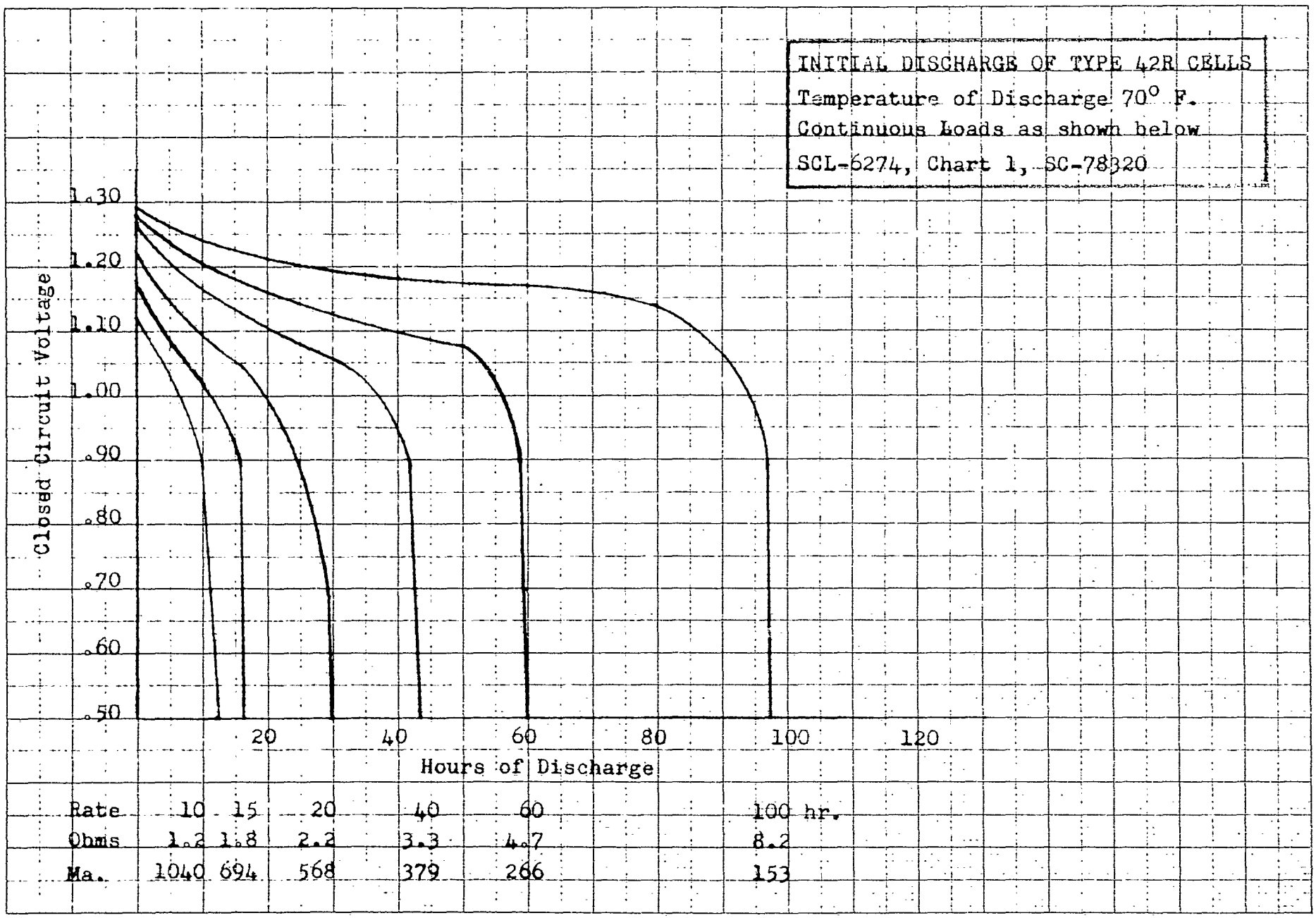
PERSONNEL	HOURS ON THIS PROJECT THIS HALF
R. M. Goodman	
Senior Engineer	494
P. O'Gorman	
Laboratory Technician	414
T. Quattrochi	
Laboratory Technician	894
J. Hutnik	
Laboratory Technician	408
R. Dolfinger	
Laboratory Technician	40
Total	2250

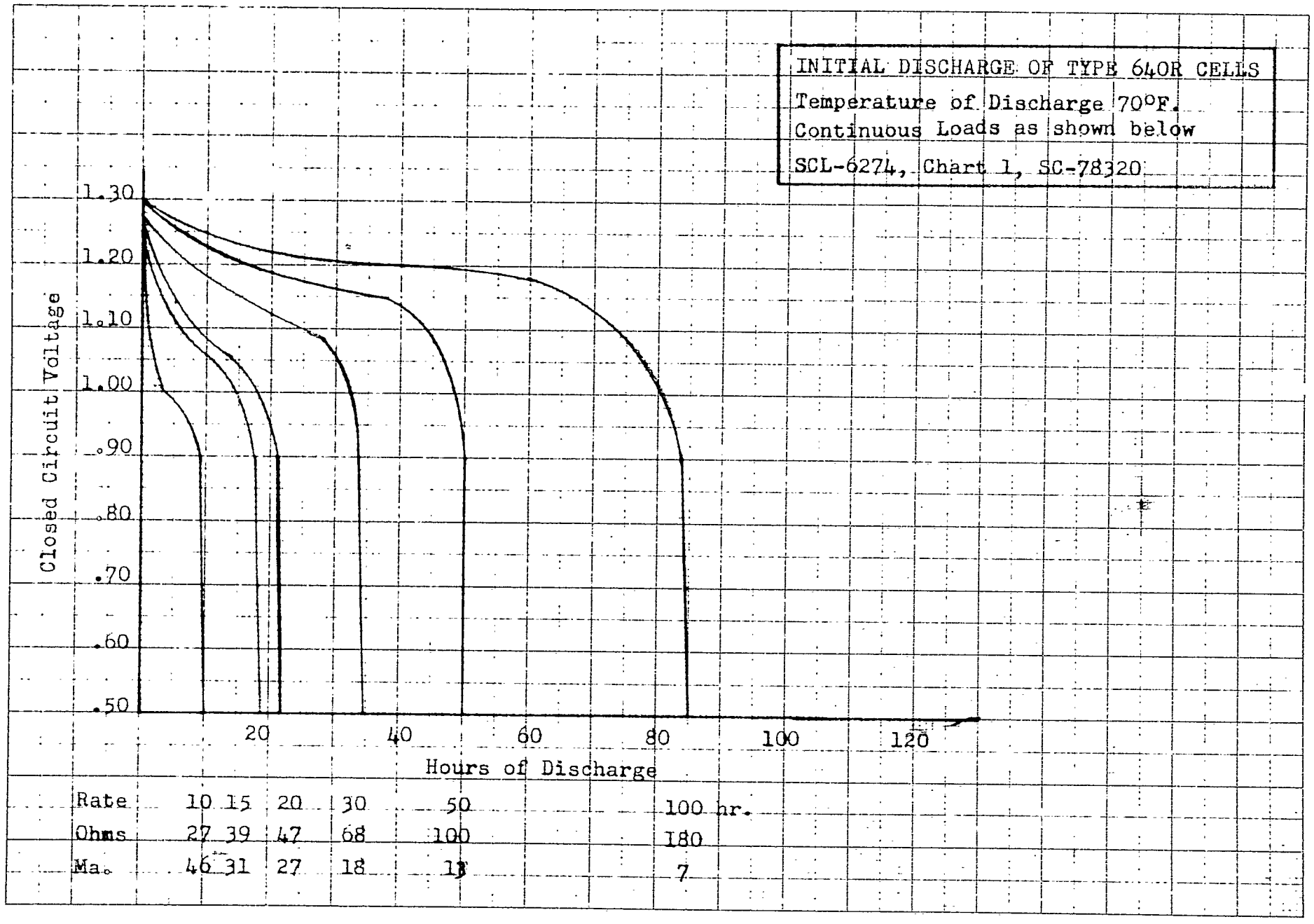
8 **APPENDIX**

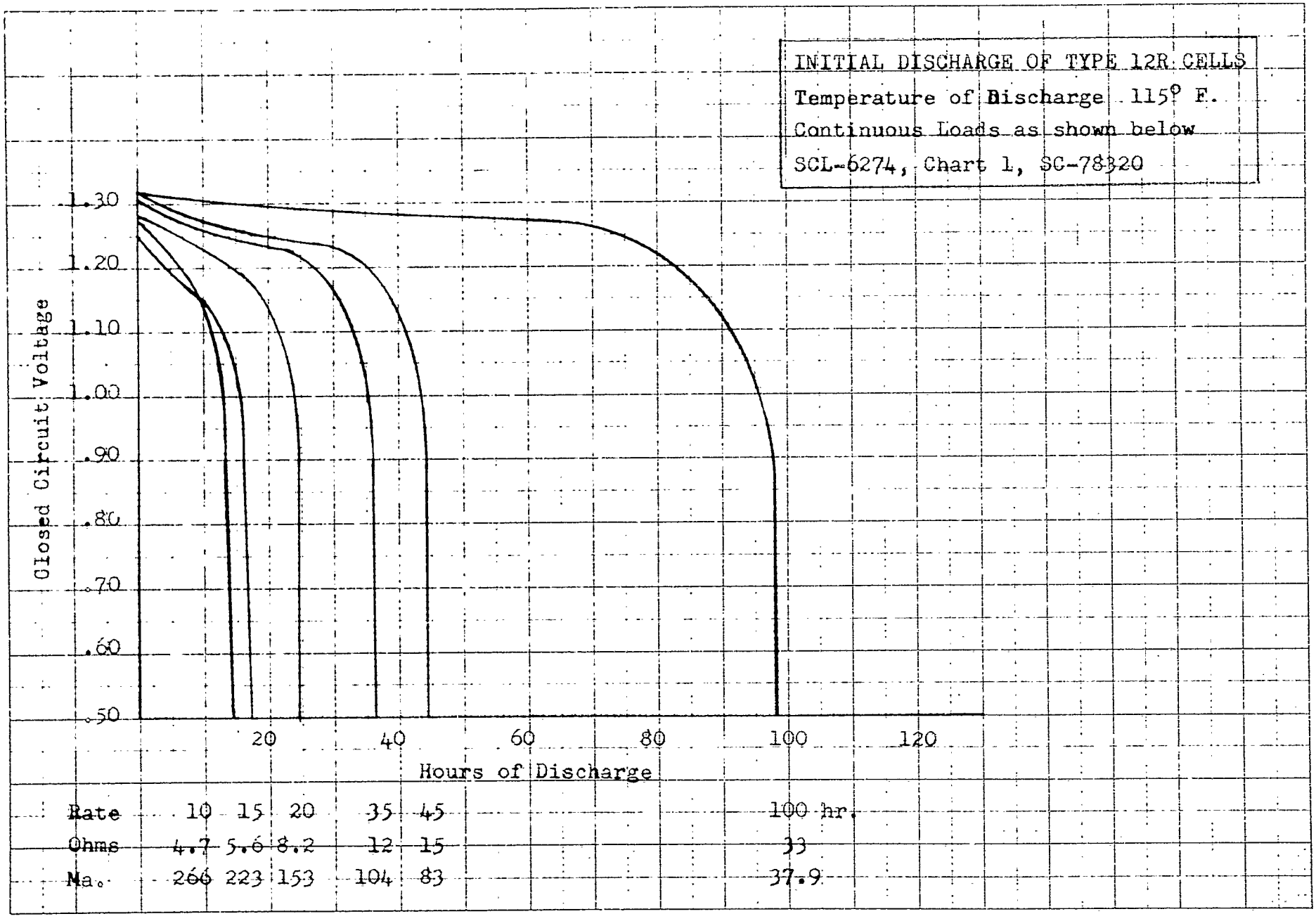
		Pages
8.1	Appendix I: Initial Discharge Curves of Cell Types 12R, 42R and 640R at 70°F	42-44
8.2	Appendix II: Initial Discharge Curves of Cell Types 12R, 42R and 640R at 115°F	45-47
8.3	Appendix III: Discharge Tests, Nos 373-1227	48-161

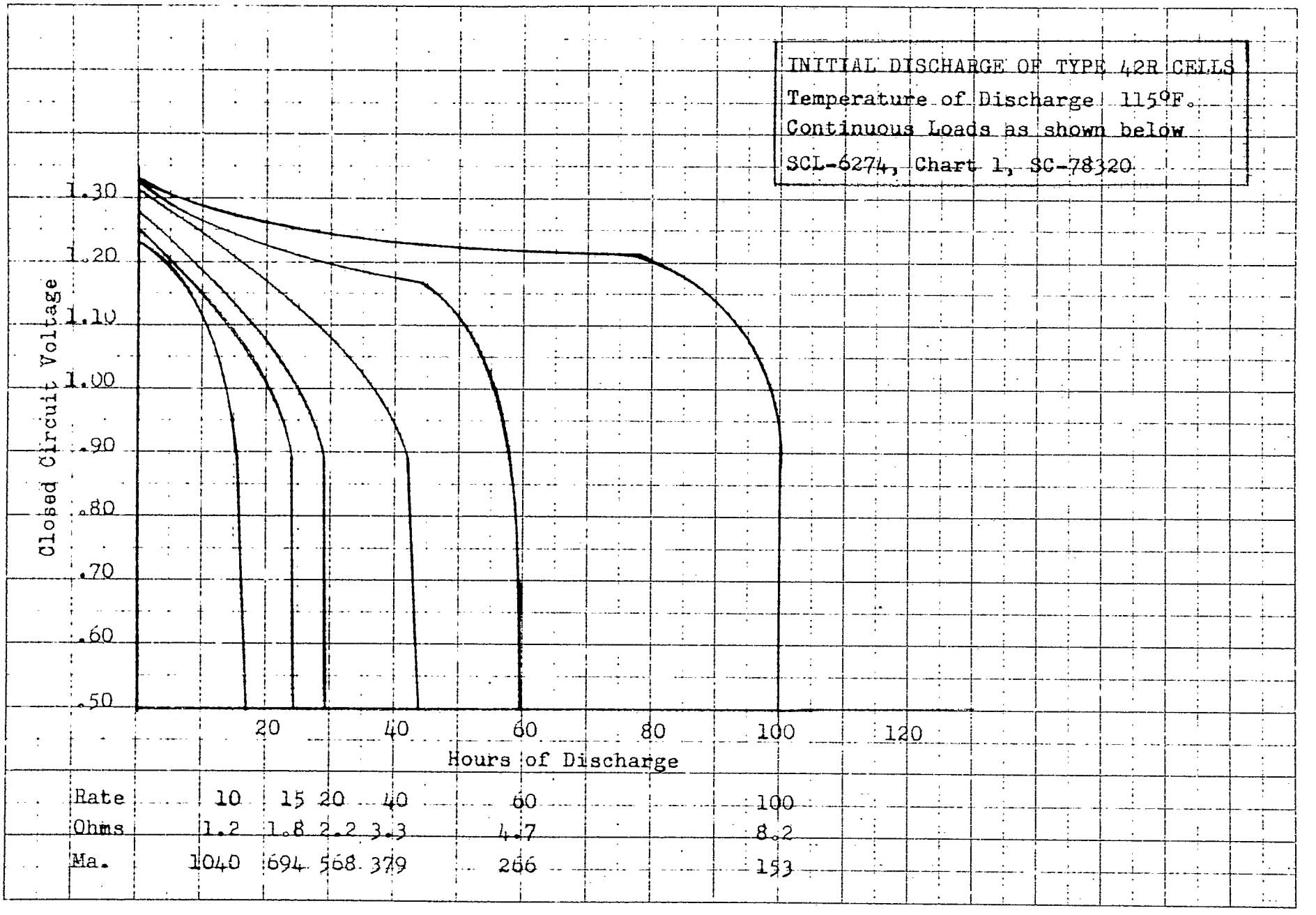
"PRECISE"
TRADE MARK
B. K. ELLIOTT COMPANY PITTSBURGH DETROIT, CLEVELAND

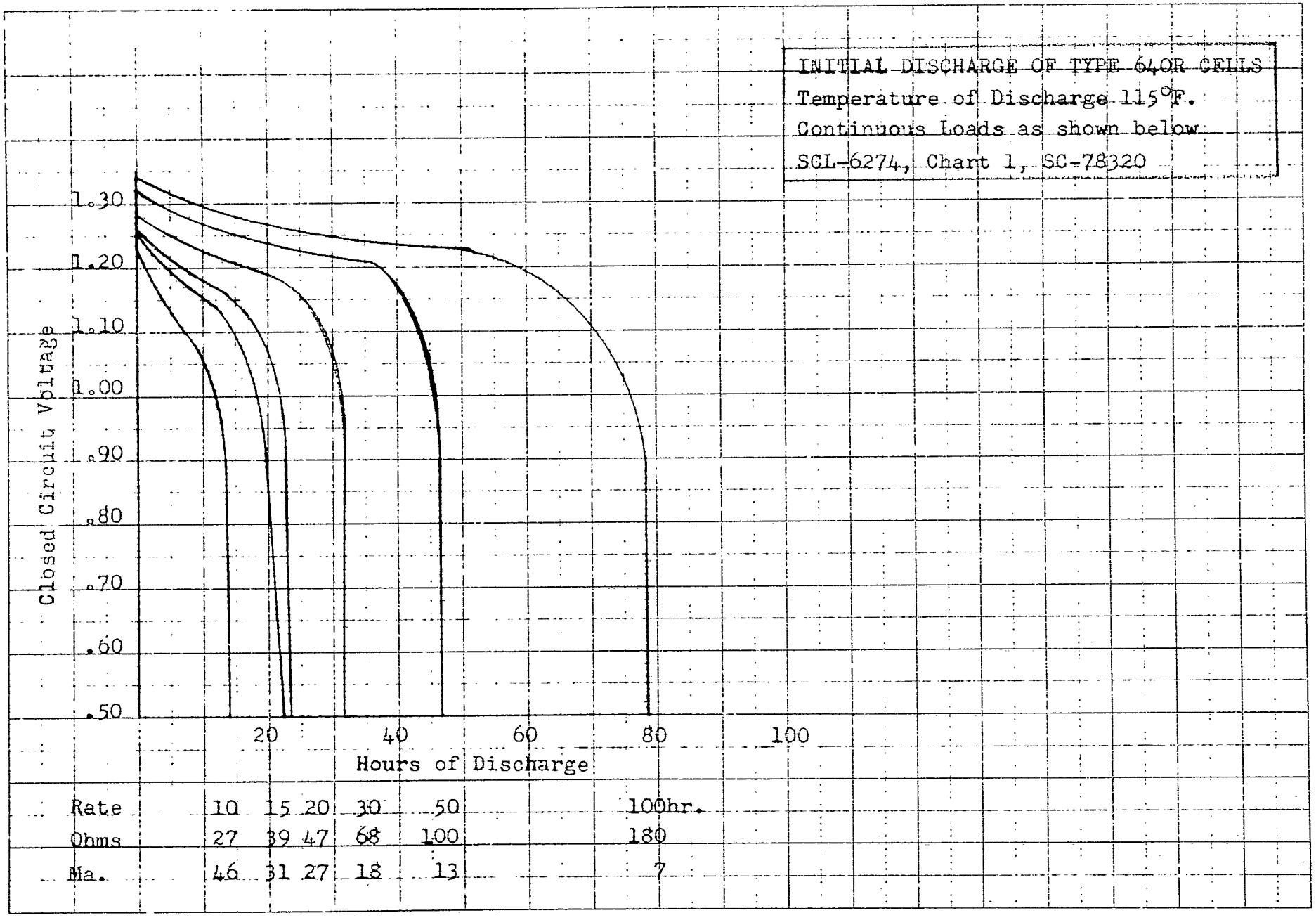



INITIAL DISCHARGE OF TYPE 42R CELLS
Temperature of Discharge 70° F.
Continuous Loads as shown below
SCL-6274, Chart 1, SC-78320
Closed Circuit Voltage
1.30
1.20
1.10
1.00
.90
.80
.70
.60
.50
20
40
60
80
100
120
Hours of Discharge
Rate 10 15 20 40 60 100 hr.
Ohms 1.2 1.8 2.2 3.3 4.7 8.2
Ma. 1040 694 568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


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 Hrs to 0.9V	33 79.2	33 72.6	33 70.0	33 93.7	33 97.5	33 93.7	373
ohms Hrs to 0.9V	33 95.7	33 47.0	33 86.1	33 99.0	33 95.8	33 101.7	374
ohms Hrs to 0.9V	33 7.5	33 7.2	33 15.0	33 6.45	33 4.3	33 6.5	375
ohms Hrs to 0.9V	33 7.7	33 12.0	33 9.5	33 7.7	33 8.7	33 8.7	376
ohms Hrs to 0.9V	3.3 0.35	3.3 5.70	3.3 5.90	3.3 6.00	3.3 6.50	3.3 5.90	377
ohms Hrs to 0.9V	2.7 0.45	2.7 2.65	2.7 3.25	2.7 0.20	2.7 1.45	2.7 1.75	378
ohms Hrs to 0.9V	5.6 15.4	5.6 15.9	5.6 17.2	5.6 16.7	5.6 16.8	5.6 16.8	379
ohms Hrs to 0.9V	5.6 16.3	5.6 16.4	5.6 15.4	5.6 16.5	5.6 16.8	5.6 16.5	380
ohms Hrs to 0.9V	5.6 2.4	5.6 1.85	5.6 1.95	5.6 0.50	5.6 0.85	5.6 2.0	381
ohms Hrs to 0.9V	2.7 1.40	2.7 2.60	2.7 2.15	2.7 1.30	2.7 3.50	2.7 4.15	382
ohms Hrs to 0.9V	3.3 6.20	3.3 7.10	3.3 6.10	3.3 1.60	3.3 7.40	3.3 7.10	383
ohms Hrs to 0.9V	3.9 3.2	3.9 9.3	3.9 7.9	3.9 9.5	3.9 8.9	3.9 8.65	384
ohms Hrs to 0.9V	4.7 0.30	4.7 0.20	4.7 9.55	4.7 9.55	4.7 9.95	4.7 0.30	385
ohms Hrs to 0.9V	4.7 9.25	4.7 10.5	4.7 9.0	4.7 9.2	4.7 10.0	4.7 10.3	386
ohms Hrs to 0.9V	4.7 0.45	4.7 0.50	4.7 0.25	4.7 0.30	4.7 0.30	4.7 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	

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	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. ____ Mallory Battery Co., North Tarrytown, N.Y. 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. 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 1.) Batteries: Primary Alkaline 2.) Contract: DA-36-039 SC-78320	AD No. ____ ACCESSION No. ____ Mallory Battery Co., North Tarrytown, N.Y. 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. 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 1.) Batteries: Primary Alkaline 2.) Contract: DA-36-039 SC-78320
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