

U. S. NAVAL AMMUNITION DEPOT
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To: NASA-Goddard Space Flight Center, Electrochemical Power Sources
Section (636.2), Space Power Technology Branch, Greenbelt,
Maryland 20771

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tration Space Cell Test Program; submission of

Encl: (1) Monthly Progress Report as of 31 December 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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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. Depth 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. Capacity Tests:

a. Prior to cycling, each pack was given a capacity test at its respective cycling temperature. This check consisted of 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 30 through 33.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 3.0 Ampere-Hour</u> 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	779	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.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 3.0 Ampere-Hour</u> FAILURE ANALYSIS
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.
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 Overheating From Poor Tab Weld.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 3.0 Ampere-Hour</u> FAILURE ANALYSIS
44	25%	3.0	40°	222	6	1672	Showed Open Circuit at Start of Cycle, Pos Tab Broken, Burned Tape on Tab Caused By Overheating From Poor Tab Weld.

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> FAILURE ANALYSIS
3	25%	1.5	25°	73	5	2785	Low Volt Disch, High Volt Chg, Short Near Center of Core, Piece of Pos Plate Material Between Plates Causing Short Through Separator.
			25°	54	2	3090	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.7 gm, Weak Weld on Neg Tab to Plate.
			25°	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.
			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.
			25°	97	7	4401	Low Volt Disch, Normal Volt Chg, Leaked Around Glass Seal, Lost 2.5 gm, Separator Deteriorated, Neg Plate Material Penetrated Separator.
			25°	77	4	4751	Low Volt Disch, Normal Volt Chg, Separator Deteriorated, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates.
			25°	188	10	4751	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.1 gm, Neg Plate Material on Separator.
4	40%	1.5	25°	81	7	1609	Low Volt Disch, Normal Volt Chg, Leaked, Lost 3.2 gm, High Pres Bulge Top.
			25°	90	8	1827	Low Volt Disch, Low Volt Chg, Leaked, Lost 2.7 gm, High Pres Bulge Top.
			25°	2	1	2110	Low Volt Disch, Low Volt Chg, Separator Deteriorated at Center of Core, Under Pressure When Opened.

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> FAILURE ANALYSIS
4	40%	1.5	25°	43	6	2954	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.3 gm, Plate Material on Separator.
			25°	27	3	3029	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Separator Deteriorated.
			25°	198	10	3164	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.6 gm, Separator Deteriorated, Pos Plate Material Between Plates.
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	1704	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.
			25°	41	2	*2494	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 1.7 gm, Separator Deteriorated, Neg Plate Material Impregnated Separator, One Bad Weld Neg Tab to Plate.
			25°	130	9	*2494	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 2.1 gm, Separator Deteriorated, Pos and Neg Plate Material Impregnated Separator.

* FAILED DURING THIS REPORTING PERIOD

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> FAILURE ANALYSIS
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.
			40°	11	2	4885	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Separator Deteriorated, Separator Impregnated with Neg Plate Material.
28	25%	1.5	50°	122	2	408	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.8 gm, Weak Bottom Weld Suspicious Spot but not Definite.
			40°	157	7	484	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.0 gm, High Pres Bulge.
			40°	158	8	484	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.9 gm, High Pres Bulge Top.
			40°	141	5	860	Low Volt Disch, High Volt Chg, Leaked, Lost 3.5 gm.
			40°	168	10	1293	Low Volt Disch, High Volt Chg, Weak Weld to Bottom of Case.

PLATE NUMBER	PERCENT OF DISCHARGE	OPENING PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 3.5 Ampere-Hour</u> FAILURE ANALYSIS
28	25%	1.5	40°	121	1	1811	Low Volt Disch, Low Volt Chg, Short at Outside End of Plates, Grid Wire Penetrated Separator.
			40°	133	3	1811	Low Volt Disch, High Volt Chg, Weak Weld on Pos Tab to Case.
			40°	140	4	1811	Low Volt Disch, Low Volt Chg, Short Around Pos Tab, Blistering on Pos Plate, Active Neg Plate Material on Separator.
			40°	155	6	1811	Low Volt Disch, Low Volt Chg, Short Through Separator, Weak Weld to Bottom of Case.
			40°	163	9	1811	Low Volt Disch, Low Volt Chg, Short Through Separator, Weak Weld to Bottom of Case, Deposit on Glass Seal.
31	15%	3.0	40°	R166	9	1500	Low Volt Disch, Low Volt Chg, Leaked, Lost 7.1 gm, Separator Deteriorated.
			40°	R179	10	1500	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.5 gm, Short Through Separator, Separator Deteriorated, One Weak Tab.
			40°	R92	2	1696	Low Volt Disch, High Volt Chg, Pieces of Plate Material Shorted Through Separator, Separator Deteriorated.
			40°	126	3	*2411	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 2.1 gm, Short Through Separator by Piece of Pos Plate Material Between Plates, Separator Deteriorated, Neg Plate Material Impregnated Separator, Tab to Plate Weld Poor.
			40°	R162	8	*2477	Low Volt Disch, High Volt Chg, Leaked Around Glass Seal, Lost 2.4 gm, Separator Deteriorated, Neg Plate Material Impregnated Separator, Pinpoint Penetration, Poor Weld Pos Tab to Case.

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> FAILURE ANALYSIS
32	25%	3.0	40°	125	6	138	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 Pres, Neg Tabs Pushed Out of Cell, Short at Center and Outside Edge of Core.
			40°	149	9	974	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.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Sonotone 5.0 Ampere-Hour</u> 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 Pres 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 Through Plates, Neg Tab Welds Poor, Separator Beginning to Deteriorate.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Sonotone 5.0 Ampere-Hour</u> FAILURE ANALYSIS
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.
26	25%	1.5	40°	4323	1	2487	Grid Wire Penetrated Separator at Tabs.
			40°	6773	9	2902	Shorted on Cycling, Slight Burn Adjacent to Neg Tab, Separator Deteriorated, Neg Plate Material Penetrated Separator, Tab Welds Weak.
			40°	7224	6	2993	Low Volt Disch, Normal Volt Chg, High Pres Bulge, Deposit Around Seal, Neg Tab Weld Weak, Neg Plate Material Penetrated Separator.
			40°	7232	7	2993	Low Volt Disch, Normal Volt Chg, High Pres Bulge, Deposit Around Seal, Pos Tab Weld Weak, Plate Broken at Pos Tab, Deep Pressure Points From Scoring, Separator Completely Deteriorated.
			40°	4881	3	3344	Shorted on Cycling, Complete Short From Deep Scoring, Plate Shorted Through Outer Wrap.
			40°	4240	4	3625	Low Volt Disch, Low Volt Chg, Separator Deteriorated, Plate Material Penetrated Separator.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Sonotone 5.0 Ampere Hour</u> FAILURE ANALYSIS
29	15%	3.0	40°	3626	1	1418	Shorted on Cycling, Neg. Tab Welds Poor, Active Plate Material Penetrated Separator at Scoring Marks.
30	25%	3.0	40°	3657	7	855	Hole in Separator Allowing Pos Plate to Hit Case, Separator Damaged at Center of Cell Allowing Pos and Neg Plate to Short Together.
49	15%	1.5	0°	6887	9	2010	Low Volt Disch, Low Volt Chg, Burn on Separator Opposite Pos Tab.

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
13	25%	1.5	25°	2305	1	308	Low Volt Disch, High Volt Chg, Lost 12 gm, CO ₃ Top Ceramic, High Pres Bulge.
			25°	2355	10	502	Low Volt Disch, High Volt Chg, Lost 10 gm, High Pres Bulge.
			25°	3134	5	2969	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates.
			25°	3211	7	3084	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates.
			25°	2613	4	3598	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plate, Separator Deteriorated.
			25°	2324	2	4021	Low Volt Disch, Low Volt Chg, Ceramic Short, Separator Deteriorated, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates, High Pres Bulge.
14	40%	1.5	25°	1623	4	262	Low Volt Disch, High Volt Chg, Lost 12 gm, High Pres Bulge.
			25°	1635	5	262	Voltage Fell Off During Charge, Went Flat in 3 Min. on Disch, Lost 6 gm, Concave Wall, High Pres. Bulge, Ceramic Broken Inside Case, CO ₃ on Outside of Ceramic, Pos Terminal Loose.
			25°	2356	1	450	Low Volt Disch, High Volt Chg, Lost 12 gm, High Pres.
			25°	2387	2	1113	Low Volt Disch, High Volt Chg, Ceramic Short.
			25°	2391	3	1618	Low Volt Disch, Low Volt Chg, Ceramic Short.
			25°	3208	7	2086	Low Volt Disch, Normal 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
17	25%	3.0	25°	1862	5	721	Low Volt Disch, High Volt Chg, Ceramic Short.
			25°	1823	3	721	Low Volt Disch, High Volt Chg, High Pres Bulge, Burnt Spot on Neg Plate Near Bottom Second From End, Ceramic Short.
			25°	2348	10	1688	Low Volt Disch, Low Volt Chg, Ceramic Short.
			25°	1757	1	2375	Low Volt Disch, Low Volt Chg, Ceramic Short, Deposit Around Ceramic Seal, High Pres Bulge.
			25°	1598	2	*2449	Low Volt Disch, Low Volt Chg, Pinpoint Penetration of Separator, Blistering on Pos Plate, High Pres Bulge.
18	40%	3.0	25°	1826	6	365	Low Volt Disch, Chg Volt Normal, Lost 3 gm, Concave Wall, Ceramic Short.
			25°	1615	3	608	Low Volt Disch, Normal Volt Chg, Deposit on Top of Pos Terminal, Lost 5.1 gm, High Pres Bulge.
			25°	1827	7	643	Low Volt Disch, High Volt Chg, High Pres Bulge, Ceramic Short.
			25°	2228	9	643	Low Volt Disch, High Volt Chg, Ceramic Short.
			25°	1562	5	1145	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates.
			25°	1233	1	1550	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plate, Neg Plate Material on Separator.

PACK NUMBER	DEPTH OF DISCHARGE	OPEN PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 6.0 Ampere-Hour</u> FAILURE ANALYSIS
37	15%	1.5	50°	1764	3	238	Low Volt Disch, Volt Did Not Increase on Following Chg, (1.00 V) Lost 4 gm, Ceramic Short.
			40°	1784	8	1566	Low Volt Disch, Low Volt Chg, Lost 10.5 gm, Ceramic Short.
			40°	1802	4	2819	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plate.
			40°	2333	10	2981	Low Volt Disch, Normal Volt Chg, Ceramic Short, Blistering on Pos Plates.
38	25%	1.5	50°	1454	8	37	No Volt on Chg or Disch, Ceramic Short.
			50°	1815	6	114	Volt Fell Off During Disch, Chg Volt Slightly Low, Lost 3.5 gm, Ceramic Short.
			40°	1853	9	187	Rev on Disch, Chg Volt Normal, Lost 4 gm, Deposits Around Pos Terminal (Outside), Ceramic Short.
			40°	1627	3	225	Low Volt Disch, High Volt Chg on Cycle 219, Dead on 225, Lost 3.5 gm.
			40°	2405	5	1333	Low Volt Disch, Normal Volt Chg, Pos Bus Shorted to Case.
			40°	1626	2	1377	Low Volt Disch, Low Volt Chg, High Pres Bulge, 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
41	15%	3.0	40°	1771	9	649	Low Volt Disch, High Volt Chg, Ceramic Short.
			40°	1801	6	1062	Low Volt Disch, Normal Volt Chg, Ceramic Short.
			40°	3135	2	1132	Low Volt Disch, Normal Volt Chg, Ceramic Short.
			40°	1852	7	1157	Low Volt Disch, Normal Volt Chg, Ceramic Short, Blistering on Pos Plates.
			40°	2221	8	1157	Low Volt Disch, Normal Volt Chg, Ceramic Short.
			40°	1632	3	1689	Low Volt Disch, Normal Volt Chg, Ceramic Short, Blistering on Pos Plates.
42	15%	3.0	50°	2309	8	96	Low Volt Disch, Normal Volt Chg, Ceramic Short.
			40°	2346	7	382	Low Volt Disch, Low Volt Chg, CO ₂ on Bottom of Case, Ceramic Short.
			40°	2306	9	416	Low Volt Disch, High Volt Chg, Ceramic Short.
			40°	918	1	484	Low Volt Disch, Low Volt Chg, High Pres Bulge, Deposit on Bottom of Case, Ceramic Short, Lost 3.1 gm.

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
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.
			0°	1845	8	6	Lost 5 gm, Leak at Weld on Bottom, High Pres Bulge.
			0°	2397	5	2762	Low Volt Disch, Low Volt Chg, Ceramic Short.
			0°	1825	4	4094	Low Volt Disch, Low Volt Chg, Ceramic Short, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates, High Pres Bulge.
			0°	2311	10	4285	Low Volt Disch, Low Volt Chg, Ceramic Short, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates, High Pres Bulge.
			0°	2400	6	4413	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates, High Pres Bulge.
62	25%	1.5	0°	1630	10	2995	Low Volt Disch, High Volt Chg, Leaked, Lost 6.8 gm, Ceramic Seal Broke, Deposit on Inside of Ceramic, High Pres Bulge, Blistering on Pos Plates.
			0°	1792	4	4066	Low Volt Disch, Low Volt Chg, Small Shorts Through Separator Near Pos Tab, Blistering on Pos Plate, Separator Deteriorated.
			0°	1806	5	*4441	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates, High Pres Bulge.

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
66	25%	3.0	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	1173	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.
			0°	1823	7	2122	Low Volt Disch, Low Volt Chg, Leaked, Lost 7.8 gm, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates, High Pres Bulge, One Side Concave.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 12.0 Ampere-Hour</u>
							FAILURE ANALYSIS
96	40%	1.5	25°	445	3	3822	Low Volt Disch, Low Volt Chg, Separator Penetrated by Neg Plate Material, Pinpoint Shorts Through Separator.
			25°	446	2	4020	Low Volt Disch, Low Volt Chg, Separator Penetrated by Neg Plate Material, Pinpoint Shorts Through Separator.
			25°	442	4	4020	Low Volt Disch, Low Volt Chg, Separator Penetrated by Neg Plate Material, Pinpoint Shorts Through Separator.
99	25%	1.5	40°	429	3	3841	Shorted on Cycling, Separator Penetrated by Neg Plate Material, Pinpoint 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.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 20 Ampere-Hour</u> 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.
			25°	419	3	1302	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.
87	40%	1.5	25°	468	1	163	Low Volt Disch, High Volt Chg, High Pres Bulge, Lost 8 gm.
			25°	388	2	208	Low Volt Disch, High Volt Chg, Lost 26.7 gm, Ceramic Short Around Pos Terminal.
			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.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 20 Ampere-Hour</u> FAILURE ANALYSIS
88	40%	3.0	25°	422	2	151	Low Volt Disch, High Volt Chg, High Pres Bulge, Bottom Ceramic Leak, Lost 25 gm.
			25°	404	1	151	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.
90	25%	1.5	40°	452	4	2824	Low Volt Disch, Low Volt Chg, Short Through Separator at Top of Plates, High Pres Bulge on Sides, High Pres, Separator Deteriorated.
			40°	457	5	2824	Low Volt Disch, Normal Volt Chg, Short Through Separator, Blistering on Pos Plate, High Pres Bulge on Sides, High Pres.
			40°	378	3	4045	Normal Volt Disch, Went Dead on Chg During Cap Check, Ceramic Short, Separator Completely Deteriorated.
101	15%	1.5	0°	435	2	3111	Low Volt Disch, High Volt Chg, Leaked, Lost 24.6 gm, High Pres Bulge, Separator Very Dry.
			0°	407	5	3111	Low Volt Disch, High Volt Chg, Leaked, Lost 20.4 gm, Separator Very Dry.
			0°	438	4	3629	Low Volt Disch, High Volt Chg, Leaked, Lost 13.2 gm, High Pres Bulge, Sides Concave, Blistering on Pos Plates.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 20 Ampere-Hour</u> FAILURE ANALYSIS
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.
115	25%	1.5	0°	490	3	2107	Low Volt Disch, Normal Volt Chg, Walls Concave, Busses Shorted to Case, Lost 26.9 gm.
			0°	508	2	2203	High Pres Bulge, Blisters on Pos Plate, Busses Shorted to Case.
			0°	467	4	2291	Black Deposit on Outside on Neg Terminal, High Pres Bulge, Busses Shorted to Case, Blisters on Pos Plate, Burnt Spot on Separator.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 20 Ampere-Hour</u>
							FAILURE ANALYSIS
98	25%	1.5	0°	77	5	*3556	Low Volt Disch, Low Volt Chg, Separator Deteriorated, Neg Plate Material Penetrated Separator, Two Pos Plates Not Welded to Tabs.
104	25%	1.5	25°	69	1	2672	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	1747	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.

PACK NUMBER	DEPTH OF DISCHARGE	OPER. PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 20 Ampere-Hour</u> FAILURE ANALYSIS
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	1793	Low Volt Disch, Normal Volt Chg, Neg Plate Material Penetrated Separator, High Pressure, Blistering on Pos Plate.
			25°	86	3	1793	Low Volt Disch, Normal Volt Chg, Neg Plate Material Penetrated Separator, High Pressure, Blistering on Pos Plate.
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: <u>Gulton 50 Ampere-Hour</u> FAILURE ANALYSIS
123	15%	1.5	40°	119	2	1873	Low Volt Disch, Low Volt Chg, Separator Decomposed, Hot Spots Through Separator Shorted Out Several Plates, High Pres Bulge, Still Under Pressure When Opened.
			40°	118	3	1873	Went Dead During Shutdown, Separator Decomposed, Several Small Hot Spots on Each Plate, Outside Neg Plates Stuck to Case, High Pres Bulge, Deposit Around Ceramic Seal of Pos Terminal.
			40°	117	4	1873	Went Dead During Shutdown, Separator Decomposed, Neg Plate Stuck to Case, High Pres Bulge, Still Under Pressure When Opened.

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

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Delco 25 Ampere-Hour</u> FAILURE ANALYSIS
75	40%	24	25°			32	Cell Blew-up, Pack Returned to Manufacturer

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	3.03	
	25	0		3.50		3.33	3.70	3.38	3.35	
	25	25		4.00		3.38	2.93	2.33	1.95	
	40	25		4.08		2.75	2.10	1.33	FAILED: CYCLE 5013	
	15	50/40		1.65	2.43 (779)	2.10	1.53	1.25	1.17	
	25	50/40		1.80	2.50 (1440)	0.88 **	0.88	PACK FAILED: CYCLE 2509		
G.E. 3 A.H.	15	0	3 Hrs	3.63		3.25	3.40	3.53	2.97	
	25	0		3.50		3.35	3.53	3.40	3.27	
	25	25		3.93		3.78	3.48	3.15	3.00	
	40	25		3.78		3.00	2.35	2.07	1.83	
	15	50/40		1.77	2.63 (320)	2.20	1.61	1.65	FAILED: CYCLE 2656	
	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	3.21	
	25	0		3.33		3.85	3.53	3.18	3.30	
	25	25		4.00		3.82	2.92	2.25	FAILED: CYCLE 4751	
	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	FAILED: CYCLE 4485	
	25	50/40		1.55	2.07 (424)	2.45	PACK FAILED: CYCLE 1811			
Gould 3.5 A.H.	15	0	3 Hrs	3.27		3.59	3.15	3.38	3.33	
	25	0		3.50		3.91	3.53	3.65	3.41	
	25	25		4.32		4.03	3.79	3.53	3.77	
	40	25		4.29		3.68	3.35	3.03	FAILED: CYCLE 2494	
	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	4.79	
	25	0		5.04		4.96	4.58	4.25	3.79	
	25	25		5.42		3.67	2.33	2.28	2.79	
	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	3.96	
	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	2.42		
	25	50/40		3.75	3.50 (123)	1.88	2.89	2.38		

- * (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. 30.

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	4.25	
	25	25		5.80		2.75	2.85	2.70	FAILED: CYCLE 4021
	40	25		6.40		3.45	PACK FAILED:	CYCLE 2086	
	15	50/40		2.75	3.60 (239)	1.70	2.45	1.85	
	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	3.80	
	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 1681	
	25	50/40		2.60	3.80 (96)	2.15	2.10	2.35	
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	12.8	
	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 (334)	5.00	4.70	5.00	
	25	50/40		6.90	6.00 (195)	4.90	5.20	4.40	
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	11.9	
	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	4.00	
	25	50/40		7.00	9.80 (70)	3.80	4.70	5.70	
Gould 20 A.H.	15	0	90 Min	22.5		27.7	26.5	24.2	
	25	0		23.0		21.2	15.2	18.7	
	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	12.5	
	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	20.3	
	25	0		23.0		17.5	25.0	12.2	
	25	25		23.3		23.5	22.2	21.3	
	40	25		24.8		24.7	21.7	PACK FAILED: CYCLE 1725	
	15	50/40		9.50	9.67 (47)	11.8	14.8	16.8	
	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.

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	5.50		
	25	50/40		9.00	11.3 (65)	6.00	10.3	7.35***	FAILED: CYCLE 4045	
Gulton 20 A.H.	15	0	3 Hrs	16.7		18.8	25.2	20.3		
	25	0		21.7		20.7	21.8	19.3		
	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	4.83		
	25	50/40		9.17	10.3 (47)	6.67	6.67	7.67		
Yardney 12 A.H.	50	0	24 Hrs	13.8		8.60	PACK FAILED: CYCLE 1166			
	50	40		13.5		12.0	PACK FAILED: CYCLE 210			
Gulton 6 A.H.	50	25	24 Hrs	6.60		3.55	4.40			
G.E. 12 A.H.	50	40***	24 Hrs	13.0		7.60	(40°C) 6.50			
Gulton 50 A.H.	25	0	90 Min	54.6		59.6	45.4			

* (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.

** Two cells only; pack failed during capacity check.

*** Changed from 25° to 40° C ambient after 173 cycles.

AMPERE-HOUR CAPACITIES ON PRECONDITIONING CYCLES AND CAPACITY CHECKS

<u>TYPE</u>	<u>PERCENT DEPTH OF DISCHARGE</u>	<u>TEMP. °C.</u>	<u>ORBIT PERIOD</u>	<u>DISCHARGE AMPERE-HOURS*</u>					
				(1)	(2)	(3)	(4)	(5)	(6)
Gulton	15	0	90 Min	5.04	3.57				
Comm.	25	0		4.87	4.00				
4 A.H.	25	25		4.63	2.47				
	40	25		5.00	2.60				
	15	40		4.20	1.77				
	25	40		3.37	1.17				

- (1) Initial Fre preconditioning.
- (2) Capacity check after First 88 days of cycling.
- (3) Capacity check after Second 88 days.
- (4) Capacity check after Third 88 days.
- (5) Capacity check after Fourth 88 days.
- (6) Capacity check after Fifth 88 days.

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	DIFFERENCE	INITIAL	FINAL
G.E. (pages 40-49)	3	63	0	0.5	1.0	15	115	1.55	5436	5952	516	10	10
		64	0	"	"	25	"	"	5414	5882	468	10	10
		15	25	"	"	25	125	1.49	5516	5946	430	10	10
		16	25	"	"	40	"	"		FAILED	-	-	-
		39	40	"	"	15	160	1.45	5183	5590	407	7	7
		40	40	"	"	25	"	1.41		FAILED			
		67	0	"	2.5	15	115	1.55	2616	2836	220	10	10
		68	0	"	"	25	"	"	2625	2841	216	10	10
		19	25	"	"	25	125	1.49	2591	2811	220	10	10
		20	25	"	"	40	"	"	2574	2790	216	10	10
		43	40	"	"	15	160	1.45	2453	2652	199	6	0
		44	40	"	"	25	"	"	2389	2630	241	9	9
GOULD (pages 50-55)	3.5	51	0	"	1.0	15	115	1.55	5538	5969	431	10	10
		52	0	"	"	25	"	"	5494	5962	468	10	10
		3	25	"	"	25	125	1.49		FAILED			
		4	25	"	"	40	"	"		FAILED			
		27	40	"	"	15	160	1.45		FAILED			
		28	40	"	"	25	"	"		FAILED			
		55	0	"	2.5	15	115	1.55	2616	2836	220	10	10
		56	0	"	"	25	"	"	2609	2825	216	10	10
		7	25	"	"	25	125	1.49	2627	2848	221	10	10
		8	25	"	"	40	"	"		FAILED			
		31	40	"	"	15	160	1.45	2374	2479	105	7	5
		32	40	"	"	25	"	1.41		FAILED			

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	DIFFERENCE	INITIAL	FINAL
SONOTONE (pages 56-66)	5	49	0	0.5	1.0	15	115	1.55	5240	5680	440	9	9
		50	0	"	"	25	"	"	5200	5640	440	10	10
		1	25	"	"	25	125	1.49	5085	5524	439	8	8
		2	25	"	"	40	"	"	5171	5255	84	7	7
		25	40	"	"	15	160	1.45	5038	5528	490	10	10
		26	40	"	"	25	"	"		FAILED			
		53	0	"	2.5	15	115	1.55	2465	2709	244	10	10
		54	0	"	"	25	"	"	2494	2714	220	10	10
		5	25	"	"	25	125	1.49	2522	2766	244	10	10
		6	25	"	"	40	"	"	2445	2691	246	7	7
		29	40	"	"	15	160	1.45	2383	2627	244	9	9
		30	40	"	"	25	"	"	2351	2597	246	9	9
GULTON (pages 67-73)	6	61	0	"	1.0	15	115	1.55	4672	5162	490	7	6
		62	0	"	"	25	"	"	4830	5320	490	7	7
		13	25	"	"	25	125	1.49		FAILED			
		14	25	"	"	40	"	"		FAILED			
		37	40	"	"	15	160	1.45	4228	4718	490	6	6
		38	40	"	"	25	"	"		FAILED			
		65	0	"	2.5	15	115	1.55	2597	2841	244	10	10
		66	0	"	"	25	"	"	2316	2536	220	5	5
		17	25	"	"	25	125	1.49	2546	2654	108	6	5
		18	25	"	"	40	"	"		FAILED			
		41	40	"	"	15	160	1.45		FAILED			
		42	40	"	"	25	"	"	2147	2393	246	6	6

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	DIFFERENCE	INITIAL	FINAL
G.E. (pages 74-84)	12	110	0	0.5	1.0	15	115	1.55	4870	5360	490	5	5
		124	0	"	"	25	"	"	4685	5175	490	5	5
		82	25	"	"	25	125	1.49	5066	5556	490	5	5
		96	25	"	"	40	"	"		FAILED			
		85	40	"	"	15	160	1.45	4688	5205	517	5	5
		99	40	"	"	25	"	"	4232	4749	517	3	3
		111	0	"	2.5	15	115	1.55	2459	2705	246	5	5
		125	0	"	"	25	"	"	2458	2704	246	5	5
		83	25	"	"	25	125	1.49	2500	2746	246	5	5
		97	25	"	"	40	"	"	2458	2736	278	5	5
		86	40	"	"	15	160	1.45	2391	2637	246	5	5
		100	40	"	"	25	"	"	2258	2504	246	5	5
G.E. (pages 85-91)	20	84	0	"	1.0	15	115	1.55	4805	5295	490	5	5
		98	0	"	"	25	"	"	4612	5102	490	4	4
		104	25	"	"	25	125	1.49		FAILED			
		118	25	"	"	40	"	"		FAILED			
		112	40	"	"	15	160	1.45	4578	4973	395	5	5
		126	40	"	"	25	"	1.41		FAILED			
		80	0	"	2.5	15	115	1.55	2430	2649	219	5	5
		94	0	"	"	25	"	"	2276	2520	244	5	5
		105	25	"	"	25	125	1.49	2351	2556	205	5	5
		119	25	"	"	40	"	"		FAILED			
		108	40	"	"	15	160	1.45	2236	2480	244	5	5
		122	40	"	"	25	"	1.41		FAILED			

GULTON
(pages
92-97)

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	DIFFERENCE	INITIAL	FINAL
YARDNEY	12	57	0	1.0	23.0	50	*	1.50		FAILED			
		33	40	"	"	"	*	1.50		FAILED			
GULTON (Page 98)	6	79	25	1.0	23.0	50	200	1.49	227	266	39	3	3
G.E. (Page 99)	12	93	25**	1.0	23.0	50	200	1.49**	226	265	39	5	3
GULTON (Page 100)	50	95	0	0.5	1.0	25	115	1.55	2599	3016	417	5	3
		123	40	"	"	15	160	1.45		FAILED			
DELCO (Page 101)	25	75	25	1.0	23.0	40	*	1.97		FAILED			
		89	25	"	"	"	*	"	68	76	8	4	0
DELCO (Page 102)	40	275	25	1.0	23.0	25	*	1.97	35	64	29	3	3

* DOES NOT APPLY.

** CHANGED TO 40°C, 1.45 V/CELL LIMIT AFTER CYCLE 173.

PACK NO. 63
G.E. 3 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 0.90	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
5536.	12.33	.90	1.24	1.24	1.24	1.23	1.24	1.23	1.23	1.24	1.22	1.22
5692.	12.52	.90	1.26	1.26	1.26	1.24	1.26	1.25	1.25	1.26	1.24	1.24
5733.	12.44	.91	1.25	1.25	1.25	1.24	1.25	1.24	1.24	1.26	1.24	1.23
5742.	12.47	.91	1.25	1.26	1.26	1.24	1.25	1.25	1.25	1.27	1.25	1.24
5762.	12.49	.91	1.26	1.26	1.26	1.25	1.26	1.25	1.25	1.27	1.25	1.25
5776.	12.39	.91	1.25	1.25	1.25	1.23	1.25	1.24	1.24	1.26	1.24	1.24
5808.	12.44	.90	1.25	1.26	1.27	1.24	1.25	1.25	1.25	1.26	1.24	1.24
5896.	12.40	.91	1.25	1.25	1.25	1.23	1.25	1.24	1.24	1.26	1.24	1.24
5921.	12.39	.91	1.25	1.25	1.25	1.23	1.25	1.24	1.24	1.26	1.24	1.24
5952.	12.37	.91	1.24	1.25	1.25	1.23	1.24	1.23	1.24	1.25	1.23	1.23

END OF
DISCHARGE

40.

5536.	15.61	.52										
5692.	15.67	.28	1.62	1.47	1.60	1.54	1.63	1.62	1.51	1.62	1.46	1.50
5733.	15.80	.29	1.58	1.51	1.57	1.56	1.59	1.58	1.56	1.60	1.53	1.56
5742.	15.45	.27	1.60	1.51	1.61	1.57	1.63	1.61	1.55	1.62	1.53	1.56
5762.	15.81	.24	1.57	1.49	1.56	1.55	1.60	1.57	1.53	1.58	1.50	1.52
5776.	15.30	.27	1.62	1.51	1.62	1.58	1.64	1.62	1.56	1.63	1.53	1.56
5808.	15.32	.28	1.56	1.48	1.54	1.53	1.59	1.57	1.51	1.57	1.48	1.51
5896.	15.29	.29	1.57	1.48	1.54	1.53	1.61	1.58	1.52	1.57	1.48	1.50
5921.	15.33	.23	1.57	1.47	1.53	1.52	1.61	1.58	1.50	1.57	1.47	1.50
5952.	15.37	.29	1.58	1.47	1.54	1.52	1.62	1.59	1.51	1.58	1.47	1.50
			1.59	1.47	1.55	1.52	1.62	1.59	1.50	1.57	1.46	1.49

END OF
CHARGE

PACK NO. 64
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
5505.	12.46	1.51	1.24	1.24	1.25	1.25	1.26	1.26	1.26	1.27	1.26	1.24
5622.	12.17	1.51	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.22	1.21	1.20
5666.	12.21	1.51	1.23	1.24	1.23	1.23	1.24	1.23	1.23	1.24	1.23	1.21
5693.	12.23	1.51	1.23	1.24	1.23	1.23	1.24	1.22	1.23	1.24	1.23	1.21
5729.	12.21	1.51	1.23	1.23	1.23	1.23	1.23	1.22	1.23	1.23	1.23	1.21
5756.	12.19	1.50	1.23	1.23	1.23	1.23	1.23	1.22	1.22	1.23	1.22	1.21
5826.	12.20	1.51	1.22	1.23	1.22	1.23	1.23	1.22	1.22	1.23	1.22	1.21
5851.	12.20	1.51	1.23	1.23	1.23	1.23	1.23	1.22	1.23	1.23	1.23	1.21
5882.	12.16	1.51	1.22	1.23	1.22	1.22	1.23	1.21	1.22	1.22	1.21	1.20

END OF
DISCHARGE

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
5505.	15.45	.86										
5622.	15.33	.47	1.53	1.54	1.52	1.54	1.53	1.50	1.49	1.55	1.53	1.54
5666.	15.61	.43	1.54	1.54	1.53	1.55	1.55	1.49	1.48	1.56	1.52	1.54
5693.	15.66	.41	1.57	1.58	1.58	1.60	1.59	1.51	1.50	1.62	1.55	1.58
5729.	15.66	.41	1.59	1.57	1.57	1.59	1.59	1.51	1.50	1.61	1.58	1.59
5756.	15.57	.41	1.57	1.56	1.56	1.58	1.58	1.50	1.50	1.61	1.56	1.57
5826.	15.64	.43	1.59	1.57	1.57	1.59	1.59	1.50	1.50	1.63	1.56	1.58
5851.	15.67	.41	1.58	1.57	1.57	1.59	1.60	1.50	1.49	1.64	1.56	1.57
5882.	15.75	.42	1.60	1.58	1.58	1.60	1.62	1.50	1.50	1.66	1.58	1.59
5882.	15.73	.42	1.59	1.57	1.57	1.60	1.62	1.50	1.49	1.65	1.56	1.58

END OF
CHARGE

PACK NO. 15
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	1	2	3	4	5	6	7	8	9	10
5572.	12.03	1.50	1.21	1.21	1.20	1.19	1.20	1.22	1.20	1.20	1.20	1.20
5605.	11.92	1.42	1.21	1.21	1.19	1.18	1.27	1.22	1.19	1.19	1.20	1.20
5687.	11.89	1.50	1.20	1.21	1.18	1.18	1.18	1.20	1.18	1.18	1.19	1.19
5728.	11.80	1.50	1.20	1.20	1.17	1.17	1.16	1.20	1.17	1.17	1.19	1.18
5757.	11.85	1.50	1.21	1.21	1.18	1.17	1.18	1.21	1.18	1.19	1.20	1.20
5786.	11.85	1.50	1.21	1.21	1.18	1.18	1.17	1.21	1.18	1.18	1.19	1.19
5820.	11.79	1.50	1.20	1.20	1.18	1.17	1.17	1.20	1.17	1.17	1.19	1.19
5852.	11.89	1.50	1.21	1.21	1.20	1.19	1.18	1.21	1.19	1.18	1.20	1.19
5890.	11.81	1.51	1.21	1.21	1.18	1.18	1.17	1.21	1.17	1.18	1.19	1.19
5915.	11.83	1.51	1.21	1.21	1.18	1.18	1.17	1.21	1.18	1.18	1.20	1.19
5946.	11.78	1.50	1.20	1.20	1.18	1.17	1.17	1.20	1.17	1.17	1.17	1.18

END OF
DISCHARGE

		.94										
5572.	14.70	.84	1.49	1.52	1.45	1.44	1.45	1.50	1.43	1.45	1.46	1.50
5605.	14.66	.89	1.49	1.48	1.44	1.45	1.44	1.50	1.44	1.44	1.46	1.51
5687.	14.68	.85	1.49	1.51	1.44	1.44	1.44	1.50	1.43	1.45	1.45	1.50
5728.	14.74	.86	1.49	1.51	1.44	1.45	1.44	1.50	1.44	1.46	1.46	1.51
5757.	14.75	.87	1.50	1.52	1.45	1.46	1.45	1.51	1.45	1.47	1.47	1.52
5786.	14.69	.83	1.49	1.51	1.44	1.45	1.44	1.50	1.44	1.46	1.46	1.51
5820.	14.74	.83	1.50	1.51	1.46	1.45	1.45	1.50	1.45	1.46	1.46	1.51
5852.	14.77	.83	1.50	1.52	1.46	1.46	1.45	1.51	1.45	1.46	1.47	1.51
5890.	14.70	.84	1.49	1.51	1.45	1.45	1.45	1.50	1.44	1.46	1.46	1.51
5915.	14.78	.83	1.50	1.52	1.45	1.46	1.45	1.51	1.45	1.47	1.47	1.52
5946.	14.71	.86	1.49	1.51	1.45	1.45	1.45	1.49	1.44	1.45	1.46	1.50

END OF
CHARGE

42.

PACK NO. 39
G.E. 3 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT .90	1	2	3	4	5	6	7	8	9	10
5246.	8.29	.89	1.17	.00	1.19	1.19	1.19	.00	.00	1.19	1.18	1.19
5288.	8.28	.89	1.14	.00	1.17	1.18	1.19	.00	.00	1.20	1.19	1.22
5321.	8.46	.89	1.18	.00	1.18	1.20	1.19	.00	.00	1.19	1.19	1.20
5403.	8.27	.89	1.15	.00	1.20	1.19	1.19	.00	.00	1.18	1.18	1.18
5452.	8.28	.89	1.16	.00	1.19	1.20	1.19	.00	.00	1.17	1.18	1.20
5496.	8.56	.90	1.21	.00	1.24	1.24	1.24	.00	.00	1.23	1.23	1.22
5534.	8.36	.89	1.19	.00	1.20	1.21	1.21	.00	.00	1.19	1.19	1.20
5560.	8.32	.89	1.17	.00	1.21	1.20	1.20	.00	.00	1.19	1.19	1.20
5590.	8.27	.89	1.15	.00	1.20	1.20	1.20	.00	.00	1.17	1.18	1.19
5246.	9.88	.72	1.41	.00	1.41	1.41	1.41	.00	.00	1.41	1.40	1.41
5288.	9.95	.72	1.42	.00	1.42	1.42	1.42	.00	.00	1.42	1.41	1.43
5321.	9.98	.72	1.43	.00	1.41	1.41	1.41	.00	.00	1.39	1.39	1.41
5403.	9.95	.72	1.42	.00	1.42	1.42	1.42	.00	.00	1.42	1.41	1.42
5452.	9.89	.73	1.41	.00	1.41	1.41	1.41	.00	.00	1.41	1.41	1.43
5496.	10.01	.73	1.42	.00	1.44	1.44	1.45	.00	.00	1.43	1.43	1.43
5534.	9.94	.73	1.43	.00	1.42	1.42	1.42	.00	.00	1.42	1.41	1.43
5560.	9.95	.73	1.42	.00	1.43	1.42	1.43	.00	.00	1.42	1.41	1.43
5590.	9.93	.72	1.41	.00	1.42	1.42	1.42	.00	.00	1.41	1.41	1.42

END OF
DISCHARGE

END OF
CHARGE

43.

PACK NO. 67
G.E. 3 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 0.90	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2653.	12.32	.92	1.24	1.24	1.23	1.24	1.23	1.24	1.23	1.24	1.22	1.22
2693.	12.36	.90	1.22	1.22	1.21	1.23	1.23	1.24	1.24	1.25	1.24	1.24
2732.	12.33	.91	1.25	1.13	1.25	1.25	1.24	1.25	1.24	1.23	1.24	1.24
2772.	12.85	.90	1.30	1.20	1.30	1.30	1.30	1.30	1.30	1.29	1.30	1.30
2804.	12.59	.90	1.26	1.26	1.25	1.27	1.27	1.26	1.26	1.27	1.25	1.25
2836.	12.55	.91	1.26	1.26	1.25	1.26	1.27	1.26	1.26	1.26	1.25	1.24
		.21										
2653.	15.61	.10	1.60	1.45	1.51	1.60	1.61	1.58	1.57	1.52	1.60	1.56
2693.	15.66	.10	1.59	1.43	1.49	1.60	1.60	1.57	1.57	1.51	1.60	1.56
2732.	15.48	.09	1.59	1.41	1.49	1.59	1.60	1.56	1.55	1.49	1.59	1.54
2772.	15.53	.19	1.57	1.54	1.54	1.55	1.56	1.57	1.54	1.58	1.54	1.56
2804.	15.96	.15	1.63	1.52	1.57	1.64	1.65	1.60	1.59	1.59	1.63	1.58
2836.	15.45	.11	1.59	1.49	1.51	1.59	1.59	1.53	1.53	1.52	1.59	1.52

END OF
DISCHARGE

END OF
CHARGE

44

PACK NO. 68
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2657.	12.04	1.50	1.20	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20
2697.	12.09	1.49	1.18	1.19	1.20	1.20	1.20	1.20	1.21	1.21	1.21	1.21
2736.	12.08	1.50	1.19	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20
2771.	12.08	1.50	1.21	1.21	1.21	1.22	1.22	1.22	1.22	1.23	1.21	1.21
2802.	12.07	1.50	1.20	1.20	1.22	1.22	1.22	1.21	1.22	1.22	1.21	1.21
2812.	12.39	1.49	1.23	1.24	1.24	1.25	1.25	1.25	1.25	1.25	1.24	1.24
2841.	12.28	1.49	1.22	1.23	1.24	1.24	1.23	1.23	1.24	1.24	1.22	1.22
		.34										
2657.	15.77	.15	1.64	1.64	1.58	1.63	1.63	1.61	1.47	1.64	1.45	1.46
2697.	15.67	.14	1.62	1.61	1.56	1.60	1.59	1.57	1.43	1.60	1.41	1.41
2736.	15.73	.15	1.62	1.63	1.58	1.62	1.62	1.60	1.47	1.64	1.45	1.46
2771.	15.68	.14	1.64	1.64	1.57	1.62	1.62	1.61	1.47	1.65	1.45	1.46
2802.	15.62	.15	1.62	1.63	1.57	1.61	1.61	1.60	1.47	1.64	1.45	1.46
2812.	15.80	.29	1.62	1.61	1.57	1.56	1.61	1.60	1.56	1.60	1.53	1.55
2841.	16.02	.26	1.63	1.63	1.62	1.63	1.63	1.62	1.55	1.64	1.53	1.53

END OF
DISCHARGE

END OF
CHARGE

45.

PACK NO. 19
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2628.	12.15	1.50	1.22	1.22	1.22	1.22	1.22	1.22	1.21	1.22	1.20	1.20
2668.	12.10	1.51	1.21	1.21	1.21	1.22	1.22	1.22	1.21	1.23	1.21	1.21
2707.	12.10	1.51	1.22	1.10	1.23	1.23	1.22	1.22	1.21	1.21	1.22	1.22
2747.	12.59	1.50	1.27	1.18	1.27	1.28	1.27	1.28	1.27	1.27	1.27	1.28
2779.	13.18	1.51	1.32	1.32	1.32	1.33	1.33	1.32	1.32	1.33	1.31	1.31
2811.	12.22	1.52	1.22	1.23	1.23	1.23	1.23	1.23	1.22	1.23	1.21	1.22

END OF
DISCHARGE

		.38										
2628.	14.76	.36	1.47	1.46	1.46	1.46	1.46	1.50	1.45	1.50	1.45	1.52
2668.	14.70	.36	1.49	1.48	1.47	1.47	1.46	1.51	1.45	1.49	1.44	1.51
2707.	14.80	.37	1.48	1.42	1.47	1.47	1.47	1.51	1.45	1.49	1.45	1.53
2747.	14.84	.38	1.48	1.47	1.47	1.47	1.47	1.52	1.46	1.53	1.46	1.54
2779.	14.92	.38	1.49	1.48	1.47	1.49	1.48	1.54	1.47	1.53	1.47	1.54
2811.	14.82	.38	1.48	1.47	1.47	1.47	1.46	1.52	1.46	1.51	1.45	1.53

END OF
CHARGE

46.

PACK NO. 20
G.E. 3 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 2.40	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2621.	11.30	2.40	1.15	1.13	1.13	1.11	1.13	1.12	1.11	1.10	1.14	1.12
2660.	11.33	2.39	1.15	1.13	1.14	1.12	1.14	1.13	1.13	1.11	1.15	1.12
2695.	11.19	2.40	1.15	1.12	1.14	1.11	1.12	1.12	1.13	1.10	1.16	1.13
2726.	11.26	2.39	1.15	1.13	1.15	1.12	1.12	1.12	1.13	1.11	1.16	1.13
2761.	11.29	2.43	1.15	1.13	1.14	1.12	1.14	1.13	1.13	1.12	1.16	1.13
2790.	11.24	2.42	1.15	1.13	1.14	1.12	1.11	1.12	1.13	1.11	1.15	1.12

END OF
DISCHARGE

		.60										
2621.	14.72	.60	1.47	1.46	1.46	1.45	1.45	1.48	1.48	1.47	1.49	1.48
2660.	14.75	.59	1.48	1.47	1.47	1.46	1.46	1.48	1.47	1.46	1.49	1.48
2695.	14.78	.53	1.50	1.48	1.48	1.47	1.46	1.48	1.49	1.47	1.51	1.49
2726.	14.87	.52	1.50	1.48	1.49	1.47	1.47	1.49	1.49	1.48	1.53	1.50
2761.	14.80	.54	1.49	1.48	1.48	1.47	1.47	1.48	1.49	1.47	1.50	1.49
2790.	14.77	.57	1.50	1.48	1.48	1.46	1.45	1.47	1.48	1.46	1.49	1.49

END OF
CHARGE

47

PACK NO. 43
G.E. 3 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 0.90	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2490.	6.74	.91	1.22	1.22	.00	.00	1.16	.00	.76	1.21	.00	1.17
2515.	5.22	.86	1.22	1.22	.00	.00	1.17	.00	.74	1.22	.00	1.16
2554.	5.92	.90	1.22	1.13	.00	.00	1.15	.00	.00	1.19	.00	1.13
2587.	5.90	.91	1.22	1.24	.00	.00	1.17	.00	.00	1.22	.00	1.10
2620.	6.03	.91	1.27	1.19	.00	.00	1.20	.00	.00	1.25	.00	1.09
2652.	5.79	.91	1.22	1.23	.00	.00	1.16	.00	.00	1.21	.00	1.00

END OF
DISCHARGE

		.29										
2490.	8.50	.26	1.39	1.39	.00	.00	1.40	.00	1.50	1.40	.00	1.41
2515.	8.77	.26	1.39	1.40	.00	.00	1.41	.00	1.72	1.42	.00	1.43
2554.	7.09	.29	1.40	1.41	.00	.00	1.42	.00	.00	1.41	.00	1.45
2587.	7.13	.29	1.41	1.42	.00	.00	1.43	.00	.00	1.43	.00	1.47
2620.	7.15	.29	1.41	1.42	.00	.00	1.43	.00	.00	1.42	.00	1.49
2652.	7.15	.29	1.41	1.41	.00	.00	1.43	.00	.00	1.42	.00	1.49

END OF
CHARGE

48.

PACK NO. 44
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2421.	10.09	1.50	1.11	1.14	1.12	1.13	1.12	.00	1.13	1.12	1.12	1.10
2461.	10.18	1.50	1.13	1.16	1.15	1.16	1.15	.00	1.16	1.14	1.14	1.11
2500.	10.18	1.50	1.12	1.15	1.13	1.15	1.13	.00	1.14	1.12	1.13	1.10
2535.	10.17	1.49	1.13	1.15	1.13	1.15	1.13	.00	1.15	1.14	1.15	1.11
2566.	10.18	1.49	1.12	1.15	1.14	1.15	1.14	.00	1.15	1.14	1.14	1.11
2601.	10.16	1.50	1.12	1.15	1.13	1.15	1.13	.00	1.15	1.13	1.13	1.11
2630.	10.14	1.49	1.12	1.15	1.13	1.15	1.13	.00	1.14	1.12	1.13	1.10

END OF
DISCHARGE

2421.	12.80	.48	1.41	1.44	1.42	1.41	1.41	.00	1.42	1.44	1.40	1.42			
2461.	12.88	.46	1.39	1.42	1.40	1.40	1.40	.00	1.41	1.43	1.40	1.42			
2500.	12.91	.46	1.42	1.46	1.43	1.42	1.42	.00	1.43	1.45	1.41	1.42			
2535.	12.97	.47	1.43	1.47	1.44	1.44	1.44	.00	1.45	1.47	1.43	1.45			
2566.	12.98	.47	1.43	1.47	1.44	1.44	1.43	.00	1.45	1.47	1.43	1.44			
2601.	12.91	.45	1.42	1.46	1.43	1.43	1.43	.00	1.44	1.46	1.42	1.43			
2630.	12.93	.44	1.43	1.46	1.44	1.43	1.43	.00	1.44	1.46	1.41	1.43			

END OF
CHARGE

49.

PACK NO. 51
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.05	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
5709.	12.48	1.06	1.25	1.25	1.24	1.23	1.25	1.26	1.26	1.25	1.23	1.24
5750.	12.43	1.06	1.25	1.24	1.23	1.22	1.25	1.25	1.25	1.25	1.22	1.24
5779.	12.51	1.06	1.26	1.26	1.25	1.25	1.26	1.27	1.27	1.27	1.24	1.26
5809.	12.52	1.05	1.26	1.25	1.24	1.26	1.25	1.26	1.26	1.27	1.25	1.26
5843.	12.50	1.06	1.26	1.25	1.24	1.27	1.26	1.26	1.26	1.26	1.24	1.25
5875.	12.54	1.06	1.26	1.25	1.25	1.29	1.26	1.27	1.27	1.27	1.23	1.25
5913.	12.54	1.05	1.26	1.25	1.24	1.28	1.26	1.26	1.26	1.26	1.25	1.25
5938.	12.52	1.05	1.26	1.25	1.24	1.28	1.26	1.26	1.26	1.26	1.25	1.25
5969.	12.50	1.06	1.26	1.25	1.24	1.27	1.25	1.26	1.26	1.25	1.24	1.24

END OF
DISCHARGE

		.60										
5709.	15.40	.50	1.55	1.57	1.57	1.42	1.62	1.54	1.54	1.57	1.43	1.54
5750.	15.47	.50	1.56	1.57	1.58	1.43	1.64	1.56	1.56	1.58	1.43	1.55
5779.	15.47	.51	1.56	1.58	1.59	1.45	1.63	1.56	1.56	1.59	1.44	1.57
5809.	15.45	.50	1.56	1.57	1.58	1.46	1.64	1.55	1.55	1.58	1.45	1.55
5843.	15.46	.52	1.56	1.57	1.59	1.47	1.63	1.55	1.55	1.58	1.44	1.55
5875.	15.46	.53	1.56	1.58	1.59	1.49	1.63	1.55	1.55	1.58	1.44	1.55
5913.	15.45	.51	1.56	1.57	1.58	1.49	1.63	1.55	1.55	1.57	1.45	1.55
5938.	15.47	.52	1.56	1.57	1.58	1.48	1.63	1.55	1.55	1.58	1.46	1.55
5969.	15.47	.53	1.56	1.57	1.58	1.47	1.64	1.55	1.55	1.57	1.44	1.54

END OF
CHARGE

50.

PACK NO. 52
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 °C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.75	GELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
5702.	12.04	1.76	1.21	1.21	1.14	1.21	1.22	1.21	1.19	1.20	1.21	1.21
5746.	11.97	1.76	1.22	1.22	1.10	1.21	1.23	1.22	1.21	1.21	1.21	1.22
5773.	11.96	1.76	1.23	1.22	1.05	1.22	1.23	1.23	1.21	1.19	1.22	1.22
5809.	11.92	1.76	1.22	1.22	1.03	1.22	1.23	1.22	1.20	1.16	1.22	1.22
5836.	11.83	1.75	1.22	1.22	1.03	1.21	1.23	1.22	1.20	1.10	1.22	1.22
5868.	11.71	1.75	1.23	1.23	1.03	1.22	1.23	1.23	1.22	.95	1.22	1.22
5906.	11.74	1.76	1.22	1.22	1.08	1.21	1.22	1.22	1.21	.96	1.21	1.21
5931.	11.85	1.75	1.22	1.22	1.08	1.22	1.23	1.22	1.21	1.08	1.22	1.21
5962.	12.03	1.76	1.22	1.21	1.14	1.21	1.22	1.22	1.20	1.23	1.21	1.19

END OF
DISCHARGE

		1.00											
5702.	15.28	.63	1.56	1.57	1.44	1.56	1.54	1.54	1.50	1.46	1.55	1.51	
5746.	15.43	.66	1.61	1.59	1.47	1.57	1.54	1.56	1.61	1.48	1.54	1.55	
5773.	15.48	.67	1.59	1.60	1.47	1.59	1.57	1.57	1.56	1.48	1.58	1.54	
5809.	15.42	.66	1.58	1.59	1.47	1.00	1.56	1.57	1.53	1.47	1.57	1.53	
5836.	15.45	.69	1.58	1.59	1.47	1.58	1.56	1.57	1.54	1.47	1.57	1.54	
5868.	15.44	.71	1.58	1.59	1.47	1.58	1.56	1.57	1.58	1.48	1.57	1.52	
5906.	15.40	.68	1.57	1.59	1.47	1.58	1.56	1.56	1.54	1.48	1.57	1.50	
5931.	15.46	.71	1.59	1.60	1.48	1.59	1.57	1.57	1.56	1.49	1.58	1.50	
5962.	15.44	.72	1.59	1.60	1.48	1.59	1.57	1.57	1.54	1.50	1.57	1.45	

END OF
CHARGE

51

PACK NO. 55
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.05	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2653.	12.45	1.05	1.25	1.25	1.25	1.24	1.24	1.24	1.24	1.25	1.23	1.24
2693.	12.40	1.05	1.24	1.25	1.25	1.24	1.25	1.24	1.24	1.25	1.24	1.24
2732.	12.38	1.05	1.25	1.13	1.26	1.25	1.24	1.24	1.24	1.24	1.25	1.25
2772.	12.88	1.05	1.30	1.20	1.31	1.30	1.31	1.30	1.30	1.29	1.30	1.30
2804.	12.57	1.05	1.26	1.26	1.26	1.25	1.26	1.25	1.25	1.27	1.25	1.25
2836.	12.53	1.05	1.26	1.26	1.26	1.25	1.26	1.25	1.25	1.26	1.25	1.25

END OF
DISCHARGE

2653.	15.34	.24	1.54	1.53	1.54	1.54	1.54	1.53	1.53	1.54	1.52	1.51
2693.	15.31	.23	1.49	1.48	1.48	1.49	1.49	1.48	1.48	1.50	1.48	1.48
2732.	15.26	.20	1.53	1.48	1.53	1.54	1.54	1.53	1.52	1.52	1.52	1.51
2772.	15.68	.24	1.58	1.58	1.59	1.57	1.58	1.55	1.56	1.60	1.57	1.56
2804.	15.40	.24	1.55	1.55	1.55	1.56	1.56	1.54	1.54	1.56	1.53	1.52
2836.	15.35	.24	1.54	1.54	1.55	1.55	1.55	1.53	1.53	1.55	1.52	1.52

END OF
CHARGE

52.

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

6 7 8 9 10

END OF
DISCHARGE

END OF
CHARGE

67
68

PACK NO. 7
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.75	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2664.	11.84	1.75	1.16	1.01	1.21	1.21	1.19	1.19	1.22	1.21	1.20	1.20
2704.	11.73	1.75	1.15	.98	1.21	1.21	1.19	1.19	1.20	1.22	1.21	1.20
2743.	11.70	1.75	1.15	.83	1.22	1.22	1.18	1.20	1.20	1.19	1.22	1.22
2784.	12.24	1.75	1.19	1.00	1.27	1.26	1.24	1.25	1.26	1.26	1.27	1.27
2816.	11.70	1.76	1.08	.93	1.22	1.21	1.20	1.20	1.21	1.23	1.21	1.21
2848.	11.59	1.76	1.05	.91	1.22	1.21	1.20	1.19	1.20	1.22	1.21	1.20

END OF
DISCHARGE

2664.	14.66	.44	1.46	1.43	1.47	1.46	1.47	1.45	1.52	1.48	1.45	1.45
2704.	14.57	.43	1.45	1.43	1.45	1.45	1.46	1.44	1.48	1.47	1.45	1.44
2743.	14.62	.43	1.46	1.40	1.47	1.46	1.47	1.45	1.49	1.46	1.46	1.46
2784.	14.61	.44	1.46	1.44	1.47	1.46	1.47	1.46	1.50	1.48	1.45	1.45
2816.	14.64	.44	1.45	1.45	1.47	1.46	1.47	1.46	1.51	1.49	1.46	1.46
2848.	14.55	.44	1.42	1.45	1.47	1.46	1.47	1.45	1.48	1.48	1.45	1.45

END OF
CHARGE

54.

PACK NO. 31
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.05	CELL VOLTAGES										
			1	2	3	4	5	6	7	8	9	10	
2411.	6.14	.88	.84	.00	.18	1.18	1.20	.97	1.22	.96	.00	.00	END OF DISCHARGE
2444.	6.32	1.05	.91	.00	.00	1.23	1.18	1.02	1.22	.81	.00	.00	
2477.	5.65	1.06	.75	.00	.00	1.21	1.19	.96	1.22	.37	.00	.00	
2479.	5.79	1.05	1.03	.00	.00	1.18	1.18	1.24	1.21	.00	.00	.00	
2411.	9.98	.34	1.41	.00	1.40	1.40	1.47	1.41	1.42	1.53	.00	.00	END OF CHARGE
2444.	8.71	.33	1.42	.00	.00	1.43	1.53	1.40	1.45	1.52	.00	.00	
2477.	8.68	.34	1.42	.00	.00	1.45	1.52	1.42	1.47	1.47	.00	.00	
2479.	7.20	.33	1.42	.00	.00	1.43	1.48	1.44	1.47	.00	.00	.00	

55

PACK NO. 49
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10

5284.	11.01	1.52	1.21	1.22	1.21	1.21	1.23	1.23	1.24	1.27	.00	1.22
5301.	10.97	1.51	1.22	1.22	1.21	1.21	1.22	1.23	1.24	1.25	.00	1.22
5347.	10.97	1.50	1.22	1.22	1.21	1.21	1.22	1.23	1.24	1.25	.00	1.22
5381.	10.98	1.52	1.20	1.20	1.20	1.20	1.21	1.22	1.24	1.25	.00	1.23
5410.	11.19	1.51	1.24	1.15	1.25	1.24	1.25	1.26	1.26	1.25	.00	1.26
5458.	11.08	1.52	1.22	1.23	1.22	1.22	1.23	1.24	1.25	1.26	.00	1.23
5467.	11.04	1.51	1.22	1.22	1.22	1.22	1.22	1.24	1.25	1.26	.00	1.23
5520.	11.05	1.52	1.22	1.23	1.22	1.22	1.23	1.24	1.25	1.26	.00	1.24
5586.	11.06	1.51	1.23	1.23	1.23	1.22	1.24	1.25	1.26	1.26	.00	1.24
5618.	10.99	1.54	1.22	1.22	1.22	1.21	1.22	1.23	1.24	1.25	.00	1.23
5649.	11.01	1.53	1.22	1.22	1.22	1.21	1.22	1.24	1.25	1.25	.00	1.23
5680.	11.03	1.50	1.22	1.22	1.22	1.22	1.23	1.24	1.25	1.26	.00	1.23

END OF
DISCHARGE

5284.	14.05	.86										
5301.	14.04	.62	1.53	1.54	1.62	1.55	1.53	1.64	1.54	1.59	.00	1.51
5347.	14.00	.62	1.54	1.54	1.64	1.55	1.53	1.66	1.55	1.56	.00	1.52
5381.	14.00	.58	1.54	1.53	1.63	1.55	1.53	1.65	1.54	1.56	.00	1.52
5410.	14.00	.60	1.53	1.54	1.61	1.55	1.53	1.65	1.54	1.56	.00	1.52
5410.	14.46	.55	1.58	1.55	1.65	1.59	1.57	1.67	1.60	1.62	.00	1.61
5458.	14.25	.55	1.56	1.56	1.64	1.57	1.54	1.63	1.59	1.59	.00	1.53
5467.	14.14	.55	1.56	1.56	1.62	1.57	1.54	1.63	1.56	1.59	.00	1.54
5520.	14.03	.57	1.55	1.55	1.62	1.56	1.53	1.62	1.55	1.57	.00	1.53
5586.	14.02	.59	1.55	1.55	1.65	1.56	1.53	1.63	1.55	1.57	.00	1.52
5618.	13.89	.60	1.53	1.53	1.60	1.54	1.52	1.62	1.53	1.54	.00	1.51
5649.	13.96	.59	1.54	1.54	1.63	1.55	1.52	1.63	1.54	1.55	.00	1.52
5680.	13.98	.60	1.54	1.54	1.62	1.55	1.53	1.63	1.54	1.55	.00	1.52

END OF
CHARGE

56.

PACK NO. 50
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
5242.	11.71	2.53	1.12	1.19	1.16	1.14	1.15	1.20	1.20	1.21	1.19	1.18
5261.	11.80	2.52	1.14	1.20	1.17	1.15	1.15	1.20	1.21	1.21	1.20	1.18
5305.	11.67	2.50	1.12	1.19	1.17	1.13	1.14	1.19	1.19	1.20	1.19	1.17
5380.	11.90	2.51	1.15	1.20	1.19	1.16	1.16	1.21	1.21	1.22	1.20	1.20
5418.	11.77	2.52	1.13	1.19	1.17	1.14	1.15	1.20	1.20	1.21	1.20	1.18
5450.	11.77	2.52	1.14	1.20	1.18	1.15	1.16	1.21	1.21	1.22	1.21	1.20
5478.	11.78	2.52	1.14	1.20	1.17	1.15	1.16	1.20	1.20	1.22	1.20	1.19
5514.	11.81	2.51	1.15	1.20	1.18	1.15	1.16	1.20	1.21	1.22	1.20	1.19
5546.	11.83	2.51	1.15	1.21	1.19	1.16	1.16	1.21	1.21	1.22	1.20	1.19
5578.	11.85	2.52	1.15	1.20	1.18	1.16	1.16	1.21	1.21	1.22	1.20	1.19
5607.	11.79	2.52	1.14	1.20	1.18	1.15	1.16	1.20	1.21	1.22	1.20	1.19
5640.	11.76	2.52	1.14	1.20	1.17	1.14	1.15	1.20	1.20	1.21	1.19	1.18

END OF
DISCHARGE

		1.44										
5242.	15.64	.88	1.57	1.51	1.58	1.56	1.59	1.56	1.50	1.58	1.51	1.68
5261.	15.56	.79	1.54	1.51	1.57	1.54	1.57	1.58	1.50	1.60	1.52	1.60
5305.	15.46	.79	1.56	1.49	1.56	1.55	1.57	1.53	1.49	1.56	1.50	1.65
5380.	15.80	.83	1.59	1.47	1.58	1.59	1.60	1.60	1.52	1.59	1.53	1.66
5418.	15.67	.81	1.60	1.50	1.57	1.57	1.60	1.57	1.49	1.58	1.51	1.66
5450.	15.62	.81	1.59	1.50	1.58	1.58	1.59	1.55	1.50	1.58	1.51	1.67
5478.	15.59	.81	1.58	1.49	1.57	1.57	1.59	1.55	1.49	1.58	1.51	1.67
5514.	15.59	.82	1.58	1.50	1.57	1.57	1.59	1.55	1.49	1.57	1.51	1.67
5546.	15.66	.88	1.58	1.50	1.59	1.58	1.60	1.56	1.50	1.59	1.51	1.69
5578.	15.68	.81	1.59	1.50	1.58	1.58	1.59	1.55	1.50	1.58	1.51	1.68
5607.	15.60	.86	1.58	1.50	1.58	1.57	1.59	1.55	1.49	1.58	1.51	1.68
5640.	15.84	.97	1.60	1.51	1.60	1.59	1.62	1.58	1.51	1.61	1.52	1.70

END OF
CHARGE

57

PACK NO. 1
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGE 2.50

CELL VOLTAGES

1	2	3	4	5	6	7	8	9	10			
5129.	9.20	2.53	.00	1.18	1.15	.00	1.07	1.07	1.19	1.20	1.17	1.16
5146.	9.05	2.49	.00	1.18	1.13	.00	1.06	1.03	1.18	1.17	1.17	1.16
5192.	8.94	2.52	.00	1.17	1.09	.00	1.04	1.01	1.17	1.16	1.16	1.15
5226.	9.09	2.51	.00	1.18	1.12	.00	1.06	1.05	1.18	1.17	1.17	1.16
5305.	8.99	2.50	.00	1.06	1.11	.00	1.03	1.04	1.18	1.14	1.18	1.18
5364.	9.33	2.51	.00	1.20	1.17	.00	1.10	1.10	1.20	1.20	1.20	1.19
5394.	9.27	2.51	.00	1.20	1.17	.00	1.09	1.09	1.19	1.20	1.19	1.18
5430.	9.34	2.49	.00	1.21	1.18	.00	1.11	1.11	1.20	1.20	1.19	1.19
5462.	9.25	2.51	.00	1.19	1.16	.00	1.08	1.08	1.19	1.19	1.18	1.17
5493.	9.24	2.50	.00	1.20	1.17	.00	1.08	1.08	1.19	1.19	1.18	1.18
5524.	9.29	2.49	.00	1.20	1.17	.00	1.09	1.09	1.20	1.20	1.19	1.18

END OF
DISCHARGE

1	2	3	4	5	6	7	8	9	10			
5129.	11.81	1.56	.00	1.45	1.46	.00	1.50	1.48	1.46	1.50	1.45	1.46
5146.	11.82	1.26	.00	1.46	1.47	.00	1.50	1.49	1.48	1.49	1.46	1.47
5192.	11.80	1.18	.00	1.46	1.47	.00	1.50	1.49	1.47	1.48	1.46	1.47
5226.	11.85	1.18	.00	1.46	1.46	.00	1.50	1.49	1.48	1.50	1.47	1.47
5305.	11.81	1.21	.00	1.42	1.47	.00	1.50	1.48	1.47	1.46	1.46	1.47
5364.	11.76	1.25	.00	1.45	1.45	.00	1.49	1.48	1.46	1.48	1.46	1.47
5394.	11.81	1.30	.00	1.46	1.46	.00	1.50	1.49	1.47	1.48	1.46	1.47
5430.	11.85	1.30	.00	1.47	1.47	.00	1.51	1.49	1.48	1.49	1.47	1.48
5462.	11.82	1.26	.00	1.46	1.46	.00	1.51	1.49	1.47	1.49	1.47	1.47
5493.	11.87	1.24	.00	1.46	1.47	.00	1.51	1.49	1.48	1.49	1.47	1.48
5524.	11.83	1.32	.00	1.46	1.46	.00	1.50	1.49	1.47	1.49	1.46	1.47

END OF
CHARGE

58.

PACK NO. 2
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 .C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 4.00	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
5255.	5.85	3.42	1.12	.00	1.12	1.12	.00	.18	.46	1.12	1.12	.00
		2.50										
5255.	10.55	1.30	1.50	.00	1.51	1.55	.00	1.50	1.45	1.49	1.56	.00

END OF
DISCHARGE

END OF
CHARGE

59.

PACK NO. 25
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	1	2	3	4	5	6	7	8	9	10
5082.	11.70	1.51	1.15	1.17	1.18	1.13	1.09	1.19	1.20	1.23	1.16	1.17
5099.	11.61	1.49	1.15	1.17	1.18	1.13	1.09	1.19	1.20	1.21	1.16	1.17
5145.	11.53	1.49	1.14	1.16	1.17	1.12	1.08	1.18	1.20	1.20	1.14	1.16
5179.	11.62	1.50	1.15	1.17	1.17	1.12	1.09	1.18	1.20	1.20	1.16	1.17
5258.	11.46	1.47	1.14	1.06	1.17	1.12	1.07	1.18	1.19	1.18	1.14	1.17
5306.	11.31	1.50	1.12	1.14	1.14	1.10	1.03	1.16	1.18	1.18	1.11	1.15
5315.	11.13	1.49	1.10	1.12	1.13	1.08	.98	1.15	1.17	1.17	1.09	1.14
5338.	11.37	1.49	1.13	1.16	1.16	1.11	1.04	1.17	1.20	1.20	1.13	1.16
5368.	11.17	1.50	1.12	1.13	1.14	1.09	.95	1.16	1.18	1.18	1.11	1.15
5528.	11.38	1.49	1.13	1.15	1.15	1.10	1.06	1.16	1.18	1.19	1.13	1.15

END OF
DISCHARGE

5082.	14.66	1.20										
		.84										
5099.	14.66	.85	1.45	1.44	1.44	1.48	1.60	1.43	1.42	1.47	1.42	1.43
		.85	1.46	1.45	1.45	1.49	1.61	1.45	1.43	1.46	1.44	1.45
5145.	14.59	.83	1.46	1.44	1.44	1.48	1.60	1.44	1.43	1.45	1.43	1.44
		.86	1.45	1.43	1.44	1.48	1.61	1.44	1.43	1.45	1.43	1.45
5179.	14.62	.86	1.45	1.43	1.44	1.48	1.61	1.44	1.43	1.45	1.43	1.45
5258.	14.48	.68	1.45	1.39	1.44	1.47	1.58	1.43	1.41	1.42	1.42	1.43
		.68	1.45	1.43	1.44	1.47	1.56	1.43	1.42	1.45	1.43	1.44
5306.	14.53	.68	1.45	1.43	1.44	1.47	1.54	1.43	1.42	1.45	1.43	1.44
		.68	1.45	1.43	1.44	1.47	1.54	1.43	1.42	1.45	1.43	1.44
5315.	14.52	.68	1.45	1.43	1.44	1.47	1.54	1.43	1.42	1.45	1.43	1.44
		.70	1.46	1.44	1.45	1.48	1.57	1.45	1.43	1.46	1.44	1.46
5338.	14.58	.70	1.46	1.44	1.45	1.48	1.57	1.45	1.43	1.46	1.44	1.46
		.64	1.46	1.44	1.44	1.47	1.54	1.44	1.43	1.46	1.44	1.45
5368.	14.54	.64	1.46	1.44	1.44	1.47	1.54	1.44	1.43	1.46	1.44	1.45
		.67	1.46	1.44	1.45	1.48	1.59	1.44	1.43	1.45	1.43	1.45
5528.	14.59	.67	1.46	1.44	1.45	1.48	1.59	1.44	1.43	1.45	1.43	1.45

END OF
CHARGE

60.

PACK NO. 53
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	1	2	3	4	5	6	7	8	9	10
2536.	12.32	1.52	1.21	1.22	1.24	1.24	1.24	1.23	1.24	1.24	1.24	1.21
2616.	12.32	1.52	1.22	1.23	1.25	1.25	1.25	1.25	1.25	1.25	1.23	1.23
2646.	12.32	1.52	1.21	1.23	1.24	1.24	1.25	1.24	1.24	1.25	1.25	1.22
2679.	12.36	1.51	1.22	1.23	1.24	1.25	1.25	1.24	1.25	1.25	1.25	1.23
2709.	12.33	1.51	1.21	1.23	1.24	1.24	1.25	1.24	1.24	1.25	1.24	1.22
2536.	15.61	.35										
2616.	15.69	.24	1.52	1.52	1.51	1.59	1.55	1.50	1.56	1.68	1.52	1.65
2646.	15.61	.25	1.56	1.55	1.54	1.61	1.56	1.51	1.59	1.69	1.58	1.58
2679.	15.58	.25	1.54	1.54	1.53	1.58	1.55	1.50	1.56	1.68	1.53	1.64
2709.	15.57	.26	1.54	1.53	1.53	1.58	1.55	1.50	1.56	1.67	1.52	1.64
		.26	1.53	1.53	1.53	1.57	1.54	1.50	1.55	1.67	1.52	1.64

END OF
DISCHARGE

END OF
CHARGE

61

PACK NO. 54
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2525.	11.64	2.46	1.18	1.16	1.02	1.16	1.20	1.19	1.18	1.20	1.19	1.19
2565.	11.64	2.54	1.19	1.16	1.03	1.16	1.20	1.18	1.17	1.19	1.18	1.18
2605.	11.65	2.53	1.19	1.02	1.04	1.17	1.19	1.20	1.19	1.17	1.21	1.21
2647.	11.70	2.54	1.19	1.16	1.04	1.17	1.21	1.20	1.19	1.21	1.20	1.20
2676.	11.65	2.52	1.18	1.16	1.03	1.16	1.20	1.19	1.19	1.20	1.20	1.19
2682.	12.15	2.55	1.22	1.20	1.14	1.20	1.24	1.23	1.22	1.24	1.23	1.23
2714.	11.86	2.53	1.20	1.18	1.08	1.18	1.22	1.21	1.20	1.22	1.21	1.21

END OF
DISCHARGE

		.58										
2525.	15.60	.40	1.51	1.58	1.60	1.52	1.53	1.60	1.66	1.64	1.52	1.49
2565.	15.67	.39	1.50	1.56	1.56	1.52	1.53	1.61	1.69	1.68	1.52	1.50
2605.	15.62	.40	1.50	1.52	1.57	1.52	1.53	1.61	1.63	1.65	1.51	1.49
2647.	15.73	.41	1.52	1.58	1.59	1.53	1.54	1.62	1.70	1.68	1.53	1.51
2676.	15.64	.41	1.51	1.57	1.58	1.52	1.54	1.61	1.67	1.65	1.53	1.50
2682.	15.36	.57	1.56	1.55	1.55	1.56	1.52	1.53	1.52	1.53	1.53	1.50
2714.	15.90	.49	1.52	1.59	1.57	1.54	1.56	1.65	1.69	1.71	1.54	1.52

END OF
CHARGE

62.

PACK NO. 5
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2553.	11.12	2.48	1.14	.93	1.08	1.15	1.14	1.11	1.15	1.17	1.16	1.14
2593.	11.00	2.50	1.12	.90	1.06	1.13	1.13	1.09	1.14	1.16	1.15	1.13
2673.	10.84	2.50	1.13	.87	1.06	1.13	1.10	1.10	1.14	1.15	1.13	1.13
2703.	10.60	2.50	1.12	.81	1.04	1.08	1.09	1.09	1.12	1.09	1.10	1.10
2736.	11.28	2.51	1.16	.93	1.10	1.16	1.17	1.17	1.17	1.18	1.17	1.15
2766.	11.06	2.51	1.13	.86	1.08	1.13	1.15	1.15	1.16	1.16	1.15	1.12

END OF
DISCHARGE

		.62										
2553.	14.21	.62	1.41	1.44	1.43	1.42	1.43	1.42	1.42	1.43	1.41	1.41
2593.	14.30	.62	1.42	1.44	1.43	1.42	1.43	1.42	1.43	1.44	1.42	1.41
2673.	14.34	.62	1.43	1.46	1.45	1.44	1.44	1.44	1.44	1.46	1.43	1.42
2703.	14.33	.62	1.43	1.45	1.44	1.43	1.44	1.43	1.43	1.45	1.43	1.42
2736.	14.39	.63	1.43	1.46	1.45	1.44	1.44	1.44	1.44	1.45	1.43	1.43
2766.	14.33	.62	1.43	1.45	1.44	1.43	1.44	1.43	1.43	1.45	1.42	1.42

END OF
CHARGE

63.

PACK NO. 6
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 4.00	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2476.	7.97	4.02	1.16	1.17	1.17	.00	1.17	1.13	1.14	.00	1.12	.00
2516.	7.95	4.00	1.16	1.16	1.17	.00	1.16	1.13	1.13	.00	1.12	.00
2556.	7.89	4.03	1.16	1.02	1.17	.00	1.13	1.13	1.13	.00	1.13	.00
2598.	7.94	4.03	1.16	1.16	1.16	.00	1.16	1.13	1.14	.00	1.12	.00
2627.	7.91	3.97	1.15	1.16	1.16	.00	1.16	1.12	1.13	.00	1.11	.00
2659.	7.99	4.04	1.16	1.16	1.16	.00	1.17	1.13	1.14	.00	1.13	.00
2691.	7.97	4.03	1.16	1.17	1.16	.00	1.17	1.13	1.13	.00	1.12	.00

END OF
DISCHARGE

64.

		1.00										
2476.	10.41	.99	1.47	1.52	1.47	.00	1.46	1.45	1.49	.00	1.58	.00
2516.	10.48	.97	1.46	1.52	1.46	.00	1.46	1.45	1.50	.00	1.64	.00
2556.	10.45	.97	1.46	1.50	1.47	.00	1.45	1.44	1.49	.00	1.63	.00
2598.	10.51	1.00	1.47	1.53	1.48	.00	1.46	1.46	1.52	.00	1.65	.00
2627.	10.55	.98	1.47	1.55	1.48	.00	1.47	1.46	1.52	.00	1.65	.00
2659.	10.41	.99	1.47	1.53	1.47	.00	1.46	1.45	1.50	.00	1.55	.00
2691.	10.57	.97	1.47	1.55	1.47	.00	1.46	1.45	1.53	.00	1.65	.00

END OF
CHARGE

PACK NO. 29
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2414.	10.79	1.52	.00	1.22	1.23	1.22	1.22	1.21	1.21	1.15	1.17	1.20
2454.	10.72	1.51	.00	1.21	1.22	1.21	1.21	1.20	1.20	1.13	1.16	1.19
2534.	10.74	1.50	.00	1.22	1.23	1.22	1.22	1.21	1.21	1.14	1.17	1.20
2564.	10.70	1.51	.00	1.21	1.22	1.21	1.21	1.20	1.20	1.13	1.16	1.19
2597.	10.70	1.52	.00	1.22	1.22	1.21	1.21	1.21	1.20	1.13	1.16	1.19
2627.	10.69	1.52	.00	1.21	1.22	1.21	1.21	1.20	1.20	1.12	1.16	1.19
END OF DISCHARGE												
		.48										
2414.	12.77	.48	.00	1.41	1.42	1.42	1.45	1.41	1.41	1.44	1.40	1.40
2454.	12.68	.47	.00	1.40	1.40	1.40	1.43	1.40	1.41	1.44	1.40	1.39
2534.	12.71	.47	.00	1.41	1.42	1.41	1.44	1.41	1.42	1.45	1.41	1.40
2564.	12.73	.47	.00	1.41	1.42	1.41	1.43	1.40	1.41	1.45	1.41	1.41
2597.	12.72	.48	.00	1.41	1.41	1.41	1.44	1.41	1.41	1.45	1.41	1.40
2627.	12.71	.48	.00	1.41	1.42	1.41	1.43	1.40	1.41	1.45	1.41	1.40
END OF CHARGE												

65.

PACK NO. 30
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2382.	10.49	2.47	1.18	1.19	1.18	1.15	1.19	1.18	.00	1.17	1.14	1.17
2422.	10.39	2.51	1.16	1.16	1.16	1.12	1.17	1.17	.00	1.16	1.12	1.16
2462.	10.36	2.49	1.17	1.06	1.18	1.15	1.17	1.18	.00	1.15	1.11	1.17
2504.	10.29	2.53	1.16	1.18	1.17	1.10	1.18	1.18	.00	1.17	1.09	1.16
2533.	10.32	2.50	1.16	1.17	1.17	1.11	1.17	1.17	.00	1.16	1.10	1.16
2565.	10.39	2.53	1.17	1.17	1.17	1.15	1.17	1.18	.00	1.17	1.09	1.16
2597.	10.20	2.50	1.16	1.17	1.17	1.06	1.17	1.17	.00	1.16	1.02	1.16

END OF
DISCHARGE

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2382.	13.00	.80	1.43	1.44	1.44	1.42	1.47	1.43	.00	1.44	1.44	1.49
2422.	12.96	.77	1.42	1.42	1.43	1.41	1.46	1.43	.00	1.44	1.44	1.48
2462.	12.95	.72	1.43	1.40	1.44	1.42	1.46	1.42	.00	1.42	1.42	1.48
2504.	13.10	.82	1.45	1.45	1.45	1.43	1.49	1.44	.00	1.46	1.45	1.54
2533.	13.07	.79	1.44	1.44	1.45	1.42	1.48	1.44	.00	1.45	1.44	1.53
2565.	13.03	.76	1.43	1.44	1.44	1.42	1.48	1.43	.00	1.45	1.42	1.51
2597.	13.07	.81	1.44	1.44	1.45	1.42	1.50	1.44	.00	1.45	1.42	1.53

END OF
CHARGE

66

PACK NO. 61
GULTON 6 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.80	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4716.	7.09	1.80	.99	1.24	1.20	.00	.00	.00	1.22	1.24	1.23	.00
4733.	7.07	1.80	.99	1.24	1.20	.00	.00	.00	1.22	1.23	1.23	.00
4779.	7.06	1.80	.99	1.24	1.20	.00	.00	.00	1.22	1.23	1.23	.00
4813.	7.09	1.80	.98	1.23	1.18	.00	.00	.00	1.22	1.23	1.23	.00
4892.	7.07	1.80	.98	1.14	1.20	.00	.00	.00	1.22	1.22	1.24	.00
4940.	7.02	1.80	.96	1.23	1.18	.00	.00	.00	1.22	1.23	1.22	.00
4949.	7.00	1.80	.95	1.23	1.18	.00	.00	.00	1.21	1.22	1.22	.00
5002.	7.07	1.80	.98	1.24	1.19	.00	.00	.00	1.23	1.24	1.24	.00
5068.	7.09	1.80	.98	1.25	1.20	.00	.00	.00	1.23	1.24	1.24	.00
5100.	7.05	1.79	.96	1.24	1.18	.00	.00	.00	1.23	1.24	1.23	.00
5131.	7.05	1.80	.96	1.24	1.18	.00	.00	.00	1.23	1.24	1.23	.00
5162.	7.04	1.80	.96	1.24	1.18	.00	.00	.00	1.23	1.24	1.23	.00

END OF
DISCHARGE

67.

		1.04										
4716.	9.34	.63	1.67	1.55	1.52	.00	.00	.00	1.52	1.54	1.54	.00
4733.	9.33	.65	1.68	1.55	1.52	.00	.00	.00	1.53	1.53	1.54	.00
4779.	9.28	.62	1.68	1.54	1.51	.00	.00	.00	1.53	1.53	1.54	.00
4813.	9.32	.63	1.67	1.54	1.51	.00	.00	.00	1.53	1.53	1.54	.00
4892.	9.30	.66	1.68	1.53	1.51	.00	.00	.00	1.52	1.52	1.53	.00
4940.	9.36	.62	1.69	1.56	1.51	.00	.00	.00	1.54	1.54	1.55	.00
4949.	9.34	.61	1.68	1.54	1.51	.00	.00	.00	1.53	1.54	1.55	.00
5002.	9.29	.62	1.68	1.54	1.51	.00	.00	.00	1.53	1.54	1.54	.00
5068.	9.36	.68	1.69	1.57	1.52	.00	.00	.00	1.54	1.54	1.55	.00
5100.	9.29	.66	1.67	1.54	1.50	.00	.00	.00	1.53	1.53	1.54	.00
5131.	9.33	.66	1.68	1.55	1.51	.00	.00	.00	1.54	1.54	1.55	.00
5162.	9.36	.68	1.69	1.56	1.51	.00	.00	.00	1.54	1.54	1.55	.00

END OF
CHARGE

PACK NO. 62
GULTON 6 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4872.	8.19	3.03	1.20	1.17	1.15	.00	.00	1.17	1.18	1.20	1.20	.00
4891.	8.24	3.01	1.21	1.18	1.16	.00	.00	1.17	1.18	1.20	1.20	.00
4935.	8.17	2.98	1.20	1.17	1.15	.00	.00	1.16	1.17	1.19	1.19	.00
5060.	8.09	3.00	1.19	1.15	1.13	.00	.00	1.15	1.15	1.17	1.18	.00
5098.	8.06	3.02	1.19	1.15	1.12	.00	.00	1.15	1.15	1.17	1.19	.00
5130.	8.00	3.02	1.19	1.14	1.11	.00	.00	1.15	1.15	1.17	1.19	.00
5158.	8.07	3.03	1.19	1.15	1.12	.00	.00	1.16	1.15	1.17	1.19	.00
5194.	8.26	3.02	1.21	1.18	1.15	.00	.00	1.17	1.19	1.21	1.21	.00
5226.	8.28	3.01	1.21	1.19	1.17	.00	.00	1.18	1.20	1.21	1.21	.00
5258.	8.24	3.02	1.21	1.18	1.15	.00	.00	1.17	1.18	1.21	1.20	.00
5287.	8.25	3.01	1.21	1.18	1.15	.00	.00	1.17	1.19	1.21	1.21	.00
5320.	8.21	3.01	1.21	1.17	1.14	.00	.00	1.16	1.18	1.20	1.20	.00

END OF
DISCHARGE

4872.	11.13	1.72	1.55	1.65	1.69	.00	.00	1.62	1.56	1.56	1.52	.00
4891.	10.80	.85	1.51	1.59	1.61	.00	.00	1.60	1.51	1.52	1.49	.00
4935.	10.83	.43	1.55	1.55	1.60	.00	.00	1.55	1.54	1.55	1.51	.00
5060.	10.90	.90	1.54	1.56	1.62	.00	.00	1.57	1.54	1.54	1.51	.00
5098.	10.93	.88	1.54	1.57	1.63	.00	.00	1.58	1.55	1.55	1.51	.00
5130.	10.57	.83	1.52	1.52	1.53	.00	.00	1.52	1.51	1.53	1.50	.00
5158.	11.37	1.22	1.59	1.68	1.71	.00	.00	1.68	1.59	1.60	1.55	.00
5194.	11.38	1.14	1.64	1.67	1.69	.00	.00	1.67	1.60	1.59	1.56	.00
5226.	11.35	1.15	1.63	1.67	1.69	.00	.00	1.67	1.59	1.59	1.55	.00
5258.	11.39	1.23	1.63	1.68	1.70	.00	.00	1.67	1.58	1.58	1.55	.00
5287.	11.37	1.19	1.62	1.68	1.70	.00	.00	1.67	1.58	1.59	1.55	.00
5320.	11.34	1.22	1.62	1.67	1.69	.00	.00	1.67	1.58	1.59	1.55	.00

END OF
CHARGE

PACK NO. 37
GULTON 6 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.80	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
4272.	6.79	1.80	1.21	.93	.00	.00	1.19	1.12	1.19	.00	1.19	.00
4289.	6.60	1.78	1.13	.89	.00	.00	1.18	1.10	1.17	.00	1.18	.00
4335.	6.39	1.78	1.09	.81	.00	.00	1.16	1.07	1.15	.00	1.16	.00
4369.	6.58	1.79	1.14	.88	.00	.00	1.17	1.08	1.14	.00	1.16	.00
4448.	6.24	1.80	1.08	.70	.00	.00	1.15	1.03	1.09	.00	1.15	.00
4496.	6.36	1.81	1.12	.81	.00	.00	1.17	1.03	1.12	.00	1.14	.00
4505.	6.16	1.81	1.07	.78	.00	.00	1.15	.98	1.08	.00	1.12	.00
4528.	6.12	1.81	1.05	.81	.00	.00	1.16	.98	1.06	.00	1.13	.00
4558.	5.68	1.81	.85	.79	.00	.00	1.13	.89	.95	.00	1.12	.00
4624.	6.20	1.79	1.21	.81	.00	.00	1.20	1.04	.84	.00	1.17	.00
4656.	6.24	1.81	1.12	.78	.00	.00	1.15	.90	1.20	.00	1.13	.00
4687.	6.20	1.80	1.07	.73	.00	.00	1.17	.94	1.19	.00	1.14	.00
4718.	6.41	1.80	1.17	.79	.00	.00	1.18	1.00	1.16	.00	1.15	.00

END OF
DISCHARGE

69.

		1.44										
4272.	8.80	1.20	1.44	1.52	.00	.00	1.45	1.49	1.45	.00	1.43	.00
4289.	8.73	1.09	1.42	1.53	.00	.00	1.44	1.49	1.44	.00	1.43	.00
4335.	8.65	1.10	1.41	1.51	.00	.00	1.44	1.48	1.43	.00	1.42	.00
4369.	8.67	1.12	1.41	1.51	.00	.00	1.44	1.48	1.43	.00	1.42	.00
4448.	8.67	1.14	1.41	1.50	.00	.00	1.43	1.47	1.42	.00	1.42	.00
4496.	8.71	1.06	1.42	1.52	.00	.00	1.44	1.49	1.44	.00	1.51	.00
4505.	8.68	1.07	1.42	1.52	.00	.00	1.44	1.48	1.42	.00	1.42	.00
4528.	8.68	1.07	1.43	1.52	.00	.00	1.45	1.49	1.43	.00	1.43	.00
4558.	8.66	1.00	1.41	1.52	.00	.00	1.43	1.48	1.42	.00	1.43	.00
4624.	8.67	1.13	1.42	1.51	.00	.00	1.44	1.48	1.43	.00	1.43	.00
4656.	8.66	1.09	1.41	1.50	.00	.00	1.43	1.47	1.43	.00	1.42	.00
4687.	8.67	1.10	1.42	1.50	.00	.00	1.44	1.48	1.44	.00	1.43	.00
4718.	8.71	1.11	1.42	1.52	.00	.00	1.44	1.48	1.44	.00	1.43	.00

END OF
CHARGE

PACK NO. 65
GULTON 6 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.80	CELL VOLTAGES											
			1	2	3	4	5	6	7	8	9	10		
2668.	12.42	1.81	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.22	1.25	1.25	1.19	END OF DISCHARGE
2748.	12.40	1.81	1.26	1.26	1.26	1.26	1.26	1.26	1.23	1.26	1.26	1.19		
2778.	12.38	1.81	1.25	1.25	1.25	1.26	1.25	1.25	1.22	1.25	1.26	1.19		
2811.	12.38	1.81	1.25	1.26	1.25	1.26	1.26	1.25	1.22	1.25	1.25	1.19		
2841.	12.37	1.81	1.25	1.25	1.25	1.25	1.25	1.25	1.22	1.25	1.25	1.18		
		.41												
2668.	15.55	.37	1.58	1.57	1.55	1.54	1.53	1.52	1.61	1.53	1.50	1.61	END OF CHARGE	
2748.	15.53	.35	1.58	1.56	1.55	1.54	1.53	1.53	1.64	1.53	1.51	1.64		
2778.	15.51	.33	1.57	1.56	1.54	1.53	1.52	1.51	1.63	1.52	1.51	1.64		
2811.	15.76	.31	1.62	1.64	1.56	1.54	1.53	1.53	1.66	1.53	1.51	1.68		
2841.	15.63	.31	1.59	1.60	1.54	1.53	1.52	1.52	1.66	1.52	1.50	1.68		

PACK NO. 66
GULTON 6 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2347.	5.86	2.90	1.18	1.20	.00	1.14	.00	.00	.00	.00	1.19	1.19
2387.	5.87	2.91	1.17	1.18	.00	1.14	.00	.00	.00	.00	1.19	1.19
2427.	5.86	2.90	1.19	1.10	.00	1.14	.00	.00	.00	.00	1.20	1.20
2469.	5.85	2.90	1.18	1.20	.00	1.11	.00	.00	.00	.00	1.20	1.20
2498.	5.81	2.87	1.18	1.20	.00	1.08	.00	.00	.00	.00	1.19	1.19
2504.	6.09	3.04	1.22	1.23	.00	1.22	.00	.00	.00	.00	1.23	1.23
2536.	5.95	3.03	1.20	1.21	.00	1.18	.00	.00	.00	.00	1.20	1.20

END OF
DISCHARGE

		.69										
2347.	7.69	.44	1.55	1.57	.00	1.52	.00	.00	.00	.00	1.54	1.53
2387.	7.71	.44	1.55	1.57	.00	1.51	.00	.00	.00	.00	1.54	1.53
2427.	7.69	.41	1.54	1.56	.00	1.51	.00	.00	.00	.00	1.53	1.52
2469.	7.74	.45	1.56	1.58	.00	1.52	.00	.00	.00	.00	1.55	1.55
2498.	7.69	.45	1.54	1.57	.00	1.51	.00	.00	.00	.00	1.55	1.54
2504.	7.81	.55	1.54	1.53	.00	1.69	.00	.00	.00	.00	1.53	1.52
2536.	7.80	.57	1.56	1.57	.00	1.60	.00	.00	.00	.00	1.55	1.53

END OF
CHARGE

71.

PACK NO. 17
GULTON 6 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	CELL VOLTAGES										
			1	2	3	4	5	6	7	8		9	10
2481.	5.65	2.99	.00	.00	.00	1.12	.00	1.13	1.13	1.17	1.13	.00	END OF DISCHARGE
2561.	5.62	2.98	.00	.00	.00	1.12	.00	1.13	1.13	1.17	1.12	.00	
2591.	5.51	2.99	.00	.00	.00	1.10	.00	1.10	1.10	1.14	1.09	.00	
2624.	5.58	2.98	.00	.00	.00	1.13	.00	1.13	1.12	1.16	1.10	.00	
2654.	5.42	2.96	.00	.00	.00	1.07	.00	1.10	1.08	1.14	1.07	.00	
2481.	7.14	.75	.00	.00	.00	1.42	.00	1.44	1.42	1.45	1.43	.00	END OF CHARGE
2561.	7.18	.74	.00	.01	.00	1.44	.00	1.45	1.44	1.46	1.43	.00	
2591.	7.16	.75	.00	.00	.00	1.44	.00	1.44	1.43	1.45	1.42	.00	
2624.	7.21	.74	.00	.00	.00	1.45	.00	1.46	1.44	1.46	1.43	.00	
2654.	7.16	.76	.00	.00	.00	1.44	.00	1.44	1.43	1.45	1.42	.00	

72.

PACK NO. 42
GULTON 6 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
2178.	6.97	3.04	.00	1.18	1.18	1.13	1.17	1.19	.00	.00	.00	1.16
2218.	7.14	3.01	.00	1.21	1.22	1.19	1.19	1.20	.00	.00	.00	1.18
2300.	6.95	3.03	.00	1.18	1.18	1.14	1.17	1.19	.00	.00	.00	1.17
2329.	6.88	3.03	.00	1.17	1.17	1.11	1.16	1.18	.00	.00	.00	1.15
2359.	6.89	3.01	.00	1.17	1.16	1.10	1.16	1.18	.00	.00	.00	1.15
2393.	6.91	3.02	.00	1.18	1.17	1.10	1.17	1.18	.00	.00	.00	1.16

END OF
DISCHARGE

2178.	9.05	.96	.00	1.54	1.46	1.60	1.46	1.53	.00	.00	.00	1.50
2218.	8.87	.93	.00	1.53	1.45	1.51	1.45	1.47	.00	.00	.00	1.47
2300.	9.09	.86	.00	1.55	1.46	1.60	1.46	1.55	.00	.00	.00	1.51
2329.	9.07	.84	.00	1.55	1.46	1.59	1.46	1.55	.00	.00	.00	1.50
2359.	9.05	.87	.00	1.54	1.45	1.59	1.45	1.54	.00	.00	.00	1.50
2393.	9.08	.85	.00	1.56	1.45	1.59	1.46	1.56	.00	.00	.00	1.50

END OF
CHARGE

73.

PACK NO. 110
G.E. 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0. C.
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT CELL VOLTAGES
NO. VOLTAGE 3.60 1 2 3 4 5

4914.	6.14	3.64	1.24	1.23	1.24	1.23	1.23
4931.	6.08	3.63	1.23	1.22	1.23	1.22	1.22
4977.	6.21	3.63	1.25	1.24	1.25	1.25	1.24
5011.	6.11	3.62	1.23	1.22	1.23	1.23	1.23
5090.	6.16	3.61	1.24	1.14	1.25	1.24	1.24
5138.	6.14	3.63	1.23	1.22	1.24	1.23	1.23
5147.	6.12	3.63	1.23	1.22	1.23	1.23	1.23
5170.	6.17	3.62	1.00	1.23	1.25	1.25	1.25
5200.	6.17	3.63	1.24	1.23	1.24	1.24	1.24
5266.	6.24	3.60	1.26	1.25	1.26	1.25	1.25
5298.	6.22	3.63	1.25	1.24	1.25	1.25	1.25
5329.	6.21	3.62	1.25	1.24	1.25	1.25	1.25
5360.	6.20	3.60	1.25	1.24	1.25	1.25	1.24

END OF
DISCHARGE

4914.	7.77	2.07	1.56	1.60	1.53	1.54	1.53
4931.	7.63	1.66	1.54	1.55	1.52	1.53	1.52
4977.	8.00	1.44	1.62	1.65	1.58	1.59	1.58
5011.	7.58	1.39	1.53	1.54	1.51	1.52	1.51
5090.	7.78	1.41	1.56	1.60	1.53	1.54	1.54
5138.	7.87	1.37	1.59	1.63	1.54	1.57	1.56
5147.	7.84	1.36	1.58	1.62	1.54	1.56	1.55
5170.	7.85	1.39	1.59	1.63	1.55	1.57	1.56
5200.	7.89	1.50	1.59	1.63	1.55	1.57	1.57
5266.	7.98	1.58	1.61	1.65	1.58	1.58	1.58
5298.	7.91	1.47	1.60	1.62	1.56	1.57	1.57
5329.	7.95	1.46	1.61	1.64	1.57	1.58	1.58
5360.	7.94	1.49	1.60	1.64	1.57	1.58	1.57

END OF
CHARGE

74.

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

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 °C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGE 6.00 1 2 3 4 5

4729. 6.03 5.89 1.21 1.21 1.16 1.21 1.22
4746. 5.94 5.85 1.20 1.20 1.15 1.20 1.21
4792. 5.95 5.92 1.20 1.21 1.16 1.21 1.22
4826. 5.32 5.61 1.13 1.14 .80 1.14 1.16
4905. 6.08 5.99 1.23 1.23 1.14 1.23 1.24
4953. 6.08 6.02 1.23 1.23 1.16 1.23 1.23
4962. 6.05 6.02 1.22 1.23 1.16 1.22 1.23
4985. 6.29 6.03 1.28 1.28 1.23 1.28 1.28
5015. 6.02 5.93 1.22 1.22 1.15 1.22 1.22
5081. 6.01 6.01 1.22 1.22 1.17 1.22 1.23
5113. 5.99 6.00 1.22 1.22 1.16 1.22 1.22
5144. 6.01 6.00 1.22 1.22 1.17 1.22 1.23
5175. 6.00 6.00 1.21 1.22 1.16 1.22 1.23

END OF
DISCHARGE

3.45
4729. 8.04 1.97 1.60 1.57 1.65 1.57 1.60
4746. 7.97 2.10 1.61 1.56 1.67 1.56 1.60
4792. 7.96 2.05 1.61 1.56 1.67 1.56 1.60
4826. 7.10 3.33 1.40 1.40 1.50 1.40 1.42
4905. 7.82 1.80 1.56 1.55 1.60 1.54 1.54
4953. 8.18 2.23 1.65 1.60 1.71 1.59 1.65
4962. 8.16 2.20 1.64 1.60 1.71 1.59 1.65
4985. 7.80 1.61 1.57 1.56 1.63 1.55 1.56
5015. 8.01 1.84 1.62 1.57 1.68 1.56 1.63
5081. 8.01 2.17 1.61 1.56 1.69 1.56 1.63
5113. 8.03 2.18 1.62 1.56 1.69 1.56 1.63
5144. 8.08 2.23 1.61 1.58 1.70 1.58 1.64
5175. 8.07 2.29 1.61 1.58 1.70 1.58 1.63

END OF
CHARGE

75.

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

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES				
			1	2	3	4	5

5110.	5.69	5.99	1.15	1.15	1.12	1.13	1.16
5127.	5.74	5.98	1.17	1.16	1.15	1.15	1.17
5173.	5.75	5.99	1.17	1.16	1.15	1.15	1.17
5207.	5.75	6.01	1.16	1.15	1.14	1.15	1.16
5286.	5.79	5.95	1.17	1.07	1.16	1.17	1.18
5334.	5.68	5.94	1.15	1.14	1.12	1.13	1.15
5343.	5.63	5.94	1.15	1.14	1.11	1.12	1.15
5366.	5.74	5.97	1.17	1.16	1.15	1.15	1.17
5396.	5.72	5.98	1.16	1.16	1.13	1.14	1.16
5462.	5.73	5.94	1.17	1.17	1.14	1.15	1.16
5494.	5.72	5.98	1.16	1.16	1.14	1.15	1.16
5525.	5.73	5.96	1.16	1.16	1.14	1.15	1.16
5556.	5.71	5.94	1.16	1.16	1.13	1.15	1.15

END OF
DISCHARGE

76.

		3.75					
5110.	7.36	3.73	1.48	1.47	1.46	1.46	1.48
5127.	7.37	3.71	1.50	1.48	1.48	1.47	1.49
5173.	7.38	3.72	1.50	1.48	1.48	1.48	1.49
5207.	7.37	3.70	1.49	1.47	1.47	1.47	1.49
5286.	7.43	3.72	1.50	1.48	1.48	1.47	1.49
5334.	7.35	3.73	1.49	1.47	1.46	1.46	1.48
5343.	7.37	3.75	1.49	1.47	1.47	1.47	1.49
5366.	7.39	3.72	1.50	1.48	1.48	1.48	1.50
5396.	7.36	3.72	1.50	1.47	1.47	1.47	1.48
5462.	7.39	3.70	1.50	1.49	1.48	1.48	1.49
5494.	7.37	3.72	1.50	1.48	1.47	1.47	1.48
5525.	7.41	3.74	1.51	1.49	1.48	1.48	1.50
5556.	7.36	3.71	1.50	1.48	1.47	1.47	1.48

END OF
CHARGE

PACK NO. 85
G.E. 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	CELL VOLTAGES				
			1	2	3	4	5

4863.	6.04	3.49	1.20	1.19	1.19	1.18	1.29
4888.	5.99	3.56	1.20	1.20	1.19	1.19	1.20
4945.	5.99	3.59	1.20	1.20	1.19	1.19	1.20
4986.	5.97	3.61	1.20	1.19	1.18	1.18	1.19
5015.	6.02	3.60	1.21	1.21	1.20	1.20	1.21
5045.	6.01	3.62	1.20	1.20	1.19	1.19	1.20
5079.	5.96	3.59	1.20	1.19	1.19	1.18	1.20
5111.	5.96	3.60	1.21	1.21	1.19	1.19	1.20
5149.	5.95	3.62	1.21	1.20	1.19	1.19	1.19
5174.	5.98	3.62	1.21	1.20	1.19	1.19	1.20
5205.	5.98	3.61	1.20	1.20	1.19	1.19	1.20

END OF
DISCHARGE

4863.	7.26	2.88	1.43	1.44	1.45	1.44	1.44
4888.	7.12	2.66	1.42	1.42	1.43	1.42	1.42
4945.	7.20	2.54	1.43	1.44	1.45	1.44	1.43
4986.	7.22	2.56	1.44	1.44	1.45	1.44	1.43
5015.	7.26	2.56	1.45	1.45	1.46	1.45	1.44
5045.	7.22	2.30	1.44	1.44	1.45	1.44	1.44
5079.	7.21	2.00	1.44	1.44	1.46	1.44	1.44
5111.	7.17	2.03	1.44	1.45	1.45	1.44	1.43
5149.	7.16	1.99	1.44	1.44	1.45	1.44	1.43
5174.	7.21	2.00	1.44	1.44	1.45	1.44	1.43
5205.	7.21	2.11	1.44	1.44	1.45	1.44	1.43

END OF
CHARGE

77,

PACK NO. 99
G.E. 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	CELL VOLTAGES 4	5
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4332.	3.39	5.99	1.16	.00	.00	1.14	1.11
4407.	3.79	5.09	1.24	.00	.00	1.27	1.26
4489.	3.35	5.96	1.14	.00	.00	1.13	1.10
4530.	3.04	5.95	.86	.00	.00	1.12	1.09
4559.	3.22	5.96	1.00	.00	.00	1.14	1.12
4589.	3.23	5.96	1.01	.00	.00	1.14	1.11
4623.	3.36	5.97	1.16	.00	.00	1.13	1.10
4655.	4.16	5.58	1.38	.00	.00	1.41	1.40
4693.	2.83	5.96	1.02	.00	.00	1.13	1.11
4718.	3.14	5.95	.95	.00	.00	1.13	1.10
4749.	2.97	5.93	.78	.00	.00	1.11	1.09

END OF
DISCHARGE

78.

		4.80					
4332.	4.34	3.41	1.44	.00	.00	1.46	1.44
4407.	4.40	3.40	1.44	.00	.00	1.49	1.46
4489.	4.37	3.41	1.45	.00	.00	1.48	1.45
4530.	4.38	3.49	1.45	.00	.00	1.49	1.46
4559.	4.40	3.53	1.46	.00	.00	1.51	1.48
4589.	4.37	2.98	1.45	.00	.00	1.48	1.46
4623.	4.38	2.94	1.46	.00	.00	1.48	1.46
4655.	4.36	4.75	1.45	.00	.00	1.47	1.46
4693.	4.40	4.81	1.45	.00	.00	1.51	1.47
4718.	4.42	4.84	1.46	.00	.00	1.51	1.47
4749.	4.40	4.35	1.46	.00	.00	1.49	1.46

END OF
CHARGE

PACK NO. 111
G.E. 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 ° C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	CELL VOLTAGES				
			1	2	3	4	5

2490.	6.14	3.65	1.24	1.24	1.22	1.23	1.23
2530.	6.14	3.63	1.24	1.24	1.22	1.24	1.23
2570.	6.17	3.63	1.24	1.24	1.20	1.24	1.24
2612.	6.15	3.70	1.24	1.24	1.23	1.24	1.23
2673.	6.22	3.64	1.25	1.25	1.24	1.25	1.25
2705.	6.21	3.64	1.25	1.25	1.24	1.25	1.24

END OF
DISCHARGE

2490.	7.79	.83	1.60	1.52	1.61	1.50	1.53
2530.	7.82	.54	1.61	1.51	1.62	1.50	1.54
2570.	7.75	.53	1.60	1.50	1.60	1.40	1.52
2612.	7.78	.55	1.62	1.52	1.63	1.51	1.55
2673.	7.76	.56	1.58	1.53	1.61	1.52	1.56
2705.	7.81	.64	1.61	1.53	1.61	1.52	1.55

END OF
CHARGE

79,

PACK NO. 125
G.E. 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	CELL VOLTAGES 4 5	
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2489.	5.93	6.00	1.19	1.20	1.20	1.20	1.20
2529.	5.92	5.98	1.20	1.20	1.20	1.20	1.20
2569.	5.97	5.94	1.20	1.11	1.21	1.21	1.21
2611.	5.97	5.99	1.20	1.20	1.21	1.21	1.21
2672.	6.01	5.97	1.21	1.21	1.21	1.21	1.20
2704.	6.03	5.95	1.21	1.22	1.22	1.22	1.22

END OF
DISCHARGE

		1.38					
2489.	7.49	.94	1.52	1.52	1.47	1.52	1.51
2529.	7.52	.90	1.55	1.54	1.49	1.54	1.52
2569.	7.71	.88	1.58	1.55	1.52	1.53	1.51
2611.	7.76	.86	1.61	1.58	1.55	1.54	1.53
2672.	7.75	.87	1.61	1.58	1.53	1.54	1.52
2704.	7.79	.88	1.61	1.59	1.56	1.54	1.52

END OF
CHARGE

80.

PACK NO. 83
G.E. 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	CELL VOLTAGES 4	5
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2531.	5.77	5.96	1.18	1.16	1.15	1.16	1.15
2571.	5.73	5.97	1.17	1.15	1.15	1.15	1.14
2611.	5.78	5.96	1.18	1.16	1.12	1.16	1.16
2653.	5.69	5.95	1.16	1.15	1.14	1.14	1.12
2714.	5.74	5.97	1.17	1.15	1.15	1.15	1.15
2746.	5.76	6.04	1.17	1.16	1.15	1.15	1.14

END OF
DISCHARGE

		1.50					
2531.	7.15	1.52	1.44	1.43	1.43	1.42	1.42
2571.	7.13	1.50	1.44	1.43	1.43	1.42	1.42
2611.	7.16	1.47	1.43	1.42	1.42	1.42	1.41
2653.	7.16	1.49	1.44	1.44	1.44	1.43	1.43
2682.	19.99	5.92	1.33	1.36	4.65	1.35	1.36
2714.	7.12	1.54	1.43	1.43	1.43	1.43	1.42
2746.	7.14	1.52	1.43	1.43	1.42	1.42	1.41

END OF
CHARGE

81.

PACK NO. 97
G.E. 12 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 9.60	CELL VOLTAGES				
			1	2	3	4	5

2521.	5.60	9.45	1.13	1.14	1.12	1.13	1.13
2561.	5.52	9.45	1.12	1.13	1.09	1.12	1.13
2601.	5.90	8.76	1.20	1.10	1.21	1.19	1.20
2643.	5.51	9.49	1.12	1.12	1.10	1.11	1.12
2704.	5.60	9.48	1.13	1.14	1.13	1.12	1.12
2736.	5.65	9.66	1.14	1.15	1.14	1.13	1.14

END OF
DISCHARGE

		2.40					
2521.	7.35	2.18	1.47	1.49	1.46	1.49	1.48
2561.	7.31	2.23	1.47	1.48	1.44	1.47	1.47
2601.	7.25	2.35	1.45	1.45	1.43	1.45	1.46
2643.	7.43	2.36	1.49	1.51	1.46	1.50	1.50
2704.	7.41	2.43	1.49	1.50	1.46	1.49	1.49
2736.	7.37	2.40	1.48	1.50	1.46	1.49	1.49

END OF
CHARGE

82

PACK NO. 86
G.E. 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES				
			3.60	1	2	3	4

2428.	5.88	3.62	1.20	1.17	1.17	1.19	1.18
2468.	5.91	3.61	1.16	1.14	1.15	1.17	1.17
2507.	5.83	3.52	1.19	1.03	1.18	1.19	1.16
2540.	5.83	3.56	1.19	1.16	1.17	1.19	1.18
2573.	6.16	3.63	1.25	1.15	1.24	1.25	1.25
2605.	5.85	3.55	1.19	1.16	1.17	1.19	1.18

END OF
DISCHARGE

		1.15					
2428.	6.94	1.16	1.40	1.40	1.40	1.39	1.40
2468.	6.98	1.16	1.39	1.39	1.39	1.39	1.39
2507.	7.03	1.16	1.40	1.40	1.41	1.40	1.41
2540.	7.04	1.17	1.42	1.42	1.42	1.42	1.42
2573.	7.04	1.17	1.42	1.42	1.42	1.41	1.42
2605.	7.03	1.17	1.42	1.42	1.41	1.41	1.42

END OF
CHARGE

83

PACK NO. 100
G.E. 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES				
			1	2	3	4	5
2295.	5.69	5.93	1.17	1.15	1.14	1.12	1.12
2335.	5.74	5.93	1.16	1.16	1.16	1.15	1.15
2374.	5.65	5.88	1.17	1.15	1.08	1.11	1.12
2407.	5.66	5.92	1.18	1.16	1.16	1.12	1.12
2440.	5.74	5.95	1.18	1.17	1.13	1.14	1.15
2472.	5.63	5.97	1.16	1.15	1.14	1.11	1.11

END OF
DISCHARGE

		1.92					
2295.	7.07	1.94	1.43	1.42	1.42	1.40	1.41
2335.	7.14	1.93	1.44	1.43	1.43	1.40	1.42
2374.	7.15	1.93	1.45	1.44	1.43	1.41	1.42
2407.	7.21	1.94	1.47	1.46	1.46	1.44	1.45
2440.	7.23	1.94	1.47	1.46	1.46	1.43	1.44
2472.	7.21	1.93	1.47	1.46	1.46	1.43	1.44

END OF
CHARGE

84.

PACK NO. 84
GOULD 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGE 6.00 1 2 3 4 5

4847.	6.91	.03	1.39	1.39	1.37	1.39	1.38
4866.	6.30	6.02	1.28	1.28	1.26	1.25	1.26
4910.	6.30	6.01	1.28	1.28	1.26	1.25	1.26
5035.	6.25	5.99	1.26	1.26	1.25	1.24	1.25
5073.	6.25	6.05	1.26	1.26	1.25	1.24	1.25
5105.	6.25	6.05	1.26	1.26	1.25	1.25	1.26
5133.	6.26	6.05	1.27	1.27	1.25	1.24	1.25
5169.	6.27	6.00	1.27	1.27	1.26	1.25	1.26
5201.	6.29	6.06	1.27	1.28	1.27	1.25	1.26
5233.	6.31	6.04	1.27	1.27	1.26	1.25	1.27
5262.	6.33	5.97	1.28	1.28	1.27	1.26	1.27
5295.	6.30	6.02	1.27	1.27	1.26	1.25	1.26

END OF
DISCHARGE

85.

		3.45					
4847.	7.85	2.93	1.55	1.59	1.59	1.56	1.58
4866.	7.95	2.56	1.57	1.58	1.61	1.56	1.57
4910.	7.78	2.40	1.55	1.55	1.56	1.55	1.55
5035.	7.75	2.61	1.53	1.55	1.56	1.54	1.55
5073.	7.72	2.41	1.53	1.54	1.55	1.54	1.55
5105.	7.79	2.38	1.56	1.57	1.58	1.54	1.56
5133.	7.74	2.44	1.54	1.56	1.56	1.54	1.55
5169.	7.78	2.58	1.55	1.57	1.58	1.55	1.57
5201.	7.78	2.57	1.55	1.57	1.59	1.55	1.56
5233.	7.82	2.56	1.56	1.56	1.59	1.56	1.57
5262.	7.83	2.61	1.56	1.57	1.59	1.56	1.57
5295.	7.86	2.80	1.56	1.57	1.60	1.57	1.58

END OF
CHARGE

PACK NO. 98
GOULD 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES				
			1	2	3	4	5

4654.	4.34	8.26	.91	1.18	1.10	1.19	.00
4673.	4.02	7.52	.80	1.13	.97	1.14	.00
4717.	4.66	9.98	1.00	1.25	1.22	1.25	.00
4842.	4.54	8.46	.98	1.21	1.16	1.21	.00
4880.	4.55	8.51	.98	1.22	1.16	1.22	.00
4912.	4.61	8.37	1.01	1.23	1.19	1.24	.00
4940.	4.62	8.49	1.01	1.23	1.18	1.24	.00
5008.	4.56	9.53	.98	1.23	1.17	1.23	.00
5040.	4.60	9.85	.98	1.23	1.19	1.24	.00
5069.	4.60	9.84	.98	1.23	1.19	1.24	.00
5102.	4.59	9.83	.98	1.23	1.18	1.23	.00

END OF
DISCHARGE

		5.75					
4654.	5.85	3.30	1.53	1.44	1.45	1.45	.00
4673.	6.05	5.80	1.64	1.46	1.50	1.47	.00
4717.	6.17	1.58	1.57	1.53	1.55	1.55	.00
4842.	6.05	4.12	1.59	1.47	1.50	1.50	.00
4880.	6.08	4.02	1.60	1.48	1.51	1.51	.00
4912.	6.13	4.06	1.61	1.50	1.53	1.53	.00
4940.	6.12	3.96	1.61	1.49	1.53	1.53	.00
5008.	6.15	4.14	1.62	1.50	1.53	1.53	.00
5040.	6.23	3.70	1.63	1.51	1.55	1.55	.00
5069.	6.22	3.76	1.63	1.52	1.55	1.54	.00
5102.	6.45	4.71	1.71	1.56	1.60	1.61	.00

END OF
CHARGE

PACK NO. 112
GOULD 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	CELL VOLTAGES 4	5
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4620.	5.79	5.96	1.11	1.15	1.25	1.17	1.14
4639.	5.60	5.99	1.06	1.13	1.23	1.10	1.09
4683.	5.58	5.99	1.04	1.15	1.20	1.15	1.05
4772.	5.91	6.00	1.10	1.21	1.26	1.22	1.16
4810.	5.89	5.96	1.11	1.20	1.26	1.22	1.14
4842.	5.11	5.87	.92	1.07	1.11	1.10	.98
4870.	5.84	5.96	1.09	1.20	1.25	1.21	1.13
4906.	5.68	5.92	1.06	1.17	1.22	1.18	1.09
4938.	5.65	5.97	1.06	1.17	1.24	1.17	1.09
4970.	6.33	5.36	1.22	1.32	1.32	1.25	1.24
4973.	5.92	5.91	1.13	1.19	1.29	1.21	1.16

END OF
DISCHARGE

27.

		4.80					
4620.	7.54	2.30	1.53	1.57	1.44	1.50	1.51
4639.	7.39	1.99	1.50	1.51	1.42	1.47	1.48
4683.	7.32	2.35	1.49	1.48	1.43	1.46	1.45
4772.	7.50	2.90	1.53	1.54	1.44	1.48	1.49
4810.	7.21	1.16	1.46	1.46	1.42	1.44	1.45
4842.	7.16	1.96	1.45	1.46	1.42	1.43	1.44
4870.	7.40	2.11	1.51	1.51	1.44	1.47	1.49
4906.	7.37	2.39	1.50	1.50	1.44	1.47	1.49
4938.	7.41	2.44	1.52	1.51	1.45	1.48	1.50
4970.	7.32	1.73	1.49	1.48	1.44	1.47	1.48
4973.	7.79	4.84	1.57	1.65	1.47	1.55	1.58

END OF
CHARGE

PACK NO. 80
GOULD 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	CELL VOLTAGES 4	5
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2461.	6.18	6.09	1.25	1.25	1.22	1.26	1.26
2476.	6.28	6.06	1.26	1.26	1.23	1.28	1.28
2556.	6.21	6.13	1.26	1.26	1.23	1.27	1.27
2586.	6.21	6.10	1.26	1.25	1.22	1.27	1.26
2619.	6.21	6.17	1.26	1.26	1.22	1.27	1.27
2649.	6.19	6.16	1.25	1.25	1.22	1.26	1.26

END OF
DISCHARGE

		1.38					
2461.	7.76	1.16	1.54	1.57	1.58	1.55	1.57
2476.	7.69	.79	1.52	1.55	1.57	1.53	1.55
2556.	7.80	1.01	1.53	1.60	1.61	1.55	1.57
2586.	7.74	1.03	1.53	1.57	1.58	1.54	1.56
2619.	7.73	1.07	1.53	1.57	1.58	1.54	1.56
2649.	7.74	1.10	1.53	1.57	1.58	1.54	1.56

END OF
CHARGE

80

PACK NO. 94
GOULD 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	CELL VOLTAGES				
			1	2	3	4	5

2307.	6.11	9.77	1.25	1.23	1.22	1.24	1.23
2347.	6.07	9.84	1.24	1.22	1.21	1.23	1.22
2457.	6.14	9.64	1.25	1.24	1.23	1.24	1.24
2490.	6.09	9.63	1.25	1.23	1.21	1.23	1.22
2520.	6.14	9.81	1.25	1.23	1.22	1.24	1.23

END OF
DISCHARGE

2307.	7.82	2.30					
		1.73	1.52	1.52	1.60	1.59	1.61
2347.	7.80	1.46	1.52	1.52	1.59	1.58	1.60
2457.	7.84	1.61	1.53	1.53	1.60	1.61	1.59
2490.	7.85	2.12	1.50	1.50	1.64	1.61	1.63
2520.	7.85	1.74	1.54	1.54	1.59	1.62	1.58

END OF
CHARGE

PACK NO. 105
GOULD 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	1	2	3	CELL VOLTAGES 4	5
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2382.	5.91	10.17	1.17	1.19	1.20	1.21	1.20
2422.	5.89	9.99	1.15	1.18	1.20	1.20	1.20
2462.	5.89	10.17	1.16	1.09	1.21	1.21	1.20
2504.	5.90	10.30	1.16	1.19	1.20	1.21	1.20
2533.	5.90	9.94	1.16	1.19	1.20	1.21	1.20
2556.	5.89	10.14	1.16	1.19	1.20	1.20	1.19

END OF
DISCHARGE

		2.50					
2382.	7.34	2.48	1.51	1.46	1.47	1.46	1.48
2422.	7.31	2.48	1.49	1.45	1.46	1.46	1.47
2462.	7.31	2.50	1.49	1.45	1.46	1.45	1.46
2504.	7.34	2.50	1.51	1.47	1.47	1.47	1.48
2533.	7.33	2.47	1.50	1.46	1.47	1.46	1.48
2556.	7.39	2.48	1.53	1.47	1.47	1.47	1.49

END OF
CHARGE

PACK NO. 108
GOULD 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES				
			1	2	3	4	5

2267.	6.06	6.01	1.22	1.21	1.23	1.20	1.24
2307.	6.03	6.05	1.21	1.20	1.22	1.20	1.23
2387.	6.00	6.03	1.23	1.22	1.22	1.21	1.23
2417.	6.01	6.01	1.21	1.20	1.21	1.20	1.23
2450.	6.01	6.09	1.21	1.20	1.22	1.20	1.23
2480.	6.00	6.04	1.21	1.20	1.22	1.20	1.23

END OF
DISCHARGE

		1.92					
2267.	7.19	1.85	1.44	1.44	1.43	1.45	1.45
2307.	7.15	1.87	1.43	1.43	1.42	1.44	1.43
2387.	7.14	1.55	1.44	1.44	1.43	1.45	1.44
2417.	7.18	1.42	1.44	1.44	1.43	1.45	1.44
2450.	7.19	1.45	1.44	1.44	1.43	1.45	1.45
2480.	7.19	1.48	1.44	1.44	1.43	1.45	1.44

END OF
CHARGE

PACK NO. 73.
GULTON 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	CELL VOLTAGES				
			1	2	3	4	5

4748.	4.40	10.06	1.09	1.13	.00	1.10	1.11
4765.	4.44	10.06	1.11	1.15	.00	1.12	1.12
4811.	4.39	10.07	1.11	1.14	.00	1.09	1.10
4845.	4.42	10.06	1.10	1.14	.00	1.10	1.11
4924.	4.38	10.10	1.11	1.04	.00	1.10	1.10
4972.	4.43	10.07	1.10	1.14	.00	1.11	1.11
4981.	4.37	10.09	1.09	1.13	.00	1.09	1.09
5004.	4.42	10.07	1.11	1.15	.00	1.10	1.12
5034.	4.39	10.01	1.10	1.14	.00	1.09	1.10

END OF
DISCHARGE

5100.	4.50	10.05	1.13	1.17	.00	1.12	1.13
5132.	4.38	10.26	1.09	1.14	.00	1.09	1.10
5163.	4.45	10.15	1.11	1.15	.00	1.12	1.12
5193.	4.44	10.12	1.10	1.15	.00	1.13	1.12

92.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.25	CELL VOLTAGES				
			1	2	3	4	5
4748.	5.90	5.28	1.50	1.48	.00	1.45	1.47
4765.	5.97	4.90	1.55	1.51	.00	1.47	1.48
4811.	5.91	5.04	1.53	1.48	.00	1.46	1.47
4845.	5.93	5.04	1.53	1.49	.00	1.46	1.48
4924.	5.93	5.20	1.53	1.48	.00	1.45	1.47
4972.	5.94	5.00	1.53	1.49	.00	1.46	1.48
4981.	5.79	5.61	1.47	1.44	.00	1.44	1.45
5004.	5.98	5.07	1.55	1.50	.00	1.47	1.49
5034.	5.93	5.05	1.53	1.48	.00	1.46	1.47
5100.	5.99	5.20	1.55	1.50	.00	1.47	1.49
5132.	5.94	5.10	1.54	1.49	.00	1.46	1.48
5163.	6.00	4.98	1.56	1.51	.00	1.47	1.49
5193.	6.09	6.33	1.59	1.54	.00	1.48	1.51

END OF
CHARGE

PACK NO. 76
GULTON 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGE 6.00 1 2 3 4 5

4595. 5.67 6.03 1.17 1.11 1.15 1.16 1.14
4658. 5.63 5.98 1.16 1.10 1.13 1.14 1.13
4746. 6.00 6.04 1.22 1.17 1.21 1.22 1.22
4784. 5.82 6.05 1.19 1.13 1.17 1.18 1.19
4816. 5.75 6.04 1.19 1.12 1.15 1.17 1.18
4844. 5.75 6.04 1.19 1.12 1.14 1.16 1.17
4880. 5.74 6.02 1.19 1.12 1.14 1.16 1.17
4912. 5.73 6.03 1.19 1.12 1.15 1.16 1.16
4944. 5.68 6.07 1.18 1.11 1.13 1.15 1.15
4973. 5.70 6.05 1.18 1.11 1.14 1.15 1.15
5005. 5.41 6.07 1.15 1.05 1.06 1.11 1.09

END OF
DISCHARGE

4.80

4595. 7.34 3.73 1.48 1.51 1.44 1.51 1.45
4658. 7.22 3.75 1.45 1.48 1.43 1.46 1.43
4746. 7.20 4.69 1.44 1.48 1.42 1.45 1.43
4784. 7.19 4.54 1.44 1.48 1.42 1.45 1.43
4816. 7.24 4.56 1.45 1.49 1.44 1.46 1.44
4844. 7.24 4.55 1.45 1.49 1.43 1.46 1.43
4880. 7.24 4.60 1.45 1.49 1.43 1.46 1.44
4912. 7.22 4.64 1.45 1.49 1.44 1.46 1.44
4944. 7.23 4.65 1.45 1.49 1.43 1.46 1.43
4973. 7.23 4.62 1.45 1.49 1.43 1.46 1.44
5005. 7.34 4.87 1.47 1.52 1.45 1.50 1.45

END OF
CHARGE

93.

PACK NO. 102
GULTON 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT		CELL VOLTAGES				
		6.00	1	2	3	4	5	

2238.	4.92	5.99	1.24	.00	1.25	1.24	1.24
2278.	4.91	6.01	1.23	.00	1.24	1.24	1.23
2358.	4.95	5.98	1.25	.00	1.25	1.25	1.25
2388.	4.92	6.00	1.24	.00	1.24	1.24	1.23
2421.	4.93	6.01	1.24	.00	1.24	1.25	1.25
2451.	4.91	6.09	1.23	.00	1.24	1.24	1.23

END OF
DISCHARGE

		1.38					
2238.	6.17	.83	1.56	.00	1.59	1.49	1.58
2278.	6.18	.97	1.57	.00	1.60	1.48	1.55
2358.	6.11	.95	1.55	.00	1.57	1.50	1.55
2388.	6.10	.93	1.55	.00	1.56	1.49	1.53
2421.	6.08	.96	1.54	.00	1.56	1.50	1.53
2451.	6.09	.97	1.54	.00	1.56	1.49	1.53

END OF
CHARGE

94.

PACK NO. 116
GULTON 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	CELL VOLTAGES				
			1	2	3	4	5

2095.	5.95	10.10	1.21	1.21	1.17	1.21	1.19
2135.	5.92	10.02	1.21	1.20	1.16	1.21	1.18
2215.	6.00	10.10	1.23	1.23	1.18	1.23	1.21
2245.	5.96	10.08	1.22	1.21	1.16	1.22	1.20
2278.	5.97	10.07	1.22	1.21	1.16	1.22	1.20
2308.	5.96	9.95	1.22	1.21	1.16	1.21	1.19

END OF
DISCHARGE

		2.30					
2095.	8.02	1.90	1.65	1.65	1.62	1.58	1.56
2135.	7.63	1.32	1.53	1.55	1.54	1.53	1.51
2215.	7.89	1.88	1.57	1.61	1.62	1.59	1.56
2245.	7.89	1.85	1.56	1.62	1.60	1.59	1.56
2278.	8.09	1.97	1.58	1.71	1.64	1.64	1.57
2308.	7.86	1.69	1.55	1.63	1.59	1.59	1.55

END OF
CHARGE

95.

PACK NO. 77
GULTON 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	CELL VOLTAGES 4	5
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2294.	5.76	6.05	1.19	1.14	1.14	1.15	1.20
2334.	5.68	6.04	1.17	1.11	1.11	1.12	1.18
2374.	5.67	5.99	1.18	1.01	1.12	1.13	1.18
2416.	5.68	6.03	1.17	1.12	1.12	1.13	1.19
2445.	5.64	6.00	1.16	1.11	1.10	1.12	1.18
2477.	5.62	6.07	1.15	1.11	1.10	1.12	1.18
2509.	5.73	6.00	1.17	1.14	1.13	1.15	1.19

END OF
DISCHARGE

		1.92					
2294.	7.11	1.94	1.44	1.43	1.42	1.43	1.44
2334.	7.06	1.94	1.42	1.41	1.40	1.41	1.42
2374.	7.08	1.93	1.41	1.41	1.41	1.41	1.42
2416.	7.10	1.95	1.43	1.43	1.42	1.43	1.44
2445.	7.10	1.95	1.43	1.42	1.42	1.43	1.43
2477.	7.08	1.95	1.42	1.42	1.41	1.42	1.43
2509.	7.38	1.64	1.52	1.47	1.47	1.47	1.49

END OF
CHARGE

96.

PACK NO. 91
GULTON 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	CELL VOLTAGES				
			1	2	3	4	5

2207.	5.73	9.94	1.17	1.16	1.16	1.16	1.14
2247.	5.60	9.94	1.14	1.12	1.13	1.14	1.12
2287.	5.61	9.87	1.14	1.11	1.08	1.13	1.12
2329.	5.72	9.94	1.16	1.15	1.16	1.17	1.15
2358.	5.54	9.90	1.13	1.11	1.00	1.10	1.11
2390.	5.51	10.09	1.13	1.10	1.12	1.09	1.10
2421.	5.53	10.05	1.14	1.13	1.13	1.07	1.11

END OF
DISCHARGE

		3.20					
2207.	7.29	3.15	1.46	1.46	1.48	1.47	1.45
2247.	7.24	3.18	1.45	1.44	1.47	1.47	1.44
2287.	7.26	3.16	1.45	1.43	1.46	1.45	1.43
2329.	7.31	3.20	1.47	1.45	1.48	1.49	1.46
2358.	7.30	3.16	1.47	1.46	1.49	1.47	1.46
2390.	7.27	3.18	1.47	1.45	1.48	1.45	1.45
2421.	7.14	3.01	1.43	1.43	1.43	1.42	1.41

END OF
CHARGE

PACK NO. 79
GULTON 6 A.H.

DEPTH OF DISCHARGE 50
PERCENT OF RECHARGE 200

TEST TEMPERATURE 25 C
ORBIT PERIOD 24 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 3.0	CELL VOLTAGES				
			1	2	3	4	5
240.	3.38	3.02	.00	1.16	.00	1.14	1.14
250.	3.16	2.76	.00	1.11	.00	1.10	1.08
258.	3.05	2.60	.00	1.05	.00	1.04	1.01
266.	2.96	2.56	.00	1.03	.00	1.02	.99
		.26					
240.	4.18	.27	.00	1.40	.00	1.40	1.41
250.	4.21	.27	.00	1.40	.00	1.40	1.39
258.	4.20	.27	.00	1.41	.00	1.41	1.41
266.	4.20	.27	.00	1.41	.00	1.41	1.41

END OF
DISCHARGE

END OF
CHARGE

PACK NO. 93
G.E. 72 A.H.

DEPTH OF DISCHARGE 50

TEST TEMPERATURE 40 C

CYCLE NO.	PACK VOLTAGE	CURRENT 6.0	CELL VOLTAGES				
			1	2	3	4	5

239.	4.80	6.01	.76	1.00	1.00	1.02	1.05
249.	3.65	4.71	.61	.64	.79	.86	.79
257.	3.56	4.55	.46	.64	.83	.84	.83
265.	2.80	3.53	.40	.48	.58	.81	.56

END OF
DISCHARGE

		.52					
239.	6.94	.53	1.41	1.39	1.40	1.39	1.40
249.	6.94	.53	1.40	1.39	1.39	1.39	1.39
257.	6.97	.53	1.42	1.40	1.40	1.40	1.40
265.	6.97	.53	1.42	1.40	1.40	1.40	1.40

END OF
CHARGE

69

PACK NO. 95
GULTON 50 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 25.0	CELL VOLTAGES				
			1	2	3	4	5

2704.	4.61	24.75	1.16	1.11	.00	1.18	1.20
2740.	4.59	25.00	1.14	1.09	.00	1.16	1.20
2806.	4.39	25.01	1.15	1.00	.00	1.12	1.18
2890.	4.29	24.99	1.16	1.00	.00	1.01	1.18
2908.	2.41	24.28	1.17	1.24	.00	1.17	1.13
2922.	3.40	24.85	1.17	1.23	.00	1.13	.08
2956.	4.17	2.51	1.37	1.38	.00	1.27	.00
2985.	3.21	24.92	1.16	1.22	.00	.99	.00
3016.	3.29	24.64	1.16	1.22	.00	1.04	.00

END OF
DISCHARGE

		14.38					
2704.	6.05	14.38	1.66	1.41	.00	1.47	1.52
2740.	5.94	14.39	1.64	1.41	.00	1.45	1.47
2806.	5.88	13.80	1.65	1.39	.00	1.40	1.45
2890.	5.86	14.19	1.64	1.41	.00	1.40	1.41
2908.	5.39	14.36	1.67	1.67	.00	1.41	.67
2922.	4.79	13.99	1.68	1.68	.00	1.41	.05
2956.	4.76	1.42	1.64	1.67	.00	1.41	.00
2985.	4.77	14.09	1.63	1.68	.00	1.42	.00
3016.	4.77	13.35	1.64	1.67	.00	1.42	.00

END OF
CHARGE

100.

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

DEPTH OF DISCHARGE: 40%

TEST TEMPERATURE: 25°C
ORBIT PERIOD:
24 HOURS

[illegible]

15.00

PACK SECURED FROM CYCLING AFTER
CYCLE 76.

PACK NO. 275
MFR. DELCO
CAPACITY 40 A.H.

DEPTH OF DISCHARGE: 25 %

TEST TEMPERATURE: 25°C
ORBIT PERIOD:
24 HOURS

[illegible]

25.00

102.

PACK NO. 315
GULTON 4 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT						CELL VOLTAGES				
		1.2	1	2	3	4	5					

2032.	6.16	1.17	1.24	1.24	1.24	1.23	1.23				
2049.	6.20	1.18	1.25	1.25	1.24	1.24	1.24				
2095.	6.18	1.19	1.24	1.24	1.24	1.24	1.23				
2129.	6.16	1.18	1.25	1.25	1.25	1.24	1.24				
2208.	6.22	1.20	1.25	1.25	1.21	1.25	1.25				
2256.	6.13	1.17	1.23	1.23	1.23	1.23	1.22				
2265.	6.19	1.15	1.24	1.24	1.24	1.24	1.23				
2288.	6.21	1.18	1.25	1.25	1.25	1.25	1.24				
2318.	6.21	1.18	1.25	1.25	1.24	1.24	1.24				
2384.	6.22	1.17	1.25	1.25	1.25	1.25	1.25				
2416.	6.18	1.15	1.24	1.24	1.24	1.24	1.24				
2447.	6.20	1.19	1.25	1.25	1.25	1.25	1.25				
2478.	6.19	1.16	1.24	1.25	1.24	1.24	1.24				

END OF
DISCHARGE

2032.	7.72	.69	1.54	1.55	1.53	1.54	1.54				
2049.	7.71	.52	1.54	1.55	1.54	1.55	1.55				
2095.	7.71	.53	1.55	1.55	1.54	1.55	1.55				
2129.	7.70	.55	1.55	1.55	1.54	1.55	1.54				
2208.	7.72	.57	1.54	1.54	1.52	1.54	1.54				
2256.	7.71	.57	1.54	1.55	1.53	1.55	1.55				
2265.	7.51	.69	1.50	1.51	1.50	1.50	1.50				
2288.	7.73	.59	1.55	1.56	1.54	1.56	1.56				
2318.	7.71	.58	1.55	1.55	1.53	1.55	1.55				
2384.	7.69	.61	1.54	1.55	1.54	1.55	1.55				
2416.	7.67	.57	1.54	1.54	1.53	1.55	1.55				
2447.	7.70	.59	1.55	1.55	1.54	1.55	1.55				
2478.	7.64	.51	1.53	1.54	1.53	1.54	1.54				

END OF
CHARGE

103.

PACK NO. 326
GULTON 4 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.0	CELL VOLTAGES				
			1	2	3	4	5

2034.	6.03	2.01	1.21	1.22	1.21	1.20	1.21
2053.	5.85	2.00	1.18	1.18	1.18	1.17	1.18
2097.	5.80	2.00	1.17	1.17	1.17	1.17	1.17
2222.	6.05	1.99	1.21	1.22	1.20	1.20	1.21
2260.	6.04	2.00	1.21	1.22	1.21	1.20	1.21
2292.	6.06	2.00	1.22	1.23	1.22	1.21	1.22
2320.	6.05	2.01	1.22	1.22	1.21	1.21	1.21
2356.	6.06	1.99	1.21	1.22	1.21	1.21	1.22
2388.	6.07	2.00	1.22	1.23	1.22	1.21	1.22
2420.	6.04	2.01	1.21	1.22	1.21	1.20	1.21
2449.	6.08	1.99	1.22	1.22	1.22	1.21	1.22
2482.	6.01	1.99	1.21	1.21	1.20	1.20	1.20

END OF
DISCHARGE

2034.	7.80	1.15	1.57	1.55	1.57	1.58	1.57
2053.	7.16	.95	1.43	1.42	1.44	1.44	1.43
2097.	7.04	.75	1.41	1.41	1.42	1.42	1.41
2222.	7.80	.96	1.56	1.54	1.55	1.56	1.54
2260.	7.79	.93	1.57	1.55	1.56	1.58	1.57
2292.	7.82	.95	1.58	1.56	1.57	1.59	1.57
2320.	7.81	.94	1.57	1.55	1.57	1.58	1.56
2356.	7.82	.96	1.57	1.55	1.57	1.58	1.56
2388.	7.81	.99	1.58	1.56	1.57	1.58	1.56
2420.	7.81	.98	1.57	1.55	1.56	1.58	1.56
2449.	7.83	.99	1.57	1.55	1.57	1.58	1.56
2482.	7.81	.99	1.57	1.55	1.56	1.57	1.55

END OF
CHARGE

104.

PACK NO. 204
GULTON 4 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.0	1	2	3	4	5
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1920.	5.89	1.99	1.18	1.17	1.19	1.19	1.19
1956.	5.90	2.01	1.18	1.17	1.20	1.20	1.20
2073.	5.86	2.00	1.18	1.16	1.18	1.18	1.19
2117.	5.91	2.00	1.19	1.17	1.20	1.19	1.21
2144.	5.91	2.01	1.19	1.17	1.20	1.19	1.20
2181.	5.92	2.00	1.19	1.17	1.20	1.20	1.21
2207.	5.89	1.99	1.18	1.17	1.20	1.19	1.20
2239.	5.93	2.00	1.20	1.18	1.21	1.20	1.21
2277.	5.92	2.00	1.19	1.18	1.20	1.19	1.20
2302.	5.91	1.99	1.19	1.18	1.20	1.19	1.20
2333.	5.88	1.99	1.18	1.16	1.19	1.19	1.20

END OF
DISCHARGE

1920.	7.26	1.25	1.46	1.46	1.45	1.45	1.48
1956.	7.24	1.24	1.45	1.45	1.44	1.45	1.47
2073.	7.25	1.24	1.45	1.45	1.44	1.46	1.47
2117.	7.31	1.27	1.47	1.47	1.46	1.47	1.49
2144.	7.29	1.25	1.46	1.47	1.45	1.47	1.49
2181.	7.24	1.25	1.45	1.47	1.44	1.46	1.47
2207.	7.31	1.23	1.47	1.47	1.46	1.47	1.49
2239.	7.29	1.24	1.46	1.47	1.46	1.47	1.49
2277.	7.29	1.25	1.46	1.47	1.45	1.47	1.48
2302.	7.30	1.24	1.47	1.47	1.46	1.47	1.49
2333.	7.28	1.24	1.46	1.47	1.45	1.47	1.48

END OF
CHARGE

105.

PACK NO. 214
GULTON 4 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGE 3.2 1 2 3 4 5

1877.	5.65	3.18	1.14	1.13	1.14	1.13	1.14
1905.	5.83	3.15	1.17	1.19	1.17	1.17	1.18
2043.	5.67	3.18	1.14	1.14	1.13	1.13	1.15
2075.	5.48	3.18	1.12	1.09	1.10	1.10	1.12
2103.	6.75	3.23	1.36	1.36	1.35	1.35	1.36
2139.	5.67	3.17	1.14	1.14	1.13	1.13	1.15
2171.	5.72	3.16	1.14	1.17	1.14	1.16	1.16
2203.	5.66	3.18	1.14	1.13	1.15	1.13	1.15
2232.	5.73	3.14	1.15	1.16	1.16	1.15	1.16
2263.	5.61	3.19	1.13	1.12	1.14	1.12	1.14

END OF
DISCHARGE

1877.	7.39	2.00	1.49	1.47	1.50	1.49	1.49
1905.	7.37	2.00	1.49	1.46	1.50	1.48	1.49
2043.	7.39	1.86	1.49	1.46	1.50	1.48	1.49
2075.	7.39	1.92	1.49	1.47	1.51	1.49	1.49
2103.	7.38	1.96	1.49	1.46	1.50	1.48	1.48
2139.	7.41	1.94	1.49	1.47	1.51	1.49	1.49
2171.	7.20	2.01	1.46	1.44	1.46	1.45	1.45
2203.	7.40	1.94	1.49	1.47	1.50	1.49	1.49
2232.	7.43	1.90	1.50	1.48	1.52	1.49	1.50
2263.	7.40	2.02	1.49	1.47	1.51	1.49	1.49

END OF
CHARGE

106.

PACK NO. 228
GULTON 4 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C.
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT CELL VOLTAGES					
		1.2	1	2	3	4	5

1921.	5.96	1.18	1.21	1.20	1.20	1.17	1.20
1955.	6.01	1.18	1.21	1.21	1.22	1.19	1.23
2118.	6.02	1.18	1.23	1.22	1.22	1.19	1.22
2145.	6.03	1.20	1.22	1.22	1.22	1.19	1.22
2182.	6.02	1.20	1.22	1.22	1.22	1.19	1.22
2208.	6.01	1.19	1.22	1.21	1.22	1.18	1.22
2240.	6.02	1.19	1.23	1.22	1.22	1.19	1.22
2278.	6.00	1.20	1.21	1.21	1.21	1.18	1.22
2303.	6.01	1.18	1.22	1.22	1.22	1.18	1.22
2334.	5.98	1.18	1.21	1.21	1.21	1.17	1.21

END OF
DISCHARGE

1921.	7.01	.96	1.41	1.40	1.41	1.41	1.41
1955.	7.05	.93	1.39	1.38	1.39	1.39	1.39
2074.	7.09	.97	1.45	1.43	1.42	1.42	1.43
2118.	7.12	.98	1.44	1.43	1.44	1.44	1.44
2145.	7.12	.88	1.44	1.43	1.43	1.43	1.44
2182.	7.09	.81	1.43	1.42	1.42	1.43	1.43
2208.	7.10	.81	1.43	1.42	1.43	1.43	1.43
2240.	7.08	.82	1.43	1.42	1.43	1.43	1.43
2278.	7.07	.81	1.43	1.42	1.42	1.42	1.42
2303.	7.09	.82	1.43	1.42	1.43	1.43	1.43
2334.	7.09	.83	1.43	1.42	1.43	1.43	1.43

END OF
CHARGE

107.

PACK NO. 240
GULTON 4 A. H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.0	1	2	3	4	5
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1923.	5.37	2.01	1.07	1.09	1.09	1.08	1.09
1959.	5.53	2.01	1.13	1.14	1.14	1.14	1.13
2076.	5.57	2.00	1.11	1.13	1.11	1.13	1.11
2120.	5.63	2.01	1.13	1.15	1.14	1.15	1.13
2147.	5.67	2.01	1.13	1.15	1.14	1.16	1.13
2184.	5.70	2.00	1.14	1.15	1.14	1.16	1.14
2210.	5.63	1.99	1.13	1.14	1.13	1.14	1.13
2242.	5.66	2.00	1.15	1.14	1.14	1.15	1.13
2280.	5.60	2.00	1.13	1.14	1.13	1.13	1.13
2305.	5.63	1.99	1.13	1.14	1.13	1.14	1.13
2336.	5.58	1.99	1.12	1.13	1.12	1.13	1.12

END OF
DISCHARGE

		1.60					
1923.	7.14	1.52	1.44	1.43	1.44	1.42	1.44
1959.	7.16	1.41	1.44	1.43	1.44	1.43	1.44
2076.	7.20	1.42	1.45	1.44	1.45	1.44	1.45
2120.	7.26	1.48	1.47	1.46	1.47	1.45	1.47
2147.	7.27	1.51	1.47	1.46	1.47	1.46	1.47
2184.	7.25	1.49	1.46	1.45	1.46	1.45	1.46
2210.	7.20	1.16	1.45	1.44	1.46	1.44	1.45
2242.	7.20	1.20	1.46	1.45	1.46	1.44	1.46
2280.	7.19	1.19	1.45	1.44	1.45	1.44	1.45
2305.	7.22	1.24	1.46	1.45	1.46	1.45	1.46
2336.	7.20	1.23	1.45	1.45	1.46	1.44	1.40

END OF
CHARGE

108.

PACK NO. 301
GULTON 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	4	5
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27.	6.18	5.90	1.24	1.25	1.24	1.24	1.24
63.	6.19	5.85	1.25	1.25	1.24	1.24	1.24
95.	6.14	5.89	1.23	1.24	1.23	1.23	1.22
126.	6.14	5.95	1.23	1.24	1.23	1.23	1.23
157.	6.12	5.98	1.23	1.24	1.23	1.23	1.22

END OF
DISCHARGE

		3.45					
27.	7.88	2.43	1.59	1.57	1.57	1.59	1.59
63.	7.86	2.17	1.58	1.58	1.57	1.60	1.57
95.	7.75	1.98	1.55	1.56	1.55	1.57	1.55
126.	7.77	2.04	1.56	1.56	1.55	1.59	1.55
157.	7.78	2.16	1.55	1.56	1.55	1.59	1.54

END OF
CHARGE

109.

PACK NO. 296
GULTON 12 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 9.60	CELL VOLTAGES				
			1	2	3	4	5

31.	5.94	9.62	1.21	1.20	1.19	1.20	1.20
110.	5.94	9.51	1.20	1.19	1.13	1.19	1.20
167.	5.79	9.58	1.18	1.16	1.14	1.16	1.17
190.	5.80	9.58	1.19	1.17	1.15	1.17	1.19
220.	5.67	9.59	1.18	1.14	1.08	1.13	1.17
250.	5.53	9.56	1.18	1.09	1.04	1.09	1.17
286.	5.73	9.55	1.18	1.15	1.16	1.14	1.17
318.	5.48	9.58	1.16	1.08	1.05	1.08	1.16
349.	5.54	9.45	1.16	1.10	1.09	1.09	1.15
380.	5.21	9.25	1.15	1.03	.97	1.01	1.12

DISCHARGE

6.00

31.	7.31	6.07	1.48	1.47	1.46	1.46	1.48
110.	7.34	6.02	1.47	1.46	1.45	1.45	1.47
167.	7.28	6.10	1.47	1.46	1.45	1.45	1.47
190.	7.29	6.13	1.48	1.47	1.46	1.46	1.48
220.	7.27	6.13	1.47	1.45	1.45	1.45	1.47
250.	7.26	6.09	1.47	1.46	1.45	1.45	1.47
286.	7.31	5.96	1.47	1.47	1.47	1.47	1.48
318.	7.29	6.17	1.47	1.46	1.46	1.46	1.47
349.	7.33	6.14	1.47	1.47	1.47	1.47	1.48
380.	7.28	6.05	1.46	1.47	1.46	1.46	1.47

END OF
CHARGE

110.

PACK NO. 78
GULTON 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	1	2	3	4	5
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23.	6.15	3.64	1.25	1.25	1.25	1.20	1.26
87.	6.06	3.59	1.24	1.23	1.23	1.16	1.25
117.	6.05	3.57	1.23	1.22	1.23	1.14	1.23

END OF
DISCHARGE

23.	7.04	2.88	1.42	1.42	1.42	1.42	1.42
87.	7.03	2.88	1.42	1.41	1.41	1.41	1.42
117.	7.07	2.87	1.42	1.41	1.41	1.41	1.42

END OF
CHARGE

PACK NO. 290
GULTON 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGE 2.50 1 2 3 4 5

124.	5.75	6.00	1.18	1.16	1.11	1.13	1.18
162.	5.68	6.06	1.18	1.14	1.10	1.12	1.17
174.	5.52	5.96	1.18	1.10	1.06	1.09	1.17
222.	5.54	5.94	1.17	1.10	1.06	1.10	1.16
258.	5.49	5.94	1.15	1.10	1.05	1.09	1.15
290.	5.28	6.02	1.11	1.06	.97	1.06	1.12
322.	5.20	6.03	1.08	1.03	.99	1.03	1.10
351.	5.36	6.03	1.10	1.08	1.05	1.07	1.11
384.	5.16	6.01	1.07	1.02	.99	1.03	1.08

END OF
DISCHARGE

4.80

124.	7.07	4.76	1.41	1.40	1.40	1.40	1.40
162.	7.08	4.95	1.42	1.41	1.41	1.41	1.41
174.	7.13	4.83	1.43	1.43	1.43	1.43	1.43
222.	7.11	4.60	1.43	1.42	1.42	1.42	1.42
258.	7.14	4.59	1.43	1.43	1.43	1.43	1.42
290.	7.13	4.66	1.44	1.43	1.43	1.43	1.42
322.	7.12	4.65	1.43	1.42	1.42	1.42	1.42
351.	7.14	4.65	1.43	1.43	1.43	1.43	1.43
384.	7.14	4.65	1.43	1.43	1.43	1.42	1.42

END OF
CHARGE

112.

MONTHLY PROGRESS REPORT THROUGH 31 DECEMBER 1964

LIFE CYCLE TESTS

1. Status of Cycling Program: The cycling program has included cells from the following manufacturers: General Electric Company (G.E.), Gould-National Batteries, Inc. (Gould), Sonotone Corporation (Sonotone), Yardney Electric Corporation (Yardney), Gulton Industries, Inc. (Gulton) and Delco Remy (Delco)

TOTAL NUMBER OF PACKS PLACED IN PROGRAM: 103

Cell Type	Total Number of Packs			Cells Failed*	
	Cycled To Date	Still Cycling	Failed	Since Last Report	Total To Date
NICKEL CADMIUM (10-cell packs)					
G.E. 3.0 ah	12	9	3	2	23
Gould 3.5 ah	12	5	7	5	49
Sonotone 5.0 ah	12	11	1	0	17
Gulton 6.0 ah	12	7	5	1	56
TOTAL	48	32	16	8	145
NICKEL CADMIUM (5-cell packs)					
G.E. 12 ah	13	11	2	1	6
Gulton 4.0 ah	6	6	0	0	0
Gulton 6.0 ah	1	1	0	0	2
Gulton 12 ah	4	4	0	0	0
Gulton 20 ah	12	6	6	0	23
Gulton 50 ah	2	1	1	2	5
Gould 20 ah	12	7	5	2	18
TOTAL	50	36	14	5	54
SILVER CADMIUM (10-cell packs)					
Yardney 12 ah	2	0	2	0	16
TOTAL	2	0	2	0	16
SILVER ZINC (5-cell packs)					
Delco 25 ah	2	1	1	0	5
Delco 40 ah	1	1	0	0	2
TOTAL	3	2	1	0	7

* All failure analysis results are cumulative. These results are shown on pages 4 through 29.

Enclosure (1)