

U. S. NAVAL AMMUNITION DEPOT
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From: Commanding Officer, U. S. Naval Ammunition Depot, Crane, Indiana
To: National Aeronautics and Space Administration, Goddard Space Flight Center, Electrochemical Power Sources Section (636.2), Space Power Technology Branch, Greenbelt, Maryland 20771

Subj: Monthly Progress Report on National Aeronautics and Space Administration Space Cell Test Program; submission of

Encl: (1) Monthly Progress Report as of 31 October 1964 (3 copies)

1. The progress report for National Aeronautics and Space Administration purchase order W11,252B on the space cell test program is submitted as enclosure (1).

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By direction

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MONTHLY PROGRESS REPORT THROUGH 31 OCTOBER 1964

LIFE CYCLE TESTS

1. Status of Cycling Program.

a. Total number of packs cycled to date - 98.

(1) Fifty 10-cell packs and 48 5-cell packs.

b. Total number of packs still cycling - 75.

(1) Thirty-nine 10-cell packs (Nickel Cadmium).

(a) 11 General Electric 3.0 ah packs.

1. One pack was removed from test as six of the 10 cells in the pack have failed.

(b) 9 Gould-National Batteries, Inc. 3.5 ah packs.

1. Three packs were removed from test as six of the 10 cells in each of two packs and all cells in the third pack have failed.

(c) 11 Sonotone Corporation 5.0 ah packs.

1. One pack was removed from test as six of the 10 cells have failed.

(d) 8 Gulton Industries, Inc. 6.0 ah packs.

1. Four packs were removed from test as six of the 10 cells in each of three packs and seven in the fourth pack have failed.

(2) No 10-cell packs (Silver Cadmium).

(a) 0 Yardney Electric Corporation 12 ah packs.

1. The two packs were removed from test as six cells of one pack and all ten of the other one leaked electrolyte.

(3) Thirty-five 5-cell packs (Nickel Cadmium).

(a) 12 General Electric Company 12 ah packs.

1. One pack was removed from test as three of the five cells failed.

(b) 7 Gould-National Batteries, Inc. 20 ah packs.

1. Five packs were removed from test as three of the five cells in each pack failed.

Enclosure (1)

(c) 1 Gulton Industries, Inc. 6.0 ah pack.

(d) 2 Gulton Industries, Inc. 50 ah packs.

(e) 7 Gulton Industries, Inc. 20 ah packs.

1. Five of these 5-cell packs have been removed from test for failures of three or more cells in each pack.

(f) 6 Gulton Industries, Inc. 4.0 ah commercial packs.

(4) One 5-cell pack (Silver Zinc).

(a) 1 Delco Remy 25 ah pack.

1. One pack was removed from test as all cells failed.

2. Test Parameters.

a. Ambient Temperatures:

(1) 0° C.

(2) 25° C.

(3) 40° C.

b. Voltage limits per pack on charge:

(1) 1.55 ± 0.03 volts per cell at 0° C.

(2) 1.49 ± 0.03 volts per cell at 25° C.

(3) 1.45 ± 0.03 volts per cell at 40° C.

(4) 1.97 ± 0.03 volts per cell at 25° C on the silver zinc packs.

c. Depths of Discharge:

(1) 90-minute and 3-hour orbits:

(a) 15 percent and 25 percent at 0° C.

(b) 25 percent and 40 percent at 25° C.

(c) 15 percent and 25 percent at 40° C.

(2) 24-hour orbits:

(a) 50 percent at 0° C, 25° C and 40° C.

(b) 40 percent at 25° C on the silver zinc packs.

d. Orbit Times:

- (1) 90 minutes--30 minute discharge and 60 minute charge.
- (2) 3 hours--30 minute discharge and 150 minute charge.
- (3) 24 hours--1 hour discharge and 23 hour charge.

3. Data.

a. Normal operation schedules complete data to be recorded on 90-minute and 3-hour packs every 32 cycles. On 24-hour cycles, complete data is taken every eight cycles.

b. The attached data sheets give end of discharge and end of charge voltage readings for each cell on each cycle recorded.

4. Cell Failures.

<u>Cell Type</u>	Failures	Total
	<u>October 1 through</u> <u>October 31, 1964</u>	<u>Failures</u> <u>To Date</u>
General Electric 3.0 ah	3	19
Gould 3.5 ah	3	40
Sonotone 5.0 ah	3	17
Gulton 6.0 ah	5	52
General Electric 12 ah	3	5
Gould 20 ah	0	22
Gulton 20 ah	0	16
Yardney 12 ah (Silver Cadmium)	0	16
Delco Remy 25 ah	0	5

5. Cell Failure Analysis.

a. All failure analysis results are cumulative. These results are shown in pages 5 through 23.

6. Capacity Tests.

a. Prior to cycling, each pack was given a capacity test at its respective cycling temperature. This check consisted on a c/10 charge for 16 hours followed by a c/2 discharge to 1.0 volt/cell average. After each 88 days of

cycling, each pack was discharged at the c/2 rate to 1.0 volt/cell average following a charge at the cycle rate. The pack was then recharged at the c/10 rate for 16 hours and discharged at the c/2 rate to 1.0 volt/cell average. The pack was then recharged at the c/10 rate for 48 hours, voltage limited to the cycle limits. Data of capacity tests is tabulated on pages 24 through 26.

CELL TYPE: General Electric 3.0 Ampere-Hour									
PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS		
16	40%	1.5	25°	427	7	3985*	Low Volt. Disch, Normal Volt. Chg, Pos Tab Broken and Touching Case, Burned Tape on Tab Caused by Overheating From Poor Tab Weld.		
			25°	58	6	4473*	Low Volt. Disch, Normal Volt. Chg, Short on One Edge of Plates, Neg. Plate Material Penetrated Separator.		
			25°	361	1	4741*	Low Volt. Disch, Normal Volt. Chg, Shorted, Separator Deteriorated, Neg. Plate Material Penetrated Separator.		
39	15%	1.5	50°	541	2	780	Low Volt. Disch, High Volt. Chg, Leaked, Shorted at Top of Core, Separator Too Short, Pos. Tab Burned.		
			40°	540	6	2083	Low Volt. Disch, High Volt. Chg, Leaked, Shorted at Top of Core, Separator Too Short, Pos. Tab Burned.		
			40°	549	7	2523	Low Volt. Disch, High Volt Chg, Pos. Tab Burned.		
40	25%	1.5	40°	464	3	2073	Low Volt. Disch, High Volt, Chg, Shorted at Top of Core, Separator Too Short, Pos. Tab Burned		
			40°	3131	8	2182	Low Volt. Disch, Normal Volt. Chg, Leaked, Loose Plate Material on Separator.		
			40°	47	7	2182	Low Volt. Disch, High Volt. Chg, Shorted at Top of Core, Separator Too Short, Pos. Tab Burned and Broken.		
			40°	49	5	2446	Low Volt. Disch, High Volt. Chg, Pos. Weld to Terminal Stud Burned, Poor Weld.		
			40°	45	10	2461	Low Volt, Disch, High Volt. Chg, Loose Plate Material on Separator, Short at Outside End of Pos. Plate.		
			40°	466	2	2509	Low Volt. Disch, High Volt. Chg, Leaked, Pos. Tab Burned and Shorted to Neg. Tab.		
			40°	441	6	2509	Low Volt. Disch, High Volt, Chg, Leaked, Shorted at Top of Core, Separator Too Short, Pos. Tab Burned.		

* FAILED DURING THIS REPORTING PERIOD.

CELL TYPE: General Electric 3.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
43	15%	3.0	40°	416	4	1182	Low Volt. Disch, Low Volt. Chg, Shorted at Top of Core, Separator Too Short, Pos. Tab Burned.
			40°	499	3	1515	Low Volt. Disch, High Volt Chg, Shorted at Top of Core, Separator Too Short, Pos. Tab Burned and Broken.
			40°	412	6	1911*	Showed Open Circuit at Start of Cycle, Pos. Tab Broken, Burned Tape on Tab Caused by Over Heating From Poor Tab Weld.
44	25%	3.0	40°	222	6	1672*	Showed Open Circuit at Start of Cycle, Pos. Tab Broken, Burned Tape on Tab Caused By Over Heating From Poor Tab Weld.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Gould 3.5 Ampere Hour
3	25%	1.5.	25°	73	5	2785	FAILURE ANALYSIS Low Volt. Disch, High Volt. Chg, Short Near Center of Core, Piece of Pos. Plate Material Between Plates Causing Short Through Separator.
				54	2	3090	Low Volt. Disch, Low Volt. Chg, Leaked, Lost 1.7 gm, Weak Weld on Neg. Tab to Plate.
				165	9	4081	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 1.7 gm, Deposit on Glass Seal, Short Through Separator, Short at Pos. Tab Near Center of Core, Neg. Tab Weld to Plate Weak.
4	40%	1.5	25°	93	6	4289*	Low Volt. Disch, Normal Volt. Chg, Leaked Around Glass Seal, Lost 2.6 gm, Separator Deteriorated, Neg. Plate Material Penetrated Separator.
				97	7	4401*	Low Volt. Disch, Normal Volt. Chg, Leaked Around Glass Seal, Lost 2.5 gm, Separator Deteriorated, Neg. Plate Material Penetrated Separator.
				81	7	1609	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 3.2 gm, High Pres. Bulge Top, Burnt Separator Near Top - Foreign Particle.
				90	8	1862	Low Volt. Disch, Low Volt. Chg, Leaked, Lost 2.7 gm, High Pres. Bulge Top.
				43	6	2954	Low Volt. Disch, Low Volt. Chg, Leaked, Lost 1.3 gm, Plate Material on Separator.
				27	3	3029	Low Volt. Disch, Normal Volt. Chg, Deposit on Glass Seal, Separator Deteriorated.
				198	10	3164	Low Volt. Disch, Low Volt. Chg, Leaked, Lost 1.6 gm, Separator Deteriorated, Pos. Plate Material Between Plates.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Gould 3.5 Ampere-Hour FAILURE ANALYSIS
8	40%	3.0	25°	68	6	1346	Low Volt. Disch, Low Volt. Chg, Leaked, Lost 1.5 gm, Plate Material on Separator.
			25°	112	8	1705	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 2.0 gm, Pos. Tab Weld to Bottom of Can Weak, Pos. Tab Weld to Plate Weak.
			25°	39	1	1985	Low Volt. Disch, Normal Volt. Chg, Deposit on Glass Seal, Separator Deteriorated, Neg. Plate Material on Separator.
			25°	170	10	1985	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 1.8 gm, Pos. and Neg. Tab Weld Weak to Plates Near Center of Core, Separator Deteriorated at Center of Core.
			25°	78	7	2138*	Low Volt. Disch, Low Volt. Chg, Leaked Around Glass Seal, Lost 1.4 gm, Pos. Tab Weld to Case Weak, Separator Deteriorated, Neg. Plate Material Penetrated Separator.
27	15%	1.5	40°	13	3	2901	Low Volt. Disch, Low Volt. Chg, Leaked, Lost 1.5 gm, Separator Deteriorated, Pos. Plate Material on Separator.
			40°	195	8	2901	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 3.6 gm, Short Through Separator, Separator Burned at Center of Core, Pos. Plate Material on Separator.
			40°	103	7	2998	Low Volt. Disch, Normal Volt. Chg, High Pres, Short Through Separator, Pieces of Pos. Plate Material Between Plates.
			40°	200	10	3270	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 2.5 gm, Short Through Separator, Separator Deteriorated at Center of Core, Pos. Tab Weld to Case Weak.
			40°	197	9	4102*	Low Volt. Disch, High Volt. Chg, Leaked Around Glass Seal, Lost 1.4 gm, Short at Pos. Tab, Separator Deteriorated, Neg. Plate Material Penetrated Separator.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Gould 3.5 Ampere-Hour
28	25%	1.5	50°	122	2	408	FAILURE ANALYSIS Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 1.8 gm, Weak Bottom Weld Suspicious Spot but not Definite.
				157	7	494	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 2.0 gm, High Pres. Bulge.
				158	8	860	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 1.9 gm, High Pres. Bulge Top.
				141	5	860	Low Volt. Disch, High Volt. Chg, Leaked, Lost 3.5 gm.
				168	10	1293	Low Volt. Disch, High Volt. Chg, Weak Weld to Bottom of Case.
				121	1	1811	Low Volt. Disch, Low Volt Chg, Short at Outside End of Plates, Grid Wire Penetrated Separator.
				133	3	1811	Low Volt. Disch, High Volt. Chg, Weak Weld on Pos. Tab to Case.
				140	4	1811	Low Volt. Disch, Low Volt. Chg, Short Around Pos. Tab, Blistering on Pos. Plate, Active Neg. Plate Material on Separator.
				155	6	1811	Low Volt. Disch, Low Volt. Chg, Short Through Separator, Weak Weld to Bottom of Case.
				163	9	1811	Low Volt. Disch, Low Volt. Chg, Short Through Separator, Weak Weld to Bottom of Case, Deposit on Glass Seal.
				R166	9	1500	Low Volt. Disch, Low Volt. Chg, Leaked, Lost 7.1 gm, Separator Deteriorated.
				R179	10	1500	Low Volt. Disch, Low Volt. Chg, Leaked, Lost 1.5 gm, Short Through Separator, Separator Deteriorated, One Weak Tab.
				R92	2	1696	Low Volt. Disch, High Volt. Chg, Pieces of Plate Material Shorted Through Separator, Separator Deteriorated.
31	15%	3.0	40°				

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 3.5 Ampere-Hour</u>
32	25%	3.0	40°	125	6	138	FAILURE ANALYSIS Low Volt. Disch, Normal Volt. Chg, Bottom Weld Weak, Greenish Corrosion Inside at Neg. Lead.
			40°	65	3	495	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 1.5 gm, Bad Glass Seal Around Neg. Terminal.
			40°	1	1	800	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 3.2 gm, Shorts near Center of Core.
			40°	67	4	875	Low Volt. Disch, Low Volt. Chg, Leaked, Lost 2.2 gm, Short Around Tabs, Pos. Tab Weld Weak to Case.
			40°	132	7	875	Failed During Shut Down to Move to Another Chamber, Leaked, Lost 4.4 gm, High Pressure, Neg. Tabs Pushed Out of Cell, Short at Center and Outside Edge of Core.
			40°	149	9	975	Low Volt. Disch, High Volt. Chg, Leaked, Lost 1.1 gm, Piece of Pos. Plate Material Shorted Through Separator, Weak Welds to Case and Plates.

CELL TYPE: Sonotone 5.0 Ampere-Hour									
PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS		
1	25%	1.5	25°	4361	4	2995	Low Volt. Disch, High Volt. Chg, Inclusion on Surface of Outside Pos. Plate Wore Hole Through Separator and Thin Outside Wrap, Separator Sticking to Neg. Plate, Glass Seal Leaked		
			25°	4335	1	4423*	Low Volt. Disch, High Volt. Chg, Neg. Tabs Weak Weld to Plates, Separator Melted at Center of Core, Extreme Pressure Points on Separator From Scoring Causing High Resistance Shorts.		
2	40%	1.5	25°	811	10	3155*	Shorted on Cycling, Leaked Around Seal, High Pressure Bulge on Bottom, Insulators Brittle, Exposed Grid Wires at Center of Core Penetrated Separator Causing Large Burned Area at Short, Pos. and Neg Tab Weld Poor.		
			25°	3628	5	3992*	Low Volt. Disch, Normal Volt. Chg, Leaked Around Seal, High Pressure Bulge on Bottom, Hole in Separator Exposing Pos and Neg Plates, Neg Plate Material Penetrated Separator.		
			25°	3613	2	4411*	Low Volt. Disch, Low Volt. Chg, Two Pieces of Neg Plate Material Wore Hole in Separator at Scoring Mark, Burned Thru Plates, Neg. Tab Welds Poor, Separator Beginning to Deteriorate.		
6	40%	3.0	25°	4324	8	1069	Low Volt. Disch, Normal Volt. Chg, Separator Impregnated With Active Material, Separator Sticking to Neg. Plate.		
			25°	6904	10	1136	Low Volt. Disch, Low Volt. Chg, Small Hole in Separator at Start of Coil, Pos. Plate Edge Broken Allowing Grid Wire to Penetrate Separator.		
			25°	3637	4	1161	Grid Wires of Pos. Plate Penetrated Separator and Shorted to Neg. Plate, Active Plate Material Penetrated Separator at Three Points, Bad Tab Welds.		

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Sonotone 5.0 Ampere Hour
26	25%	1.5	40°	4323	1	2487	FAILURE ANALYSIS Grid Wire Penetrated Separator at Tabs. Shorted on Cycling, Slight Burn Adjacent to Neg Tab, Separator Deteriorated, Neg. Plate Material Penetrated Separator, Tab Welds Weak. Low Volt. Disch, Normal Volt. Chg, High Pressure Bulge, Deposit Around Seal, Neg. Tab Weld Weak, Neg. Plate Material Penetrated Separator. Low Volt. Disch, Normal Volt. Chg, High Pressure Bulge, Deposit Around Seal, Pos. Tab Weld Weak, Plate Broken at Pos. Tab, Deep Pressure Points From Scoring, Separator Completely Deteriorated. Shorted on Cycling, Complete Short From Deep Scoring, Plate Shorted Through Outer Wrap. Low Volt. Disch, Low Volt. Chg, Separator Deteriorated, Plate Material Penetrated Separator. Shorted on Cycling, Neg. Tab Welds Poor, Active Plate Material Penetrated Separator at Scoring Marks. Hole in Separator Allowing Pos. Plate to Hit Case, Separator Damaged at Center of Cell Allowing Pos. and Neg. Plate to Short Together. Low Volt. Disch, Low Volt. Chg, Burn on Separator Opposite Pos. Tab.
29	15%	3.0	40°	3626	1	1418*	
30	25%	3.0	40°	3657	7	856	
49	15%	1.5	0°	6887	9	2010	

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Gulton 6.0 Ampere-Hour
13	25%	1.5	25°	2305	1	308	FAILURE ANALYSIS Low Volt. Disch, High Volt. Chg, Lost 12 gm, CO ₂ Top Ceramic, High Pres. Bulge
				2355	10	502	Low Volt. Disch, High Volt. Chg, Lost 10 gm, High Pres. Bulge.
				3134	5	2969	Low Volt. Disch, Low Volt. Chg, Ceramic Short, Blistering on Pos. Plates
				3211	7	3084	Low Volt. Disch, Low Volt. Chg, Ceramic Short, Blistering on Pos. Plates
				2613	4	3598*	Low Volt. Disch, Low Volt. Chg, Ceramic Short, Blistering on Pos. Plate, Separator Deteriorated.
14	40%	1.5	25°	1623	4	262	Low Volt. Disch, High Volt. Chg, Lost 12 gm, High Pres. Bulge
				1635	5	262	Voltage Fell Off During Charge, Wet Flat in 3 Min. or Disch, Lost 6 gm, Concave Wall, High Pres. Bulge, Ceramic Broken Inside Case, CO ₂ on Outside of Ceramic, Pos. Terminal Loose
				2356	1	450	Low Volt. Disch, High Volt. Chg, Lost 12 gm, High Pres.
				2387	2	1113	Low Volt. Disch, High Volt. Chg, Ceramic Short
				2391	3	1618	Low Volt. Disch, Low Volt. Chg, Ceramic Short
17	25%	3.0	25°	3208	7	2086	Low Volt. Disch, Normal Volt. Chg, Ceramic Short
				1862	5	721	Low Volt. Disch, High Volt. Chg, Ceramic Short
				1823	3	721	Low Volt. Disch, High Volt. Chg, High Pres. Bulge, Burnt Spot on Neg. Plate Near Bottom Second From End, Ceramic Short
				2348	10	1688	Low Volt. Disch, Low Volt. Chg, Ceramic Short
				1826	6	365	Low Volt. Disch, Chg. Volt. Normal, Lost 3 gm, Concave Wall, Ceramic Short
18	40%	3.0	25°				

CELL TYPE: Gulton 6.0 Ampere Hour									
PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS		
18	40%	3.0	25°	1615	3	608	Low Volt. Disch., Normal Volt. Chg., Deposit Top of Pos. Terminal, Lost 5.1 gm., High Pres. Bulge		
				1827	7	643	Low Volt. Disch., High Volt. Chg., High Pres. Bulge, Ceramic Short		
				2228	9	643	Low Volt. Disch., High Volt. Chg., Ceramic Short		
				1562	5	1145	Low Volt. Disch., Low Volt. Chg., Ceramic Short, Blistering on Pos. Plates		
				1233	1	1550	Low Volt. Disch., Low Volt. Chg., Ceramic Short, Blistering on Pos. Plate, Neg. Plate Material on Separator		
37	15%	1.5	50°	1764	3	239	Low Volt. Disch., Volt. Did Not Increase on Following Chg., (1.00 V.), Lost 4 gm., Ceramic Short		
				1784	8	1566	Low Volt. Disch., Low Volt. Chg., Lost 10.5 gm., Ceramic Short		
				1802	4	2819	Low Volt. Disch., Low Volt. Chg., Ceramic Short, Blistering on Pos. Plate		
				2333	10	2981	Low Volt. Disch., Normal Volt. Chg., Ceramic Short, Blistering on Pos. Plates		
				1454	8	37	No Volt. on Chg., or Disch., Ceramic Short		
38	25%	1.5	50°	1815	6	114	Volt. Fell Off During Disch., Chg. Volt. Slightly Low, Lost 3.5 gm., Ceramic Short		
				1853	9	187	Rev. on Disch., Chg. Volt. Normal, Lost 4 gm., Deposits Around Pos. Terminal (Outside), Ceramic Short		
				1627	3	225	Low Volt. Disch., High Volt. Chg. on Cycle 219, Dead on 225, Lost 3.5 gm.		

CELL TYPE: Gulton 6.0 Ampere Hour									
PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS		
38	25%	1.5	40°	2405	5	1333	Low Volt. Disch., Normal Volt. Chg., Pos. Bus Shorted to Case		
				1626	2	1377	Low Volt. Disch., Low Volt. Chg., High Pres. Bulge, Ceramic Short		
				1771	9	650	Low Volt. Disch., High Volt. Chg., Ceramic Short		
41	15%	3.0	40°	1801	6	1063	Low Volt. Disch., Normal Volt. Chg., Ceramic Short		
				3135	2	1132	Low Volt. Disch., Normal Volt. Chg., Ceramic Short		
				1852	7	1157	Low Volt. Disch., Normal Volt. Chg., Ceramic Short, Blistering on Pos. Plates.		
42	15%	3.0	40°	2221	8	1157	Low Volt. Disch., Normal Volt. Chg., Ceramic Short		
				1632	3	1689	Low Volt. Disch., Normal Volt. Chg., Ceramic Short, Blistering on Pos. Plates		
				2309	8	96	Low Volt. Disch., Normal Volt. Chg., Ceramic Short		
61	15%	1.5	40°	2346	7	383	Low Volt. Disch., Low Volt. Chg., CO ₃ on Bottom of Case, Ceramic Short		
				2306	9	417	Low Volt. Disch., High Volt. Chg., Ceramic Short		
				918	1	484	Low Volt. Disch., Low Volt. Chg., High Pres. Bulge, Deposit on Bottom of Case, Ceramic Short, Lost 3.1 gm.		
61	15%	1.5	0°	1622	2	1	Volt. Between 0.25 and 0.3 V. Throughout Cycle, Side Concave, Burnt Case, End Neg. Pushed Into Pos. Tab		
				1845	8	6	Lost 5 gm., Leak at Weld on Bottom, High Pres. Bulge		
				2397	5	2762	Low Volt. Disch., Low Volt. Chg., Ceramic Short		

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 6.0 Ampere-Hour</u>	
							FAILURE ANALYSIS	
62	25%	1.5	0°	1630	10	2995	Low Volt. Disch, High Volt. Chg, Leaked, Lost 6.8 gm, Ceramic Seal Broken, Deposit on Inside of Ceramic, High Pres. Bulge, Blistering on Pos. Plates	
66	25%	3.0	0°	1792	4	4066*	Low Volt. Disch, Low Volt. Chg, Small Shorts Through Separator Near Pos. Tab, Blistering on Pos. Plate, Separator Deteriorated.	
			0°	1794	6	1045	Low Volt. Disch, High Volt. Chg, High Pres. Bulge, Concave Side, Ceramic Broken, No Seal, Lost 5.1 gm, Pos. Bus Against Case.	
			0°	1843	8	1174	Low Volt. Disch, Low Volt. Chg, Wall Concave, Ceramic Short.	
			0°	1781	5	1237	Low Volt. Disch, High Volt. Chg, High Pres. Bulge Deposit Around Pos. Terminal, Ceramic Broken on Pos. Terminal, Blisters on Pos. Plate, Burnt Spot on Separator at Blisters, Lost 1.3 gm.	
			0°	1634	3	1417	Low Volt. Disch, Normal Volt. Chg, Ceramic Short, High Pres. Bulge, One Side Concave Other Convex, Pos. Plates Blistered, Lost 2.3 gm.	

CELL TYPE: General Electric 12.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
96	40%	1.5	25°	445	3	3822*	Low Volt. Disch, Low Volt. Chg, Separator Penetrated By Neg. Plate Material, Pin Point Shorts Through Separator.
			25°	446	2	4020*	Low Volt. Disch, Low Volt. Chg, Separator Penetrated by Neg. Plate Material, Pin Point Shorts Through Separator.
			25°	442	4	4020*	Low Volt. Disch, Low Volt. Chg, Separator Penetrated by Neg. Plate Material, Pin Point Shorts Through Separator.
99	25%	1.5	40°	429	3	3841*	Shorted on Cycling, Separator Penetrated by Neg. Plate Material, Pin Point Shorts Through Separator, Leaked at Neg. Terminal, Epoxy Lifted Up.
124	25%	1.5	0°	410	5	3037*	Cell Lost Capacity on Cycling But Came Back When Removed From Pack, So It Was put Back On Cycling In Same Pack.

CELL TYPE: Gulton 20 Ampere-Hour									
PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS		
73	25%	1.5	25°	396	3	1776	Low Volt. Disch, Normal Volt. Chg, Concave Side, Neg. Ceramic Seal Broken, Lost 23.7 gm.		
74	25%	3.0	25°	458	4	1184	Low Volt. Disch, Low Volt. Chg, Leaked, Lost 14.2 gm, Blistering on Pos. Plates		
87	40%	1.5	25°	419	3	1303	Low Volt. Disch, Normal Volt. Chg, Leaked, Lost 21.9 gm		
			25°	440	2	1754*	Low Volt. Disch, Normal Volt. Chg, Leaked Around Both Terminals, Ceramic Broken on Neg. Terminal, Lost 18.0 gm, Neg. Plate Material Penetrated Separator, Sides Concaved, Shorting Case to Bus		
			25°	468	1	163	Low Volt. Disch, High Volt. Chg, High Pres. Bulge, Lost 8 gm		
			25°	388	2	209	Low Volt. Disch, High Volt. Chg, Lost 26.7 gm, Ceramic Short Around Pos. Terminal		
88	40%	3.0	25°	394	3	627	Low Volt. Disch, High Volt. Chg, Lost 16.4 gm, High Pres. Bulge, Deposit on Both Terminals, Ceramic Short, Neg. to Case		
			25°	454	4	627	Low Volt. Disch, Low Volt. Chg, Lost 21.6 gm, Deposit on Both Terminals, Sides Concave Hit Bus on Both Sides		
			25°	386	5	627	Low Volt. Disch, Low Volt. Chg, Lost 18.1 gm, High Pres. Bulge, Burnt Separator 5th or 6th Neg. Plate Near Top, Ceramic Short		
			25°	422	2	153	Low Volt. Disch, High Volt. Chg, High Pres. Bulge, Bottom Ceramic Leak, Lost 25 gm.		
			25°	404	1	153	Low Volt. Disch, High Volt. Chg, High Pres. Bulge, Bottom Ceramic Leak, Lost 25 gm		
			25°	466	3	358	Low Volt. Disch, High Volt. Chg, High Pres. Bulge, Lost 16.4 gm		
			25°	429	5	358	Low Volt. Disch, Low Volt. Chg, Ceramic Short Around Pos. Terminal		

PACK NUMBER		DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
90		25%	1.5	40°	452	4	2824	CELL TYPE: Culston 20 Ampere Hour Low Volt. Disch., Low Volt. Chg., Short Through Separator at Top of Plates, High Pres. Bulge on Sides, High Pres., Separator Deteriorated
101		15%	1.5	40°	457	5	2824	Low Volt. Disch., Normal Volt. Chg., Short Through Separator, Blistering on Pos. Plate, High Pres. Bulge on Sides, High Pres.
								Low Volt, Disch., High Volt. Chg., Leaked, Lost 24.6 gm., High Pres. Bulge, Separator Very Dry
								Low Volt. Disch., High Volt. Chg., Leaked, Lost 20.4 gm., Separator Very Dry
								Low Volt. Disch., High Volt. Chg., Leaked, Lost 13.2 gm., High Pres. Bulge, Sides Concaved, Blistering on Pos Plates.
102		15%	3.0	0°	449	2	135	Volt. Fell Suddenly at End of Chg., Burn Spots at Busses, Concave Around Spots, End Neg. Pushed Into Pos. Tab
								Low Volt. Disch., Normal Volt. Chg., Walls Concave, Busses Shorted to Case, Lost 26.9 gm.
115		25%	1.5	0°	508	2	2203	High Pres. Bulge, Blisters on Pos. Plate, Busses Shorted to Case
								Black Deposit on Outside of Neg. Terminal, High Pres. Bulge, Busses Shorted to Case, Blisters on Pos. Plate, Burnt Spot on Separator
				0°	467	4	2291	

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Gould 20 Ampere-Hour
104	25%	1.5	25°	69	1	2672	FAILURE ANALYSIS Low Volt. Disch, Low Volt. Chg, Shorted at Bottom of Pos. Plate, Pos. Grid Wire Penetrated Separator, Short at Top Between Pos. Grid and Neg. Tab, High Pressure
			25°	R36	5	2826	Low Volt. Disch, Low Volt. Chg, Short Between Plates, Grid Wire Penetrated Separator, Pos. Plate Material Between Plates, High Pressure
			25°	5	3	2980*	Low Volt. Disch, Low Volt. Chg, Separator Completely Deteriorated, Short Between Plates, High Pressure
118	40%	1.5	25°	61	2	1748	Low Volt. Disch, Low Volt. Chg, Short at Bottom of Pos. Plate, Grid Wires Penetrated Separator Where Tape Holds Plates Together, High Pressure
			25°	R91	4	1963	Low Volt. Disch, Low Volt. Chg, Shorted at Bottom Corner of Pos. Plates, Grid Wires Through Separator, Rough Grid Showing Through at Top and Bottom of Most Plates, High Pressure
			25°	92	5	2937	Low Volt. Disch, Low Volt. Chg, Short Through Separator on Side of Plates, Pos. Plate Material Penetrated Separator, High Pressure
119	40%	3.0	25°	73	5	222	Normal Volt. Disch, Low Volt. Chg, Short Near Bottom of 5th or 6th Pos., No Obvious Cause
			25°	80	2	1794*	Low Volt. Disch, Normal Volt. Chg, Neg. Plate Material Penetrated Separator, High Pressure, Blistering on Pos. Plate
			25°	86	3	1794*	Low Volt. Disch, Normal Volt. Chg, Neg. Plate Material Penetrated Separator, High Pressure, Blistering on Pos. Plate

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Could 20 Ampere-Hour FAILURE ANALYSIS
122	25%	3.0	40°	16	2	801	Low Volt. Disch, Low Volt. Chg, Blistering on Pos. Plates, Separator Deteriorated, Plate Material on Both Sides of Separator, High Pressure
			40°	58	3	801	Low Volt. Disch, Low Volt. Chg, Blistering on Pos. Plates, Separator Deteriorated, Plate Material on Both Sides of Separator, High Pressure
			40°	18	5	983	Low Volt. Disch, Low Volt. Chg, Plate Material Penetrated Separator, Pos. Plates Blistered, High Pressure
126	25%	1.5	40°	9	3	1273	Low Volt. Disch, Low Volt. Chg, Shorted at Bottom Corner of Neg. Plate, Grid Wire Penetrated Separator, Several Other Plates Had Grid Wires Sticking Out, High Pressure
			40°	R29	4	1509	Low Volt. Disch, Low Volt. Chg, Shorted at Bottom Corner of Pos. Plate, Grid Wire Penetrated Separator, Blistering on Pos. Plates, Separator Deteriorated, High Pressure
			40°	11	5	1569	Low Volt. Disch, Low Volt. Chg, Shorted on Side of Pos. Plate, Grid Wire Penetrated Separator, High Pressure

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Yardney 10 x YS-12 FAILURE ANALYSIS
33	50%	24	40°		3	58	Leaked, Dried Out
					2	126	Leaked, Dried Out
					1	152	Leaked, Dried Out
					8	197	Leaked, Dried Out
					4	210	Leaked, Dried Out
					10	210	Leaked, Dried Out
57	50%	24	0°		1	162	Leaked, Electrolyte Shorted Out Cell
					2	162	Leaked, Electrolyte Shorted Out Cell
					10	162	Leaked, Electrolyte Shorted Out Cell
					3	166	Leaked, Electrolyte Shorted Out Cell
					4	166	Leaked, Electrolyte Shorted Out Cell
					5	166	Leaked, Electrolyte Shorted Out Cell
					6	166	Leaked, Electrolyte Shorted Out Cell
					7	166	Leaked, Electrolyte Shorted Out Cell
					8	166	Leaked, Electrolyte Shorted Out Cell
					9	166	Leaked, Electrolyte Shorted Out Cell

PACK NUMBER	75	DEPTH OF DISCHARGE	40%	ORBIT PERIOD (HOURS)	24	TEST TEMPERATURE	25°	CELL NUMBER		POSITION IN PACK		CYCLES COMPLETED	30	CELL TYPE: Delco FAILURE ANALYSIS	Cell Blew-up, Pack Returned to Manufacturer
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**AMPERE-HOUR CAPACITIES ON
PRECONDITIONING CYCLES AND CAPACITY CHECKS**

TYPE	PERCENT DEPTH OF DISCHARGE	TEMP. °C.	ORBIT PERIOD	DISCHARGE AMPERE-HOURS*						
				(1)	(2)	(3)	(4)	(5)	(6)	(7)
G.E. 3 A.H.	15	0	90 Min	3.48		3.18	3.12	3.05		
	25	0		3.50		3.33	3.70	3.38		
	25	25		4.00		3.38	2.93	2.33		
	40	25		4.08		2.75	2.10	1.33		
	15	50/40		1.65	2.43 (779)	2.10	1.55	1.25		
	25	50/40		1.80	2.50 (1440)	0.82 **	0.82	PACK FAILED: CYCLE 2509		
G.E. 3 A.H.	15	0	3 Hrs	3.63		3.25	3.40	3.53		
	25	0		3.50		3.35	3.53	3.40		
	25	25		3.93		3.78	3.48	3.15		
	40	25		3.78		3.00	2.35	2.07		
	15	50/40		1.77	2.63 (320)	2.20	1.61	1.65		
	25	50/40		1.60	2.00 (327)	1.35	1.19	1.15		
Gould 3.5 A.H.	15	0	90 Min	3.62		4.00	3.33	3.41		
	25	0		3.33		3.85	3.53	3.18		
	25	25		4.00		3.82	2.92	2.25		
	40	25		3.94		3.38	2.77	PACK FAILED: CYCLE 3164		
	15	50/40		1.52	2.63 (779)	2.07	1.95	1.90		
	25	50/40		1.55	2.07 (424)	2.95	PACK FAILED: CYCLE 1811			
Gould 3.5 A.H.	15	0	3 Hrs	3.27		3.59	3.15	3.38		
	25	0		3.50		3.91	3.53	3.65		
	25	25		4.32		4.03	3.79	3.53		
	40	25		4.29		3.68	3.25	3.03		
	15	50/40		1.60	1.31 (328)	1.75	1.98	2.16		
	25	50/40		1.55	1.66 (495)	1.49	PACK FAILED: CYCLE 975			
Sonotone 5 A.H.	15	0	90 Min	5.45		5.54	5.50	4.96		
	25	0		5.04		4.96	4.52	4.25		
	25	25		5.42		3.67	2.33	2.28		
	40	25		6.42		4.38	4.17	3.25		
	15	50/40		3.08	3.63 (703)	2.25	1.83	2.04		
	25	50/40		3.17	3.17 (445)	2.75	2.93	FAILED: CYCLE 3625		
Sonotone 5 A.H.	15	0	3 Hrs	5.67		5.79	5.67	5.42		
	25	0		4.92		3.96	3.96	4.13		
	25	25		5.71		4.58	3.04	2.04		
	40	25		5.83		4.50	3.29	3.25		
	15	50/40		3.33	4.92 (223)	2.75	2.38			
	25	50/40		3.75	3.50 (123)	1.88	2.88			

* (1) Initial Preconditioning.

(2) Preconditioning at Change to 40° C. Number of cycles completed at 50° C. is in parentheses.

(3) Capacity check after First 88 days of cycling. (** Still at 50° C.)

(4) Capacity check after Second 88 days.

(5) Capacity check after Third 88 days.

(6) Capacity check after Fourth 88 days.

(7) Capacity check after Fifth 88 days. 221.

AMPERE-HOUR CAPACITIES ON
PRECONDITIONING CYCLES AND CAPACITY CHECKS

TYPE	PERCENT DEPTH OF DISCHARGE	TEMP. °C.	ORBIT PERIOD	DISCHARGE AMPERE-HOURS*						
				(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gulton 6 A.H.	15	0	90 Min	5.00		5.10	5.40	4.45		
	25	0		5.00		4.75	3.80	4.35		
	25	25		5.80		2.75	2.85	2.70		
	40	25		6.40		3.45	PACK FAILED:		CYCLE	2086
	15	50/40		2.75	3.60 (239)	1.70	2.95	1.25		
	25	50/40		2.65	2.90 (114)	1.55	PACK FAILED:		CYCLE	1377
Gulton 6 A.H.	15	0	3 Hrs	4.50		5.45	5.35	5.15		
	25	0		4.25		5.00	3.50	2.50		
	25	25		5.80		3.65	3.45	2.50		
	40	25		4.55		4.95	3.16	PACK FAILED: CYCLE		1550
	15	50/40		2.75	4.55 (239)	2.05	1.63	PACK FAILED: CYCLE		1689
	25	50/40		2.60	3.80 (96)	2.15	2.10			
G.E. 12 A.H.	15	0	90 Min	13.9		12.7	10.4	13.0		
	25	0		14.2		13.5	12.9	11.9		
	25	25		15.2		8.00	5.55	5.50		
	40	25		14.8		6.00	7.65	PACK FAILED: CYCLE		4020
	15	50/40		6.80	8.20 (324)	5.00	4.70			
	25	50/40		6.90	6.00 (195)	4.90	5.20			
G.E. 12 A.H.	15	0	3 Hrs	14.2		13.2	10.7	11.0		
	25	0		14.6		13.0	12.1			
	25	25		15.2		11.7	8.20	6.13		
	40	25		14.9		5.60	5.86	7.90		
	15	50/40		7.10	8.20 (205)	6.30	3.70			
	25	50/40		7.00	9.80 (70)	3.80	4.70			
Gould 20 A.H.	15	0	90 Min	22.5		27.7	26.5	24.2		
	25	0		23.0		21.2	15.2	12.7		
	25	25		25.0		18.5	14.0	PACK FAILED: CYCLE		2980
	40	25		24.7		23.3	PACK FAILED: CYCLE			2937
	15	50/40		9.67	6.83 (183)	15.7	15.3			
	25	50/40		9.00	13.9 (1326)	15.2	PACK FAILED: CYCLE		1574	
Gould 20 A.H.	15	0	3 Hrs	23.0		23.2	21.5			
	25	0		23.0		17.5	25.0			
	25	25		23.3		23.5	22.2			
	40	25		24.8		24.7	21.7	PACK FAILED: CYCLE		1793
	15	50/40		9.50	9.67 (47)	11.8	14.8			
	25	50/40		9.33	7.50 (756)	8.17 **	PACK FAILED:		CYCLE	483

- * (1) Initial Preconditioning.
 (2) Preconditioning at Change to 40° C. Number of cycles completed at 50° C. is in parentheses.
 (3) Capacity check after First 88 days of cycling. (** Still at 50° C.)
 (4) Capacity check after Second 88 days.
 (5) Capacity check after Third 88 days.
 (6) Capacity check after Fourth 88 days.
 (7) Capacity check after Fifth 88 days. 25.

AMPERE-HOUR CAPACITIES ON
PRECONDITIONING CYCLES AND CAPACITY CHECKS

TYPE	PERCENT DEPTH OF DISCHARGE	TEMP. °C.	ORBIT PERIOD	DISCHARGE AMPERE-HOURS*						
				(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gulton 20 A.H.	15	0	90 Min	17.2		12.5	5.67	PACK FAILED: CYCLE 3631		
	25	0		17.7		11.2	PACK FAILED:		CYCLE 2288	
	25	25		23.3		7.17	9.50	7.83		
	40	25		23.3	PACK FAILED: CYCLE		627			
	15	50/40		10.3	13.8 (172)	6.50	4.83			
	25	50/40		9.00	11.3 (65)	6.00	10.3			
Gulton 20 A.H.	15	0	3 Hrs	16.7		12.8	25.2			
	25	0		21.7		20.7	21.8			
	25	25		20.3		6.17	7.17	PACK FAILED: CYCLE 1754		
	40	25		19.8	PACK FAILED: CYCLE 358					
	15	50/40		9.50	12.7 (71)	7.33	5.33			
	25	50/40		9.17	10.3 (47)	6.67	6.67			
Yardney 12 A.H.	50	0	24 Hrs	13.8		8.60	PACK FAILED: CYCLE 166			
	50	40		13.5		12.0	PACK FAILED: CYCLE 210			
Gulton 6 A.H.	50	25	24 Hrs	6.60		3.55				
G.E. 12 A.H.	50	25	24 Hrs	13.0		7.60				

- * (1) Initial Preconditioning.
 (2) Preconditioning at Change to 40° C. Number of cycles completed at 50° C. is in parentheses.
 (3) Capacity check after First 88 days of cycling.
 (4) Capacity check after Second 88 days.
 (5) Capacity check after Third 88 days.
 (6) Capacity check after Fourth 88 days.
 (7) Capacity check after Fifth 88 days.

31 OCTOBER 1964

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT PERIOD (HRS)		PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED		CELLS REMAIN- ING IN PACK	
				DISCHARGE	CHARGE				INITIAL	FINAL	INITIAL	FINAL
G.E.	3	63	0	0.5	1.0	15	115	1.55	4462	4980	518	10 10
		64	0	"	"	25	"	"	4439	4961	522	10 10
		15	25	"	"	25	125	1.49	4513	5023	510	10 10
		16	25	"	"	40	"	"	4466	4917	451	9 7
		39	40	"	"	15	160	1.45	4170	4690	520	7 7
		40	50	"	"	25	"	1.41	---	---	---	---
		67	0	"	2.5	15	115	1.55	2110	2378	268	10 10
		68	0	"	"	25	"	"	2109	2379	268	10 10
		19	25	"	"	25	125	1.49	112	2386	268	10 10
		20	25	"	"	40	"	"	2013	---	268	10 10
Gould	3.5	43	40	"	"	15	160	1.45	1986	2207	243	7 7
		44	40	"	"	25	"	"	1914	2190	256	9 9
		51	0	"	1.0	15	115	1.55	4524	5045	518	10 10
		52	0	"	"	25	"	"	4519	5041	522	10 10
		3	25	"	"	25	125	1.49	4290	4718	428	7 5
		4	25	"	"	40	"	"	---	---	---	---
		27	40	"	"	15	160	1.45	4053	4878	322	6 5
		28	40	"	"	25	"	"	---	---	---	---
		55	0	"	2.5	15	115	1.55	2110	2378	268	10 10
		56	0	"	"	25	"	"	2093	2361	268	10 10
		7	25	"	"	25	125	1.49	2116	2384	268	10 10
		8	25	"	"	40	"	"	2118	2243	125	6 5
		31	40	"	"	15	160	1.45	1936	2130	194	7 7
		32		"	"	25	"	1.41	---	---	---	---

MFR.	CAPACITY A. H.	PACK NO.	TEMP °C.	ORBIT PERIOD (HRS)		PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED		CELLS REMAIN- ING IN PACK	
				DISCHARGE	CHARGE				INITIAL	FINAL	INITIAL	FINAL
SONOTONE	5	49	0	0.5	1.0	15	115	1.55	4241	4759	518	9
		50	0	"	"	25	"	"	4199	4717	518	10
		1	25	"	"	25	125	1.49	4144	4605	461	9
		2	25	"	"	40	"	"	4261	4693	435	8
		25	40	"	"	15	160	1.45	4088	4558	470	10
		26	40	"	"	25	"	"	3449	3625	178	5
		53	0	"	2.5	15	115	1.55	1979	2230	221	10
		54	0	"	"	25	"	"	1976	2250	274	10
		5	25	"	"	25	125	1.49	2037	2277	240	10
		6	25	"	"	40	"	"	1958	2211	243	7
		29	40	"	"	15	160	1.45	1896	2163	267	9
		30	40	"	"	25	"	"	1840	2108	268	9
GULTON	6	61	0	"	1.0	15	115	1.55	3919	4372	453	9
		62	0	"	"	25	"	"	3971	4400	429	9
		13	25	"	"	25	125	1.49	3397	3879	482	6
		14	25	"	"	40	"	"	---	---	---	---
		37	40	"	"	15	160	1.45	3291	3808	517	6
		38	40	"	"	25	"	"	---	---	---	---
		65	0	"	2.5	15	115	1.55	2111	2352	241	10
		66	0	"	"	25	"	"	1903	2122	219	6
		17	25	"	"	25	125	1.49	1987	2227	240	7
		18	25	"	"	40	"	"	---	---	---	---
		41	40	"	"	15	160	1.45	---	---	---	---
		42	40	"	"	25	"	"	1660	1928	268	6

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT DISCHARGE	PERIOD (HRS) CHARGE	PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED			CELLS REMAIN- ING IN PACK	
									INITIAL	FINAL	DIFFERENCE	INITIAL	FINAL
G.E.	12	110	0	0.5	1.0	15	115	1.55	3920	4337	419	5	5
		124	0	"	"	25	"	"	3886	4230	354	4	4
		82	25	"	"	25	125	1.49	4116	4535	419	5	5
		96	25	"	"	40	"	"	3964	4020	56	4	3
		85	40	"	"	15	160	1.45	3777	4298	522	5	5
		99	40	"	"	25	"	"	3590	3841	251	5	4
		111	0	"	2.5	15	115	1.55	1972	2215	243	5	5
		125	0	"	"	25	"	"	1980	2214	234	5	5
		83	25	"	"	25	125	1.49	2013	2256	243	5	5
		97	25	"	"	40	"	"	2002	2246	243	5	5
		86	40	"	"	15	160	1.45	1904	2172	268	5	5
		100	40	"	"	25	"	"	1771	2022	251	5	5
Gould	20	84	0	"	1.0	15	115	1.55	3858	4377	519	5	5
		98	0	"	"	25	"	"	3665	4184	519	4	4
		104	25	"	"	25	125	1.49	—	—	—	—	—
		118	25	"	"	40	"	"	—	—	—	—	—
		112	40	"	"	15	120	1.45	3628	4147	519	5	5
		126	50	"	"	25	"	1.41	—	—	—	—	—
		80	0	"	2.5	15	115	1.55	1919	2186	262	5	5
		94	0	"	"	25	"	"	1790	2057	267	5	5
		105	25	"	"	25	125	1.49	1864	2132	268	5	5
		119	25	"	"	40	"	"	1780	1793	13	4	0
		708	40	"	"	15	160	1.45	1749	2016	267	5	5
		122	50	"	"	25	"	1.41	—	—	—	—	—

MFR.	CAPACITY A. H.	PACK NO.	TEMP °C.	ORBIT PERIOD (HRS)		PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED			CELLS REMAIN- ING IN PACK INITIAL	FINAL	DIFFERENCE	
				DISC.	CHARGE				INITIAL	FINAL	DIFFERENCE				
GULTON	20	101	0	0.5	1.0	15	115	1.55							
		115	0	"	"	25	"	"							
		73	25	"	"	25	125	1.49	3754	4173	419	4	4		
		87	25	"	"	40	"	"							
		76	40	"	"	15	160	1.45	3618	4137	519	5	5		
		90	40	"	"	25	"	"	2315	3752	437	3	3		
		107	0	"	2.5	15	115	1.55	1721	1988	267	4	4		
		116	0	"	"	25	"	"	1598	1845	267	5	5		
		74	25	"	"	25	125	1.49	1735	1754	19	3	0		
		88	25	"	"	40	"	"							
		79	40	"	"	15	160	1.45				5	5		
		91	40	"	"	25	"					5	5		

[illegible]

PACK NO. MFR. G-E	63	CAPACITY 3 A.H.	DEPTH OF DISCHARGE: 15 %		TEST TEMPERATURE: 0°C	
			PERCENT OF RECHARGE: 115 %		ORBIT PERIOD: 90 MINUTES	

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4540	12.36	.91	1.23	1.23	1.23	1.22	1.23	1.23	1.22	1.24	1.22	1.22
4557	12.30	.91	1.23	1.23	1.23	1.21	1.22	1.21	1.21	1.23	1.21	1.21
4592	12.32	.91	1.23	1.23	1.23	1.21	1.22	1.21	1.21	1.23	1.21	1.21
4619	12.33	.91	1.23	1.23	1.23	1.22	1.23	1.22	1.22	1.24	1.22	1.22
4651	12.39	.91	1.23	1.24	1.23	1.22	1.23	1.22	1.22	1.24	1.22	1.22
4685	12.46	.91	1.24	1.24	1.24	1.22	1.23	1.22	1.23	1.25	1.23	1.23
4749	12.35	.91	1.24	1.23	1.24	1.22	1.23	1.23	1.23	1.24	1.22	1.22
4783	12.31	.91	1.23	1.23	1.23	1.21	1.23	1.22	1.22	1.24	1.22	1.21
4817	12.21	.91	1.21	1.20	1.20	1.18	1.19	1.19	1.19	1.20	1.18	1.17
4901	12.29	.91	1.23	1.23	1.23	1.21	1.22	1.22	1.22	1.24	1.22	1.21
4980	12.41	.90	1.21	1.21	1.22	1.21	1.23	1.23	1.24	1.26	1.24	1.24

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	PACK CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4520	15.75	.29	1.61	1.47	1.60	1.56	1.63	1.62	1.53	1.62	1.43	1.53
4559	15.74	.27	1.61	1.48	1.60	1.55	1.63	1.61	1.52	1.62	1.47	1.52
4592	15.77	.29	1.62	1.48	1.61	1.55	1.63	1.62	1.52	1.63	1.48	1.53
4619	15.77	.28	1.62	1.48	1.60	1.56	1.63	1.61	1.52	1.62	1.48	1.53
4651	15.76	.29	1.61	1.48	1.61	1.55	1.63	1.61	1.53	1.62	1.48	1.53
4685	15.70	.31	1.60	1.47	1.59	1.54	1.62	1.60	1.52	1.61	1.47	1.53
4749	15.76	.31	1.62	1.47	1.60	1.56	1.64	1.62	1.52	1.62	1.48	1.53
4783	15.76	.29	1.62	1.48	1.60	1.56	1.64	1.62	1.53	1.62	1.48	1.53
4817	15.61	.29	1.57	1.44	1.56	1.51	1.60	1.58	1.48	1.58	1.43	1.48
4901	15.41	.29	1.53	1.46	1.56	1.53	1.59	1.58	1.50	1.59	1.46	1.50
4980	15.70	.28	1.61	1.48	1.60	1.55	1.63	1.61	1.52	1.61	1.47	1.52

END OF CHARGE

PACK NO. 64
MFR. G.E. CAPACITY 3 A.H. DEPTH OF DISCHARGE: 25% TEST TEMPERATURE: 0°C
PERCENT OF RECHARGE: 115% ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	1.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4471	12.97	1.52	1.21	1.16	1.20	1.21	1.21	1.20	1.20	1.19	1.20	1.19
4495	12.12	1.53	1.21	1.21	1.20	1.21	1.21	1.20	1.20	1.21	1.20	1.19
4532	12.00	1.51	1.20	1.20	1.19	1.19	1.20	1.19	1.19	1.20	1.19	1.17
4594	12.03	1.51	1.20	1.20	1.19	1.20	1.20	1.19	1.19	1.20	1.19	1.18
4626	12.08	1.51	1.20	1.21	1.20	1.20	1.20	1.19	1.20	1.20	1.20	1.18
4662	12.01	1.51	1.20	1.20	1.19	1.19	1.19	1.18	1.19	1.20	1.19	1.18
4695	12.00	1.51	1.20	1.20	1.19	1.19	1.19	1.19	1.19	1.20	1.19	1.18
4729	12.01	1.51	1.20	1.20	1.19	1.20	1.20	1.19	1.19	1.20	1.19	1.18
4760	12.01	1.51	1.20	1.20	1.20	1.20	1.20	1.19	1.20	1.20	1.19	1.18
4961	12.02	1.50	1.20	1.20	1.20	1.20	1.20	1.19	1.19	1.20	1.19	1.18

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	1.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4471	15.82	1.39	1.58	1.54	1.56	1.61	1.64	1.50	1.49	1.63	1.56	1.59
4495	15.66	1.39	1.56	1.56	1.53	1.58	1.62	1.49	1.49	1.63	1.53	1.57
4532	15.71	1.40	1.56	1.58	1.54	1.59	1.61	1.48	1.47	1.63	1.54	1.58
4594	15.64	1.40	1.55	1.57	1.53	1.58	1.61	1.47	1.47	1.63	1.52	1.57
4626	15.72	1.38	1.56	1.56	1.54	1.57	1.63	1.49	1.47	1.64	1.53	1.58
4662	15.71	1.42	1.56	1.56	1.54	1.58	1.62	1.48	1.48	1.64	1.53	1.59
4695	15.71	1.41	1.56	1.56	1.54	1.59	1.62	1.48	1.48	1.64	1.53	1.59
4729	15.70	1.42	1.56	1.57	1.53	1.59	1.62	1.48	1.48	1.63	1.53	1.59
4760	15.78	1.42	1.57	1.58	1.55	1.61	1.64	1.49	1.48	1.66	1.54	1.60
4961	15.65	1.36	1.55	1.57	1.54	1.59	1.62	1.47	1.48	1.63	1.52	1.57

END OF CHARGE

PACK NO. MTR.	CAPACITY G.F.	3 A.H.	DEPTH OF DISCHARGE: 2.5 %		TEST TEMPERATURE: 25 °C	
			PERCENT OF RECHARGE: 2.5 %		ORBIT PERIOD: 90 MINUTES	

CYCLE NO.	PACK VOLTAGE	1.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4571	11.96	1.54	1.20	1.20	1.18	1.19	1.19	1.20	1.18	1.19	1.18	1.18
4608	11.87	1.55	1.19	1.19	1.18	1.17	1.17	1.18	1.16	1.18	1.17	1.17
4643	11.87	1.50	1.19	1.19	1.17	1.17	1.17	1.18	1.16	1.18	1.17	1.17
4670	11.88	1.51	1.20	1.19	1.17	1.18	1.17	1.18	1.16	1.18	1.18	1.18
4702	12.03	1.51	1.21	1.20	1.19	1.19	1.19	1.20	1.18	1.19	1.19	1.19
4735	11.93	1.51	1.20	1.19	1.18	1.17	1.17	1.19	1.17	1.18	1.18	1.18
4800	11.94	1.50	1.21	1.20	1.19	1.17	1.17	1.19	1.16	1.18	1.17	1.18
4834	11.85	1.50	1.20	1.19	1.18	1.17	1.17	1.19	1.16	1.18	1.17	1.18
4868	11.77	1.51	1.17	1.17	1.15	1.14	1.14	1.16	1.13	1.14	1.13	1.13
4952	11.83	1.50	1.20	1.19	1.17	1.17	1.17	1.19	1.16	1.17	1.17	1.17
5023	11.87	1.51	1.17	1.17	1.16	1.16	1.16	1.18	1.17	1.18	1.18	1.18

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	1.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4571	14.75	.93	1.49	1.50	1.44	1.45	1.45	1.49	1.43	1.46	1.45	1.48
4608	14.71	.92	1.48	1.50	1.44	1.45	1.44	1.48	1.42	1.46	1.44	1.48
4643	14.75	.92	1.49	1.50	1.44	1.45	1.44	1.48	1.42	1.46	1.44	1.48
4670	14.82	.90	1.50	1.52	1.45	1.46	1.45	1.49	1.43	1.46	1.45	1.49
4702	14.79	.91	1.49	1.51	1.45	1.45	1.44	1.49	1.43	1.46	1.45	1.49
4736	14.78	.91	1.49	1.50	1.44	1.45	1.44	1.49	1.42	1.46	1.45	1.49
4800	14.80	.91	1.50	1.51	1.45	1.46	1.45	1.50	1.43	1.46	1.45	1.49
4834	14.80	.92	1.50	1.51	1.45	1.46	1.45	1.50	1.41	1.47	1.46	1.50
4868	14.76	.90	1.47	1.48	1.42	1.42	1.42	1.46	1.40	1.42	1.41	1.46
4952	14.77	.84	1.50	1.51	1.44	1.45	1.45	1.50	1.43	1.46	1.45	1.50
5023	14.76	.81	1.49	1.51	1.44	1.45	1.44	1.49	1.43	1.46	1.45	1.49

END OF CHARGE

PACK NO. 16
MFR. G.E. CAPACITY 3 A.H. DEPTH OF DISCHARGE: 40 % TEST TEMPERATURE: 25°C
PERCENT OF RECHARGE: 12.5 % ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	2.40 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4473	8.22	2.16	.95	1.06	1.11	1.04	1.05	1.12	—	1.01	1.05	1.01
4483	8.95	2.34	1.10	1.11	1.13	1.13	1.13	—	—	1.06	1.10	1.15
4501	7.02	2.36	1.12	1.13	1.14	1.13	1.13	—	—	1.09	1.12	1.13
4544	8.61	2.26	1.03	1.10	1.12	1.06	1.06	—	—	1.04	1.08	1.06
4606	8.48	2.23	.98	1.10	1.12	1.06	1.02	—	—	1.04	1.08	1.04
4639	8.85	2.33	1.06	1.13	1.14	1.10	1.08	—	—	1.08	1.12	1.08
4674	8.14	2.14	.78	1.07	1.11	1.02	.97	—	—	1.02	1.06	1.04
4707	7.93	2.08	.72	1.07	1.11	.99	.91	—	—	1.02	1.07	1.00
4741	7.21	1.89	.19	1.08	1.12	1.04	.94	—	—	1.04	1.07	1.07
4917	4.55	1.94	—	.96	1.09	.73	.06	—	—	.93	.95	1.08

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	2.40 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4473	13.55	1.30	1.47	1.52	1.51	1.48	1.50	1.46	—	1.55	1.52	1.44
4483	12.19	1.51	1.47	1.52	1.51	1.51	1.50	—	—	1.55	1.53	1.47
4507	12.12	1.52	1.47	1.53	1.51	1.49	1.49	—	—	1.56	1.53	1.45
4544	12.08	1.50	1.46	1.52	1.51	1.48	1.47	—	—	1.56	1.52	1.44
4606	12.19	1.50	1.47	1.55	1.53	1.50	1.48	—	—	1.58	1.55	1.45
4639	12.15	1.50	1.47	1.54	1.52	1.49	1.48	—	—	1.57	1.54	1.44
4674	12.13	1.50	1.46	1.53	1.51	1.49	1.48	—	—	1.56	1.54	1.45
4707	12.13	1.50	1.46	1.53	1.52	1.49	1.48	—	—	1.57	1.54	1.45
4741	11.95	1.25	1.44	1.51	1.50	1.46	1.45	—	—	1.55	1.52	1.44
4917	10.53	1.37	—	1.51	1.54	1.46	1.45	—	—	1.55	1.52	1.44

END OF CHARGE

PACK NO. 39
MFR. G. E. CAPACITY 3 A.H. DEPTH OF DISCHARGE: 15 % TEST TEMPERATURE: 40°C
PERCENT OF RECHARGE: 160 % ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	900 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4228	8.36	.90	1.17	—	1.19	1.20	1.19	—	—	1.19	1.18	1.19
4265	8.30	.90	1.17	—	1.19	1.19	1.18	—	—	1.16	1.17	1.18
4300	8.31	.90	1.17	—	1.18	1.19	1.19	—	—	1.17	1.18	1.19
4327	8.32	.90	1.17	—	1.19	1.20	1.19	—	—	1.16	1.17	1.19
4359	8.45	.90	1.19	—	1.20	1.20	1.20	—	—	1.19	1.20	1.20
4393	8.31	.90	1.17	—	1.18	1.19	1.18	—	—	1.16	1.16	1.19
4457	8.39	.90	1.19	—	1.22	1.20	1.20	—	—	1.19	1.19	1.20
4491	8.32	.90	1.17	—	1.20	1.19	1.19	—	—	1.19	1.17	1.19
4525	8.35	.90	1.16	—	1.17	1.17	1.17	—	—	1.14	1.15	1.16
4609	8.31	.90	1.17	—	1.19	1.20	1.19	—	—	1.18	1.18	1.19
4690	8.29	.90	1.13	—	1.16	1.16	1.16	—	—	1.14	1.15	1.17

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	900 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4228	9.89	.72	1.40	—	1.40	1.41	1.41	—	—	1.40	1.39	1.41
4265	9.91	.72	1.41	—	1.40	1.41	1.41	—	—	1.40	1.40	1.41
4300	9.93	.73	1.41	—	1.40	1.41	1.41	—	—	1.40	1.40	1.42
4327	9.92	.73	1.41	—	1.41	1.41	1.41	—	—	1.40	1.40	1.42
4359	9.94	.73	1.42	—	1.41	1.41	1.41	—	—	1.40	1.40	1.42
4393	9.91	.72	1.40	—	1.40	1.40	1.40	—	—	1.39	1.39	1.42
4457	9.96	.72	1.42	—	1.42	1.41	1.41	—	—	1.41	1.41	1.42
4491	9.95	.72	1.42	—	1.42	1.41	1.41	—	—	1.41	1.40	1.42
4525	9.90	.72	1.41	—	1.40	1.40	1.40	—	—	1.38	1.37	1.39
4609	9.96	.72	1.42	—	1.42	1.42	1.42	—	—	1.41	1.40	1.42
4690	9.93	.72	1.41	—	1.42	1.41	1.41	—	—	1.40	1.40	1.41

END OF CHARGE

PACK NO. 67		CAPACITY 3		A.H.		DEPTH OF DISCHARGE: 15 %		PERCENT OF RECHARGE: 115 %		TEST TEMPERATURE: 0°C		
MFR. C.E.										ORBIT PERIOD: 3 HOURS		
CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2141	12.35	.90	1.23	1.23	1.23	1.24	1.24	1.24	1.24	1.23	1.22	
2203	12.44	.90	1.24	1.24	1.23	1.24	1.24	1.23	1.24	1.23	1.23	
2239	12.43	.90	1.24	1.24	1.23	1.23	1.23	1.23	1.24	1.23	1.22	
2267	12.37	.90	1.23	1.23	1.23	1.23	1.23	1.23	1.24	1.23	1.22	
2295	12.35	.90	1.23	1.23	1.23	1.23	1.23	1.23	1.24	1.23	1.23	
2354	12.21	.90	1.22	1.23	1.22	1.23	1.23	1.23	1.23	1.22	1.22	
2378	12.26	.90	1.22	1.22	1.22	1.23	1.23	1.22	1.23	1.21	1.21	

END OF DISCHARGE

2141	15.43	15.43	.12	1.56	1.44	1.51	1.56	1.57	1.57	1.57	1.51	1.57	1.52
2203	15.77	15.77	.09	1.61	1.46	1.53	1.61	1.61	1.57	1.57	1.53	1.61	1.55
2239	15.76	15.76	.11	1.61	1.45	1.52	1.61	1.61	1.56	1.56	1.51	1.61	1.54
2267	15.47	15.47	.09	1.59	1.44	1.47	1.60	1.60	1.53	1.53	1.49	1.60	1.51
2295	15.42	15.42	.10	1.58	1.44	1.49	1.58	1.57	1.53	1.53	1.50	1.57	1.52
2354	15.28	15.28	.09	1.54	1.43	1.47	1.57	1.57	1.53	1.51	1.49	1.57	1.51
2378	15.40	15.40	.11	1.57	1.42	1.49	1.57	1.57	1.54	1.54	1.49	1.57	1.52

END OF CHARGE

PACK NO. 68		1.50 CAPACITY		A.H.		DEPTH OF DISCHARGE: 25 %		PERCENT OF RECHARGE: 115 %		TEST TEMPERATURE: ORBIT PERIOD: 3 HOURS		O °C	
MFR. C.E.													
2143	12.16	1.52	1.20	1.20	1.21	1.21	1.21	1.21	1.20	1.21	1.21	1.20	1.20
2176	12.12	1.52	1.20	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20
2204	12.13	1.48	1.19	1.19	1.20	1.20	1.20	1.19	1.19	1.19	1.20	1.19	1.19
2238	12.16	1.49	1.19	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20
2266	12.15	1.48	1.20	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.22	1.21	1.21
2294	12.10	1.48	1.20	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.22	1.20	1.20
2353	12.24	1.48	1.21	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.23	1.21	1.21
2377	12.07	1.48	1.19	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.19	1.19

END OF DISCHARGE

2143	15.96	.20	1.62	1.62	1.63	1.59	1.62	1.64	1.60	1.50	1.67	1.49	1.47
2176	15.99	.20	1.63	1.63	1.64	1.60	1.64	1.64	1.61	1.50	1.64	1.50	1.49
2204	16.10	.21	1.64	1.64	1.65	1.60	1.63	1.64	1.62	1.51	1.66	1.50	1.49
2238	16.03	.20	1.63	1.63	1.64	1.60	1.63	1.62	1.61	1.51	1.62	1.51	1.50
2266	16.02	.20	1.63	1.63	1.64	1.60	1.63	1.63	1.61	1.52	1.65	1.51	1.50
2294	15.84	.20	1.62	1.62	1.63	1.59	1.61	1.61	1.60	1.50	1.64	1.49	1.48
2353	15.52	.16	1.58	1.58	1.59	1.55	1.58	1.58	1.57	1.47	1.61	1.46	1.46
2377	15.64	.13	1.61	1.61	1.61	1.55	1.59	1.59	1.57	1.47	1.62	1.45	1.46

END OF CHARGE

PACK NO. 19		CAPACITY 3 A.H.		DEPTH OF DISCHARGE: 1.35 %		TEST TEMPERATURE: 25°C						
MFR. C.E.				PERCENT OF RECHARGE: 1.35 %		ORBIT PERIOD: 3 HOURS						
CYCLE NO.	PACK VOLTAGE	1.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2149	12.15	1.53	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20
2211	12.16	1.51	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20
2247	12.16	1.52	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.19	1.20
2275	12.12	1.51	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.19	1.20
2303	12.13	1.51	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20
2362	12.10	1.51	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.19	1.20
2386	12.09	1.51	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.19	1.19

END OF DISCHARGE

2149	14.68	1.37	1.45	1.44	1.44	1.45	1.44	1.44	1.44	1.44	1.44	1.51
2211	14.81	1.37	1.47	1.46	1.46	1.46	1.46	1.46	1.46	1.47	1.47	1.52
2247	14.65	1.37	1.45	1.44	1.44	1.44	1.44	1.44	1.44	1.47	1.47	1.49
2275	14.71	1.37	1.46	1.45	1.45	1.45	1.45	1.45	1.45	1.48	1.48	1.51
2303	14.72	1.37	1.47	1.46	1.46	1.46	1.46	1.46	1.46	1.49	1.49	1.51
2362	14.94	1.37	1.49	1.48	1.48	1.48	1.48	1.48	1.48	1.49	1.49	1.51
2386	14.72	1.37	1.47	1.46	1.46	1.46	1.46	1.46	1.46	1.48	1.48	1.50

END OF CHARGE

PACK NO. 20		2.40		DEPTH OF DISCHARGE: 4.0 %		TEST TEMPERATURE: 35 °C	
MFR. C.E.		CAPACITY 3 A.H.		PERCENT OF RECHARGE: 1.35 %		ORBIT PERIOD: 3 HOURS	
2109	11.23	2.41	1.13	1.10	1.12	1.10	1.11
2140	11.30	2.40	1.14	1.12	1.13	1.10	1.11
2168	11.41	2.41	1.13	1.12	1.13	1.11	1.12
2202	11.29	2.41	1.14	1.12	1.13	1.10	1.10
2230	11.36	2.41	1.15	1.13	1.14	1.12	1.12
2259	11.15	2.41	1.14	1.11	1.12	1.10	1.11
2317	11.09	2.39	1.13	1.10	1.12	1.10	1.07
2341	11.38	2.41	1.15	1.13	1.14	1.13	1.12

END OF DISCHARGE

2109	14.62	1.59	1.46	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.46	1.45
2140	14.60	1.59	1.46	1.45	1.44	1.44	1.44	1.44	1.45	1.44	1.46	1.45
2168	14.61	1.60	1.45	1.43	1.43	1.43	1.43	1.43	1.47	1.44	1.46	1.46
2202	14.70	1.60	1.47	1.45	1.45	1.45	1.45	1.45	1.47	1.45	1.47	1.46
2230	14.71	1.60	1.47	1.45	1.45	1.45	1.45	1.45	1.47	1.45	1.48	1.47
2258	14.70	1.59	1.48	1.46	1.45	1.45	1.45	1.45	1.47	1.46	1.48	1.47
2317	14.88	1.60	1.50	1.47	1.47	1.46	1.46	1.47	1.48	1.47	1.52	1.49
2341	14.77	1.60	1.47	1.44	1.45	1.44	1.44	1.44	1.47	1.46	1.49	1.48

END OF CHARGE

PACK NO. 413			CAPACITY 3 A.H.			DEPTH OF DISCHARGE: 15 %			TEST TEMPERATURE: 40°C				
MFR. G.E.						PERCENT OF RECHARGE: 160 %			ORBIT PERIOD: 3 HOURS				
CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES										
			1	2	3	4	5	6	7	8	9	10	
1997	8.34	.90	1.22	1.21				1.19		1.19	1.20	1.07	1.20
2059	8.31	.90	1.21	1.21				1.19		1.19	1.20	1.23	1.19
2095	8.30	.90	1.21	1.21				1.17		1.19	1.20	1.06	1.18
2123	8.28	.90	1.21	1.21				1.16		1.19	1.21	1.06	1.18
2151	8.28	.90	1.22	1.22				1.17		1.19	1.21	1.06	1.19
2185	8.25	.90	1.22	1.22				1.17		1.20	1.22	.99	1.19
2209	8.20	.90	1.21	1.21				1.16		1.19	1.21	.98	1.19

END OF DISCHARGE

PACK NO. 414			CAPACITY 3 A.H.			DEPTH OF DISCHARGE: 25 %		PERCENT OF RECHARGE: 160 %		TEST TEMPERATURE: 40°C		
MFR. G.E.										ORBIT PERIOD: 3 HOURS		
CYCLE NO.	PACK VOLTAGE	CURRENT	1	2	3	4	5	6	7	8	9	10
1997	9.91	.29	1.39	1.39			1.59		1.29	1.40	1.42	1.42
2059	9.96	.29	1.40	1.40			1.40		1.29	1.41	1.41	1.41
2095	9.93	.29	1.40	1.40			1.40		1.29	1.41	1.41	1.41
2123	9.94	.29	1.40	1.40			1.41		1.40	1.41	1.41	1.41
2151	9.96	.28	1.40	1.41			1.42		1.40	1.41	1.41	1.41
2185	9.95	.28	1.40	1.40			1.42		1.40	1.41	1.45	1.42
2209	9.95	.29	1.40	1.40			1.40		1.40	1.41	1.45	1.42

END OF CHARGE

PACK NO. 415			CAPACITY 3 A.H.			DEPTH OF DISCHARGE: 25 %		PERCENT OF RECHARGE: 160 %		TEST TEMPERATURE: 40°C	
MFR. G.E.										ORBIT PERIOD: 3 HOURS	
CYCLE NO.	PACK VOLTAGE	CURRENT	1	2	3	4	5	6	7	8	9
1948	10.17	1.50	1.11	1.14	1.12	1.12	1.14	1.12	1.13	1.14	1.13
1981	10.22	1.51	1.12	1.15	1.13	1.13	1.14	1.13	1.13	1.12	1.13
2009	10.23	1.51	1.12	1.14	1.13	1.13	1.14	1.12	1.13	1.12	1.13
2043	10.23	1.51	1.12	1.14	1.13	1.13	1.14	1.12	1.13	1.12	1.13
2116	10.19	1.51	1.12	1.15	1.14	1.14	1.14	1.13	1.13	1.12	1.11
2140	10.32	1.50	1.14	1.16	1.15	1.15	1.15	1.14	1.15	1.14	1.12

END OF DISCHARGE

1948	12.91	.47	1.41	1.44	1.42	1.41	1.42	—	1.41	1.44	1.39	1.40
1981	12.88	.47	1.42	1.44	1.43	1.41	1.42	—	1.42	1.44	1.40	1.41
2009	12.87	.47	1.42	1.44	1.42	1.40	1.41	—	1.41	1.43	1.39	1.41
2043	12.90	.46	1.42	1.45	1.42	1.41	1.41	—	1.42	1.45	1.40	1.42
2116	12.87	.47	1.42	1.44	1.42	1.41	1.42	—	1.42	1.44	1.41	1.42
2140	12.85	.46	1.40	1.42	1.41	1.39	1.40	—	1.41	1.43	1.40	1.41

END OF CHARGE

PACK NO. 51
 MFR. G-00110 CAPACITY 3.5 A.H. DEPTH OF DISCHARGE: 15% TEST TEMPERATURE: 0°C
 PERCENT OF RECHARGE: 115% ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	1.05 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4585	12.51	1.06	1.24	1.23	1.22	1.27	1.24	1.23	1.25	1.25	1.23	1.23
4622	12.43	1.06	1.23	1.23	1.22	1.26	1.23	1.23	1.23	1.23	1.22	1.22
4654	12.44	1.06	1.24	1.22	1.21	1.27	1.23	1.23	1.23	1.23	1.22	1.23
4684	12.45	1.06	1.24	1.23	1.22	1.27	1.23	1.24	1.23	1.24	1.22	1.23
4716	12.46	1.06	1.24	1.23	1.23	1.24	1.23	1.24	1.23	1.25	1.21	1.23
4750	12.46	1.06	1.24	1.23	1.23	1.25	1.24	1.24	1.24	1.24	1.21	1.23
4814	12.49	1.06	1.25	1.23	1.23	1.24	1.24	1.23	1.23	1.25	1.23	1.24
4848	12.46	1.06	1.23	1.23	1.22	1.24	1.24	1.24	1.24	1.24	1.26	1.23
4882	12.39	1.06	1.22	1.21	1.20	1.21	1.21	1.22	1.22	1.21	1.22	1.20
4966	12.42	1.06	1.24	1.23	1.22	1.23	1.24	1.24	1.24	1.24	1.24	1.23
5045	12.35	1.06	1.21	1.19	1.19	1.18	1.20	1.20	1.20	1.21	1.19	1.20

END OF DISCHARGE

4585	15.53	.52	1.55	1.55	1.57	1.48	1.63	1.54	1.54	1.56	1.49	1.50
4622	15.34	.49	1.55	1.56	1.57	1.47	1.63	1.54	1.53	1.56	1.49	1.53
4654	15.58	.51	1.55	1.57	1.58	1.48	1.63	1.53	1.53	1.56	1.49	1.54
4684	15.52	.51	1.55	1.56	1.57	1.48	1.61	1.54	1.53	1.56	1.47	1.54
4716	15.54	.51	1.55	1.55	1.56	1.48	1.61	1.54	1.54	1.58	1.43	1.58
4750	15.42	.54	1.54	1.55	1.56	1.45	1.60	1.53	1.53	1.56	1.43	1.56
4814	15.46	.54	1.55	1.56	1.57	1.45	1.62	1.54	1.54	1.56	1.45	1.54
4848	15.53	.53	1.55	1.56	1.57	1.45	1.61	1.54	1.54	1.56	1.53	1.54
4882	15.48	.54	1.52	1.53	1.54	1.42	1.59	1.51	1.51	1.53	1.49	1.51
4966	15.40	.50	1.54	1.55	1.56	1.43	1.62	1.53	1.53	1.55	1.49	1.52
5045	15.41	.51	1.55	1.55	1.57	1.42	1.62	1.53	1.54	1.56	1.45	1.53

END OF CHARGE

PACK NO. 523
MFR. G-0111-D CAPACITY 2.5 A.H. DEPTH OF DISCHARGE: 25% TEST TEMPERATURE: 0°C
PERCENT OF RECHARGE: 115% CHARGE PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4551	12.94	1.77	1.21	1.21	1.21	1.21	1.22	1.21	1.18	1.18	1.22	1.22
4575	12.15	1.78	1.21	1.21	1.21	1.21	1.22	1.21	1.17	1.21	1.20	1.22
4612	12.04	1.78	1.20	1.20	1.17	1.20	1.20	1.20	1.17	1.20	1.19	1.21
4674	12.06	1.78	1.20	1.19	1.18	1.19	1.20	1.20	1.17	1.21	1.19	1.21
4706	12.09	1.79	1.21	1.20	1.17	1.20	1.20	1.20	1.17	1.21	1.20	1.21
4742	12.01	1.79	1.20	1.19	1.15	1.19	1.20	1.19	1.17	1.20	1.19	1.21
4775	12.00	1.79	1.20	1.19	1.16	1.19	1.20	1.19	1.18	1.20	1.19	1.20
4809	12.01	1.79	1.20	1.20	1.17	1.19	1.20	1.20	1.17	1.20	1.19	1.20
4840	11.91	1.78	1.20	1.20	1.15	1.19	1.20	1.20	1.18	1.19	1.19	1.21
5041	12.01	1.76	1.21	1.19	1.18	1.19	1.20	1.20	1.18	1.18	1.19	1.20

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4551	15.50	1.70	1.59	1.58	1.47	1.59	1.59	1.57	1.57	1.49	1.57	1.57
4575	15.55	1.74	1.59	1.59	1.48	1.59	1.56	1.56	1.56	1.50	1.57	1.51
4612	15.57	1.70	1.58	1.59	1.46	1.58	1.56	1.56	1.55	1.50	1.57	1.51
4674	15.58	1.73	1.59	1.59	1.46	1.58	1.56	1.56	1.57	1.53	1.57	1.52
4706	15.64	1.72	1.59	1.61	1.44	1.58	1.56	1.56	1.55	1.54	1.57	1.51
4742	15.60	1.77	1.58	1.59	1.44	1.58	1.55	1.56	1.55	1.51	1.57	1.53
4775	15.60	1.76	1.58	1.59	1.46	1.58	1.56	1.56	1.55	1.51	1.57	1.53
4809	15.58	1.78	1.59	1.59	1.46	1.58	1.56	1.57	1.54	1.50	1.57	1.53
4840	15.63	1.80	1.59	1.60	1.46	1.59	1.57	1.58	1.56	1.49	1.58	1.54
5041	15.54	1.73	1.58	1.59	1.47	1.59	1.56	1.56	1.54	1.49	1.57	1.53

END OF CHARGE

PACK NO. 3
 NFR. 500110 CAPACITY 3.5 A.H. DEPTH OF DISCHARGE: 2.5 % TEST TEMPERATURE: 25 °C
 PERCENT OF RECHARGE: 12.5 % ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	1.75 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4320	6.92	1.65	1.19	—	1.18	1.20	—	—	1.16	1.20	—	1.16
4357	6.55	1.61	1.18	—	1.16	1.18	—	—	1.17	1.17	—	1.14
4392	6.39	1.74	1.18	—	1.13	1.16	—	—	1.16	1.16	—	1.14
4401	5.86	1.62	1.18	—	1.10	1.15	—	—	1.14	1.13	—	1.13
4431	5.89	1.61	1.18	—	1.14	1.17	—	—	1.15	1.15	—	1.14
4435	5.72	1.54	1.19	—	1.11	1.14	—	—	1.13	1.13	—	1.14
4529	5.63	1.55	1.19	—	1.09	1.11	—	—	1.13	1.13	—	1.12
4563	5.38	1.75	1.14	—	1.02	1.03	—	—	1.05	1.05	—	1.03
4607	5.22	1.73	1.17	—	1.04	1.00	—	—	1.08	1.08	—	1.01
4718	4.95	1.76	1.14	—	1.05	1.09	—	—	1.02	1.02	—	1.00

END OF DISCHARGE

4320	9.13	1.10	1.50	—	1.49	1.53	—	—	1.47	1.51	—	1.51
4357	9.01	1.10	1.54	—	1.48	1.49	—	—	1.48	1.49	—	1.49
4392	8.94	.86	1.51	—	1.47	1.47	—	—	1.47	1.48	—	1.48
4401	9.02	.80	1.57	—	1.46	1.49	—	—	1.49	1.48	—	1.50
4431	7.57	1.10	1.52	—	1.48	1.48	—	—	1.53	1.50	—	1.50
4495	7.57	1.10	1.54	—	1.50	1.47	—	—	1.54	1.50	—	1.50
4529	7.54	1.10	1.54	—	1.50	1.45	—	—	1.54	1.49	—	1.49
4563	7.55	1.09	1.52	—	1.48	1.42	—	—	1.54	1.48	—	1.48
4607	7.64	1.09	1.56	—	1.53	1.46	—	—	1.59	1.59	—	1.47
4718	7.34	.67	1.51	—	1.46	1.44	—	—	1.47	1.47	—	1.44

END OF CHARGE

PACK NO. 55
NFR. G-01110 CAPACITY 3.5 A.H. DEPTH OF DISCHARGE: 15 % TEST TEMPERATURE: 0°C
PERCENT OF RECHARGE: 115 % ORBIT PERIOD: 3 HOURS

CYCLE NO.	PACK VOLTAGE	1.05" CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2141	12.46	1.06	1.24	1.24	1.24	1.23	1.24	1.23	1.23	1.24	1.23	1.23
2203	12.46	1.06	1.24	1.24	1.24	1.23	1.23	1.23	1.23	1.24	1.23	1.23
2237	12.46	1.07	1.24	1.24	1.24	1.23	1.23	1.23	1.23	1.25	1.23	1.23
2267	12.42	1.06	1.23	1.24	1.24	1.23	1.23	1.22	1.23	1.24	1.23	1.23
2295	12.39	1.06	1.24	1.24	1.24	1.23	1.23	1.23	1.23	1.24	1.23	1.23
2354	12.40	1.06	1.24	1.24	1.24	1.23	1.23	1.23	1.23	1.24	1.23	1.23
2378	12.41	1.07	1.25	1.25	1.26	1.25	1.25	1.24	1.25	1.25	1.23	1.23

END OF DISCHARGE

2141	15.35	1.23	1.52	1.52	1.52	1.52	1.52	1.51	1.51	1.53	1.50	1.50
2203	15.34	1.23	1.54	1.54	1.54	1.54	1.54	1.53	1.53	1.55	1.52	1.52
2237	15.33	1.24	1.53	1.52	1.52	1.52	1.52	1.51	1.51	1.54	1.50	1.50
2267	15.34	1.24	1.53	1.53	1.53	1.53	1.53	1.52	1.51	1.54	1.51	1.50
2295	15.33	1.23	1.53	1.53	1.53	1.53	1.53	1.52	1.52	1.54	1.51	1.51
2354	15.38	1.24	1.54	1.53	1.53	1.54	1.54	1.53	1.53	1.55	1.52	1.51
2378	15.33	1.24	1.53	1.53	1.53	1.53	1.53	1.52	1.52	1.54	1.51	1.51

END OF CHARGE

2127	12.17	1.76	1.20	1.20	1.21	1.21	1.21	1.21	1.20	1.23	1.19	1.20
2160	12.17	1.76	1.21	1.21	1.21	1.21	1.21	1.20	1.21	1.22	1.20	1.20
2183	12.12	1.77	1.19	1.20	1.20	1.19	1.19	1.18	1.19	1.20	1.18	1.19
2222	12.13	1.77	1.20	1.20	1.21	1.20	1.20	1.19	1.20	1.21	1.19	1.20
2250	12.15	1.77	1.20	1.21	1.21	1.21	1.21	1.20	1.21	1.22	1.20	1.20
2278	12.08	1.77	1.20	1.20	1.21	1.20	1.20	1.19	1.20	1.21	1.19	1.20
2337	12.04	1.76	1.20	1.20	1.20	1.20	1.20	1.19	1.20	1.21	1.19	1.20
2361	12.10	1.77	1.21	1.21	1.21	1.21	1.20	1.19	1.20	1.21	1.19	1.19

END OF DISCHARGE

2127	15.49	1.38	1.53	1.54	1.54	1.54	1.54	1.52	1.53	1.57	1.51	1.51
2160	15.47	1.38	1.54	1.54	1.54	1.54	1.54	1.53	1.54	1.58	1.52	1.52
2183	15.40	1.38	1.53	1.53	1.54	1.54	1.52	1.52	1.53	1.54	1.52	1.52
2223	15.44	1.36	1.53	1.53	1.54	1.55	1.53	1.52	1.54	1.54	1.52	1.52
2250	15.44	1.36	1.54	1.53	1.54	1.55	1.53	1.53	1.54	1.55	1.52	1.52
2278	15.47	1.36	1.54	1.54	1.55	1.55	1.54	1.54	1.54	1.55	1.53	1.53
2337	15.40	1.34	1.54	1.54	1.55	1.54	1.53	1.53	1.53	1.55	1.52	1.52
2361	15.42	1.32	1.52	1.52	1.53	1.53	1.52	1.52	1.53	1.54	1.52	1.52

END OF CHARGE

PACK NO. 7	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 25 °C
MFR. G-001.D	CAPACITY 3.5 A.H.	ORBIT PERIOD: 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2147	12.06	1.78	1.19	1.18	1.22	1.22	1.21	1.21	1.21	1.21	1.20	1.20
2209	12.08	1.76	1.19	1.17	1.21	1.21	1.20	1.19	1.20	1.21	1.20	1.20
2245	12.04	1.76	1.18	1.16	1.20	1.20	1.18	1.19	1.19	1.21	1.19	1.20
2273	12.01	1.76	1.19	1.16	1.21	1.20	1.19	1.19	1.18	1.21	1.20	1.20
2301	12.02	1.77	1.19	1.16	1.21	1.21	1.20	1.19	1.20	1.22	1.20	1.20
2360	11.95	1.77	1.18	1.14	1.20	1.20	1.19	1.19	1.19	1.21	1.19	1.19
2384	11.91	1.78	1.18	1.13	1.20	1.19	1.19	1.19	1.18	1.21	1.19	1.19

END OF DISCHARGE

2147	14.62	.43	1.44	1.45	1.45	1.44	1.46	1.44	1.52	1.47	1.44	1.44
2209	14.62	.43	1.45	1.45	1.45	1.44	1.45	1.47	1.52	1.46	1.44	1.44
2245	14.58	.43	1.44	1.45	1.44	1.43	1.44	1.45	1.48	1.46	1.43	1.43
2273	14.61	.43	1.45	1.45	1.44	1.44	1.45	1.46	1.50	1.46	1.44	1.44
2301	14.64	.43	1.45	1.46	1.45	1.44	1.45	1.46	1.50	1.47	1.44	1.44
2360	14.63	.41	1.45	1.46	1.45	1.45	1.46	1.46	1.49	1.47	1.44	1.44
2384	14.61	.39	1.45	1.46	1.45	1.44	1.45	1.46	1.49	1.46	1.43	1.43

END OF CHARGE

PACK NO. 8	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 25 °C
MFR. G-001.D	CAPACITY 3.5 A.H.	ORBIT PERIOD: 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2052	6.90	2.52	—	1.14	1.16	1.16	1.17	1.17	1.98	—	1.15	—
2085	6.72	2.49	—	1.15	1.16	1.16	1.16	1.16	1.91	—	1.16	—
2112	6.36	2.85	—	1.11	1.13	1.13	1.13	1.13	1.66	—	1.12	—
2123	6.20	2.82	—	1.11	1.14	1.14	1.13	1.13	1.50	—	1.13	—
2138	6.00	2.82	—	1.11	1.14	1.14	1.14	1.14	1.30	—	1.14	—
2156	5.75	2.81	—	1.12	1.15	1.15	1.16	1.16	—	—	1.15	—
2184	5.66	2.71	—	1.10	1.14	1.14	1.14	1.14	—	—	1.14	—
2243	5.60	2.79	—	1.07	1.14	1.14	1.13	1.13	—	—	1.13	—

END OF DISCHARGE

2052	7.79	.73	—	1.46	1.46	1.46	1.48	1.47	1.42	—	1.46	—
2085	8.42	.73	—	1.45	1.46	1.46	1.46	1.45	1.42	—	1.46	—
2112	8.76	.75	—	1.44	1.45	1.45	1.46	1.46	1.42	—	1.46	—
2123	8.81	.73	—	1.46	1.47	1.47	1.47	1.45	1.43	—	1.47	—
2138	8.81	.72	—	1.45	1.46	1.46	1.48	1.46	1.44	—	1.47	—
2156	9.38	.75	—	1.46	1.47	1.47	1.48	1.47	—	—	1.48	—
2184	9.36	.73	—	1.46	1.47	1.47	1.47	1.47	—	—	1.48	—
2243	9.38	.73	—	1.45	1.48	1.48	1.49	1.47	—	—	1.48	—

END OF CHARGE

PACK NO. 31
MFR. G-00100

CAPACITY 3.5 A.H.

DEPTH OF DISCHARGE: 15 %
PERCENT OF RECHARGE: 100 %

TEST TEMPERATURE: 40°C

ORBIT PERIOD: 3 HOURS

CYCLE NO.	PACK VOLTAGE	1.05 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
1967	8.05	1.06	1.16	—	1.08	1.21	1.21	1.12	1.21	1.08	—	—
2029	8.08	1.06	1.16	—	1.07	1.21	1.21	1.13	1.21	1.07	—	—
2065	8.03	1.07	1.15	—	1.03	1.20	1.20	1.19	1.15	1.07	—	—
2130	8.07	1.06	1.14	—	1.04	1.20	1.20	1.21	1.11	1.14	—	—

END OF DISCHARGE

1967	10.01	.26	1.45	—	1.43	1.42	1.42	1.40	1.41	1.43	—	—
2029	10.07	.24	1.47	—	1.45	1.44	1.44	1.39	1.41	1.44	—	—
2065	10.08	.27	1.47	—	1.45	1.43	1.42	1.40	1.42	1.45	—	—
2130	10.12	.33	1.45	—	1.50	1.43	1.43	1.39	1.44	1.54	—	—

END OF CHARGE

PACK NO. 32
MFR.

CAPACITY

A.H.

DEPTH OF DISCHARGE:
PERCENT OF RECHARGE:

TEST TEMPERATURE:
ORBIT PERIOD: 3 HOURS

END OF DISCHARGE

END OF CHARGE

PACK NO. 419			CAPACITY 5 A.H.			DEPTH OF DISCHARGE: 15 %		PERCENT OF RECHARGE: 115 %		TEST TEMPERATURE: 0°C		ORBIT PERIOD: 90 MINUTES	
MFR. SONY/TOSHIBA			CELL VOLTAGES										
CYCLE NO.	PACK VOLTAGE	1.50 CURRENT	1	2	3	4	5	6	7	8	9	10	
4272	10.98	1.51	1.20	1.20	1.20	1.19	1.21	1.22	1.22	1.23	1.21	1.21	
4299	10.98	1.52	1.20	1.21	1.21	1.20	1.21	1.22	1.23	1.24	1.21	1.21	
4333	10.97	1.53	1.21	1.21	1.21	1.20	1.21	1.22	1.22	1.24	1.21	1.21	
4370	10.99	1.50	1.21	1.17	1.21	1.21	1.21	1.22	1.22	1.22	1.22	1.22	
4398	10.98	1.52	1.21	1.21	1.21	1.20	1.21	1.22	1.23	1.24	1.22	1.22	
4430	10.98	1.52	1.20	1.20	1.20	1.20	1.21	1.22	1.23	1.24	1.22	1.22	
4454	11.03	1.51	1.21	1.21	1.21	1.21	1.21	1.22	1.23	1.24	1.22	1.22	
4494	10.99	1.52	1.21	1.21	1.21	1.20	1.21	1.22	1.23	1.24	1.22	1.22	
4528	11.01	1.52	1.21	1.21	1.21	1.20	1.21	1.22	1.23	1.24	1.22	1.22	
4556	10.98	1.52	1.21	1.21	1.21	1.20	1.21	1.22	1.23	1.24	1.22	1.22	
4590	11.11	1.51	1.22	1.21	1.21	1.20	1.21	1.22	1.23	1.24	1.22	1.22	
4630	10.98	1.51	1.21	1.21	1.21	1.20	1.21	1.22	1.23	1.24	1.22	1.21	
4759	10.91	1.53	1.20	1.20	1.20	1.19	1.20	1.21	1.22	1.23	1.21	1.21	
END OF DISCHARGE													
4272	14.07	1.60	1.54	1.53	1.65	1.55	1.52	1.65	1.53	1.55	1.50	1.50	
4299	14.07	1.58	1.53	1.53	1.65	1.55	1.52	1.65	1.53	1.55	1.50	1.50	
4326	14.07	1.59	1.53	1.54	1.65	1.55	1.52	1.66	1.54	1.54	1.52	1.52	
4370	14.12	1.59	1.55	1.50	1.65	1.56	1.53	1.66	1.54	1.56	1.52	1.52	
4398	14.19	1.60	1.55	1.54	1.66	1.56	1.53	1.66	1.54	1.57	1.52	1.52	
4430	14.24	1.57	1.55	1.56	1.66	1.56	1.53	1.66	1.54	1.57	1.52	1.52	
4464	14.20	1.63	1.55	1.55	1.64	1.56	1.53	1.66	1.55	1.57	1.52	1.52	
4494	14.17	1.64	1.55	1.55	1.64	1.56	1.53	1.66	1.54	1.56	1.52	1.52	
4528	14.10	1.64	1.55	1.54	1.63	1.55	1.52	1.65	1.54	1.56	1.51	1.51	
4556	14.12	1.61	1.55	1.54	1.64	1.55	1.52	1.65	1.54	1.56	1.52	1.52	
4590	14.15	1.65	1.55	1.54	1.63	1.55	1.52	1.65	1.54	1.56	1.52	1.52	
4630	13.68	1.62	1.51	1.51	1.61	1.50	1.49	1.58	1.49	1.49	1.47	1.47	
4759	14.05	1.59	1.53	1.53	1.65	1.54	1.52	1.66	1.54	1.55	1.51	1.51	
END OF CHARGE													

END OF DISCHARGE

END OF CHARGE

PACK NO. 50
MFR. 5607012 CAPACITY 5 A.H.
DEPTH OF DISCHARGE: 25%
PERCENT OF RECHARGE: 115%
TEST TEMPERATURE: 0°C
ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4230	11.76	2.51	1.12	1.18	1.15	1.13	1.13	1.18	1.18	1.19	1.18	1.17
4237	11.72	2.52	1.12	1.18	1.16	1.13	1.14	1.18	1.18	1.18	1.18	1.17
4294	11.74	2.52	1.13	1.18	1.16	1.13	1.13	1.18	1.18	1.19	1.18	1.17
4339	11.70	2.52	1.12	1.18	1.15	1.13	1.13	1.18	1.18	1.19	1.18	1.17
4356	11.70	2.52	1.12	1.18	1.15	1.13	1.13	1.18	1.18	1.19	1.18	1.17
4388	11.83	2.53	1.14	1.19	1.17	1.14	1.14	1.19	1.19	1.20	1.19	1.17
4422	11.73	2.53	1.13	1.18	1.16	1.13	1.13	1.18	1.18	1.19	1.18	1.17
4453	11.72	2.53	1.13	1.18	1.16	1.13	1.14	1.19	1.19	1.20	1.19	1.17
4486	11.76	2.53	1.13	1.19	1.16	1.13	1.14	1.19	1.19	1.20	1.19	1.17
4518	11.67	2.52	1.12	1.18	1.15	1.13	1.13	1.18	1.18	1.19	1.18	1.17
4550	11.58	2.52	1.11	1.17	1.15	1.11	1.12	1.17	1.18	1.18	1.17	1.15
4636	11.65	2.52	1.12	1.18	1.15	1.12	1.13	1.18	1.18	1.19	1.18	1.16
4717	11.63	2.54	1.11	1.17	1.15	1.12	1.13	1.18	1.19	1.19	1.18	1.16

END OF DISCHARGE

4230	15.61	.88	1.58	1.49	1.56	1.55	1.57	1.54	1.47	1.56	1.49	1.66
4257	16.00	.93	1.62	1.50	1.61	1.60	1.62	1.59	1.50	1.62	1.51	1.70
4294	15.86	.84	1.60	1.51	1.59	1.58	1.60	1.57	1.50	1.59	1.51	1.68
4329	15.80	.84	1.60	1.50	1.59	1.58	1.60	1.59	1.49	1.59	1.51	1.69
4356	15.85	.90	1.61	1.51	1.58	1.58	1.59	1.56	1.50	1.59	1.51	1.69
4388	15.82	.85	1.61	1.49	1.60	1.58	1.59	1.55	1.49	1.57	1.51	1.67
4422	15.76	.91	1.59	1.50	1.58	1.57	1.59	1.55	1.49	1.57	1.51	1.67
4453	15.43	1.14	1.57	1.48	1.55	1.56	1.56	1.51	1.48	1.54	1.49	1.59
4486	15.80	.91	1.59	1.50	1.58	1.57	1.60	1.57	1.50	1.59	1.51	1.69
4518	15.83	.88	1.60	1.51	1.59	1.58	1.59	1.57	1.50	1.60	1.52	1.69
4550	15.48	.88	1.57	1.48	1.55	1.54	1.56	1.54	1.47	1.55	1.49	1.64
4636	15.56	.91	1.57	1.48	1.56	1.55	1.57	1.55	1.48	1.57	1.49	1.65
4717	15.25	.65	1.54	1.46	1.53	1.52	1.54	1.51	1.46	1.54	1.49	1.60

END OF CHARGE

PACK NO. 1
 MFR. S01107015 CAPACITY 55 A.H. DEPTH OF DISCHARGE: 25 % TEST TEMPERATURE: 25°C
 PERCENT OF RECHARGE: 125 % ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	2.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4175	10.05	2.51	.85	1.18	1.15	—	1.06	1.05	1.17	1.16	1.16	1.16
4202	9.89	2.52	.86	1.17	1.13	—	1.05	1.01	1.16	1.14	1.14	1.15
4229	9.98	2.52	.88	1.18	1.14	—	1.06	1.04	1.16	1.15	1.15	1.15
4273	9.84	2.50	.85	1.01	1.16	—	1.03	1.05	1.18	1.09	1.17	1.19
4301	9.89	2.51	.83	1.17	1.14	—	1.06	1.03	1.16	1.14	1.14	1.15
4333	10.02	2.50	.83	1.18	1.14	—	1.04	1.05	1.17	1.16	1.15	1.16
4367	10.08	2.49	.85	1.18	1.15	—	1.07	1.07	1.18	1.17	1.16	1.16
4397	9.83	2.49	.76	1.18	1.14	—	1.05	1.03	1.16	1.15	1.14	1.16
4423	9.29	2.47	.41	1.15	1.11	—	1.03	1.02	1.15	1.11	1.12	1.13
4447	9.22	2.47	—	1.19	1.15	—	1.09	1.03	1.18	1.17	1.15	1.16
4507	9.16	2.47	—	1.18	1.15	—	1.07	1.05	1.17	1.17	1.15	1.16
4605	8.93	2.18	—	1.16	1.11	—	1.03	1.00	1.16	1.14	1.13	1.14

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	2.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4175	13.27	1.55	1.51	1.44	1.45	—	1.48	1.47	1.46	1.47	1.45	1.45
4202	13.22	1.56	1.50	1.44	1.44	—	1.48	1.47	1.45	1.47	1.44	1.44
4239	13.24	1.05	1.50	1.44	1.45	—	1.48	1.47	1.45	1.47	1.44	1.45
4273	13.27	1.05	1.51	1.41	1.46	—	1.49	1.48	1.45	1.46	1.45	1.47
4301	13.26	1.43	1.51	1.44	1.45	—	1.48	1.47	1.45	1.47	1.45	1.45
4333	13.26	1.35	1.50	1.44	1.44	—	1.47	1.46	1.45	1.47	1.44	1.46
4369	13.35	1.38	1.51	1.44	1.45	—	1.48	1.47	1.46	1.48	1.45	1.46
4397	13.28	1.41	1.51	1.45	1.46	—	1.48	1.47	1.45	1.48	1.45	1.46
4423	13.24	1.40	1.48	1.44	1.45	—	1.48	1.47	1.45	1.47	1.45	1.45
4449	11.82	1.36	—	1.45	1.46	—	1.49	1.48	1.46	1.49	1.45	1.46
4507	11.61	1.58	—	1.43	1.45	—	1.46	1.43	1.45	1.45	1.42	1.42
4605	11.77	1.36	—	1.45	1.46	—	1.49	1.48	1.46	1.47	1.45	1.45

END OF CHARGE

PACK NO. 2
 MFR. SEWATONE CAPACITY 5 A.H.
 DEPTH OF DISCHARGE: 40 %
 PERCENT OF RECHARGE: 125 %
 TEST TEMPERATURE: 25 °C
 ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4292	8.97	4.01	1.12	1.13	1.13	1.11	—	1.09	1.12	1.13	1.14	—
4319	8.90	4.01	1.12	1.15	1.11	1.09	—	1.06	1.10	1.13	1.12	—
4356	8.41	4.02	1.10	1.07	1.03	1.07	—	1.04	1.08	1.11	1.11	—
4391	7.11	3.98	1.07	.14	1.06	1.04	—	.98	.96	1.03	1.06	—
4411	7.07	3.98	1.04	.14	1.04	1.03	—	.97	.94	1.00	1.05	—
4431	7.83	3.98	1.13	—	1.11	1.10	—	1.08	1.12	1.14	1.13	—
4464	7.80	3.98	1.14	—	1.12	1.09	—	1.07	1.12	1.15	1.12	—
4496	7.55	3.98	1.10	—	1.09	1.05	—	1.03	1.08	1.11	1.10	—
4528	7.68	3.98	1.11	—	1.11	1.09	—	1.07	1.09	1.11	1.10	—
4564	7.89	3.98	1.13	—	1.12	1.12	—	1.11	1.13	1.14	1.13	—
4606	7.86	3.99	1.13	—	1.13	1.12	—	1.12	1.12	1.13	1.12	—

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4292	12.23	.99	1.51	1.46	1.52	1.52	—	1.51	1.51	1.52	1.52	—
4319	12.02	.97	1.49	1.46	1.49	1.50	—	1.52	1.53	1.48	1.52	—
4356	12.25	1.10	1.52	1.45	1.53	1.53	—	1.55	1.53	1.52	1.57	—
4391	11.86	1.28	1.48	1.45	1.48	1.48	—	1.51	1.44	1.46	1.48	—
4411	11.96	1.22	1.48	1.44	1.50	1.49	—	1.51	1.44	1.45	1.49	—
4431	11.11	2.44	1.58	—	1.57	1.57	—	1.57	1.55	1.58	1.63	—
4464	10.88	1.73	1.55	—	1.54	1.54	—	1.55	1.53	1.55	1.58	—
4496	10.97	1.60	1.56	—	1.55	1.55	—	1.57	1.55	1.56	1.60	—
4528	10.80	1.42	1.53	—	1.54	1.54	—	1.56	1.53	1.51	1.54	—
4564	11.02	1.21	1.56	—	1.55	1.57	—	1.58	1.55	1.56	1.62	—
4606	10.89	.92	1.53	—	1.54	1.55	—	1.57	1.54	1.53	1.59	—

END OF CHARGE

PACK NO. 25
MFR. SONOTONE CAPACITY 5 A.H.
DEPTH OF DISCHARGE: 15 %
PERCENT OF RECHARGE: 160 %
TEST TEMPERATURE: 40 °C
ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	1.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4119	11.66	1.52	1.13	1.15	1.15	1.11	1.10	1.17	1.18	1.19	1.17	1.15
4146	11.58	1.52	1.13	1.15	1.15	1.12	1.11	1.18	1.19	1.19	1.13	1.15
4183	11.62	1.52	1.14	1.16	1.16	1.12	1.11	1.18	1.19	1.19	1.14	1.16
4217	11.55	1.52	1.15	1.02	1.17	1.14	1.12	1.18	1.22	1.00	1.14	1.17
4245	11.60	1.52	1.14	1.16	1.16	1.12	1.10	1.17	1.13	1.19	1.14	1.16
4299	11.70	1.50	1.14	1.16	1.16	1.13	1.11	1.18	1.19	1.20	1.16	1.17
4328	11.75	1.50	1.16	1.17	1.17	1.14	1.12	1.19	1.20	1.20	1.16	1.17
4356	11.70	1.51	1.15	1.17	1.17	1.13	1.11	1.18	1.19	1.20	1.15	1.17
4390	11.91	1.51	1.16	1.17	1.17	1.13	1.11	1.19	1.20	1.20	1.15	1.17
4460	11.64	1.51	1.15	1.16	1.17	1.12	1.10	1.18	1.19	1.19	1.14	1.16
4558	11.39	1.51	1.12	1.14	1.15	1.10	1.06	1.16	1.17	1.17	1.11	1.14

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	1.03 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4119	14.50	1.03	1.44	1.42	1.43	1.46	1.55	1.42	1.41	1.43	1.42	1.42
4146	14.48	1.06	1.44	1.42	1.43	1.46	1.55	1.42	1.41	1.43	1.41	1.42
4182	14.52	1.06	1.44	1.42	1.43	1.46	1.55	1.42	1.41	1.43	1.42	1.42
4217	14.49	1.09	1.44	1.40	1.43	1.46	1.55	1.42	1.41	1.41	1.42	1.43
4245	14.51	1.06	1.44	1.42	1.43	1.46	1.55	1.42	1.41	1.43	1.41	1.42
4299	14.48	1.03	1.44	1.42	1.43	1.46	1.55	1.42	1.41	1.43	1.41	1.42
4328	14.51	1.03	1.44	1.42	1.43	1.46	1.55	1.42	1.41	1.43	1.41	1.42
4356	14.51	1.02	1.44	1.42	1.43	1.46	1.55	1.42	1.41	1.43	1.41	1.42
4390	14.55	1.05	1.45	1.43	1.43	1.46	1.56	1.42	1.42	1.44	1.41	1.43
4460	14.49	1.07	1.43	1.43	1.44	1.46	1.52	1.42	1.41	1.44	1.42	1.43
4558	14.45	.77	1.44	1.42	1.43	1.45	1.52	1.42	1.41	1.43	1.41	1.42

END OF CHARGE

PACK NO. 23
MFR. SANYO CAPACITY 5 A.H. DEPTH OF DISCHARGE: 25 % TEST TEMPERATURE: 40 °C
PERCENT OF RECHARGE: 100 % ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	2.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
3478	5.78	2.48	---	1.14	---	1.17	1.18	---	---	1.13	---	1.16
3505	5.75	2.44	---	1.12	---	1.15	1.13	---	---	1.13	---	1.16
3515	5.91	2.46	---	1.15	---	1.19	1.20	---	---	1.15	---	1.19
3542	5.33	2.49	---	1.03	---	.88	1.15	---	---	1.10	---	1.14
3577	5.14	2.44	---	.99	---	.77	1.13	---	---	1.10	---	1.13
3610	5.59	2.51	---	1.14	---	.93	1.18	---	---	1.14	---	1.18
3625	4.23	2.49	---	1.01	---	REV.	1.13	---	---	1.01	---	1.13

END OF DISCHARGE

2.00												
3478	7.78	2.04	---	1.47	---	1.47	1.61	---	---	1.59	---	1.59
3505	7.52	.72	---	1.42	---	1.42	1.58	---	---	1.56	---	1.56
3515	7.39	.40	---	1.42	---	1.41	1.53	---	---	1.51	---	1.46
3542	7.37	.42	---	1.41	---	1.40	1.52	---	---	1.53	---	1.46
3577	7.39	.60	---	1.43	---	1.41	1.52	---	---	1.55	---	1.45
3610	7.11	1.76	---	1.40	---	1.37	1.43	---	---	1.46	---	1.40
3625	7.21	.57	---	1.42	---	1.40	1.47	---	---	1.45	---	1.45

END OF CHARGE

PACK NO. 53		CAPACITY 5 A.H.		DEPTH OF DISCHARGE: 15 % PERCENT OF RECHARGE: 115 %		TEST TEMPERATURE: 0°C ORBIT PERIOD: 3 HOURS	
MFR. SONYTONE							

PACK NO. 5
MFR. SONOTONE CAPACITY 5 A.H. DEPTH OF DISCHARGE: 25 % TEST TEMPERATURE: 25° C
PERCENT OF RECHARGE: 12.5 % ORBIT PERIOD: 3 HOURS

CYCLE NO.	PACK VOLTAGE	2.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2068	10.61	2.51	1.04	.96	1.05	1.03	1.04	1.08	1.14	1.06	1.08	1.04
2102	10.75	2.51	1.06	.96	1.06	1.05	1.09	1.07	1.14	1.07	1.09	1.05
2139	11.49	2.52	1.13	1.03	1.11	1.14	1.16	1.16	1.18	1.17	1.17	1.15
2166	11.35	2.51	1.11	.99	1.10	1.14	1.15	1.15	1.16	1.16	1.16	1.15
2196	11.18	2.51	1.10	.95	1.08	1.13	1.14	1.13	1.15	1.15	1.15	1.13
2246	11.24	2.51	1.12	.97	1.07	1.13	1.14	1.14	1.15	1.16	1.16	1.13
2277	10.99	2.51	1.09	.93	1.05	1.10	1.11	1.11	1.14	1.14	1.15	1.11

END OF DISCHARGE

2068	14.24	.63	1.41	1.43	1.42	1.42	1.42	1.41	1.41	1.42	1.41	1.40
2102	14.23	.61	1.41	1.43	1.42	1.42	1.42	1.41	1.41	1.43	1.40	1.40
2139	14.25	.60	1.41	1.43	1.41	1.41	1.41	1.41	1.41	1.43	1.41	1.40
2166	14.14	.60	1.39	1.41	1.39	1.38	1.38	1.38	1.38	1.40	1.37	1.36
2196	14.22	.61	1.41	1.43	1.42	1.41	1.41	1.41	1.41	1.43	1.40	1.40
2246	14.24	.62	1.41	1.43	1.42	1.41	1.42	1.41	1.42	1.43	1.41	1.40
2277	14.27	.62	1.42	1.44	1.43	1.41	1.42	1.41	1.42	1.43	1.41	1.40

END OF CHARGE

CYCLE NO.	PACK VOLTAGE	4.00 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
1989	7.67	4.01	1.10	1.12	1.10	1.10	1.09	1.08	1.10	1.08	1.07	1.07
2023	7.75	4.00	1.12	1.14	1.10	1.10	1.10	1.10	1.11	1.11	1.08	1.08
2055	7.85	3.93	1.13	1.15	1.12	1.12	1.12	1.11	1.12	1.12	1.09	1.09
2087	7.91	4.00	1.14	1.15	1.13	1.13	1.12	1.12	1.12	1.12	1.09	1.09
2118	8.35	4.12	1.20	1.20	1.20	1.20	1.20	1.20	1.19	1.19	1.17	1.17
2177	7.86	4.08	1.14	1.15	1.14	1.14	1.15	1.10	1.11	1.11	1.08	1.08
2201	7.84	4.08	1.14	1.15	1.14	1.14	1.14	1.10	1.11	1.11	1.07	1.07

END OF DISCHARGE

1989	10.16	.98	1.43	1.46	1.45	1.44	1.44	1.44	1.44	1.44	1.47	1.47
2023	10.15	.98	1.44	1.46	1.44	1.44	1.43	1.43	1.44	1.44	1.47	1.47
2055	10.22	.98	1.45	1.48	1.45	1.45	1.44	1.43	1.44	1.44	1.48	1.48
2087	10.27	.97	1.45	1.48	1.45	1.45	1.44	1.43	1.44	1.44	1.50	1.50
2118	10.19	.98	1.44	1.46	1.44	1.44	1.43	1.43	1.45	1.45	1.52	1.52
2177	10.22	.99	1.45	1.48	1.45	1.45	1.44	1.44	1.45	1.45	1.49	1.49
2201	10.23	.98	1.45	1.48	1.46	1.46	1.43	1.44	1.45	1.45	1.50	1.50

END OF CHARGE

PACK NO. 29
MFR. SONOTONE CAPACITY 5 A.H. DEPTH OF DISCHARGE: 15 % TEST TEMPERATURE: 40°C
PERCENT OF RECHARGE: 160 % ORBIT PERIOD: 3 HOURS

CYCLE NO.	PACK VOLTAGE	1.50 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
1927	10.70	1.52	—	1.20	1.20	1.21	1.21	1.20	1.20	1.12	1.15	1.17
1961	10.71	1.52	—	1.20	1.21	1.21	1.20	1.20	1.19	1.12	1.14	1.17
1991	10.70	1.52	—	1.20	1.20	1.20	1.20	1.19	1.19	1.11	1.14	1.17
2025	10.74	1.52	—	1.20	1.20	1.20	1.20	1.20	1.19	1.12	1.15	1.18
2052	10.70	1.52	—	1.20	1.20	1.20	1.20	1.20	1.19	1.11	1.15	1.17
2082	10.67	1.52	—	1.20	1.20	1.20	1.20	1.19	1.19	1.11	1.14	1.17
2132	10.70	1.52	—	1.20	1.20	1.20	1.20	1.20	1.19	1.12	1.14	1.17
2163	10.63	1.51	—	1.20	1.20	1.20	1.20	1.19	1.19	1.10	1.13	1.17

END OF DISCHARGE

1927	12.64	.48	—	1.39	1.39	1.40	1.42	1.39	1.39	1.42	1.39	1.38
1961	12.63	.48	—	1.39	1.39	1.40	1.41	1.38	1.39	1.42	1.38	1.37
1991	12.63	.47	—	1.39	1.39	1.40	1.40	1.38	1.38	1.42	1.39	1.38
2025	12.66	.45	—	1.39	1.39	1.40	1.41	1.38	1.38	1.42	1.38	1.38
2052	12.66	.46	—	1.40	1.40	1.40	1.42	1.40	1.40	1.43	1.39	1.38
2082	12.68	.46	—	1.40	1.40	1.40	1.42	1.39	1.39	1.43	1.39	1.39
2132	12.68	.47	—	1.40	1.40	1.40	1.42	1.39	1.39	1.43	1.39	1.38
2163	12.70	.48	—	1.40	1.40	1.40	1.44	1.39	1.40	1.43	1.39	1.38

END OF CHARGE

PACK NO. 30
MFR. SONOTONE CAPACITY 5 A.H. DEPTH OF DISCHARGE: 25 % TEST TEMPERATURE: 40°C
PERCENT OF RECHARGE: 160 % ORBIT PERIOD: 3 HOURS

1871	10.36	2.50	1.15	1.15	1.15	1.13	1.16	1.15	—	1.15	1.13	1.14
1905	10.34	2.53	1.15	1.15	1.15	1.11	1.16	1.14	—	1.15	1.12	1.14
1937	10.38	2.51	1.16	1.16	1.15	1.10	1.16	1.15	—	1.15	1.13	1.15
1969	10.38	2.51	1.16	1.16	1.15	1.10	1.15	1.15	—	1.15	1.13	1.15
1996	10.31	2.54	1.15	1.15	1.14	1.09	1.15	1.14	—	1.15	1.12	1.14
2025	10.48	2.53	1.17	1.17	1.16	1.15	1.17	1.16	—	1.17	1.14	1.16
2084	10.32	2.51	1.16	1.16	1.15	1.10	1.16	1.15	—	1.15	1.12	1.14
2108	10.12	2.52	1.14	1.14	1.14	1.01	1.15	1.13	—	1.13	1.10	1.13

END OF DISCHARGE

1871	12.83	.73	1.41	1.41	1.42	1.41	1.42	1.41	—	1.41	1.43	1.42
1905	12.84	.70	1.41	1.41	1.41	1.41	1.42	1.41	—	1.42	1.42	1.42
1937	12.85	.72	1.41	1.41	1.42	1.41	1.43	1.42	—	1.42	1.43	1.43
1969	12.88	.70	1.41	1.41	1.41	1.40	1.42	1.41	—	1.42	1.43	1.44
1996	12.91	.70	1.42	1.42	1.42	1.40	1.42	1.41	—	1.42	1.43	1.46
2025	12.90	.70	1.42	1.42	1.42	1.41	1.43	1.42	—	1.43	1.43	1.47
2084	12.95	.70	1.42	1.42	1.42	1.41	1.43	1.42	—	1.43	1.44	1.48
2108	12.89	.59	1.42	1.42	1.42	1.40	1.43	1.41	—	1.42	1.43	1.47

END OF CHARGE

PACK NO. 61
MFR. GULTON CAPACITY 6 A.H.
DEPTH OF DISCHARGE: 15 %
PERCENT OF RECHARGE: 115 %
TEST TEMPERATURE: 0°C
ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	1.80 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
3950	10.81	1.80	1.08	1.20	1.17	1.20	—	1.19	1.20	1.22	1.20	1.20
3975	10.82	1.80	1.10	1.21	1.17	1.20	—	1.20	1.21	1.22	1.21	1.21
4014	10.82	1.80	1.09	1.22	1.17	1.21	—	1.20	1.21	1.22	1.21	1.21
4048	10.78	1.80	1.10	1.10	1.18	1.22	—	1.21	1.21	1.18	1.22	1.24
4094	9.68	1.77	1.14	1.23	1.22	.16	—	1.22	1.23	1.25	1.23	1.24
4109	9.72	1.77	1.11	1.21	1.20	—	—	1.19	1.23	1.25	1.23	1.24
4143	9.69	1.77	1.10	1.19	1.20	—	—	1.20	1.23	1.24	1.23	1.23
4171	9.65	1.76	1.10	1.16	1.21	—	—	1.20	1.22	1.24	1.22	1.23
4205	9.62	1.75	1.10	1.14	1.21	—	—	1.22	1.23	1.24	1.23	1.21
4275	8.43	1.53	1.11	1.25	1.21	—	—	1.23	1.23	1.25	1.23	.11
4285	7.98	1.46	1.14	1.27	1.24	—	—	1.25	1.26	1.27	1.25	.72
4372	8.24	1.80	1.04	1.22	1.19	—	—	1.12	1.22	1.23	1.22	0.0

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	1.80 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
3950	14.18	.64	1.69	1.59	1.52	1.52	—	1.56	1.52	1.53	1.62	1.52
3975	14.16	.61	1.70	1.58	1.51	1.52	—	1.57	1.52	1.54	1.60	1.52
4014	14.19	.61	1.72	1.58	1.51	1.52	—	1.57	1.52	1.54	1.61	1.52
4048	14.19	.63	1.72	1.53	1.52	1.53	—	1.58	1.53	1.52	1.62	1.54
4094	13.39	1.03	1.73	1.62	1.70	.06	—	1.67	1.56	1.56	1.66	1.68
4109	12.48	.74	1.67	1.43	1.60	—	—	1.44	1.53	1.53	1.60	1.58
4143	12.43	.72	1.68	1.39	1.58	—	—	1.46	1.53	1.53	1.59	1.59
4171	12.46	.68	1.69	1.37	1.59	—	—	1.47	1.53	1.53	1.59	1.60
4205	12.49	.73	1.72	1.38	1.59	—	—	1.51	1.54	1.54	1.61	1.50
4275	11.83	1.04	1.58	1.43	1.50	—	—	1.47	1.48	1.49	1.49	1.32
4285	12.40	.60	1.65	1.56	1.60	—	—	1.57	1.52	1.52	1.58	1.32
4372	10.69	.66	1.66	1.41	1.58	—	—	1.37	1.52	1.53	1.58	0.00

END OF CHARGE

PACK NO. 62
MFR. GULFON CAPACITY 6 A.H. DEPTH OF DISCHARGE: 25% PERCENT OF RECHARGE: 115% TEST TEMPERATURE: 0°C ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	3.00 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4002	10.46	3.04	1.19	1.16	1.14	1.08	1.16	1.15	1.16	1.17	1.18	—
4029	9.55	3.02	1.19	1.15	1.13	.22	1.16	1.14	1.16	1.17	1.18	—
4066	10.37	3.04	1.19	1.15	1.13	REV.	1.16	1.14	1.16	1.18	1.18	—
4105	9.59	3.02	1.20	1.19	1.19	—	1.19	1.18	1.20	1.21	1.20	—
4136	9.49	3.02	1.19	1.18	1.17	—	1.15	1.17	1.18	1.19	1.19	—
4169	9.56	3.01	1.20	1.19	1.19	—	1.18	1.19	1.20	1.21	1.20	—
4201	9.49	3.02	1.20	1.18	1.18	—	1.18	1.18	1.19	1.20	1.19	—
4233	9.48	3.01	1.19	1.18	1.18	—	1.18	1.17	1.18	1.19	1.18	—
4319	9.43	3.00	1.20	1.18	1.18	—	1.12	1.18	1.18	1.20	1.19	—
4400	9.26	3.03	1.20	1.18	1.18	—	.88	1.18	1.19	1.20	1.20	—

END OF DISCHARGE

4002	14.22	1.72	1.60	1.61	1.63	1.41	1.63	1.61	1.57	1.57	1.53	—
4029	14.28	.96	1.61	1.62	1.65	1.41	1.61	1.62	1.57	1.59	1.53	—
4066	14.08	1.07	1.59	1.57	1.59	1.42	1.63	1.59	1.55	1.56	1.52	—
4105	12.14	.95	1.51	1.53	1.55	—	1.46	1.52	1.50	1.53	1.49	—
4136	11.81	1.31	1.48	1.48	1.49	—	1.42	1.48	1.47	1.49	1.46	—
4169	12.50	.95	1.55	1.64	1.62	—	1.45	1.60	1.54	1.56	1.51	—
4201	12.55	.91	1.56	1.65	1.62	—	1.48	1.61	1.54	1.56	1.51	—
4233	12.58	.92	1.55	1.63	1.64	—	1.49	1.61	1.54	1.56	1.51	—
4319	12.62	.92	1.57	1.66	1.69	—	1.41	1.63	1.55	1.57	1.51	—
4400	12.65	.91	1.59	1.66	1.70	—	1.38	1.63	1.56	1.56	1.52	—

END OF CHARGE

PACK NO. 13
MFR. GULF TON CAPACITY 6 A.H.
DEPTH OF DISCHARGE: 25%
PERCENT OF RECHARGE: 12.5%
TEST TEMPERATURE: 25°C
ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	3.00 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
3428	6.71	3.00	—	1.03	1.16	.98	—	1.16	—	1.16	1.14	—
3455	6.65	3.00	—	1.02	1.17	1.08	—	1.14	—	1.14	1.08	—
3492	6.71	3.02	—	1.07	1.17	1.05	—	1.15	—	1.15	1.11	—
3526	6.62	2.98	—	.94	1.17	1.02	—	1.16	—	1.14	1.12	—
3554	6.34	2.88	—	.92	1.16	.86	—	1.14	—	1.15	1.10	—
3586	7.20	3.01	—	1.22	1.20	1.22	—	1.18	—	1.18	1.17	—
3598	5.71	2.58	—	1.17	1.16	REV.	—	1.15	—	1.15	1.13	—
3615	5.96	2.73	—	1.21	1.23	—	—	1.16	—	1.17	1.16	—
3649	5.83	2.68	—	1.18	1.20	—	—	1.16	—	1.16	1.13	—
3677	5.89	2.70	—	1.19	1.21	—	—	1.17	—	1.17	1.15	—
3711	5.84	3.02	—	1.18	1.19	—	—	1.17	—	1.16	1.14	—
3781	5.79	3.02	—	1.18	1.19	—	—	1.16	—	1.15	1.11	—
3879	5.72	3.02	—	1.15	1.18	—	—	1.15	—	1.15	1.09	—

END OF DISCHARGE

1.875												
3428	8.61	1.86	—	1.41	1.43	1.39	—	1.43	—	1.43	1.44	—
3455	8.60	1.87	—	1.42	1.45	1.40	—	1.43	—	1.44	1.43	—
3492	8.63	1.87	—	1.42	1.45	1.41	—	1.44	—	1.44	1.43	—
3526	8.64	1.88	—	1.40	1.45	1.41	—	1.44	—	1.44	1.44	—
3554	8.64	1.85	—	1.42	1.45	1.40	—	1.44	—	1.45	1.44	—
3586	8.67	1.89	—	1.45	1.45	1.41	—	1.43	—	1.44	1.43	—
3598	8.66	1.89	—	1.44	1.45	1.39	—	1.44	—	1.45	1.44	—
3615	7.32	1.88	—	1.47	1.46	—	—	1.45	—	1.46	1.45	—
3649	7.29	1.87	—	1.46	1.46	—	—	1.46	—	1.46	1.44	—
3677	7.30	1.89	—	1.46	1.47	—	—	1.45	—	1.45	1.44	—
3711	7.30	1.89	—	1.46	1.46	—	—	1.46	—	1.46	1.44	—
3781	7.09	1.89	—	1.41	1.42	—	—	1.42	—	1.42	1.41	—
3879	7.30	1.90	—	1.45	1.46	—	—	1.45	—	1.46	1.45	—

END OF CHARGE

PACK NO. 31
MFR. GULFON CAPACITY 6 A.H. DEPTH OF DISCHARGE: 15 % TEST TEMPERATURE: 40°C
PERCENT OF RECHARGE: 160 % ORBIT PERIOD: 90 MINUTES

CYCLE NO.	PACK VOLTAGE	1.80 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
3322	6.97	1.81	1.19	1.04	—	—	1.19	1.15	1.15	—	1.18	—
3349	6.79	1.78	1.17	.93	—	—	1.17	1.14	1.16	—	1.14	—
3386	6.73	1.76	1.16	1.00	—	—	1.17	1.14	1.12	—	1.13	—
3420	6.70	1.75	1.17	.97	—	—	1.17	1.15	1.12	—	1.11	—
3448	6.64	1.73	1.15	.99	—	—	1.17	1.14	1.10	—	1.08	—
3480	6.73	1.76	1.17	1.02	—	—	1.17	1.12	1.14	—	1.08	—
3514	6.79	1.76	1.18	1.02	—	—	1.18	1.13	1.15	—	1.11	—
3544	6.68	1.74	1.17	1.00	—	—	1.17	1.13	1.12	—	1.09	—
3578	6.78	1.77	1.18	.99	—	—	1.19	1.11	1.16	—	1.14	—
3606	6.61	1.74	1.16	.95	—	—	1.18	1.08	1.12	—	1.10	—
3640	6.64	1.74	1.18	.92	—	—	1.19	1.09	1.15	—	1.12	—
3710	6.39	1.63	1.16	.98	—	—	1.18	.82	1.11	—	1.05	—
3720	6.10	1.58	1.11	.97	—	—	1.17	.75	1.09	—	1.01	—
3808	5.96	1.55	1.06	.93	—	—	1.15	.86	.95	—	1.00	—

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	1.80 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
3322	8.69	1.44	1.40	1.59	—	—	1.42	1.44	1.40	—	1.41	—
3349	8.70	1.26	1.40	1.58	—	—	1.42	1.45	1.41	—	1.41	—
3386	8.72	1.23	1.41	1.58	—	—	1.43	1.45	1.41	—	1.40	—
3420	8.72	1.25	1.41	1.56	—	—	1.43	1.45	1.41	—	1.41	—
3448	8.72	1.27	1.41	1.58	—	—	1.43	1.44	1.41	—	1.41	—
3480	8.73	1.36	1.41	1.58	—	—	1.42	1.44	1.41	—	1.40	—
3514	8.74	1.29	1.42	1.59	—	—	1.43	1.45	1.42	—	1.40	—
3544	8.80	1.44	1.42	1.60	—	—	1.43	1.46	1.42	—	1.42	—
3578	8.78	1.44	1.42	1.59	—	—	1.44	1.46	1.43	—	1.41	—
3606	8.76	1.44	1.42	1.58	—	—	1.44	1.45	1.42	—	1.41	—
3640	8.68	1.34	1.42	1.50	—	—	1.44	1.46	1.43	—	1.41	—
3710	8.58	1.35	1.40	1.51	—	—	1.42	1.43	1.40	—	1.39	—
3720	8.77	1.39	1.42	1.59	—	—	1.45	1.46	1.43	—	1.41	—
3808	8.63	1.07	1.40	1.53	—	—	1.42	1.45	1.41	—	1.40	—

END OF CHARGE

PACK NO. 65			CAPACITY 6 A.H.			DEPTH OF DISCHARGE: 15 %			TEST TEMPERATURE: 0°C			
MFR. GULF TON			CAPACITY 6 A.H.			PERCENT OF RECHARGE: 115 %			ORBIT PERIOD: 3 HOURS			
CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2141	12.32	1.81	1.23	1.24	1.23	1.24	1.24	1.23	1.21	1.24	1.23	1.17
2176	12.30	1.81	1.23	1.23	1.23	1.23	1.23	1.23	1.20	1.23	1.23	1.17
2214	12.38	1.82	1.24	1.24	1.23	1.24	1.23	1.23	1.21	1.24	1.24	1.19
2241	12.20	1.80	1.22	1.22	1.21	1.22	1.22	1.21	1.19	1.22	1.22	1.16
2271	12.40	1.81	1.24	1.24	1.23	1.24	1.24	1.24	1.21	1.25	1.24	1.17
2321	12.50	1.81	1.25	1.25	1.25	1.25	1.25	1.25	1.22	1.25	1.25	1.19
2352	12.42	1.80	1.24	1.25	1.24	1.24	1.24	1.24	1.22	1.24	1.24	1.19

END OF DISCHARGE

2141	15.67	.33	1.59	1.59	1.53	1.53	1.52	1.51	1.64	1.51	1.49	1.66
2176	15.84	.34	1.62	1.63	1.56	1.54	1.52	1.52	1.65	1.52	1.50	1.67
2214	15.14	.37	1.50	1.51	1.50	1.51	1.49	1.48	1.52	1.49	1.46	1.52
2241	14.27	.36	1.40	1.40	1.40	1.40	1.38	1.38	1.38	1.39	1.36	1.37
2271	14.45	.41	1.43	1.44	1.44	1.44	1.42	1.44	1.43	1.45	1.43	1.44
2321	15.45	.33	1.57	1.55	1.54	1.53	1.51	1.51	1.58	1.51	1.48	1.59
2352	15.37	.34	1.54	1.54	1.53	1.53	1.50	1.51	1.57	1.50	1.48	1.59

END OF CHARGE

PACK NO. 66			CAPACITY 6 A.H.		DEPTH OF DISCHARGE: 25 %		TEST TEMPERATURE: 0 °C				
MFR. GULF TON			CAPACITY 6 A.H.		PERCENT OF RECHARGE: 115 %		ORBIT PERIOD: 3 HOURS				
1940	6.57	3.05	1.18	1.19	—	1.16	—	.62	—	1.18	1.19
1984	6.50	3.02	1.18	1.19	—	1.15	—	.59	—	1.18	1.19
2007	6.51	3.03	1.18	1.19	—	1.15	—	.59	—	1.18	1.19
2034	6.41	3.02	1.18	1.19	—	1.14	—	.51	—	1.18	1.18
2063	6.44	3.02	1.18	1.19	—	1.15	—	.53	—	1.18	1.19
2105	6.35	2.98	1.18	1.19	—	1.14	—	.46	—	1.18	1.18
2122	6.37	2.99	1.18	1.19	—	1.15	—	.47	—	1.18	1.19

END OF DISCHARGE

1940	7.70	.68	1.65	1.60	—	1.67	—	—	1.61	—	1.56	1.53
1984	7.50	.65	1.58	1.57	—	1.54	—	—	1.60	—	1.56	1.55
2007	7.44	.63	1.56	1.58	—	1.53	—	—	1.60	—	1.55	1.53
2034	7.53	.62	1.60	1.61	—	1.53	—	—	1.61	—	1.57	1.54
2063	7.67	.66	1.64	1.67	—	1.55	—	—	1.62	—	1.59	1.56
2105	7.59	.63	1.63	1.64	—	1.53	—	—	1.61	—	1.58	1.54
2122	7.51	.65	1.60	1.62	—	1.53	—	—	1.61	—	1.58	1.54

END OF CHARGE

PACK NO. 17
MFR. GULTON CAPACITY 6 A.H. DEPTH OF DISCHARGE: 25 % TEST TEMPERATURE: 25°C
PERCENT OF RECHARGE: 125 % ORBIT PERIOD: 3 HOURS

CYCLE NO.	PACK VOLTAGE	3.00 CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2018	7.73	3.01	1.07	1.07	—	1.09	—	1.11	1.11	1.17	1.11	—
2052	7.83	2.99	1.09	1.08	—	1.10	—	1.12	1.11	1.17	1.11	—
2089	8.34	2.99	1.18	1.17	—	1.18	—	1.19	1.19	1.20	1.19	—
2116	8.19	2.98	1.16	1.15	—	1.15	—	1.18	1.17	1.19	1.17	—
2146	7.99	2.98	1.15	1.04	—	1.12	—	1.16	1.16	1.18	1.15	—
2196	8.10	2.97	1.14	1.15	—	1.12	—	1.16	1.16	1.18	1.16	—
2227	7.60	2.83	1.08	.88	—	1.06	—	1.12	1.14	1.17	1.14	—

END OF DISCHARGE

2018	9.97	.75	1.42	1.42	—	1.42	—	1.42	1.42	1.44	1.41	—
2052	9.99	.74	1.42	1.41	—	1.42	—	1.42	1.41	1.44	1.41	—
2089	9.99	.74	1.42	1.40	—	1.41	—	1.43	1.41	1.44	1.41	—
2116	9.89	.76	1.39	1.36	—	1.36	—	1.37	1.35	1.38	1.36	—
2146	9.99	.75	1.42	1.41	—	1.42	—	1.43	1.41	1.44	1.41	—
2196	9.97	.74	1.42	1.40	—	1.41	—	1.43	1.41	1.43	1.41	—
2227	9.99	.76	1.43	1.40	—	1.42	—	1.43	1.42	1.44	1.42	—

END OF CHARGE

PACK NO. 18
MFR. GULTON CAPACITY A.H. DEPTH OF DISCHARGE: TEST TEMPERATURE:
PERCENT OF RECHARGE: ORBIT PERIOD: 3 HOURS

END OF DISCHARGE

END OF CHARGE

PACK NO. 110	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 0°C
MFR. G.E.	PERCENT OF RECHARGE: 115 %	ORBIT PERIOD:
CAPACITY 12 A.H.		90 MINUTES

	CYCLE NO.	PACK VOLTAGE	3.60 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	3951	6.17	3.64	1.24	1.23	1.24	1.23	1.24
	3978	6.18	3.65	1.24	1.23	1.23	1.24	1.23
	4015	6.18	3.65	1.24	1.23	1.23	1.23	1.23
	4049	6.20	3.68	1.24	1.23	1.21	1.24	1.24
	4077	6.17	3.65	1.23	1.22	1.23	1.24	1.23
	4109	6.18	3.62	1.23	1.22	1.23	1.23	1.23
	4143	6.20	3.61	1.24	1.23	1.24	1.24	1.24
	4173	6.18	3.61	1.24	1.23	1.24	1.24	1.24
	4207	6.20	3.60	1.24	1.23	1.24	1.24	1.24
	4235	6.13	3.61	1.23	1.23	1.19	1.24	1.25
	4339	6.18	3.62	1.24	1.23	1.24	1.24	1.23
END OF CHARGE	3951	7.86	1.43	1.57	1.63	1.55	1.56	1.56
	3978	7.87	1.36	1.58	1.62	1.54	1.55	1.55
	4015	7.89	1.35	1.58	1.63	1.54	1.56	1.55
	4049	7.91	1.36	1.59	1.63	1.54	1.56	1.56
	4077	7.94	1.37	1.59	1.64	1.55	1.57	1.57
	4109	7.89	1.40	1.58	1.63	1.54	1.56	1.55
	4143	7.89	1.43	1.58	1.63	1.54	1.56	1.56
	4173	7.89	1.41	1.58	1.63	1.55	1.57	1.56
	4207	7.88	1.44	1.58	1.63	1.54	1.56	1.55
	4235	7.67	1.57	1.53	1.54	1.50	1.51	1.51
	4339	7.36	1.93	1.47	1.47	1.46	1.46	1.47

2.07

PACK NO. 124
MFR. G.E.
CAPACITY 12 A.H.

DEPTH OF DISCHARGE: 25 %
PERCENT OF RECHARGE: 115 %

TEST TEMPERATURE: 0°C
ORBIT PERIOD:
90 MINUTES

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	6.00 CURRENT	CELL VOLTAGES				
			1	2	3	4	5
3917	4.37	5.90	1.19	1.20	1.16	.82	—
3944	4.33	5.89	1.16	1.17	1.14	.86	—
3981	4.50	5.92	1.20	1.21	1.18	.92	—
4000	4.81	5.94	1.21	1.22	1.14	1.22	—
4034	4.87	5.88	1.22	1.22	1.19	1.22	—
4064	4.81	5.98	1.22	1.22	1.18	1.22	—
4098	4.76	5.95	1.20	1.20	1.16	1.20	—
4126	4.90	5.95	1.21	1.21	1.18	1.21	—
4230	4.77	5.92	1.20	1.21	1.17	1.20	—

END OF CHARGE

3917	6.46	2.05	1.61	1.57	1.64	1.66	—
3944	5.77	2.32	1.42	1.42	1.42	1.52	—
3981	6.47	2.01	1.61	1.58	1.65	1.66	—
4000	5.70	3.45	1.41	1.41	1.45	1.40	—
4034	6.24	2.79	1.58	1.54	1.57	1.54	—
4064	6.24	1.70	1.57	1.56	1.62	1.56	—
4098	6.22	2.13	1.57	1.53	1.59	1.52	—
4126	6.05	2.33	1.52	1.50	1.53	1.50	—
4230	5.79	2.88	1.44	1.45	1.45	1.44	—

3.45

PACK NO. 82
MFR. G.E.
CAPACITY 12 A.H.

DEPTH OF DISCHARGE: 25 %
PERCENT OF RECHARGE: 125 %

TEST TEMPERATURE: 25°C
ORBIT PERIOD:
90 MINUTES

	CYCLE NO.	PACK VOLTAGE	6.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	4147	5.72	5.99	1.16	1.16	1.16	1.16	1.17
	4174	5.57	5.97	1.14	1.13	1.08	1.08	1.14
	4211	5.58	5.99	1.14	1.13	1.08	1.09	1.14
	4245	5.63	5.96	1.15	1.09	1.10	1.10	1.15
	4273	5.58	5.98	1.14	1.13	1.09	1.10	1.14
	4305	5.78	5.96	1.16	1.16	1.14	1.14	1.16
	4339	5.79	5.94	1.17	1.16	1.15	1.15	1.16
	4369	5.67	5.93	1.14	1.14	1.10	1.11	1.14
	4403	5.73	5.93	1.16	1.15	1.13	1.14	1.16
	4431	5.68	5.96	1.15	1.14	1.11	1.12	1.15
	4465	5.68	5.94	1.15	1.14	1.13	1.12	1.15
	4535	5.54	5.93	1.13	1.12	1.09	1.07	1.13
END OF CHARGE	4147	7.33	3.68	1.47	1.45	1.45	1.45	1.47
	4174	7.27	3.75	1.47	1.45	1.44	1.44	1.46
	4211	7.26	3.72	1.47	1.45	1.45	1.44	1.46
	4245	7.31	3.73	1.48	1.45	1.45	1.45	1.47
	4273	7.30	3.74	1.48	1.45	1.45	1.45	1.46
	4305	7.32	3.85	1.48	1.46	1.45	1.45	1.46
	4339	7.35	3.76	1.49	1.46	1.46	1.46	1.47
	4369	7.33	3.75	1.49	1.46	1.46	1.46	1.47
	4403	7.33	3.76	1.49	1.46	1.46	1.46	1.47
	4431	7.20	3.60	1.44	1.44	1.43	1.43	1.44
	4465	7.35	3.70	1.49	1.46	1.46	1.45	1.47
	4535	7.10	3.46	1.42	1.43	1.42	1.42	1.41

3.75

66.

PACK NO. 96	DEPTH OF DISCHARGE: 40%	TEST TEMPERATURE: 25°C
MFR. G.E.	PERCENT OF RECHARGE: 125%	ORBIT PERIOD:
CAPACITY 12 A.H.		90 MINUTES

END OF DISCHARGE

CYCLE NO.	PACK VOLTAGE	9.60 CURRENT	CELL VOLTAGES				
			1	2	3	4	5
3995	3.68	8.65	1.14	.59	---	.85	1.11
4000	2.47	8.72	1.09	REV.	---	.50	1.06

END OF CHARGE

3995	6.07	5.40	1.55	1.48	---	1.48	1.57
4000	5.97	5.99	1.53	1.44	---	1.44	1.56

6.00

67.

PACK NO. 8.5	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 40°C
MFR. G.E.	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD:
CAPACITY 12 A.H.		90 MINUTES

	CYCLE NO.	PACK VOLTAGE	3.60 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	3835	5.97	3.58	1.20	1.19	1.18	1.19	1.20
	3872	5.94	3.61	1.20	1.19	1.17	1.18	1.19
	3907	5.94	3.55	1.20	1.19	1.17	1.17	1.18
	3934	5.96	3.56	1.20	1.19	1.18	1.18	1.19
	3966	6.03	3.57	1.21	1.20	1.19	1.19	1.20
	4000	5.95	3.60	1.20	1.19	1.17	1.17	1.18
	4064	5.97	3.56	1.21	1.20	1.19	1.19	1.20
	4098	5.93	3.56	1.20	1.19	1.10	1.13	1.19
	4132	5.82	3.54	1.18	1.16	1.15	1.15	1.16
	4216	6.03	3.45	1.22	1.21	1.20	1.20	1.21
	4298	5.94	3.54	1.22	1.21	1.20	1.20	1.21
END OF CHARGE	3835	7.13	2.87	1.42	1.42	1.43	1.43	1.42
	3872	7.13	2.85	1.43	1.43	1.43	1.42	1.42
	3907	7.14	2.88	1.42	1.43	1.43	1.42	1.42
	3934	7.14	2.87	1.43	1.43	1.43	1.42	1.42
	3966	7.14	2.84	1.43	1.43	1.43	1.42	1.42
	4000	7.14	2.80	1.43	1.43	1.43	1.42	1.41
	4064	7.17	2.76	1.44	1.44	1.44	1.43	1.43
	4098	7.16	2.70	1.43	1.44	1.44	1.43	1.43
	4132	7.11	2.71	1.39	1.40	1.40	1.40	1.40
	4216	7.20	2.90	1.44	1.44	1.44	1.44	1.43
	4298	7.15	2.75	1.43	1.43	1.43	1.42	1.42

2.88

CAPACITY 12 A.H.

160 %

90 MINUTES

END OF CHARGE

4.80

69.

PACK NO. 111	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 0°C
MFR. G.E.	PERCENT OF RECHARGE: 115 %	ORBIT PERIOD: 3 HOURS
CAPACITY 12 A.H.		

	CYCLE NO.	PACK VOLTAGE	3.60 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	2003	6.12	3.63	1.23	1.23	1.21	1.22	1.22
	2037	6.14	3.69	1.23	1.23	1.21	1.22	1.22
	2069	6.13	3.70	1.22	1.22	1.20	1.22	1.22
	2101	6.12	3.61	1.22	1.22	1.21	1.22	1.22
	2128	6.14	3.65	1.23	1.23	1.21	1.22	1.22
	2157	6.16	3.69	1.23	1.23	1.22	1.23	1.22
	2191	6.13	4.10	1.23	1.23	1.21	1.22	1.22
	2215	6.18	3.82	1.23	1.24	1.22	1.23	1.23
END OF CHARGE	2003	7.83	.66	1.61	1.52	1.63	1.50	1.53
	2037	7.81	.66	1.60	1.51	1.61	1.50	1.53
	2069	7.85	.65	1.61	1.52	1.63	1.51	1.54
	2101	7.72	.74	1.55	1.51	1.57	1.49	1.53
	2128	7.80	.70	1.61	1.51	1.62	1.50	1.54
	2157	7.82	.70	1.60	1.52	1.61	1.51	1.54
	2191	7.33	.84	1.46	1.46	1.46	1.45	1.45
	2215	7.94	.81	1.61	1.54	1.63	1.52	1.57

.828

PACK NO. 125	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 0°C
MFR. G.E.	PERCENT OF RECHARGE: 115 %	ORBIT PERIOD: 3 HOURS
CAPACITY 12 A.H.	6.00	

END OF DISCHARGE	2011	5.97	6.00	1.19	1.19	1.20	1.19	1.20
	2045	5.97	6.01	1.19	1.19	1.19	1.19	1.20
	2068	5.97	5.93	1.19	1.20	1.20	1.19	1.19
	2100	5.95	6.00	1.19	1.19	1.19	1.19	1.19
	2127	5.95	6.01	1.19	1.19	1.19	1.19	1.19
	2156	5.97	6.00	1.19	1.20	1.20	1.19	1.20
	2190	6.06	6.09	1.21	1.22	1.21	1.21	1.21
	2214	6.03	6.61	1.21	1.21	1.21	1.20	1.21
END OF CHARGE	2011	7.92	1.13	1.63	1.59	1.62	1.55	1.54
	2045	7.84	.85	1.60	1.52	1.63	1.54	1.53
	2068	7.86	.84	1.61	1.59	1.60	1.54	1.52
	2100	7.73	.97	1.56	1.56	1.54	1.54	1.52
	2127	7.86	.92	1.60	1.52	1.60	1.54	1.52
	2156	7.86	.89	1.61	1.57	1.60	1.54	1.53
	2190	8.00	1.40	1.62	1.62	1.60	1.57	1.57
	2214	8.00	1.34	1.63	1.62	1.63	1.56	1.57

1.38

PACK NO. 83	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 25°C
MFR. G.E.	PERCENT OF RECHARGE: 125 %	ORBIT PERIOD: 3 HOURS
CAPACITY 12 A.H.		

	CYCLE NO.	PACK VOLTAGE	6.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	2044	5.63	6.00	1.17	1.14	1.11	1.12	1.09
	2078	5.67	6.03	1.16	1.14	1.12	1.13	1.09
	2110	5.71	5.99	1.16	1.14	1.13	1.14	1.11
	2142	5.70	6.01	1.16	1.14	1.13	1.13	1.11
	2173	5.91	6.11	1.19	1.18	1.17	1.17	1.18
	2232	5.78	6.09	1.17	1.15	1.14	1.14	1.15
	2256	5.76	6.12	1.17	1.15	1.14	1.14	1.14
END OF CHARGE	2044	7.09	1.50	1.42	1.41	1.41	1.41	1.40
	2098	7.09	1.51	1.42	1.40	1.40	1.40	1.40
	2110	7.10	1.50	1.42	1.41	1.41	1.41	1.40
	2142	7.11	1.51	1.42	1.41	1.41	1.40	1.40
	2173	7.06	1.52	1.41	1.40	1.41	1.40	1.40
	2232	7.12	1.52	1.42	1.41	1.42	1.41	1.41
	2256	7.12	1.53	1.42	1.41	1.41	1.41	1.40
			1.50					

PACK NO. 97	DEPTH OF DISCHARGE: 40 %	TEST TEMPERATURE: 25°C
MFR. G.E.	PERCENT OF RECHARGE: 125 %	ORBIT PERIOD: 3 HOURS
CAPACITY 12 A.H.	9.60	

END OF DISCHARGE	2034	5.11	9.47	1.01	1.05	.98	1.03	1.05
	2068	5.30	9.58	1.06	1.09	1.03	1.06	1.07
	2100	5.33	9.56	1.10	1.09	1.00	1.04	1.09
	2132	5.54	9.48	1.10	1.12	1.10	1.10	1.10
	2159	5.37	9.43	1.07	1.09	1.06	1.08	1.07
	2188	5.49	9.47	1.10	1.12	1.09	1.10	1.11
	2222	5.47	9.82	1.11	1.11	1.07	1.10	1.10
	2246	5.45	9.60	1.12	1.11	1.05	1.09	1.10
END OF CHARGE	2034	7.30	2.36	1.46	1.48	1.40	1.46	1.47
	2068	7.24	2.38	1.45	1.46	1.43	1.45	1.45
	2100	7.19	2.40	1.42	1.43	1.42	1.44	1.44
	2132	7.28	2.37	1.46	1.47	1.43	1.45	1.45
	2159	7.29	2.37	1.46	1.47	1.43	1.46	1.46
	2188	7.29	2.26	1.47	1.48	1.44	1.46	1.47
	2222	7.24	2.41	1.45	1.47	1.43	1.45	1.45
	2246	7.18	2.39	1.44	1.44	1.43	1.44	1.44
			2.40					

PACK NO. 86	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 40°C
MFR. G.E.	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD: 3 HOURS
CAPACITY 12 A.H.		

	CYCLE NO.	PACK VOLTAGE	3.60 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	1935	5.78	3.55	1.17	1.14	1.14	1.17	1.16
	1997	5.79	3.60	1.17	1.14	1.15	1.17	1.15
	2033	5.68	3.77	1.15	1.11	1.12	1.14	1.13
	2061	5.78	3.54	1.17	1.10	1.15	1.17	1.15
	2089	5.77	3.56	1.18	1.14	1.15	1.16	1.15
	2148	5.72	3.55	1.19	1.13	1.12	1.16	1.14
	2172	5.69	3.55	1.16	1.12	1.13	1.15	1.14
END OF CHARGE	1935	6.95	1.15	1.39	1.40	1.40	1.40	1.40
	1997	6.97	1.15	1.40	1.39	1.39	1.39	1.39
	2033	6.98	1.14	1.40	1.39	1.39	1.39	1.39
	2061	6.99	1.15	1.40	1.40	1.40	1.40	1.40
	2089	7.00	1.15	1.40	1.40	1.40	1.40	1.40
	2148	6.99	1.13	1.40	1.40	1.40	1.40	1.40
	2172	7.00	1.15	1.40	1.40	1.40	1.40	1.40

1.15

PACK NO. 100	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 40°C
MFR. G.E.	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD: 3 HOURS
CAPACITY 12 A.H.	6.00	

END OF DISCHARGE	1802	5.52	5.97	1.14	1.13	1.12	1.08	1.06
	1864	5.54	6.01	1.14	1.12	1.11	1.09	1.07
	1900	5.52	6.02	1.13	1.12	1.12	1.08	1.06
	1928	5.55	5.97	1.14	1.13	1.12	1.09	1.08
	1956	5.55	5.97	1.14	1.13	1.12	1.08	1.08
	2015	5.49	5.95	1.14	1.12	1.12	1.06	1.06
	2039	5.43	5.96	1.12	1.11	1.10	1.05	1.03
END OF CHARGE	1802	7.10	1.82	1.42	1.43	1.42	1.42	1.42
	1864	7.11	1.82	1.42	1.42	1.42	1.41	1.41
	1900	7.12	1.80	1.42	1.42	1.42	1.41	1.41
	1928	7.14	1.85	1.44	1.42	1.42	1.41	1.42
	1956	7.15	1.83	1.44	1.43	1.43	1.42	1.42
	2015	7.14	1.76	1.44	1.43	1.43	1.41	1.42
	2039	7.16	1.65	1.45	1.44	1.43	1.41	1.42

1.92

PACK NO. 73
MFR. GULTON
CAPACITY 20 A.H.

DEPTH OF DISCHARGE: 25 %
PERCENT OF RECHARGE: 125 %

TEST TEMPERATURE: 25°C
ORBIT PERIOD:
90 MINUTES

	CYCLE NO.	PACK VOLTAGE	10.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	3785	4.54	10.17	1.11	1.16	—	1.13	1.14
	3812	4.24	10.10	1.05	1.08	—	1.05	1.06
	3849	4.25	10.12	1.06	1.09	—	1.06	1.06
	3883	4.24	10.15	1.06	1.05	—	1.06	1.05
	3911	4.29	10.17	1.07	1.10	—	1.07	1.06
	3943	4.48	10.13	1.11	1.14	—	1.11	1.11
	3977	4.48	10.18	1.12	1.14	—	1.11	1.12
	4007	4.36	10.14	1.08	1.12	—	1.08	1.08
	4041	4.40	10.16	1.09	1.13	—	1.09	1.10
	4069	4.35	10.11	1.08	1.12	—	1.09	1.09
	4103	4.40	10.07	1.10	1.13	—	1.09	1.11
	4173	4.34	10.05	1.08	1.12	—	1.07	1.09
END OF CHARGE	3785	5.95	6.99	1.52	1.50	—	1.46	1.47
	3812	5.85	6.14	1.49	1.47	—	1.44	1.45
	3849	5.85	6.21	1.49	1.47	—	1.44	1.45
	3883	5.89	6.21	1.50	1.47	—	1.44	1.46
	3911	5.90	6.21	1.51	1.48	—	1.45	1.46
	3943	5.90	6.12	1.51	1.49	—	1.44	1.46
	3977	5.94	6.22	1.52	1.49	—	1.45	1.47
	4007	5.92	6.25	1.51	1.49	—	1.45	1.46
	4041	5.90	6.21	1.51	1.48	—	1.45	1.46
	4069	5.90	6.19	1.51	1.48	—	1.45	1.46
	4103	5.92	6.22	1.52	1.49	—	1.45	1.47
	4173	5.74	6.29	1.45	1.42	—	1.42	1.44

6.25

PACK NO. 76	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 40°C
MFR. GULTON	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD:
CAPACITY 20 A.H.		90 MINUTES

	CYCLE NO.	PACK VOLTAGE	6.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	3649	5.65	6.04	1.16	1.11	1.14	1.16	1.16
	3676	5.52	6.00	1.14	1.08	1.09	1.11	1.10
	3713	5.51	6.00	1.14	1.08	1.08	1.11	1.09
	3775	5.55	6.01	1.15	1.09	1.09	1.12	1.10
	3807	5.70	6.02	1.16	1.11	1.13	1.14	1.13
	3841	5.59	6.04	1.15	1.09	1.11	1.13	1.11
	3872	5.58	6.03	1.15	1.09	1.10	1.13	1.11
	3905	5.65	6.02	1.17	1.11	1.13	1.14	1.13
	3937	5.71	6.03	1.17	1.12	1.14	1.15	1.15
	3969	5.59	6.01	1.15	1.08	1.10	1.12	1.10
	4055	5.61	6.03	1.16	1.10	1.11	1.13	1.12
	4137	5.59	6.02	1.16	1.10	1.12	1.14	1.12
END OF CHARGE	3649	7.16	3.77	1.42	1.46	1.41	1.44	1.42
	3676	7.19	4.01	1.43	1.46	1.41	1.44	1.42
	3713	7.18	3.97	1.43	1.47	1.42	1.44	1.41
	3775	7.20	4.24	1.43	1.47	1.42	1.45	1.42
	3807	7.19	4.10	1.43	1.47	1.41	1.44	1.41
	3841	7.17	4.14	1.43	1.46	1.41	1.43	1.42
	3872	7.19	4.17	1.44	1.47	1.41	1.44	1.42
	3905	7.22	4.08	1.44	1.47	1.42	1.45	1.42
	3937	7.24	4.12	1.45	1.47	1.42	1.46	1.43
	3969	7.23	4.08	1.44	1.47	1.42	1.45	1.43
	4055	7.23	4.21	1.44	1.49	1.45	1.46	1.43
	4137	7.18	3.44	1.43	1.47	1.41	1.45	1.42

4.80

PACK NO. 90	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 40°C
MFR. GULTON	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD:
CAPACITY 20 A.H.		90 MINUTES

	CYCLE NO.	PACK VOLTAGE	10.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	3346	3.36	10.19	1.16	1.16	1.14	—	—
	3373	3.25	10.16	1.12	1.13	1.12	—	—
	3410	3.31	10.16	1.10	1.12	1.09	—	—
	3472	3.28	10.18	1.13	1.13	1.12	—	—
	3504	3.20	10.13	1.06	1.11	1.04	—	—
	3538	3.25	10.16	1.12	1.13	1.11	—	—
	3569	3.33	10.17	1.12	1.13	1.11	—	—
	3602	3.32	10.18	1.14	1.14	1.12	—	—
	3634	3.42	10.16	1.16	1.15	1.13	—	—
	3666	3.15	10.14	1.16	1.10	1.04	—	—
	3752	3.22	10.11	1.08	1.11	1.04	—	—
END OF CHARGE	3806	4.45	4.36	1.47	1.53	1.45	—	—
	3873	4.47	4.44	1.47	1.54	1.47	—	—
	3910	4.47	4.04	1.47	1.53	1.45	—	—
	3972	4.40	3.03	1.44	1.49	1.45	—	—
	4004	4.43	3.54	1.45	1.55	1.45	—	—
	4038	4.40	3.27	1.44	1.50	1.44	—	—
	4069	4.41	3.39	1.45	1.51	1.46	—	—
	4102	4.45	3.36	1.46	1.52	1.47	—	—
	4134	4.47	3.63	1.47	1.53	1.47	—	—
	4166	4.39	3.10	1.44	1.51	1.44	—	—
	4252	4.43	3.39	1.46	1.54	1.45	—	—

8.00

PACK NO. 102	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 0°C
MFR. GULTON	PERCENT OF RECHARGE: 115 %	ORBIT PERIOD: 3 HOURS
CAPACITY 20 A.H.		

	CYCLE NO.	PACK VOLTAGE	6.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	1752	4.87	5.96	1.22	—	1.22	1.23	1.22
	1726	4.92	5.99	1.23	—	1.22	1.23	1.23
	1716	4.91	5.97	1.23	—	1.23	1.23	1.22
	1752	4.92	6.01	1.23	—	1.23	1.23	1.22
	1777	4.91	6.01	1.23	—	1.23	1.23	1.22
	1837	4.97	6.03	1.24	—	1.25	1.25	1.24
	1857	4.92	5.99	1.23	—	1.23	1.23	1.23
	1988	4.90	5.95	1.23	—	1.23	1.23	1.22
END OF CHARGE	1752	5.98	1.78	1.50	—	1.51	1.47	1.52
	1786	6.21	1.32	1.57	—	1.58	1.50	1.57
	1816	6.24	1.07	1.57	—	1.58	1.51	1.57
	1850	6.16	1.09	1.53	—	1.51	1.47	1.53
	1977	6.17	1.16	1.57	—	1.53	1.49	1.55
	1907	6.17	1.20	1.58	—	1.55	1.50	1.56
	1957	6.19	1.19	1.56	—	1.56	1.51	1.57
	1928	6.11	1.06	1.54	—	1.54	1.49	1.54
			1.38					

PACK NO. 116	DEPTH OF DISCHARGE: 35 %	TEST TEMPERATURE: 0°C
MFR. GULTON	PERCENT OF RECHARGE: 115 %	ORBIT PERIOD: 3 HOURS
CAPACITY 20 A.H.	10.00	

END OF DISCHARGE	1609	5.89	10.02	1.20	1.19	1.15	1.19	1.17
	1633	5.96	10.23	1.20	1.20	1.16	1.20	1.18
	1673	5.91	9.97	1.18	1.18	1.15	1.18	1.16
	1707	5.93	9.92	1.22	1.19	1.14	1.20	1.16
	1734	5.91	9.99	1.20	1.19	1.15	1.20	1.18
	1764	6.02	9.94	1.21	1.21	1.17	1.21	1.20
	1814	5.92	9.93	1.20	1.19	1.15	1.19	1.17
	1845	5.89	9.91	1.17	1.19	1.14	1.19	1.17
END OF CHARGE	1609	7.75	1.69	1.56	1.57	1.54	1.54	1.53
	1643	7.89	1.75	1.57	1.57	1.57	1.57	1.57
	1673	7.94	1.75	1.57	1.60	1.57	1.57	1.59
	1707	7.85	1.60	1.57	1.58	1.54	1.53	1.51
	1734	7.90	1.75	1.57	1.58	1.57	1.57	1.55
	1764	7.89	1.71	1.57	1.58	1.57	1.57	1.57
	1814	7.84	1.77	1.57	1.58	1.57	1.57	1.56
	1845	7.82	1.71	1.57	1.60	1.57	1.57	1.54
			2.30					

PACK NO. 74	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 25°C
MFR. GULTON	PERCENT OF RECHARGE: 125 %	ORBIT PERIOD: 3 HOURS
CAPACITY 20 A.H.		

	CYCLE NO.	PACK VOLTAGE	10.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	1754	2.62	10.15	1.01	.45	—	—	1.08
END OF CHARGE	1754	4.36	2.40	1.42	1.03	—	—	1.46

2.50

PACK NO. 88	DEPTH OF DISCHARGE:	TEST TEMPERATURE:
MFR.	PERCENT OF RECHARGE:	ORBIT PERIOD: 3 HOURS
CAPACITY A.H.		

	CYCLE NO.	PACK VOLTAGE	10.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE								
END OF CHARGE								

PACK NO. 77	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 40°C
MFR. GULTON	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD: 3 HOURS
CAPACITY 20 A.H.		

	CYCLE NO.	PACK VOLTAGE	6.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	1844	5.43	5.89	1.09	1.09	1.06	1.08	1.15
	1840	5.50	5.87	1.10	1.09	1.07	1.09	1.15
	1872	5.51	5.87	1.11	1.09	1.07	1.09	1.14
	1904	5.50	5.88	1.10	1.09	1.06	1.09	1.14
	1931	5.48	5.85	1.10	1.07	1.05	1.09	1.14
	1965	5.60	5.94	1.13	1.11	1.10	1.11	1.16
	2019	5.54	5.92	1.12	1.10	1.08	1.10	1.15
	2043	5.50	5.85	1.11	1.09	1.07	1.09	1.14
END OF CHARGE	1844	7.02	1.93	1.41	1.42	1.42	1.41	1.42
	1840	7.01	1.93	1.41	1.40	1.40	1.41	1.41
	1872	7.01	1.93	1.41	1.39	1.39	1.40	1.40
	1904	7.03	1.93	1.41	1.40	1.39	1.40	1.40
	1931	7.04	1.94	1.42	1.40	1.40	1.42	1.41
	1965	7.05	1.94	1.42	1.41	1.40	1.41	1.42
	2019	7.05	1.94	1.42	1.41	1.40	1.41	1.42
	2043	7.04	1.94	1.42	1.41	1.41	1.41	1.42

1.92

PACK NO. 91	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 40°C
MFR. GULTON	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD: 3 HOURS
CAPACITY 20 A.H.		

END OF DISCHARGE	1719	5.06	10.02	1.07	1.07	1.07	1.05	1.07
	1753	5.22	10.09	1.07	1.07	1.07	1.05	1.01
	1787	5.30	10.07	1.07	1.07	1.07	1.07	1.05
	1815	5.32	10.07	1.07	1.07	1.07	1.07	1.04
	1844	5.25	10.02	1.07	1.07	1.07	1.07	1.02
	1872	5.43	10.02	1.07	1.07	1.10	1.10	1.07
	1932	5.32	10.03	1.07	1.07	1.07	1.07	1.05
	1956	4.77	10.00	1.00	.99	1.00	1.07	.96
END OF CHARGE	1719	7.17	2.32	1.42	1.42	1.45	1.45	1.42
	1753	7.17	2.44	1.42	1.42	1.42	1.42	1.42
	1787	7.15	2.36	1.42	1.42	1.42	1.45	1.42
	1815	7.18	2.37	1.42	1.42	1.42	1.45	1.42
	1844	7.20	2.37	1.42	1.42	1.42	1.46	1.42
	1872	7.22	2.37	1.42	1.42	1.42	1.46	1.42
	1932	7.23	2.60	1.42	1.44	1.45	1.47	1.43
	1956	7.12	2.15	1.42	1.42	1.42	1.45	1.42

2.30

PACK NO. 84	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 0°C
MFR. GOLIAD	PERCENT OF RECHARGE: 115 %	ORBIT PERIOD:
CAPACITY 20 A.H.		90 MINUTES

	CYCLE NO.	PACK VOLTAGE	6.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	3877	6.14	5.96	1.22	1.22	1.21	1.20	1.22
	3916	6.17	6.02	1.24	1.24	1.23	1.22	1.24
	3953	6.21	6.02	1.24	1.25	1.23	1.22	1.24
	3984	6.20	6.00	1.25	1.25	1.23	1.23	1.24
	4015	6.19	5.99	1.24	1.24	1.23	1.22	1.24
	4047	6.13	6.00	1.22	1.23	1.22	1.21	1.22
	4071	6.04	5.94	1.22	1.22	1.20	1.19	1.21
	4112	6.23	5.94	1.26	1.26	1.24	1.23	1.25
	4145	6.24	5.95	1.26	1.26	1.24	1.23	1.25
	4177	6.24	5.99	1.26	1.26	1.24	1.23	1.25
	4209	6.35	6.00	1.26	1.26	1.25	1.23	1.25
	4225	6.27	5.99	1.26	1.26	1.23	1.23	1.25
	4277	6.19	5.92	1.24	1.24	1.22	1.23	1.24
END OF CHARGE	3887	7.64	2.31	1.52	1.52	1.54	1.52	1.52
	3916	7.72	2.42	1.52	1.55	1.52	1.53	1.54
	3943	7.77	2.55	1.56	1.56	1.52	1.52	1.56
	3977	7.74	2.55	1.54	1.52	1.52	1.52	1.52
	4015	7.75	2.57	1.54	1.52	1.52	1.52	1.52
	4047	7.42	1.66	1.42	1.47	1.51	1.47	1.42
	4071	7.42	3.05	1.42	1.42	1.52	1.46	1.42
	4112	7.53	2.70	1.50	1.52	1.51	1.47	1.50
	4145	7.61	2.53	1.51	1.53	1.53	1.51	1.52
	4177	7.41	2.76	1.52	1.55	1.56	1.53	1.54
	4209	7.72	2.54	1.54	1.54	1.56	1.53	1.54
	4225	7.75	2.67	1.54	1.55	1.52	1.54	1.55
	4277	7.55	2.55	1.52	1.51	1.51	1.51	1.51

3.45

PACK NO. 98	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 0°C
MFR. GONARD	PERCENT OF RECHARGE: 115 %	ORBIT PERIOD:
CAPACITY 30 A.H.		90 MINUTES

	CYCLE NO.	PACK VOLTAGE	10.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	3723	4.53	9.93	1.19	1.19	1.15	1.21	---
	3723	4.63	9.64	1.19	1.22	1.19	1.24	---
	3750	4.40	9.95	1.19	1.19	1.15	1.20	---
	3757	4.41	9.91	1.19	1.19	1.15	1.21	---
	3757	4.57	9.73	1.19	1.19	1.15	1.21	---
	3757	4.40	9.90	1.18	1.18	1.06	1.15	---
	3757	4.60	9.85	1.18	1.18	1.11	1.23	---
	3759	4.61	9.85	1.18	1.22	1.17	1.23	---
	3759	4.61	9.95	1.18	1.22	1.18	1.23	---
	3759	4.51	9.97	1.18	1.22	1.18	1.23	---
	3759	4.58	10.08	1.18	1.21	1.17	1.22	---
	3759	4.59	10.00	1.18	1.21	1.17	1.22	---
END OF CHARGE	4117	4.47	9.90	1.15	1.20	1.15	1.21	---
	3746	6.44	5.15	1.44	1.52	1.50	1.53	---
	3723	6.26	3.34	1.43	1.52	1.55	1.56	---
	3760	6.18	4.24	1.53	1.57	1.59	1.52	---
	3725	6.33	4.80	1.69	1.51	1.56	1.56	---
	3722	5.93	4.40	1.56	1.52	1.51	1.56	---
	3754	6.00	5.74	1.60	1.57	1.57	1.47	---
	3755	6.22	4.12	1.67	1.57	1.57	1.57	---
	3719	6.17	4.67	1.65	1.55	1.55	1.53	---
	3752	6.29	4.18	1.66	1.55	1.55	1.56	---
	3754	6.31	4.19	1.65	1.55	1.55	1.56	---
	4016	6.39	4.30	1.65	1.55	1.55	1.57	---
	4110	6.32	4.51	1.64	1.55	1.57	1.56	---
	4174	6.02	4.45	1.52	1.55	1.55	1.50	---

5.15

PACK NO. 112	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 40°C
MFR. G-044.D	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD:
CAPACITY 20 A.H.		90 MINUTES

	CYCLE NO.	PACK VOLTAGE	6.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	3550	5.88	5.92	1.13	1.13	1.21	1.19	1.17
	3686	5.72	5.90	1.11	1.17	1.20	1.18	1.16
	3723	5.77	5.88	1.11	1.17	1.20	1.17	1.15
	3852	5.80	5.88	1.11	1.17	1.21	1.17	1.15
	3981	5.83	5.90	1.11	1.17	1.21	1.18	1.15
	4111	5.68	5.68	1.06	1.12	1.13	1.14	1.10
	4242	5.53	5.63	1.06	1.12	1.14	1.13	1.09
	4375	5.48	5.54	1.05	1.11	1.13	1.13	1.09
	4507	5.46	5.56	1.04	1.11	1.11	1.13	1.09
	4639	5.34	5.43	1.01	1.03	1.08	1.11	1.06
	4768	5.72	5.86	1.12	1.19	1.23	1.14	1.12
	4897	5.68	5.80	1.10	1.12	1.22	1.12	1.09
END OF CHARGE	5001	7.43	2.02	1.51	1.53	1.49	1.47	1.48
	5136	7.33	2.57	1.50	1.48	1.43	1.46	1.47
	5272	7.32	2.57	1.49	1.46	1.43	1.45	1.46
	5402	7.34	2.53	1.52	1.47	1.42	1.45	1.46
	5535	7.37	2.56	1.50	1.48	1.43	1.46	1.47
	5667	7.28	1.94	1.47	1.43	1.43	1.44	1.44
	5791	7.18	2.14	1.45	1.45	1.41	1.42	1.43
	5920	7.17	2.21	1.44	1.45	1.41	1.42	1.43
	6045	7.17	2.31	1.44	1.43	1.41	1.42	1.43
	6177	7.21	2.17	1.45	1.47	1.42	1.43	1.44
	6308	7.50	2.53	1.53	1.46	1.40	1.42	1.50
	6435	7.59	2.43	1.57	1.52	1.47	1.50	1.54
	6564	7.50	2.50	1.53	1.51	1.47	1.50	1.51

4.00

PACK NO. 80	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 0°C
MFR. G-0015	PERCENT OF RECHARGE: 115 %	ORBIT PERIOD: 3 HOURS
CAPACITY 120 A.H.		

	CYCLE NO.	PACK VOLTAGE	6.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	1933	6.13	6.09	1.23	1.23	1.20	1.25	1.24
	1934	6.17	6.07	1.24	1.24	1.21	1.25	1.24
	2014	6.17	6.08	1.24	1.24	1.20	1.24	1.24
	2015	6.16	6.10	1.24	1.24	1.20	1.24	1.24
	2154	6.17	6.10	1.24	1.24	1.20	1.24	1.24
	2155	6.17	6.11	1.24	1.24	1.20	1.24	1.24
	2156	6.13	6.08	1.23	1.23	1.20	1.24	1.23
	2157	6.13	6.08	1.23	1.23	1.20	1.24	1.23
END OF CHARGE	1933	7.66	1.99	1.51	1.51	1.55	1.52	1.54
	1934	7.15	1.32	1.52	1.52	1.51	1.55	1.56
	2014	7.01	1.28	1.54	1.54	1.52	1.54	1.55
	2015	7.75	1.19	1.51	1.52	1.50	1.54	1.55
	2025	7.77	1.29	1.52	1.53	1.53	1.53	1.54
	2125	7.79	1.30	1.50	1.52	1.52	1.54	1.56
	2155	7.70	1.29	1.53	1.53	1.52	1.54	1.56
	2156	7.69	1.11	1.52	1.55	1.51	1.52	1.57

PACK NO. 94	DEPTH OF DISCHARGE: 85 %	TEST TEMPERATURE: 0°C
MFR. G-0015	PERCENT OF RECHARGE: 115 %	ORBIT PERIOD: 3 HOURS
CAPACITY 80 A.H.		

END OF DISCHARGE	1831	6.00	10.24	1.17	1.19	1.17	1.21	1.19
	1855	6.11	10.01	1.23	1.21	1.21	1.22	1.25
	1915	6.02	10.05	1.21	1.19	1.17	1.21	1.20
	1916	6.03	10.15	1.22	1.20	1.17	1.21	1.21
	1946	6.11	10.10	1.23	1.22	1.22	1.23	1.20
	1947	5.99	10.11	1.21	1.17	1.17	1.20	1.19
	2059	5.94	10.07	1.20	1.18	1.18	1.20	1.19
	2059	5.94	10.07	1.20	1.18	1.18	1.20	1.19
END OF CHARGE	1831	7.60	1.32	1.47	1.47	1.47	1.51	1.52
	1855	7.65	1.65	1.47	1.47	1.47	1.51	1.61
	1915	7.72	1.42	1.47	1.49	1.52	1.56	1.57
	1916	7.70	1.54	1.47	1.47	1.52	1.55	1.57
	1946	7.71	1.57	1.47	1.47	1.52	1.55	1.57
	1947	7.61	1.73	1.47	1.47	1.52	1.53	1.55
	2026	7.66	1.81	1.47	1.47	1.52	1.54	1.56
	2059	7.53	1.70	1.47	1.47	1.52	1.51	1.53

PACK NO. 105	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 25°C
MFR. GOULD	PERCENT OF RECHARGE: 125 %	ORBIT PERIOD: 3 HOURS
CAPACITY 20 A.H.		

	CYCLE NO.	PACK VOLTAGE	10.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	1925	5.91	9.98	1.14	1.18	1.20	1.20	1.20
	1929	5.93	9.98	1.16	1.19	1.20	1.20	1.20
	1961	5.90	10.07	1.15	1.18	1.19	1.20	1.19
	1993	5.90	10.08	1.15	1.18	1.19	1.19	1.18
	2020	5.91	9.95	1.16	1.18	1.19	1.20	1.19
	2049	5.92	10.12	1.16	1.19	1.19	1.20	1.19
	2102	5.90	9.97	1.15	1.18	1.19	1.20	1.19
	2132	5.86	10.22	1.15	1.17	1.19	1.19	1.18
END OF CHARGE	1758	7.25	2.49	1.48	1.44	1.44	1.44	1.45
	1822	7.23	2.32	1.47	1.44	1.44	1.43	1.45
	1851	7.23	2.07	1.47	1.44	1.44	1.44	1.45
	1923	7.22	2.11	1.44	1.44	1.44	1.44	1.45
	2022	7.24	2.42	1.47	1.44	1.44	1.43	1.44
	2047	7.26	2.49	1.47	1.45	1.45	1.44	1.46
	2102	7.27	2.47	1.47	1.45	1.45	1.44	1.45
	2132	7.23	2.42	1.48	1.45	1.45	1.45	1.45

2.50

PACK NO. 119	DEPTH OF DISCHARGE: 40 %	TEST TEMPERATURE: 25°C
MFR. GOULD	PERCENT OF RECHARGE: 125 %	ORBIT PERIOD: 3 HOURS
CAPACITY 20 A.H.	16.00	

END OF DISCHARGE	1923	1.67	15.72	1.01	1.02	1.02	---
END OF CHARGE	1553	5.15	4.04	1.00	1.02	1.02	---

4.00

PACK NO. 108	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 40°C
MFR. GOULD	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD: 3 HOURS
CAPACITY A.H.		

	CYCLE NO.	PACK VOLTAGE	6.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	1780	6.03	6.08	1.20	1.20	1.20	1.20	1.22
	1814	6.01	6.08	1.22	1.23	1.20	1.20	1.21
	1844	6.02	6.07	1.20	1.20	1.20	1.19	1.21
	1878	6.04	6.09	1.21	1.20	1.20	1.20	1.21
	1905	6.00	6.07	1.20	1.19	1.20	1.19	1.21
	1935	6.13	6.09	1.23	1.22	1.23	1.22	1.23
	1975	6.03	6.08	1.21	1.20	1.20	1.19	1.22
	2016	6.01	6.08	1.20	1.20	1.21	1.19	1.21
END OF CHARGE	1780	7.14	1.79	1.42	1.42	1.41	1.44	1.42
	1814	7.13	1.92	1.42	1.42	1.41	1.43	1.42
	1844	7.12	1.81	1.43	1.43	1.41	1.43	1.42
	1878	7.16	1.72	1.42	1.42	1.41	1.44	1.42
	1905	7.08	1.74	1.40	1.41	1.42	1.41	1.40
	1935	7.16	1.93	1.42	1.42	1.42	1.44	1.43
	1975	7.17	1.93	1.43	1.42	1.42	1.44	1.43
	2016	7.16	1.93	1.43	1.42	1.42	1.44	1.43

1.92

PACK NO. 122	DEPTH OF DISCHARGE:	TEST TEMPERATURE:
MFR.	PERCENT OF RECHARGE:	ORBIT PERIOD: 3 HOURS
CAPACITY A.H.		

END OF DISCHARGE								
END OF CHARGE								

PAGE NO. 93	DEPTH OF DISCHARGE: 50 %	TEST TEMPERATURE: 40°C
MFR. G.E.	PERCENT OF RECHARGE: 200 %	ORBIT PERIOD:
CAPACITY 12 A.H.		2.4 HOURS

END OF DISCHARGE

CYCLE NO.	PAC	VOLTAGE	CURRENT	CELL VOLTAGES				
				1	2	3	4	5
184	4.98	5.94		.97	.97	.97	1.00	1.00
196	4.35	5.23		.98	.85	.90	.89	.94
207	3.77	4.87		.95	.75	.57	.71	.80

END OF CHARGE

184	6.91	.51	1.37	1.39	1.27	1.36	1.39
196	6.90	.52	1.38	1.38	1.35	1.38	1.38
207	6.89	.52	1.38	1.39	1.32	1.37	1.39

.5122

PACK NO. 89
MFR. DELCO
CAPACITY 25 A.H.

DEPTH OF DISCHARGE: 40 %
PERCENT OF RECHARGE:

TEST TEMPERATURE: 25°C
ORBIT PERIOD:
24 HRS

[illegible]

1500

82

PACK NO. <u>95</u>	DEPTH OF DISCHARGE: <u>25 %</u>	TEST TEMPERATURE: <u>0°C</u>
MFR. <u>GULTON</u>	PERCENT OF RECHARGE: <u>115 %</u>	ORBIT PERIOD:
CAPACITY <u>50 A.H.</u>		<u>90 MINUTES</u>

	CYCLE NO.	PACK VOLTAGE	25.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	1655	6.14	24.47	1.18	1.23	1.18	1.18	1.21
	1679	6.00	24.62	1.20	1.21	1.20	1.20	1.20
	1716	5.95	24.97	1.19	1.22	1.19	1.19	1.18
	1779	6.42	25.19	1.19	1.20	1.19	1.20	1.20
	1816	5.99	24.67	1.19	1.21	1.19	1.19	1.20
	1846	5.94	24.94	1.20	1.19	1.17	1.18	1.19
	1879	5.95	24.85	1.19	1.20	1.17	1.17	1.18
	1913	5.89	24.97	1.19	1.20	1.16	1.17	1.19
	1944	5.93	24.97	1.19	1.20	1.16	1.16	1.19
	2146	5.95	24.88	1.19	1.20	1.17	1.18	1.22
END OF CHARGE	1655	8.05	10.32	1.70	1.64	1.60	1.60	1.46
	1679	7.99	10.84	1.69	1.64	1.59	1.60	1.46
	1716	7.99	12.12	1.71	1.66	1.54	1.59	1.46
	1779	7.90	13.36	1.70	1.66	1.48	1.57	1.46
	1810	7.92	13.24	1.70	1.66	1.51	1.55	1.47
	1846	7.87	13.87	1.71	1.67	1.48	1.54	1.46
	1879	7.82	13.89	1.71	1.67	1.46	1.53	1.46
	1913	7.76	14.01	1.71	1.67	1.45	1.47	1.49
	1944	7.71	13.99	1.71	1.67	1.43	1.44	1.48
	2146	7.73	12.94	1.69	1.64	1.43	1.43	1.55

14.83

PACK NO. 123	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 40°C
MFR. GULTON	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD:
CAPACITY 50 A.H.		90 MINUTES

	CYCLE NO.	PACK VOLTAGE	15.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	1389	5.42	14.96	1.12	1.07	1.06	.94	1.17
	1414	5.59	15.01	1.15	1.12	1.07	1.05	1.19
	1451	5.39	15.12	1.13	1.09	1.01	.88	1.12
	1516	5.39	15.08	1.13	1.15	1.12	1.21	1.20
	1550	5.70	14.85	1.17	1.12	1.12	1.18	1.20
	1581	5.78	14.68	1.15	1.11	1.16	1.11	1.20
	1723	5.21	14.78	1.14	1.15	1.16	1.15	1.19
END OF CHARGE	1389	7.07	12.11	1.41	1.40	1.41	1.39	1.43
	1414	7.05	12.16	1.41	1.41	1.41	1.38	1.44
	1451	7.11	12.10	1.41	1.41	1.41	1.40	1.45
	1516	7.04	12.37	1.40	1.39	1.42	1.39	1.41
	1550	7.04	12.12	1.40	1.40	1.42	1.39	1.42
	1581	7.03	9.75	1.40	1.40	1.41	1.39	1.42
	1723	7.06	10.87	1.41	1.41	1.44	1.39	1.41

12.00

PACK NO. 204	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 25°C
MFR. GULTON COMM.	PERCENT OF RECHARGE: 125 %	ORBIT PERIOD:
CAPACITY 4 A.H.		90 MINUTES

	CYCLE NO.	PACK VOLTAGE	2.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	925	5.87	1.99	1.18	1.05	1.20	1.21	1.20
	949	5.98	2.01	1.19	1.18	1.20	1.20	1.20
	985	5.89	2.00	1.17	1.16	1.17	1.18	1.18
	1018	5.90	2.01	1.17	1.16	1.17	1.17	1.17
	1050	5.89	2.00	1.17	1.17	1.17	1.18	1.19
	1116	5.87	2.00	1.16	1.16	1.17	1.18	1.18
	1149	5.84	2.00	1.16	1.15	1.17	1.17	1.17
	1183	5.86	2.00	1.16	1.16	1.17	1.18	1.18
	1214	5.85	2.00	1.16	1.16	1.17	1.18	1.18
	1415	5.82	2.00	1.15	1.15	1.17	1.18	1.18
END OF CHARGE	925	7.17	1.25	1.43	1.43	1.42	1.42	1.46
	949	7.20	1.28	1.44	1.44	1.43	1.44	1.46
	986	7.17	1.25	1.43	1.43	1.42	1.43	1.45
	1048	7.23	1.26	1.45	1.45	1.43	1.44	1.46
	1080	7.22	1.26	1.44	1.44	1.43	1.43	1.45
	1116	7.21	1.26	1.44	1.44	1.43	1.43	1.45
	1149	7.20	1.26	1.44	1.44	1.43	1.43	1.45
	1183	7.22	1.26	1.45	1.45	1.43	1.44	1.46
	1214	7.21	1.20	1.45	1.45	1.44	1.44	1.46
	1415	7.20	1.09	1.44	1.44	1.44	1.44	1.45

1.25

90.

PACK NO. 214
MFR. GULTON COMM.
CAPACITY 4 A.H.

DEPTH OF DISCHARGE: 40 %
PERCENT OF RECHARGE: 125 %

TEST TEMPERATURE: 25°C
ORBIT PERIOD:
90 MINUTES

	CYCLE NO.	PACK VOLTAGE	3.20 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	918	5.74	3.21	1.13	1.14	1.13	1.14	1.15
	945	5.55	3.22	1.11	1.11	1.09	1.10	1.13
	982	5.52	3.23	1.11	1.11	1.09	1.10	1.12
	1017	5.44	3.21	1.10	1.08	1.05	1.08	1.11
	1044	5.60	3.21	1.13	1.12	1.10	1.11	1.13
	1076	5.84	3.18	1.16	1.17	1.16	1.16	1.16
	1110	5.68	3.14	1.14	1.14	1.11	1.13	1.14
	1141	5.59	3.15	1.12	1.12	1.09	1.11	1.13
	1174	5.71	3.14	1.15	1.14	1.13	1.14	1.15
	1206	5.42	3.16	1.10	1.09	1.05	1.08	1.11
	1238	5.50	3.16	1.11	1.10	1.08	1.09	1.12
	1324	5.62	3.16	1.13	1.13	1.11	1.12	1.14
	1406	5.66	3.20	1.13	1.13	1.12	1.12	1.14
END OF CHARGE	918	7.26	2.01	1.46	1.44	1.45	1.44	1.46
	945	7.18	2.04	1.44	1.43	1.43	1.43	1.44
	982	7.25	2.00	1.46	1.44	1.45	1.44	1.46
	1017	7.29	2.00	1.47	1.45	1.46	1.45	1.46
	1044	7.32	1.99	1.49	1.45	1.46	1.45	1.47
	1076	7.31	1.98	1.48	1.45	1.46	1.45	1.46
	1110	7.33	1.98	1.48	1.45	1.46	1.45	1.47
	1141	7.32	1.98	1.47	1.45	1.46	1.45	1.47
	1174	7.31	2.00	1.47	1.45	1.46	1.45	1.47
	1206	7.30	2.03	1.48	1.45	1.46	1.45	1.47
	1238	7.32	2.02	1.48	1.45	1.46	1.45	1.47
	1324	7.32	2.03	1.47	1.45	1.46	1.45	1.47
	1406	7.29	1.94	1.47	1.40	1.46	1.45	1.47

2.00

PACK NO. 228
MFR. GULTON COMM.
CAPACITY 4 A.H.

DEPTH OF DISCHARGE: 15 %
PERCENT OF RECHARGE: 160 %

TEST TEMPERATURE: 40°C
ORBIT PERIOD:
90 MINUTES

	CYCLE NO.	PACK VOLTAGE	1.20 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	925	5.91	1.22	1.21	1.14	1.20	1.18	1.21
	949	5.96	1.22	1.20	1.19	1.19	1.17	1.20
	986	5.96	1.21	1.20	1.20	1.19	1.17	1.19
	1048	5.94	1.19	1.20	1.19	1.19	1.16	1.19
	1080	6.01	1.20	1.21	1.20	1.20	1.18	1.20
	1116	5.96	1.19	1.20	1.19	1.19	1.16	1.19
	1149	5.94	1.19	1.20	1.19	1.19	1.16	1.19
	1183	5.94	1.19	1.20	1.20	1.19	1.16	1.19
	1214	5.94	1.19	1.20	1.20	1.19	1.16	1.19
	1414	5.95	1.20	1.20	1.20	1.19	1.16	1.19
END OF CHARGE	925	7.02	.93	1.40	1.40	1.40	1.40	1.41
	949	7.03	.96	1.41	1.40	1.41	1.41	1.41
	986	7.04	.97	1.41	1.40	1.41	1.41	1.41
	1048	7.04	.97	1.41	1.40	1.40	1.41	1.41
	1080	7.04	.97	1.41	1.40	1.40	1.40	1.40
	1116	7.05	.97	1.41	1.40	1.40	1.40	1.40
	1149	7.06	.98	1.41	1.41	1.41	1.41	1.41
	1183	7.06	.97	1.42	1.41	1.41	1.41	1.41
	1214	7.08	.97	1.42	1.42	1.41	1.42	1.42
	1414	7.05	.98	1.41	1.41	1.41	1.41	1.41

860

92.

PACK NO. 240	DEPTH OF DISCHARGE: 25 %	TEST TEMPERATURE: 40°C
MFR. GILTON COMM.	PERCENT OF RECHARGE: 160 %	ORBIT PERIOD:
CAPACITY 4 A.H.		90 MINUTES

END OF DISCHARGE	CYCLE NO.	PACK VOLTAGE	2.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
	925	5.55	1.99	1.12	1.03	1.14	1.13	1.12
	949	5.75	2.00	1.14	1.15	1.15	1.15	1.15
	976	5.64	2.02	1.12	1.13	1.13	1.12	1.12
	1048	5.55	1.98	1.10	1.11	1.11	1.10	1.10
	1080	5.76	2.00	1.15	1.15	1.15	1.15	1.14
	1116	5.61	2.00	1.11	1.12	1.12	1.12	1.11
	1149	5.56	1.99	1.10	1.12	1.12	1.11	1.10
	1183	5.60	1.98	1.11	1.13	1.12	1.12	1.11
	1214	5.59	1.98	1.11	1.13	1.12	1.11	1.12
	1414	5.59	2.01	1.11	1.13	1.12	1.12	1.11

END OF CHARGE	CYCLE NO.	PACK VOLTAGE	2.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
	925	7.18	1.26	1.42	1.41	1.42	1.41	1.42
	949	7.13	1.50	1.43	1.42	1.43	1.42	1.43
	976	7.12	1.42	1.42	1.42	1.42	1.41	1.42
	1048	7.15	1.52	1.44	1.42	1.43	1.42	1.43
	1080	7.13	1.56	1.42	1.42	1.43	1.41	1.42
	1116	7.16	1.63	1.44	1.42	1.43	1.42	1.43
	1149	7.16	1.53	1.42	1.42	1.42	1.42	1.43
	1183	7.17	1.52	1.44	1.43	1.42	1.42	1.44
	1214	7.19	1.56	1.45	1.43	1.44	1.42	1.44
	1414	7.16	1.62	1.44	1.43	1.42	1.42	1.44

1.60

PACK NO. 315	DEPTH OF DISCHARGE: 15 %	TEST TEMPERATURE: 0°C
MFR. GULTON COMM.	PERCENT OF RECHARGE:	ORBIT PERIOD:
CAPACITY 4 A.H.	115 %	90 MINUTES

END OF DISCHARGE	CYCLE NO.	PACK VOLTAGE	1.20 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
	1069	6.10	1.20	1.22	1.22	1.21	1.21	1.21
	1097	6.10	1.20	1.22	1.22	1.21	1.21	1.21
	1133	6.10	1.20	1.22	1.21	1.21	1.21	1.20
	1167	6.09	1.20	1.21	1.21	1.21	1.21	1.21
	1195	6.09	1.20	1.21	1.21	1.21	1.21	1.21
	1227	6.11	1.19	1.22	1.22	1.21	1.21	1.21
	1261	6.12	1.19	1.22	1.22	1.22	1.22	1.21
	1291	6.11	1.19	1.22	1.22	1.22	1.22	1.22
END OF CHARGE	1325	6.12	1.19	1.22	1.22	1.22	1.21	1.21
	1353	6.11	1.19	1.22	1.22	1.22	1.22	1.22
	1387	6.12	1.20	1.22	1.22	1.22	1.21	1.21
	1457	6.11	1.20	1.22	1.22	1.22	1.21	1.21
	1555	6.07	1.20	1.22	1.22	1.22	1.21	1.21

END OF DISCHARGE	1069	7.64	.51	1.52	1.52	1.51	1.52	1.52
	1097	7.64	.49	1.52	1.52	1.51	1.52	1.52
	1133	7.65	.51	1.52	1.53	1.52	1.52	1.52
	1167	7.66	.51	1.52	1.53	1.52	1.53	1.53
	1195	7.78	.53	1.52	1.53	1.52	1.53	1.53
	1227	7.69	.64	1.52	1.54	1.52	1.53	1.53
	1261	7.71	.64	1.53	1.54	1.53	1.54	1.54
	1291	7.71	.64	1.54	1.55	1.54	1.54	1.54
	1325	7.70	.62	1.54	1.54	1.53	1.53	1.54
	1353	7.63	.65	1.53	1.53	1.52	1.53	1.53
END OF CHARGE	1387	7.72	.64	1.54	1.55	1.53	1.53	1.54
	1457	7.37	.69	1.47	1.48	1.47	1.47	1.46
	1555	7.63	.52	1.52	1.54	1.53	1.53	1.53

.696

PACK NO. 326
MFR. GULFON COMM.
CAPACITY 22 A.H.

DEPTH OF DISCHARGE: 25 %
PERCENT OF RECHARGE: 115 %

TEST TEMPERATURE: 0°C
ORBIT PERIOD:
90 MINUTES

	CYCLE NO.	PACK VOLTAGE	2.00 CURRENT	CELL VOLTAGES				
				1	2	3	4	5
END OF DISCHARGE	1071	5.96	1.99	1.19	1.19	1.19	1.19	1.19
	1098	5.95	2.00	1.19	1.19	1.19	1.19	1.19
	1125	5.93	2.00	1.18	1.18	1.18	1.18	1.18
	1170	5.95	1.99	1.19	1.19	1.19	1.19	1.18
	1197	5.94	2.00	1.19	1.18	1.18	1.18	1.18
	1229	5.96	2.01	1.19	1.19	1.19	1.18	1.19
	1263	5.91	1.99	1.18	1.19	1.18	1.18	1.18
	1292	5.92	1.98	1.18	1.18	1.18	1.19	1.18
	1327	5.95	1.98	1.17	1.19	1.19	1.18	1.19
	1359	5.93	1.99	1.20	1.20	1.19	1.19	1.19
	1391	5.92	2.00	1.18	1.19	1.18	1.17	1.17
	1427	5.94	1.99	1.19	1.19	1.19	1.18	1.19
	1559	5.90	2.00	1.18	1.18	1.17	1.18	1.17
END OF CHARGE	1071	7.80	1.11	1.55	1.54	1.54	1.56	1.54
	1098	7.80	1.10	1.56	1.54	1.56	1.57	1.55
	1125	7.83	1.14	1.56	1.55	1.56	1.57	1.55
	1170	7.84	1.15	1.54	1.55	1.56	1.57	1.56
	1197	7.76	.97	1.55	1.53	1.56	1.55	1.55
	1229	7.68	.77	1.52	1.52	1.54	1.54	1.53
	1263	7.68	.80	1.53	1.52	1.54	1.54	1.52
	1292	7.57	.97	1.52	1.50	1.52	1.52	1.51
	1327	7.57	.97	1.52	1.50	1.52	1.52	1.51
	1359	7.71	.81	1.53	1.53	1.53	1.55	1.54
	1391	7.71	.81	1.54	1.52	1.54	1.54	1.53
	1427	7.74	.85	1.55	1.53	1.55	1.55	1.54
	1559	7.63	.71	1.53	1.50	1.52	1.52	1.51

1.15

72.