U. S. NAVAL AMMUNITION DEPOT
CRANE, INDIANA 47522

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21 MAY 1965

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

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

Encl: (1) Monthly Progress Report as of 30 April 1965 (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).

E. R. PETTEBONE

V. YEAGER
By direction

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MONTHLY PROGRESS REPORT THROUGH 30 APRIL 1965

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 IN PROGRAM: 113

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 a.h.	12	9	3	1	24
Gould 3.5 a.h.	12	5	7	1	52
Sonotone 5.0 a.h.	12	10	2	1	24
Gulton 6.0 a.h.	12	5	7	1	58
TOTAL	48	29	19	4	158
NICKEL CADMIUM (5-cell packs)					
G.E. 5.0 a.h. NIMBUS	3	3	0	0	0
G.E. 12 a.h.	13	10	3	3	10
Gulton 4.0 a.h.	6	6	0	0	0
Gulton 5.0 a.h. NIMBUS	1	1	0	0	0
Gulton 6.0 a.h.	1	1	0	0	2
Gulton 6.0 a.h. HSI	3	3	0	0	0
Gulton 12 a.h.	6	6	0	0	1
Gulton 20 a.h.	12	6	6	0	25
Gulton 50 a.h.	2	0	2	0	6
Gould 20 a.h.	12	6	6	0	19
TOTAL	59	42	17	3	63
SILVER CADMIUM (10-cell packs)					
Yardney 12 a.h.	2	0	2	0	16
TOTAL	2	0	2	0	16
SILVER ZINC (5-cell packs)					
Delco 25 a.h.	3	1	2	0	5
Delco 40 a.h	1	0	1	0	2
TOTAL	4	1	3	0	7

*All failure analysis results are cumulative. These results are shown on pages 4 through 32.

Enclosure (1)

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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.

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4. Capacity Tests:

a. Prior to cycling, each pack was given a capcity 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 33 through 37.

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CELL TYPE: General Electric 3.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
16	40%	1.5	25°	427	7	3985	Low Volt Disch, Normal Volt Chg, Pos Tab Broken and Touching Case. Burned Tape on Tab Caused by Overheating From Poor Tab Weld.
			25°	58	6	4473	Low Volt Disch, Normal Volt Chg, Short on One Edge of Plates, Neg Plate Material Penetrated Separator.
			25°	361	1	4741	Low Volt Disch, Normal Volt Chg, Shorted, Separator Deteriorated, Neg Plate Material Penetrated Separator.
			25°	522	5	4917	Low Volt Disch, Low Volt Chg, Separator Impregnated with Neg Plate Material, Separator Deteriorated.
			25°	456	10	4917	Low Volt Disch, Low Volt Chg, Separator Impregnated with Neg Plate Material, Separator Deteriorated.
			25°	719	4	5013	Low Volt Disch, Low Volt Chg, Separator Impregnated with Neg Plate Material, Separator Deteriorated, Several Small Burned Areas on 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.

CELL TYPE: General Electric 3.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.
			40°	426	9	2298	Showed Open at Start of Cycle, Pos Tab Corroded, Pos Tab Broken, Top of Separator Burned, Separator Impregnated with Neg Plate Material, Separator Deteriorated.

CELL TYPE: General Electric 3.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
43	15%	3.0	40°	436	7	2515	Showed Open at Start of Cycle, Pos Tab Corroded, Pos Tab Broken, Poor Roll, Uneven Wind at End of Roll, Shorts at Top of Roll, Separator Deteriorated.
			40°	435	10	2656	Showed Open at Start of Cycle, Pos Tab Corroded, Pos Tab Broken, Separator Impregnated with Neg Plate Material, Separator Deteriorated.
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.

CELL TYPE: Gould 3.5 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	OPEN PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	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.

CELL TYPE: Gould 3.5 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	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.
7	25%	3.0	25°	49	2	3007	Low Volt Disch, Normal Volt Chg, Leaked Around Glass Seal, Lost 2.7 gm, Neg Plate Material Migrated Through Separator, Separator Deteriorated, One Weak Weld Pos Tab to Plate.
			25°	37	1	3130	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.1 gm, Glass Seal Broken, Separator Very Dry, Neg Plate Material Migration, Pinpoint Penetration, Loose Neg Plate Material on Separator, Separator Deteriorated, All Tab Welds to Plates Weak.
			25°	109	6	*3483	Low Volt Disch, Low Volt Chg, Leaked, Lost 2.0 gm, Deposit on Glass Seal, Separator Deteriorated, Pinpoint Penetration, Neg Plate Material on Separator, Weak Weld on One Tab to Pos Plate Weld.
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.

* FAILED DURING THIS REPORTING PERIOD

CELL TYPE: Gould 3.5 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
8	40%	3.0	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.
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	4485	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Separator Deteriorated, Separator Impregnated with Neg Plate Material.

CELL TYPE: Gould 3.5 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.
			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.

CELL TYPE: Gould 3.5 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.
			40°	72	1	2517	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 1.8 gm, Short Between Plates, Extra Piece of Pos Plate Between Plates, Separator Deteriorated, Pos Tabs to Plate Weld Both Weak.
			40°	143	6	2517	Low Volt Disch, Low Volt Chg, Short Through Separator at Start of Core, Extra Piece of Pos Plate Material, Separator Impregnated with Neg Plate Material, Separator Deteriorated, Neg Tab Weld to Pigtail Weak, One Tab to Pos Plate Weld Weak, Still Under Pressure When Opened.

CELL TYPE: Gould 3.5 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	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.

CELL TYPE: Monotone 5.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
1	25%	1.5	25°	4361	4	2995	Low Volt Disch, High Volt Chg, Inclusion on Surface of Outside Pos Plate Wore Hole Through Separator and Thin Outside Wrap, Separator Sticking to Neg Plate, Glass Seal Leaked.
			25°	4335	1	4423	Low Volt Disch, High Volt Chg, Neg Tabs Weak Weld to Plates, Separator Melted at Center of Core, Extreme Pressure Points on Separator From Scoring Causing High Resistance Shorts.
2	40%	1.5	25°	811	10	3155	Shorted on Cycling, Leaked Around Seal, High Pressure Bulge on Bottom, Insulators Brittle, Exposed Grid Wires at Center of Core Penetrated Separator Causing Large Burned Area at Short, Pos and Neg Tab Weld Poor.
			25°	3628	5	3992	Low Volt Disch, Normal Volt Chg, Leaked Around Seal, High 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.
			25°	3630	6	*5262	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Pos and Neg Plate Material on Separator, Separator Deteriorated, Neg Tab to Plate Welds Weak, Burn Marks on Separator at Tabs, High Pressure Bulge.

CELL TYPE: Sonotone 5.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
2	40%	1.5	25°	3631	7	*5262	Low Volt Disch, Low Volt Chg, Uncoined Plate Edges Pierced Separator Causing Partial Shorts, Burn Marks Around Tab Areas, Weak Weld on All Tab to Plate Welds, Deep Pressure Points Caused by Scoring, Separator Torn at Start of Core Exposing Pos and Neg Plate, Separator Deteriorated, Neg Plate Material on Separator.

CELL TYPE: Sonotone 5.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.
25	15%	1.5	40°	4852	5	*6348	Low Volt Disch, High Volt Chg, Separator Deteriorated, Large Burned Area at Center of Core, Pinpoint Penetration, Deep Scoring Caused Hole in Separator, Partial Shorts Around Edge of Plates Deep Pressure Points Caused by Scoring.
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.

CELL TYPE: Sonotone 5.0 Ampere Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.
			40°	3643	4	*3068	Low Volt Disch, Low Volt Chg, Separator Completely Deteriorated, Neg Tab to Plate Welds Weak, Burn Spots Around Tabs, Deep Scoring Caused Burn Spots on Separator.
			40°	809	9	*3068	Low Volt Disch, Low Volt Chg, Deposit Around Glass Seal, Burn Spots Around Edge of Separator Caused By Uncoined Edge of Plates, Deep Scoring Caused Burn Spots on Separator, Burn Spots Around Tab Areas, Separator Deteriorated.
49	15%	1.5	0°	6887	9	2010	Low Volt Disch, Low Volt Chg, Burn on Separator Opposite Pos Tab.

CELL TYPE: Gulton 6.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.

CELL TYPE: Gulton 6.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.
			25°	2347	9	2885	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates, High Pressure Bulge, Still Under Pressure When Opened.
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.

CELL TYPE: Gulton 6.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.
			40°	1769	7	4897	Low Volt Disch, Normal Volt Chg, Ceramic Short, Leaked, Lost 1 gm, Blistering on Pos Plate, Separator Deteriorated.
			40°	1814	6	*6064	Low Volt Disch, High Volt Chg, Deposit on Pos Terminal, Separator Deteriorated, Neg Plate Material on Separator, Blistering on Pos Plates, Ceramic Short.
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.

CELL TYPE: Gulton 6.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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	25%	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_3 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.

CELL TYPE: Gulton 6.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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. Cell Replaced in Pack Due to Early Failure.
			0°	1845	8	6	Lost 5 gm, Leak at Weld on Bottom, High Pres Bulge, Cell Replaced in Pack Due to Early Failure.
			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.

CELL TYPE: Gulton 6.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.

CELL TYPE: General Electric 12.0 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
93	50%	24.0	40°	204	1	266	Cell Lost Capacity on Cycling But Came Back When Removed From Pack, So It Was Put Back on Cycling in Same Pack.
			40°	208	2	266	Low Volt Disch, Normal Volt Chg, Was Opened Up But Did Not Show Anything to be Wrong With Cell, Failure Due to Loss of Capacity.
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.
			40°	432	2	3841	Failed During Shut Down of Pack, Separator Deteriorated, Separator Impregnated with Neg Plate Material.
			40°	440	1	4853	Low Volt Disch, Low Volt Chg, Separator Deteriorated, Separator Impregnated with Neg Plate Material.
124	25%	1.5	0°	410	5	3037	Cell Lost Capacity on Cycling But Came Back When Removed From Pack, So It Was Put Back On Cycling In Same Pack.

CELL TYPE: Gulton 20 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
73	25%	1.5	25°	396	3	1776	Low Volt Disch, Normal Volt Chg, Concave Side, Neg Ceramic Seal Broken, Lost 23.7 gm.
			25°	387	1	6120	Low Volt Disch, Low Volt Chg, Lost 13.2 gm, Separator Completely Deteriorated, Neg Plate Material Migration, Pinpoint Penetration, Blistering on Pos Plates, High Pressure Bulge.
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.

CELL TYPE: Gulton 20 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.
91	25%	3.0	40°	395	4	2862	Shorted Out Following Capacity Check, Leaked, Lost 6.8 gm, Deposit on Both Terminals, Both Ceramic Seals Broken, Separator Completely Deteriorated, Neg Plate Material Migration, Separator Very Wet, Plastic Wrap Burned, Ceramic Short.
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.

CELL TYPE: Gulton 20 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.

CELL TYPE: Gould 20 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	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.
112	15%	1.5	40°	17	1	5005	Low Volt Disch, Low Volt Chg, Short Between Plates, Short About One Inch From Bottom of Plates, Separator Completely Deteriorated, High Pressure.
			40°	25	2	5005	Low Volt Disch, Low Volt Chg, Shorted Through Separator, Shorted on Bottom Corner of Plates, Separator Completely Deteriorated, High Pressure.
			40°	38	5	5213	Low Volt Disch, Low Volt Chg, Short at Top Corner of Plate Where Pos Tabs are Connected to Plates, Separator Deteriorated Allowing Plates to Come Together, Blistering on Pos Plates.
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.

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CELL TYPE: Gould 20 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	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.

CELL TYPE: Gulton 50 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
95	25%	1.5	0°	109	3	2643	Shorted Out While Cycling, All Plates Shorted at Bottom Center, Separator Very Dry and Stiff From Heat, Blistering on Pos Plate.
			0°	107	5	2938	Shorted Out While Cycling, Short Between Plates at Center Near Bottom of Plates, Separator Dry, Small Amount of Neg Plate Material Migration on Separator.
			0°	115	1	3227	Low Volt Disch, High Volt Chg, Separator Impregnated with Neg Plate Material, Large Blisters on Pos Plate, One Neg Plate Stuck to Can.
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.

CELL TYPE: Yardney 10 x YS-12

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	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

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CELL TYPE: Delco 25 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
75	40%	24	25°			32	Cell Blew-up, Pack Returned to Manufacturer
89	40%	24	25°			80	Returned to Manufacturer for Analysis.
288	40%	3.0	25°			120	Returned to Manufacturer for Analysis.

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CELL TYPE: Delco 40 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
275	25%	24	25°			139	Returned to Manufacturer for Analysis.

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	PRECONDITIONING		CAPACITY CHECKS AFTER 88-DAY INTERVALS								CYCLES TO PACK FAILURE
					INITIAL	* (See Note)	FIRST 88 DAYS	SECOND 88 DAYS	THIRD 88 DAYS	FOURTH 88 DAYS	FIFTH 88 DAYS	SIXTH 88 DAYS	SEVENTH 88 DAYS	EIGHTH 88 DAYS	
G.E. 3 A.H.	63	1.5	15	0	3.48		3.18	3.12	3.05	3.03	3.05				
	64		25	0	3.50		3.33	3.70	3.38	3.35	3.42				
	15		25	25	4.00		3.38	2.93	2.33	1.95	1.47				
	16		40	25	4.08		2.75	2.10	1.35	----	----	----	----	----	5013
	39		15	50/40	1.65	2.43 (779)	2.10	1.53	1.25	1.17	0.70				
	40		25	50/40	1.80	2.50 (1440)	0.88**	0.88	----	----	----	----	----	----	2509
G.E. 3 A.H.	67	3	15	0	3.63		3.25	3.40	3.53	2.97	3.25				
	68		25	0	3.50		3.35	3.53	3.40	3.27	3.25				
	19		25	25	3.93		3.78	3.48	3.15	3.00	2.78				
	20		40	25	3.78		3.00	2.35	2.07	1.83	2.00				
	43		15	50/40	1.77	2.63 (320)	2.20	1.61	1.65	----	----	----	----	----	2656
	44		25	50/40	1.60	2.00 (327)	1.35	1.19	1.15	1.10	0.95				
Gould 3.5 A.H.	51	1.5	15	0	3.62		4.00	3.33	3.41	3.21	3.35				
	52		25	0	3.33		3.85	3.53	3.18	3.30	3.24				
	3		25	25	4.00		3.82	2.92	2.25	----	----	----	----	----	4751
	4		40	25	3.94		3.38	2.77	----	----	----	----	----	----	3164
	27		15	50/40	1.53	2.63 (779)	2.07	1.95	1.90	----	----	----	----	----	4485
	28		25	50/40	1.55	2.07 (424)	2.86	----	----	----	----	----	----	----	1811
Gould 3.5 A.H.	55	3	15	0	3.27		3.59	3.15	3.38	3.33	3.27				
	56		25	0	3.50		3.91	3.53	3.65	3.41	3.38				
	7		25	25	4.32		4.03	3.79	3.53	2.77	2.28				
	8		40	25	4.29		3.65	3.35	3.03	----	----	----	----	----	2494
	31		15	50/40	1.60	1.31 (328)	1.75	1.98	2.16	----	----	----	----	----	2524
	32		25	50/40	1.55	1.66 (495)	1.49	----	----	----	----	----	----	----	975

* Preconditioning at change to 40° C. Number of cycles completed at 50° C is in parentheses.
** Still at 50° C.

XERO COPY

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	PRECONDITIONING		CAPACITY CHECKS AFTER 88-DAY INTERVALS								CYCLES TO PACK FAILURE
					INITIAL	* (See Note)	FIRST 88 DAYS	SECOND 88 DAYS	THIRD 88 DAYS	FOURTH 88 DAYS	FIFTH 88 DAYS	SIXTH 88 DAYS	SEVENTH 88 DAYS	EIGHTH 88 DAYS	
Sonotone 5 A.H.	49	1.5	15	0	5.45		5.54	5.50	4.96	4.79	4.71				
	50		25	0	5.04		4.96	4.58	4.25	3.79	3.67				
	1		25	25	5.42		3.67	2.33	2.88	2.79	2.21				
	2		40	25	6.42		4.38	4.17	3.25	3.00					
	25		15	50/40	3.08	3.63 (703)	2.25	1.83	2.04	1.17	1.17				
	26		25	50/40	3.17	3.17 (445)	2.75	2.93	----	----	----	----	----	----	3625
Sonotone 5 A.H.	53	3	15	0	5.67		5.79	5.67	5.42	5.33	5.50				
	54		25	0	4.92		3.96	3.96	4.13	3.96	3.75				
	5		25	25	5.71		4.58	3.04	2.04	2.13	2.13				
	6		40	25	5.83		4.50	3.29	3.25	2.92	2.33				
	29		15	50/40	3.33	4.92 (223)	2.75	2.38	2.42	2.08					
	30		25	50/40	3.75	3.50 (183)	1.88	2.88	2.38	1.67					
Gulton 6 A.H.	61	1.5	15	0	5.00		5.10	5.40	4.45	3.15	2.60				
	62		25	0	5.00		4.75	3.80	4.35	3.55	3.30				
	13		25	25	5.80		2.75	2.85	2.70	----	----	----	----	----	4021
	[illegible]		40	25	6.40		3.45	----	----	----	----	----	----	----	2086
	37		15	50/40	2.75	3.60 (239)	1.70	2.95	1.85	2.00					
	38		25	50/40	2.65	2.90 (114)	1.55	----	----	----	----	----	----	----	1377
Gulton 6 A.H.	65	3	15	0	4.50		5.45	5.35	5.15	4.50	4.50				
	66		25	0	4.25		5.00	3.50	2.50	3.80	3.90				
	17		25	25	5.80		3.65	3.45	2.50	2.30	----	----	----	----	2885
	18		40	25	4.55		4.95	3.16	----	----	----	----	----	----	1550
	41		15	50/40	2.75	4.55 (239)	2.05	1.63	----	----	----	----	----	----	1689
	42		25	50/40	2.60	3.80 (96)	2.15	2.10	2.35	1.85					

* Preconditioning at change to 40° C. Number of cycles completed at 50° C is in parentheses.

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AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	PRECONDITIONING		CAPACITY CHECKS AFTER 88-DAY INTERVALS								CYCLES TO PACK FAILURE
					INITIAL	* (See Note)	FIRST 88 DAYS	SECOND 88 DAYS	THIRD 88 DAYS	FOURTH 88 DAYS	FIFTH 88 DAYS	SIXTH 88 DAYS	SEVENTH 88 DAYS	EIGHTH 88 DAYS	
G.E. 12 A.H.	110	1.5	15	0	13.9		12.7	10.4	13.0	12.5	14.1				
	124		25	0	14.2		13.5	12.9	12.8	11.4	11.5				
	82		25	25	15.2		8.00	5.55	5.50	5.40	5.70				
	96		40	25	14.8		6.00	7.65	----	----	----	----	----	----	4020
	85		15	50/40	6.80	8.20 (334)	5.00	4.70	5.00	4.90					
	99		25	50/40	6.90	6.00 (195)	4.90	5.20	4.40	----	----	----	----	----	4853
G.E. 12 A.H.	111	3	15	0	14.2		13.2	10.7	11.0	12.1	12.9				
	125		25	0	14.6		13.0	12.1	11.9	12.2	12.9				
	83		25	25	15.2		11.7	8.20	6.13	5.20	4.80				
	97		40	25	14.9		5.60	5.86	7.90	8.20	6.80				
	86		15	50/40	7.10	8.20 (205)	6.30	3.70	4.00	3.50					
	100		25	50/40	7.00	9.80 (70)	3.80	4.70	5.70	5.10					
Gould 20 A.H.	84	1.5	15	0	22.5		27.7	26.5	24.2	24.7	21.7				
	98		25	0	23.1		21.2	15.2	18.7	17.2	17.5				
	104		25	25	25.0		18.5	14.0	----	----	----	----	----	----	2980
	1[illegible]3		40	25	24.7		23.3	----	----	----	----	----	----	----	2937
	112		15	50/40	9.67	6.83 (183)	15.7	15.3	12.5	12.4	----	----	----	----	5213
	126		25	50/40	9.00	13.9 (1326)	15.2	----	----	----	----	----	----	----	1574
Gould 20 A.H.	80	3	15	0	23.0		23.2	21.5	20.3	25.8					
	94		25	0	23.0		17.5	25.0	18.2	18.8					
	105		25	25	23.3		23.5	22.2	21.3	21.2					
	119		40	25	24.8		24.7	21.7	----	----	----	----	----	----	1793
	108		15	50/40	9.50	9.67 (47)	11.8	14.8	16.8	15.2					
	122		25	50/40	9.33	7.50 (756)	8.17**	----	----	----	----	----	----	----	983

* Preconditioning at change to 40° C. Number of cycles completed at 50° C is in parentheses.
** Still at 50° C.

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	PRECONDITIONING		CAPACITY CHECKS AFTER 88-DAY INTERVALS								CYCLES TO PACK FAILURE
					INITIAL	* (See Note)	FIRST 88 DAYS	SECOND 88 DAYS	THIRD 88 DAYS	FOURTH 88 DAYS	FIFTH 88 DAYS	SIXTH 88 DAYS	SEVENTH 88 DAYS	EIGHTH 88 DAYS	
Gulton 20 A.H.	101	1.5	15	0	17.2		12.5	5.67							3631
	115		25	0	17.7		11.2								2288
	73		25	25	23.3		7.17	9.50	7.83	8.67	8.83				
	87		40	25	23.3										627
	76		15	50/40	10.3	13.8 (172)	6.50	4.83	5.50	4.67					
	90		25	50/40	9.00	11.3 (65)	6.00	10.3	7.33**						4045
Gulton 20 A.H.	102	3	15	0	16.7		18.8	25.2	20.3	19.5					
	116		25	0	21.7		20.7	21.8	19.3	17.5					
	74		25	25	20.3		6.17	7.17							1754
	88		40	25	19.8										358
	77		15	50/40	9.50	12.7 (71)	7.33	5.33	4.83	5.33					
	91		25	50/40	9.17	10.3 (47)	6.67	6.67	7.67	6.83					
Yardney 12 A.H.	57	24	50	0	13.8		8.60								166
	33		50	40	13.5		12.0								210
Gulton 6 A.H.	79	24	50	25	6.60		3.55	4.40	4.25						
								(40°C)	(40°C)						
G.E. 12 A.H.	93	24	50	40***	13.0		7.60	6.50	5.00						
Gulton 50 A.H.	95	1.5	25	0	54.6		59.6	45.4							3227

* Preconditioning at change to 40° C. Number of cycles completed at 50° C is in parentheses.
** Two cells only; pack failed during capacity check.
*** Changed from 25° to 40° C ambient after 173 cycles.

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	INITIAL PRECONDI-TIONING	CAPACITY CHECKS AFTER 88-DAY INTERVALS										CYCLES TO PACK FAILURE
						FIRST 88 DAYS	SECOND 88 DAYS	THIRD 88 DAYS	FOURTH 88 DAYS	FIFTH 88 DAYS	SIXTH 88 DAYS	SEVENTH 88 DAYS	EIGHTH 88 DAYS	NINTH 88 DAYS	TENTH 88 DAYS	
Gulton (Comm.) 4 A.H.	315	1.5	15	0	5.04	3.57	4.03									
	326		25	0	4.87	4.00	3.87									
	204		25	25	4.63	2.47	2.07									
	214		40	25	5.00	2.00	2.07									
	228		15	40	4.20	1.77	1.67									
	240		25	40	3.37	1.17	1.13									
Gulton 12 A.H.	216	1.5	15	0	14.0											
	301		25	0	14.2	14.5										
	227		25	25	14.1											
	296		40	25	13.3	4.70										
	78		15	40	6.80	4.30										
	290		25	40	11.4	5.40										
Gulton (HSI) 6 A.H.	213	1.5	25	0	7.30											
	218		40	25	6.90											
	2,8		25	40	5.00											

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT PERIOD (HRS.) DISCHARGE	ORBIT PERIOD (HRS.) CHARGE	PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFFERENCE	CELLS REMAINING IN PACK INITIAL	CELLS REMAINING IN PACK FINAL
G.E. (pages 44-52)	3	63	0	0.5	1.0	15	115	1.55	7349	7803	454	10	10
		64	0	"	"	25	"	"	7278	7730	452	10	10
		15	25	"	"	25	125	1.49	7345	7799	454	10	10
		16	25	"	"	40	"	"		FAILED			
		39	40	"	"	15	160	1.45	6972	7294	322	7	6
		40	40	"	"	25	"	1.41		FAILED			
		67	0	"	2.5	15	115	1.55	3478	3702	224	10	10
		68	0	"	"	25	"	"	3532	3741	209	10	10
		19	25	"	"	25	125	1.49	3459	3711	252	10	10
		20	25	"	"	40	"	"	3347	3556	209	10	10
		43	40	"	"	15	160	1.45		FAILED			
		44	40	"	"	25	"	"	3302	3486	184	9	9
GOULD (pages 53-57)	3.5	51	0	"	1.0	15	115	1.55	7366	7820	454	10	10
		52	0	"	"	25	"	"	7197	7628	431	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	3478	3732	254	10	10
		56	0	"	"	25	"	"	3503	3712	209	10	10
		7	25	"	"	25	125	1.49	3320	3564	244	8	7
		8	25	"	"	40	"	"		FAILED			
		31	40	"	"	15	160	1.45		FAILED			
		32	40	"	"	25	"	1.41		FAILED			

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MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT PERIOD (HRS.) DISCHARGE	ORBIT PERIOD (HRS.) CHARGE	PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFFERENCE	CELLS REMAINING IN PACK INITIAL	CELLS REMAINING IN PACK FINAL
SONOTONE (58-68)	5	49	0	0.5	1.0	15	115	1.55	7053	7519	456	9	9
		50	0	"	"	25	"	"	7040	7472	432	10	10
		1	25	"	"	25	125	1.49	6926	7392	466	8	8
		2	25	"	"	40	"	"	6271	6671	400	5	5
		25	40	"	"	15	160	1.45	6698	7045	347	9	8
		26	40	"	"	25	"	"		FAILED			
		53	0	"	2.5	15	115	1.55	3395	3616	221	10	10
		54	0	"	"	25	"	"	3423	3609	186	10	10
		5	25	"	"	25	125	1.49	3408	3629	221	10	10
		6	25	"	"	40	"	"	3327	3509	182	7	7
		29	40	"	"	15	160	1.45	3313	3558	245	9	9
		30	40	"	"	25	"	"	3209	3420	211	7	7
GULTON (pages 69-74)	6	61	0	"	1.0	15	115	1.55	6243	6659	416	6	6
		62	0	"	"	25	"	"	6719	7102	383	7	7
		13	25	"	"	25	125	1.49		FAILED			
		14	25	"	"	40	"	"		FAILED			
		37	40	"	"	15	160	1.45	5832	6064	232	5	5
		38	40	"	"	25	"	"		FAILED			
		65	0	"	2.5	15	115	1.55	3527	3748	221	10	10
		66	0	"	"	25	"	"	3245	3431	186	5	5
		17	25	"	"	25	125	1.49		FAILED			
		18	25	"	"	40	"			FAILED			
		41	40	"	"	15	160	1.45		FAILED			
		42	40	"	"	25	"	"	3062	3273	211	6	6

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT PERIOD (HRS.) DISCHARGE	ORBIT PERIOD (HRS.) CHARGE	PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFFERENCE	CELLS REMAINING IN PACK INITIAL	CELLS REMAINING IN PACK FINAL
G. E. (pages 75-84)	12	110	0	0.5	1.0	15	115	1.55	6748	7178	430	5	5
		124	0	"	"	25	"	"	6515	6945	430	5	5
		82	25	"	"	25	125	1.49	6784	7201	417		
		96	25	"	"	40	"	"		FAILED			
		85	40	"	"	15	160	1.45	6605	7059	454	5	5
		99	40	"	"	25	"	"		FAILED			
		111	0	"	2.5	15	115	1.55	3432	3568	136	5	5
		125	0	"	"	25	"	"	3356	3532	176	5	5
		83	25	"	"	25	125	1.49	3430	3617	187	5	5
		97	25	"	"	40	"	"	3420	3607	187	5	5
		86	40	"	"	15	160	1.45	3294	3546	252	5	5
		100	40	"	"	25	"	"	3152	3404	252	5	5
GOULD (pages 85-90)	20	84	0	"	1.0	15	115	1.55	6694	7126	432	5	5
		98	0	"	"	25	"	"	6467	6899	432	4	4
		104	25	"	"	25	125	1.49		FAILED			
		118	25	"	"	40	"	"		FAILED			
		112	40	"	"	15	160	1.45		FAILED			
		126	40	"	"	25	"	1.41		FAILED			
		80	0	"	2.5	15	115	1.55	3335	3580	245	5	5
		94	0	"	"	25	"	"	3206	3451	245	5	5
		105	25	"	"	25	125	1.49	3186	3397	211	5	5
		119	25	"	"	40	"	"		FAILED			
		108	40	"	"	15	160	1.45	3165	3410	245	5	5
		122	40	"	"	25	"	1.41		FAILED			

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MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT PERIOD (HRS.) DISCHARGE	ORBIT PERIOD (HRS.) CHARGE	PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFFERENCE	CELLS REMAINING IN PACK INITIAL	CELLS REMAINING IN PACK FINAL
GULTON (pages 91-96)	20	101	0	0.5	1.0	15	115	1.55		FAILED			
		115	0	"	"	25	"	"		FAILED			
		73	25	"	"	25	125	1.49	6346	6763	417	3	3
		87	25	"	"	40	"	"		FAILED			
		76	40	"	"	15	160	1.45	6405	6837	432	5	5
		90	40	"	"	25	"	"		FAILED			
		102	0	"	2.5	15	115	1.55	3137	3382	245	4	4
		116	0	"	"	25	"	"	2993	3238	245	5	5
		74	25	"	"	25	125	1.49		FAILED			
		88	25	"	"	40	"	"		FAILED			
		77	40	"	"	15	160	1.45	3147	3358	211	5	5
		91	40	"	"	25	"	"	3019	3230	211	4	4
G.E., NIMBUS (pages 115)	5	103	0	"	1.0	15	110	1.49	1	38	37	5	5
				"	"	25	"	"					
		106	25	"	"	15	120	"	1	64	63	5	5
				"	"	25	"	"					
		113	40	"	"	15	130	"					
				"	"	25	"	"					
GULTON NIMBUS (pages)	5			"	"	15	110	"					
				"	"	25	"	"					
				"	"	15	120	"					
				"	"	25	"	"					
				"	"	15	130	"					
				"	"	25	"	"					

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT PERIOD (HRS.) DISCHARGE	ORBIT PERIOD (HRS.) CHARGE	PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFFERENCE	CELLS REMAINING IN PACK INITIAL	CELLS REMAINING IN PACK FINAL
GULTON (pages 99-104)	4	315	0	0.5	1.0	15	115	1.55	3881	4182	301	5	5
		326	0	"	"	25	"	"	3883	4315	432	5	5
		204	25	"	"	25	125	1.49	3732	4184	452	5	5
		214	25	"	"	40	"	"	3422	3854	432	5	5
		228	40	"	"	15	160	1.45	3721	4173	452	5	5
		240	40	"	"	25	"	"	3735	4187	452	5	5
GULTON (pages 105-110)	12	216	0	"	"	15	115	1.55	613	1065	452	5	5
		301	0	"	"	25	115	1.55	1560	2026	466	5	5
		227	25	"	"	25	125	1.49	976	1430	454	5	5
		296	25	"	"	40	125	1.49	1782	2248	466	5	5
		78	40	"	"	15	160	1.45	1511	1944	433	5	5
		290	40	"	"	25	"	"	1783	2215	432	5	5
GULTON (pages 111-113)	(HSI) 6	213	0	"	"	25	115	1.55	577	1043	466	5	5
		218	25	"	"	40	125	1.49	579	1011	432	5	5
		238	40	"	"	25	160	1.45	579	1011	432	5	5

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT PERIOD (HRS.) DISCHARGE	ORBIT PERIOD (HRS.) CHARGE	PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFFERENCE	CELLS REMAINING IN PACK INITIAL	CELLS REMAINING IN PACK FINAL
YARDNEY	12	57	0	1.0	23.0	50	*	1.50		FAILED			
		33	40	"	"	"	*	1.50		FAILED			
GULTON (page 97-)	6	79	25	1.0	23.0	50	200	1.49	353	381	28	3	3
G.E. (page 98)	12	93	25**	1.0	23.0	50	200***	1.49**	324	349	25	4	0
GULTON (page)	50	95	0	0.5	1.0	25	115	1.55		FAILED			
		123	40	"	"	15	160	1.45		FAILED			
DELCO (pages 114)	25	75	25	1.0	23.0	40	*	1.97		FAILED			
		89	25	"	"	"	*	"		FAILED			
		288	25	0.5	2.5	"	*	"		FAILED			
	(NaOH) →	188	25	"	"	"	*	"	189	240	51	5	5
DELCO (pages)	40	275	25	1.0	23.0	25	*	1.97		FAILED			

* DOES NOT APPLY.
** CHANGED TO 40°C, 1.45 V/CELL LIMIT. AFTER CYCLE 173.
*** INCREASED TO 250% AFTER CYCLE 266.

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	
7422.	12.54	.91	1.25	1.25	1.25	1.23	1.24	1.24	1.24	1.26	1.24	1.23	END OF DISCHARGE
7554.	12.33	.91	1.24	1.24	1.24	1.22	1.23	1.23	1.23	1.24	1.23	1.23	
7590.	12.32	.90	1.24	1.19	1.24	1.23	1.24	1.24	1.24	1.22	1.24	1.24	
7653.	12.26	.91	1.25	1.25	1.25	1.23	1.25	1.25	1.25	1.25	1.25	1.24	
7695.	12.32	1.00	1.23	1.23	1.24	1.21	1.14	1.23	1.23	1.25	1.23	1.22	
7728.	12.31	.91	1.24	1.24	1.24	1.22	1.23	1.23	1.24	1.24	1.23	1.23	
7745.	12.33	.90	1.24	1.24	1.24	1.22	1.23	1.23	1.24	1.25	1.24	1.23	
7803.	12.34	.90	1.24	1.24	1.24	1.22	1.23	1.23	1.23	1.24	1.23	1.23	
		.52											
7422.	15.75	.24	1.61	1.48	1.60	1.55	1.63	1.62	1.53	1.57	1.48	1.54	END OF CHARGE
7554.	15.52	.24	1.61	1.47	1.60	1.55	1.63	1.61	1.53	1.53	1.48	1.53	
7590.	15.51	.24	1.61	1.43	1.61	1.55	1.64	1.62	1.53	1.49	1.48	1.54	
7653.	15.47	.24	1.63	1.49	1.62	1.57	1.65	1.63	1.55	1.52	1.50	1.55	
7695.	15.53	.23	1.61	1.43	1.61	1.55	1.64	1.62	1.53	1.51	1.48	1.54	
7728.	15.49	.23	1.61	1.47	1.60	1.55	1.63	1.61	1.53	1.53	1.48	1.53	
7745.	15.46	.24	1.60	1.47	1.60	1.55	1.63	1.61	1.52	1.53	1.48	1.53	
7803.	15.48	.23	1.60	1.47	1.60	1.55	1.63	1.61	1.52	1.52	1.48	1.53	

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	
7311.	12.29	1.51	1.21	1.21	1.20	1.21	1.21	1.20	1.21	1.22	1.21	1.19	END OF DISCHARGE
7483.	12.00	1.51	1.21	1.21	1.20	1.20	1.20	1.20	1.20	1.21	1.20	1.19	
7539.	12.06	1.50	1.23	1.23	1.23	1.23	1.22	1.22	1.23	1.24	1.23	1.21	
7582.	11.96	1.51	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.23	1.22	1.20	
7632.	12.00	1.50	1.20	1.21	1.20	1.20	1.20	1.20	1.20	1.22	1.20	1.19	
7655.	12.02	1.50	1.21	1.21	1.20	1.21	1.20	1.20	1.21	1.22	1.21	1.19	
7688.	12.05	1.51	1.21	1.21	1.20	1.20	1.20	1.20	1.21	1.22	1.21	1.19	
7730.	12.04	1.50	1.21	1.21	1.20	1.20	1.20	1.20	1.21	1.22	1.21	1.19	
		.86											
7311.	15.77	.33	1.56	1.55	1.54	1.57	1.56	1.49	1.49	1.64	1.55	1.57	END OF CHARGE
7483.	15.49	.34	1.56	1.56	1.54	1.58	1.53	1.49	1.49	1.65	1.54	1.58	
7539.	15.45	.35	1.59	1.58	1.56	1.61	1.53	1.50	1.51	1.67	1.56	1.60	
7582.	15.45	.34	1.58	1.58	1.56	1.61	1.54	1.50	1.51	1.67	1.56	1.60	
7632.	15.50	.33	1.56	1.56	1.54	1.59	1.54	1.49	1.49	1.66	1.54	1.59	
7655.	15.50	.33	1.56	1.56	1.54	1.60	1.53	1.49	1.49	1.65	1.54	1.59	
7688.	15.54	.30	1.56	1.57	1.54	1.60	1.53	1.48	1.48	1.66	1.54	1.59	
7730.	15.52	.31	1.56	1.57	1.54	1.59	1.52	1.48	1.49	1.65	1.54	1.59	

PACK NO. 15 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
G.E. 3 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
7418.	11.79	1.51	1.18	1.19	1.17	1.16	1.16	1.19	1.16	1.17	1.17	1.15	END OF DISCHARGE
7550.	11.53	1.51	1.17	1.17	1.16	1.15	1.14	1.17	1.15	1.15	1.15	1.13	
7586.	11.48	1.51	1.17	1.12	1.15	1.14	1.14	1.18	1.15	1.13	1.17	1.13	
7606.	11.34	1.50	1.18	1.18	1.16	1.15	1.14	1.19	1.14	1.14	1.16	1.13	
7649.	11.31	1.51	1.17	1.18	1.16	1.15	1.13	1.18	1.15	1.14	1.16	1.12	
7691.	11.45	1.58	1.16	1.16	1.15	1.13	1.07	1.18	1.14	1.14	1.15	1.12	
7724.	11.41	1.52	1.16	1.16	1.15	1.14	1.13	1.17	1.12	1.12	1.16	1.12	
7741.	11.55	1.51	1.18	1.18	1.17	1.16	1.15	1.18	1.15	1.14	1.17	1.13	
7799.	11.39	1.51	1.16	1.17	1.15	1.14	1.12	1.17	1.11	1.11	1.16	1.11	
		.94											
7418.	14.86	.94	1.49	1.51	1.44	1.45	1.44	1.50	1.44	1.47	1.46	1.51	END OF CHARGE
7550.	14.62	.94	1.48	1.50	1.44	1.45	1.44	1.49	1.44	1.46	1.45	1.50	
7586.	14.64	.94	1.49	1.46	1.45	1.46	1.45	1.49	1.44	1.44	1.46	1.50	
7606.	14.65	.94	1.51	1.53	1.47	1.48	1.46	1.51	1.46	1.48	1.48	1.53	
7649.	14.49	.95	1.48	1.50	1.45	1.46	1.45	1.49	1.45	1.47	1.46	1.50	
7691.	14.66	.94	1.50	1.47	1.45	1.45	1.45	1.50	1.44	1.44	1.46	1.50	
7724.	14.61	.94	1.48	1.51	1.44	1.45	1.44	1.49	1.43	1.45	1.46	1.49	
7741.	14.67	.93	1.50	1.52	1.45	1.45	1.44	1.50	1.44	1.46	1.45	1.50	
7799.	14.61	.93	1.48	1.51	1.44	1.45	1.43	1.49	1.43	1.45	1.46	1.49	

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	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
7177.	7.51	.90	.65	.00	1.16	1.13	1.15	.00	.00	1.14	1.15	1.13	END OF DISCHARGE
7213.	6.96	.90	.12	.00	1.16	1.13	1.16	.00	.00	1.14	1.14	1.16	
7276.	6.63	.90	.00	.00	1.11	1.10	1.14	.00	.00	1.12	1.12	1.07	
7294.	6.29	.90	.00	.00	1.12	1.07	1.12	.00	.00	1.12	.88	1.00	
		.72											
7177.	9.94	.73	1.42	.00	1.42	1.41	1.42	.00	.00	1.43	1.42	1.42	END OF CHARGE
7213.	9.92	.73	1.42	.00	1.42	1.42	1.42	.00	.00	1.42	1.42	1.43	
7276.	8.31	.26	.00	.00	1.39	1.38	1.39	.00	.00	1.40	1.39	1.39	
7294.	8.31	.25	.00	.00	1.39	1.39	1.39	.00	.00	1.40	1.39	1.40	

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PACK NO. 67 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
G.E. 3 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 0.90	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3601.	12.42	.90	1.25	1.25	1.23	1.24	1.24	1.24	1.25	1.26	1.24	1.24	END OF
3613.	12.38	.90	1.24	1.25	1.23	1.24	1.24	1.24	1.25	1.25	1.23	1.24	DISCHARGE
3628.	12.35	.90	1.26	1.26	1.24	1.26	1.26	1.26	1.26	1.27	1.25	1.25	
3670.	12.34	.90	1.24	1.24	1.22	1.24	1.24	1.24	1.24	1.25	1.23	1.23	
3702.	12.31	.89	1.23	1.23	1.22	1.23	1.23	1.23	1.24	1.24	1.22	1.23	
		.21											
3601.	15.64	.09	1.62	1.47	1.50	1.61	1.62	1.57	1.58	1.54	1.60	1.56	END OF
3613.	15.52	.09	1.61	1.47	1.48	1.60	1.61	1.56	1.56	1.53	1.59	1.56	CHARGE
3628.	15.59	.10	1.63	1.49	1.50	1.62	1.63	1.60	1.60	1.56	1.61	1.59	
3670.	15.16	.05	1.60	1.44	1.44	1.59	1.60	1.51	1.49	1.48	1.56	1.50	
3702.	15.11	.05	1.57	1.43	1.42	1.53	1.58	1.53	1.51	1.47	1.54	1.51	

PACK NO. 68 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
G.E. 3 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3554.	12.33	1.51	1.20	1.20	1.21	1.22	1.21	1.22	1.22	1.23	1.22	1.21	END OF
3640.	12.02	1.51	1.19	1.20	1.20	1.20	1.20	1.20	1.21	1.22	1.21	1.20	DISCHARGE
3667.	12.02	1.49	1.22	1.22	1.22	1.23	1.22	1.23	1.23	1.24	1.23	1.23	
3719.	11.99	1.50	1.19	1.19	1.20	1.20	1.20	1.20	1.21	1.22	1.20	1.20	
3741.	12.04	1.50	1.19	1.20	1.20	1.20	1.20	1.20	1.21	1.21	1.20	1.19	
		.34											
3554.	15.48	.11	1.56	1.57	1.50	1.56	1.54	1.54	1.47	1.58	1.45	1.46	END OF
3640.	15.21	.10	1.58	1.60	1.47	1.57	1.55	1.55	1.45	1.60	1.42	1.44	CHARGE
3667.	15.46	.12	1.64	1.64	1.53	1.62	1.61	1.61	1.48	1.65	1.45	1.47	
3719.	15.34	.10	1.61	1.61	1.47	1.58	1.57	1.57	1.45	1.62	1.42	1.44	
3741.	15.36	.08	1.60	1.61	1.46	1.59	1.58	1.58	1.45	1.62	1.42	1.44	

PACK NO. 19 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
G.E. 3 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3610.	12.08	1.52	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.22	1.20	1.20	END OF DISCHARGE
3622.	12.04	1.52	1.21	1.21	1.20	1.21	1.20	1.21	1.21	1.22	1.20	1.20	
3637.	12.00	1.51	1.22	1.22	1.22	1.23	1.22	1.23	1.22	1.23	1.22	1.22	
3679.	12.03	1.51	1.20	1.21	1.20	1.21	1.20	1.21	1.20	1.22	1.20	1.20	
		.38											
3610.	14.72	.36	1.46	1.45	1.45	1.46	1.45	1.52	1.45	1.52	1.45	1.53	END OF CHARGE
3622.	14.77	.35	1.47	1.46	1.46	1.47	1.46	1.53	1.46	1.52	1.46	1.54	
3637.	14.76	.35	1.49	1.48	1.47	1.49	1.47	1.55	1.47	1.54	1.48	1.56	
3679.	14.66	.31	1.45	1.45	1.45	1.46	1.45	1.51	1.45	1.51	1.45	1.51	

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PACK NO. 20 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 25 C
G.E. 3 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 2.40	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3369.	11.07	2.43	1.14	1.08	1.05	1.07	1.04	1.08	1.09	1.08	1.13	1.11	END OF DISCHARGE
3455.	10.91	2.41	1.15	1.07	1.03	1.07	1.09	1.08	1.10	1.09	1.13	1.11	
3482.	11.13	2.39	1.18	1.13	1.12	1.14	1.08	1.13	1.14	1.16	1.17	1.16	
3534.	10.78	2.40	1.14	1.07	1.02	1.08	1.01	1.07	1.09	1.08	1.13	1.11	
3556.	10.97	2.41	1.14	1.10	.98	1.08	1.13	1.11	1.11	1.07	1.12	1.10	
		.60											
3369.	15.03	.55	1.50	1.47	1.45	1.46	1.44	1.48	1.49	1.47	1.52	1.50	END OF CHARGE
3455.	14.76	.54	1.51	1.46	1.44	1.45	1.44	1.48	1.49	1.47	1.52	1.50	
3482.	14.79	.56	1.54	1.50	1.48	1.49	1.46	1.51	1.52	1.50	1.52	1.53	
3534.	14.74	.57	1.50	1.47	1.44	1.46	1.44	1.48	1.50	1.47	1.50	1.50	
3556.	14.70	.58	1.49	1.47	1.42	1.46	1.44	1.47	1.49	1.47	1.48	1.49	

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	
3324.	9.97	1.51	1.08	1.11	1.06	1.12	1.09	.00	1.12	1.10	1.10	1.00	END OF DISCHARGE
3385.	10.00	1.50	1.09	1.13	1.10	1.12	1.10	.00	1.14	1.11	1.10	1.10	
3464.	9.80	1.50	1.08	1.12	1.07	1.12	1.09	.00	1.13	1.10	1.11	1.02	
		.48											
3324.	13.09	.35	1.42	1.46	1.43	1.41	1.41	.00	1.43	1.46	1.41	1.43	END OF CHARGE
3385.	12.82	.45	1.41	1.45	1.43	1.41	1.41	.00	1.43	1.46	1.41	1.43	
3464.	12.87	.43	1.42	1.46	1.43	1.41	1.41	.00	1.43	1.47	1.41	1.43	

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	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
7571.	12.35	1.06	1.24	1.23	1.22	1.25	1.23	1.24	1.25	1.25	1.24	1.20	END OF DISCHARGE
7607.	12.35	1.05	1.24	1.18	1.22	1.26	1.24	1.25	1.25	1.23	1.26	1.20	
7670.	12.38	1.05	1.26	1.25	1.24	1.29	1.25	1.26	1.26	1.27	1.28	1.23	
7712.	12.47	1.17	1.24	1.23	1.22	1.25	1.11	1.24	1.25	1.25	1.26	1.26	
7745.	12.47	1.06	1.24	1.23	1.22	1.27	1.24	1.25	1.25	1.25	1.26	1.26	
7762.	12.49	1.06	1.25	1.24	1.23	1.28	1.24	1.26	1.26	1.26	1.26	1.26	
7820.	12.46	1.05	1.24	1.23	1.22	1.26	1.24	1.25	1.25	1.25	1.24	1.26	
		.60											
7571.	15.21	.44	1.54	1.56	1.56	1.45	1.61	1.54	1.54	1.58	1.44	1.42	END OF CHARGE
7607.	15.21	.45	1.55	1.51	1.57	1.45	1.61	1.54	1.54	1.56	1.46	1.41	
7670.	15.37	.52	1.57	1.59	1.59	1.50	1.66	1.57	1.57	1.62	1.50	1.45	
7712.	15.41	.56	1.56	1.52	1.58	1.47	1.63	1.56	1.56	1.57	1.48	1.48	
7745.	15.39	.55	1.55	1.57	1.57	1.48	1.63	1.55	1.55	1.60	1.47	1.47	
7762.	15.37	.53	1.55	1.56	1.57	1.48	1.64	1.55	1.55	1.60	1.46	1.47	
7820.	15.39	.55	1.55	1.57	1.57	1.47	1.62	1.55	1.55	1.60	1.45	1.47	

PACK NO. 52 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C

GOULD 3.5 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.75	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
7249.	11.13	1.76	1.22	1.22	1.22	1.22	1.22	1.23	1.21	1.25	1.23	.01	END OF DISCHARGE
7383.	10.82	1.77	1.21	1.20	1.20	1.19	1.20	1.21	1.18	1.22	1.20	.02	
7439.	10.87	1.75	1.23	1.22	1.23	1.22	1.23	1.23	1.21	1.25	1.22	.00	
7482.	10.76	1.77	1.22	1.21	1.22	1.21	1.22	1.22	1.20	1.23	1.21	.00	
7628.	12.10	1.76	1.21	1.20	1.21	1.20	1.20	1.21	1.20	1.22	1.20	1.23	
		1.00											
7249.	14.31	.63	1.60	1.59	1.49	1.59	1.56	1.58	1.57	1.60	1.60	.01	END OF CHARGE
7383.	14.02	.71	1.59	1.58	1.51	1.59	1.57	1.58	1.52	1.58	1.55	.02	
7439.	13.98	.71	1.60	1.59	1.54	1.61	1.58	1.60	1.53	1.61	1.56	.00	
7482.	13.97	.70	1.60	1.60	1.54	1.60	1.58	1.60	1.53	1.59	1.55	.00	
7628.	14.96	.34	1.52	1.51	1.47	1.54	1.52	1.53	1.44	1.50	1.43	1.51	

PACK NO. 55 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
GOULD 3.5 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.05	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3631.	12.42	1.05	1.24	1.25	1.25	1.23	1.24	1.23	1.24	1.25	1.24	1.24	END OF DISCHARGE
3643.	12.39	1.05	1.24	1.25	1.25	1.23	1.24	1.24	1.24	1.25	1.24	1.24	
3658.	12.35	1.05	1.26	1.26	1.26	1.25	1.25	1.25	1.26	1.27	1.26	1.25	
3700.	12.37	1.05	1.24	1.24	1.24	1.23	1.23	1.23	1.24	1.25	1.24	1.24	
		.24											
3631.	15.27	.25	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.55	1.52	1.52	END OF CHARGE
3643.	15.30	.25	1.54	1.54	1.54	1.54	1.54	1.53	1.53	1.56	1.52	1.52	
3658.	15.24	.24	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.57	1.54	1.54	
3700.	15.10	.18	1.52	1.51	1.51	1.52	1.51	1.51	1.51	1.54	1.50	1.50	

55.

PACK NO. 56
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.75	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3525.	12.28	1.77	1.20	1.20	1.21	1.21	1.20	1.20	1.21	1.22	1.20	1.21	END OF DISCHARGE
3611.	12.08	1.77	1.20	1.21	1.21	1.21	1.20	1.20	1.21	1.22	1.20	1.21	
3638.	12.09	1.76	1.23	1.23	1.24	1.23	1.23	1.23	1.24	1.25	1.23	1.24	
3690.	12.04	1.76	1.20	1.20	1.21	1.21	1.20	1.20	1.21	1.22	1.20	1.21	
3712.	12.06	1.77	1.20	1.20	1.20	1.21	1.20	1.20	1.21	1.22	1.20	1.20	
		.40											
3525.	15.81	.36	1.53	1.54	1.56	1.60	1.55	1.55	1.57	1.57	1.54	1.55	END OF CHARGE
3611.	15.48	.35	1.54	1.54	1.56	1.57	1.54	1.54	1.56	1.56	1.54	1.54	
3638.	15.46	.37	1.56	1.57	1.58	1.59	1.56	1.56	1.58	1.59	1.56	1.56	
3690.	15.49	.36	1.54	1.54	1.55	1.57	1.55	1.55	1.56	1.56	1.54	1.54	
3712.	15.63	.35	1.54	1.54	1.58	1.66	1.54	1.54	1.58	1.56	1.54	1.54	

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	
3471.	7.78	1.74	.00	.00	1.18	1.15	.91	.20	1.14	1.20	1.20	1.19	END OF DISCHARGE
3484.	7.75	1.74	.00	.00	1.18	1.15	.91	.00	1.13	1.20	1.20	1.19	
3490.	7.96	1.73	.00	.00	1.19	1.16	.94	.00	1.19	1.24	1.21	1.20	
3532.	7.85	1.73	.00	.00	1.17	1.13	.87	.00	1.12	1.19	1.20	1.18	
3564.	8.03	1.74	.00	.00	1.17	1.14	1.00	.00	1.16	1.21	1.19	1.17	
		.44											
3471.	11.55	.44	.00	.00	1.46	1.45	1.42	1.43	1.45	1.47	1.46	1.45	END OF CHARGE
3484.	11.57	.44	.00	.00	1.47	1.45	1.43	.00	1.45	1.48	1.46	1.46	
3490.	10.23	.44	.00	.00	1.49	1.48	1.45	.00	1.51	1.53	1.49	1.49	
3532.	10.20	.43	.00	.00	1.48	1.45	1.44	.00	1.46	1.48	1.48	1.47	
3564.	10.17	.43	.00	.00	1.46	1.44	1.42	.00	1.47	1.49	1.46	1.45	

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	
7076.	11.00	1.52	1.22	1.23	1.06	1.22	1.22	1.24	1.25	1.27	.00	1.24	END OF DISCHARGE
7114.	11.03	1.50	1.22	1.22	1.09	1.21	1.22	1.24	1.25	1.26	.00	1.24	
7140.	11.13	1.51	1.21	1.22	1.20	1.21	1.22	1.23	1.24	1.26	.00	1.23	
7282.	10.89	1.51	1.20	1.20	1.23	1.19	1.20	1.21	1.23	1.24	.00	1.21	
7312.	10.94	1.49	1.22	1.23	1.25	1.21	1.22	1.24	1.25	1.26	.00	1.24	
7354.	10.87	1.50	1.22	1.22	1.24	1.21	1.22	1.24	1.25	1.26	.00	1.24	
7393.	10.96	1.51	1.20	1.21	1.23	1.20	1.21	1.22	1.23	1.24	.00	1.22	
7430.	10.98	1.52	1.21	1.21	1.23	1.20	1.21	1.23	1.24	1.25	.00	1.23	
7450.	11.02	1.49	1.21	1.22	1.24	1.21	1.21	1.23	1.24	1.26	.00	1.23	
7483.	11.05	1.51	1.22	1.08	1.24	1.21	1.20	1.24	1.24	1.24	.00	1.25	
7519.	10.98	1.50	1.21	1.21	1.23	1.20	1.20	1.22	1.24	1.25	.00	1.23	
		.86											
7076.	14.08	.62	1.56	1.56	1.41	1.58	1.55	1.62	1.57	1.59	.00	1.54	END OF CHARGE
7114.	14.03	.59	1.56	1.55	1.43	1.57	1.54	1.60	1.56	1.58	.00	1.54	
7140.	14.02	.58	1.55	1.55	1.43	1.56	1.54	1.60	1.56	1.58	.00	1.53	
7282.	13.48	.45	1.49	1.50	1.49	1.49	1.47	1.56	1.50	1.52	.00	1.49	
7312.	13.47	.44	1.51	1.52	1.52	1.51	1.49	1.58	1.53	1.54	.00	1.51	
7354.	13.89	.56	1.57	1.57	1.57	1.55	1.53	1.66	1.56	1.58	.00	1.55	
7393.	13.96	.50	1.55	1.54	1.57	1.54	1.51	1.64	1.54	1.56	.00	1.53	
7430.	13.93	.56	1.55	1.54	1.56	1.55	1.53	1.58	1.56	1.57	.00	1.54	
7450.	13.94	.53	1.55	1.53	1.58	1.55	1.53	1.58	1.56	1.57	.00	1.54	
7483.	13.94	.54	1.54	1.49	1.58	1.54	1.52	1.60	1.55	1.55	.00	1.53	
7519.	13.94	.53	1.54	1.53	1.58	1.54	1.52	1.58	1.55	1.57	.00	1.53	

PACK NO. 50 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
SONOTONE 5 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
7069.	11.89	2.51	1.11	1.19	1.16	1.13	1.13	1.19	1.20	1.20	1.19	1.18	END OF DISCHARGE
7103.	11.81	2.50	1.12	1.19	1.16	1.13	1.14	1.20	1.20	1.22	1.20	1.19	
7301.	11.55	2.50	1.12	1.19	1.16	1.13	1.14	1.20	1.20	1.22	1.20	1.19	
7344.	11.53	2.50	1.11	1.20	1.16	1.13	1.14	1.20	1.20	1.22	1.20	1.19	
7385.	11.54	2.49	1.09	1.18	1.14	1.11	1.11	1.18	1.18	1.20	1.18	1.17	
7421.	11.58	2.50	1.10	1.18	1.15	1.11	1.12	1.19	1.19	1.20	1.19	1.17	
7440.	11.84	2.49	1.14	1.20	1.18	1.15	1.15	1.21	1.21	1.22	1.21	1.20	
7472.	11.66	2.49	1.11	1.06	1.16	1.12	1.12	1.20	1.20	1.19	1.20	1.20	
		1.44											
7069.	15.60	.70	1.54	1.48	1.54	1.53	1.54	1.53	1.48	1.56	1.49	1.66	END OF CHARGE
7103.	15.56	.68	1.54	1.49	1.55	1.54	1.55	1.54	1.49	1.57	1.50	1.68	
7301.	15.27	.71	1.55	1.49	1.55	1.54	1.56	1.55	1.50	1.57	1.50	1.68	
7344.	15.28	.69	1.55	1.50	1.55	1.54	1.56	1.55	1.50	1.57	1.51	1.69	
7385.	15.31	.67	1.54	1.43	1.55	1.53	1.54	1.53	1.48	1.54	1.49	1.66	
7421.	15.29	.66	1.53	1.48	1.53	1.52	1.54	1.52	1.48	1.55	1.49	1.67	
7440.	15.25	.68	1.53	1.47	1.54	1.52	1.53	1.53	1.48	1.55	1.49	1.66	
7472.	15.29	.67	1.54	1.43	1.54	1.52	1.54	1.53	1.48	1.54	1.49	1.67	

PACK NO. 1 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
SONOTONE 5 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
6949.	8.86	2.50	.00	1.17	1.13	.00	1.03	.86	1.17	1.17	1.16	1.15	END OF DISCHARGE
6987.	8.81	2.49	.00	1.17	1.13	.00	1.04	.79	1.17	1.17	1.16	1.15	
7013.	8.80	2.49	.00	1.16	1.12	.00	1.02	.82	1.16	1.16	1.15	1.14	
7158.	8.84	2.53	.00	1.17	1.13	.00	1.06	.85	1.18	1.18	1.16	1.15	
7185.	9.01	2.50	.00	1.20	1.16	.00	1.09	.96	1.20	1.20	1.19	1.18	
7227.	8.63	2.48	.00	1.20	1.16	.00	1.07	.69	1.20	1.20	1.18	1.17	
7266.	8.83	2.50	.00	1.18	1.14	.00	1.06	.83	1.17	1.17	1.16	1.15	
7303.	8.68	2.51	.00	1.17	1.13	.00	1.05	.75	1.17	1.17	1.16	1.14	
7323.	8.56	2.49	.00	1.18	1.13	.00	1.05	.61	1.17	1.17	1.16	1.15	
7356.	8.79	2.49	.00	1.02	1.16	.00	1.03	.73	1.19	1.14	1.18	1.18	
7392.	8.81	2.50	.00	1.17	1.13	.00	1.05	.84	1.17	1.17	1.15	1.14	
		1.56											
6949.	11.89	1.12	.00	1.45	1.46	.00	1.50	1.49	1.47	1.50	1.48	1.48	END OF CHARGE
6987.	11.89	1.07	.00	1.45	1.46	.00	1.50	1.49	1.47	1.49	1.48	1.48	
7013.	11.88	1.09	.00	1.45	1.46	.00	1.50	1.49	1.47	1.49	1.47	1.48	
7158.	11.89	1.57	.00	1.46	1.48	.00	1.53	1.51	1.49	1.50	1.49	1.49	
7185.	11.84	1.57	.00	1.48	1.49	.00	1.55	1.52	1.50	1.52	1.51	1.51	
7227.	11.78	1.34	.00	1.47	1.49	.00	1.53	1.52	1.50	1.51	1.50	1.50	
7266.	11.79	1.28	.00	1.45	1.46	.00	1.51	1.49	1.47	1.49	1.48	1.48	
7303.	11.78	1.36	.00	1.45	1.46	.00	1.51	1.49	1.48	1.49	1.48	1.48	
7323.	11.79	1.16	.00	1.45	1.46	.00	1.51	1.49	1.48	1.50	1.48	1.48	
7356.	11.78	1.33	.00	1.41	1.46	.00	1.51	1.49	1.47	1.47	1.48	1.48	
7392.	11.86	1.56	.00	1.45	1.46	.00	1.52	1.50	1.48	1.50	1.48	1.48	

XERO COPY

PACK NO. 2 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 25 C
SONOTONE 5 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 4.00	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
6300.	5.78	4.01	1.13	.00	1.15	1.14	.00	.00	.00	1.13	1.13	.00	END OF DISCHARGE
6334.	5.47	4.01	.96	.00	1.13	1.12	.00	.00	.00	1.11	1.12	.00	
6476.	4.86	3.94	.89	.00	.87	.87	.00	.00	.00	1.11	1.13	.00	
6532.	4.90	3.95	.82	.00	1.01	.97	.00	.00	.00	1.06	1.14	.00	
6575.	5.12	3.95	.98	.00	1.05	1.02	.00	.00	.00	1.04	1.15	.00	
6616.	4.62	3.87	.68	.00	.94	.91	.00	.00	.00	.97	1.12	.00	
6652.	4.80	3.89	.76	.00	1.00	.93	.00	.00	.00	1.00	1.13	.00	
6671.	3.60	3.08	.13	.00	.89	.83	.00	.00	.00	.91	1.12	.00	
		2.50											
6300.	7.71	.58	1.46	.00	1.47	1.51	.00	.00	.00	1.50	1.64	.00	END OF CHARGE
6334.	7.70	.75	1.46	.00	1.49	1.50	.00	.00	.00	1.52	1.67	.00	
6476.	7.42	.70	1.44	.00	1.43	1.43	.00	.00	.00	1.50	1.62	.00	
6532.	7.39	.67	1.47	.00	1.47	1.48	.00	.00	.00	1.47	1.64	.00	
6575.	7.38	.79	1.47	.00	1.46	1.48	.00	.00	.00	1.45	1.64	.00	
6616.	7.40	.67	1.45	.00	1.45	1.46	.00	.00	.00	1.44	1.62	.00	
6652.	7.42	.64	1.45	.00	1.45	1.46	.00	.00	.00	1.45	1.62	.00	
6671.	7.40	.63	1.45	.00	1.45	1.46	.00	.00	.00	1.45	1.62	.00	

XERO COPY XERO COPY XERO COPY

PACK NO. 25 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 C
SONOTONE 5 A.H. PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
6721.	10.31	1.48	1.12	1.14	1.14	1.11	.00	1.10	1.18	1.19	1.13	1.16	END OF
6759.	10.33	1.48	1.12	1.14	1.14	1.11	.00	1.10	1.18	1.19	1.14	1.16	DISCHARGE
6785.	9.83	1.47	1.06	1.11	1.10	1.04	.00	1.00	1.14	1.14	1.05	1.10	
6931.	9.09	1.49	1.02	1.07	1.06	.69	.00	.97	1.11	1.12	1.00	1.05	
6988.	9.13	1.50	1.14	1.14	1.15	.17	.00	1.14	1.20	1.20	1.16	1.18	
7025.	9.01	1.50	1.13	1.14	1.14	.19	.00	1.11	1.19	1.19	1.15	1.17	
7045.	9.09	1.48	1.14	1.15	1.15	.16	.00	1.12	1.20	1.20	1.16	1.17	
		1.20											
6721.	13.46	.57	1.45	1.44	1.44	1.68	.00	1.45	1.42	1.45	1.43	1.61	END OF
6759.	13.18	.36	1.43	1.42	1.42	1.61	.00	1.43	1.41	1.44	1.42	1.51	CHARGE
6785.	13.15	.35	1.44	1.42	1.42	1.57	.00	1.43	1.40	1.43	1.42	1.50	
6931.	12.89	.38	1.44	1.42	1.42	1.50	.00	1.44	1.40	1.43	1.41	1.47	
6988.	13.16	.84	1.46	1.44	1.44	1.44	.00	1.48	1.42	1.45	1.43	1.63	
7025.	13.18	.82	1.46	1.44	1.44	1.46	.00	1.48	1.42	1.46	1.43	1.63	
7045.	13.15	.84	1.46	1.44	1.44	1.44	.00	1.48	1.43	1.46	1.43	1.63	

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	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3428.	12.65	1.50	1.23	1.25	1.25	1.26	1.26	1.26	1.26	1.27	1.26	1.25	END OF DISCHARGE
3428.	15.32	.35 .25	1.52	1.51	1.52	1.52	1.53	1.53	1.53	1.54	1.50	1.48	END OF CHARGE

63.

PACK NO. 54 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
SONOTONE 5 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3458.	11.90	2.52	1.19	1.17	1.05	1.16	1.21	1.20	1.19	1.22	1.21	1.21	END OF DISCHARGE
3525.	11.70	2.51	1.18	1.16	1.03	1.16	1.20	1.19	1.18	1.21	1.20	1.20	
3540.	11.60	2.50	1.20	1.18	1.04	1.17	1.21	1.21	1.20	1.22	1.21	1.21	
3580.	11.68	2.51	1.18	1.16	1.04	1.15	1.20	1.19	1.18	1.20	1.20	1.19	
3609.	11.67	2.50	1.18	1.16	1.03	1.16	1.20	1.19	1.19	1.21	1.20	1.20	
		.58											
3458.	16.13	.51	1.53	1.58	1.57	1.55	1.57	1.66	1.71	1.72	1.56	1.54	END OF CHARGE
3525.	15.73	.46	1.52	1.55	1.55	1.53	1.54	1.63	1.69	1.72	1.54	1.52	
3540.	15.67	.49	1.54	1.57	1.57	1.55	1.56	1.63	1.69	1.73	1.55	1.54	
3580.	15.61	.41	1.51	1.52	1.52	1.52	1.53	1.65	1.66	1.70	1.52	1.51	
3609.	15.59	.41	1.50	1.54	1.53	1.52	1.52	1.63	1.67	1.70	1.52	1.51	

64

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	
3441.	10.39	2.50	1.17	.00	1.05	1.14	1.16	1.16	1.17	1.18	1.15	1.14	END OF DISCHARGE
3484.	10.54	2.50	1.13	.00	1.04	1.11	1.15	1.13	1.16	1.18	1.15	1.12	
3526.	10.14	2.49	1.16	.00	1.05	1.13	1.17	1.16	1.19	1.19	1.17	1.15	
3566.	9.90	2.50	1.13	.00	.98	1.05	1.13	1.12	1.15	1.15	1.14	1.08	
		.62											
3441.	12.91	.62	1.41	.00	1.43	1.42	1.42	1.42	1.42	1.44	1.42	1.41	END OF CHARGE
3484.	13.33	.60	1.42	.00	1.44	1.42	1.43	1.43	1.43	1.44	1.42	1.42	
3526.	12.80	.59	1.43	.00	1.45	1.44	1.43	1.44	1.44	1.46	1.44	1.43	
3566.	12.82	.57	1.42	.00	1.44	1.42	1.42	1.43	1.43	1.45	1.42	1.42	

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	
3363.	7.62	4.00	1.14	1.14	1.13	.00	1.15	1.07	1.10	.00	.83	.00	END OF DISCHARGE
3430.	7.36	3.97	1.13	1.13	1.12	.00	1.13	1.03	1.08	.00	.75	.00	
3480.	7.79	4.03	1.15	1.15	1.15	.00	1.15	1.12	1.13	.00	.95	.00	
		1.00											
3363.	10.88	.68	1.46	1.56	1.45	.00	1.60	1.45	1.62	.00	1.62	.00	END OF CHARGE
3430.	10.54	.51	1.45	1.52	1.43	.00	1.54	1.44	1.58	.00	1.58	.00	
3480.	10.87	.92	1.48	1.61	1.46	.00	1.62	1.46	1.63	.00	1.61	.00	

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

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3370.	10.48	1.50	.00	1.20	1.20	1.15	1.18	1.17	1.17	1.05	1.13	1.18	END OF
3413.	10.73	1.48	.00	1.20	1.18	1.13	1.17	1.16	1.16	1.06	1.12	1.17	DISCHARGE
3455.	10.39	1.47	.00	1.22	1.21	1.16	1.19	1.18	1.18	1.09	1.16	1.20	
3495.	10.24	1.51	.00	1.19	1.18	1.11	1.16	1.15	1.15	1.02	1.12	1.17	
3558.	10.31	1.52	.00	1.19	1.18	1.13	1.17	1.16	1.15	1.01	1.13	1.18	
		.48											
3370.	12.78	.47	.00	1.40	1.39	1.38	1.42	1.39	1.41	1.46	1.42	1.40	END OF
3413.	13.08	.45	.00	1.40	1.39	1.37	1.41	1.39	1.40	1.45	1.41	1.39	CHARGE
3455.	12.55	.45	.00	1.41	1.40	1.38	1.42	1.40	1.42	1.47	1.42	1.41	
3495.	12.59	.47	.00	1.40	1.39	1.37	1.41	1.39	1.41	1.46	1.41	1.40	
3558.	12.60	.47	.00	1.40	1.39	1.37	1.41	1.39	1.40	1.46	1.41	1.40	

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	
3269.	8.11	2.52	1.15	1.16	1.15	.00	1.12	1.16	.00	1.15	.00	1.14	END OF DISCHARGE
3336.	7.89	2.54	1.10	1.15	1.14	.00	1.12	1.15	.00	1.11	.00	1.14	
3351.	7.67	2.52	1.03	1.16	1.15	.00	1.12	1.16	.00	1.09	.00	1.15	
3391.	7.65	2.53	1.02	1.14	1.13	.00	1.11	1.15	.00	.99	.00	1.13	
3420.	7.70	2.52	1.02	1.14	1.13	.00	1.11	1.15	.00	1.05	.00	1.13	
		.80											
3269.	10.30	.59	1.42	1.44	1.47	.00	1.49	1.44	.00	1.45	.00	1.48	END OF CHARGE
3336.	10.14	.58	1.41	1.44	1.47	.00	1.48	1.44	.00	1.43	.00	1.49	
3351.	10.14	.61	1.42	1.46	1.50	.00	1.52	1.46	.00	1.44	.00	1.52	
3391.	10.12	.55	1.41	1.44	1.47	.00	1.47	1.44	.00	1.42	.00	1.48	
3420.	10.14	.54	1.41	1.43	1.48	.00	1.48	1.44	.00	1.43	.00	1.49	

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	
6266.	6.84	1.80	.81	1.23	1.09	.00	.00	.00	1.22	1.24	1.24	.00	END OF DISCHARGE
6304.	6.84	1.80	.82	1.23	1.08	.00	.00	.00	1.22	1.23	1.23	.00	
6330.	6.80	1.80	.79	1.23	1.06	.00	.00	.00	1.21	1.23	1.23	.00	
6475.	6.57	1.79	.74	1.21	1.02	.00	.00	.00	1.20	1.21	1.21	.00	
6533.	6.86	1.81	.84	1.22	1.14	.00	.00	.00	1.21	1.23	1.23	.00	
6570.	6.76	1.80	.77	1.22	1.13	.00	.00	.00	1.21	1.22	1.23	.00	
6590.	6.82	1.80	.80	1.22	1.14	.00	.00	.00	1.22	1.23	1.23	.00	
6623.	6.92	1.79	.83	1.10	1.15	.00	.00	.00	1.23	1.21	1.25	.00	
6659.	6.79	1.80	.79	1.22	1.13	.00	.00	.00	1.21	1.22	1.22	.00	
		1.04											
6266.	9.46	.59	1.69	1.56	1.53	.00	.00	.00	1.54	1.54	1.55	.00	END OF CHARGE
6304.	9.42	.57	1.68	1.54	1.52	.00	.00	.00	1.53	1.53	1.54	.00	
6330.	9.42	.57	1.68	1.54	1.52	.00	.00	.00	1.53	1.53	1.54	.00	
6475.	9.16	.50	1.66	1.51	1.49	.00	.00	.00	1.51	1.51	1.52	.00	
6533.	9.18	.46	1.63	1.49	1.50	.00	.00	.00	1.48	1.48	1.62	.00	
6570.	9.25	.52	1.64	1.50	1.50	.00	.00	.00	1.50	1.49	1.66	.00	
6590.	9.25	.46	1.64	1.51	1.50	.00	.00	.00	1.50	1.50	1.64	.00	
6623.	9.23	.49	1.64	1.50	1.50	.00	.00	.00	1.50	1.49	1.62	.00	
6659.	9.24	.49	1.65	1.51	1.50	.00	.00	.00	1.51	1.50	1.58	.00	

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	
6748.	8.27	3.02	1.18	1.15	1.16	.00	.00	1.14	1.15	1.17	1.18	.00	END OF DISCHARGE
6782.	8.21	3.02	1.19	1.15	1.16	.00	.00	1.14	1.16	1.18	1.19	.00	
6924.	7.65	3.02	1.14	1.08	1.11	.00	.00	1.09	1.08	1.10	1.06	.00	
6980.	7.58	3.01	1.14	1.09	1.11	.00	.00	1.10	1.09	1.11	1.08	.00	
7023.	7.60	3.01	1.15	1.11	1.12	.00	.00	1.11	1.09	1.12	1.08	.00	
7051.	8.57	3.04	1.23	1.22	1.20	.00	.00	1.22	1.24	1.25	1.24	.00	
7102.	8.39	3.02	1.20	1.07	1.19	.00	.00	1.19	1.21	1.19	1.22	.00	
		1.72											
6748.	11.15	.77	1.54	1.62	1.57	.00	.00	1.63	1.55	1.56	1.51	.00	END OF CHARGE
6782.	11.12	.77	1.56	1.63	1.57	.00	.00	1.64	1.56	1.57	1.53	.00	
6924.	10.35	.66	1.49	1.49	1.51	.00	.00	1.49	1.46	1.51	1.42	.00	
6980.	10.31	.70	1.50	1.51	1.53	.00	.00	1.51	1.47	1.52	1.44	.00	
7023.	10.32	.71	1.51	1.51	1.53	.00	.00	1.51	1.47	1.53	1.44	.00	
7051.	10.90	1.05	1.55	1.62	1.54	.00	.00	1.63	1.52	1.54	1.52	.00	
7102.	10.94	.87	1.54	1.61	1.55	.00	.00	1.66	1.53	1.54	1.51	.00	

PACK NO. 37 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 C
GULTON 6 A.H. PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.80	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
5855.	4.95	1.80	1.17	.72	.00	.00	1.18	.70	.00	.00	1.17	.00	END OF
5893.	5.00	1.79	1.17	.74	.00	.00	1.18	.71	.00	.00	1.17	.00	DISCHARGE
5919.	5.16	1.79	1.19	.80	.00	.00	1.18	.76	.00	.00	1.20	.00	
6064.	4.45	1.71	1.07	.60	.00	.00	1.14	.42	.00	.00	1.23	.00	
		1.44											
5855.	7.37	1.25	1.43	1.50	.00	.00	1.45	1.49	.00	.00	1.43	.00	END OF
5893.	7.32	1.06	1.42	1.49	.00	.00	1.44	1.47	.00	.00	1.42	.00	CHARGE
5919.	7.42	1.46	1.44	1.51	.00	.00	1.45	1.49	.00	.00	1.43	.00	
6064.	7.19	.94	1.41	1.47	.00	.00	1.42	1.47	.00	.00	1.42	.00	

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	
3560.	12.61	1.81	1.25	1.26	1.25	1.26	1.26	1.26	1.23	1.27	1.26	1.21	END OF DISCHARGE
3603.	12.74	1.79	1.23	1.24	1.23	1.24	1.24	1.20	1.21	1.27	1.23	1.18	
3645.	12.15	1.79	1.25	1.26	1.25	1.25	1.23	1.18	1.23	1.26	1.26	1.20	
3685.	11.99	1.81	1.22	1.23	1.22	1.22	1.21	1.07	1.20	1.23	1.23	1.17	
3748.	12.34	1.83	1.23	1.24	1.23	1.24	1.24	1.26	1.22	1.25	1.24	1.19	
		.41											
3560.	15.50	.40	1.53	1.54	1.53	1.54	1.52	1.49	1.63	1.53	1.50	1.57	END OF CHARGE
3603.	15.84	.35	1.56	1.56	1.53	1.53	1.50	1.37	1.61	1.51	1.49	1.59	
3645.	14.63	.27	1.51	1.52	1.50	1.51	1.40	1.35	1.53	1.50	1.47	1.52	
3685.	14.96	.38	1.52	1.53	1.51	1.51	1.40	1.36	1.59	1.50	1.47	1.60	
3748.	15.40	.33	1.60	1.58	1.53	1.52	1.51	1.40	1.62	1.52	1.49	1.64	

PACK NO. 66 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GULTON 6 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3280.	5.92	3.04	1.18	1.20	.00	1.15	.00	.00	.00	.00	1.17	1.19	END OF DISCHARGE
3347.	5.87	3.03	1.18	1.20	.00	1.13	.00	.00	.00	.00	1.19	1.18	
3362.	5.76	3.01	1.19	1.21	.00	1.14	.00	.00	.00	.00	1.20	1.18	
3402.	5.82	3.03	1.17	1.19	.00	1.12	.00	.00	.00	.00	1.18	1.19	
3431.	5.79	3.01	1.18	1.20	.00	1.11	.00	.00	.00	.00	1.18	1.17	
		.69											
3280.	7.78	.67	1.57	1.58	.00	1.66	.00	.00	.00	.00	1.47	1.43	END OF CHARGE
3347.	7.76	.66	1.62	1.61	.00	1.57	.00	.00	.00	.00	1.56	1.43	
3362.	7.70	.69	1.64	1.63	.00	1.57	.00	.00	.00	.00	1.55	1.44	
3402.	7.84	.66	1.65	1.65	.00	1.56	.00	.00	.00	.00	1.55	1.46	
3431.	7.81	.66	1.65	1.65	.00	1.55	.00	.00	.00	.00	1.56	1.43	

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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	
3091.	6.60	2.99	.00	1.15	1.11	1.04	1.16	.95	.00	.00	.00	1.07	END OF DISCHARGE
3122.	6.36	2.95	.00	1.13	1.09	1.01	1.15	.89	.00	.00	.00	1.04	
3189.	5.89	2.94	.00	1.11	1.06	.97	1.06	.69	.00	.00	.00	1.00	
3204.	6.27	3.02	.00	1.14	1.13	1.03	1.17	.91	.00	.00	.00	1.05	
3244.	6.49	2.98	.00	1.15	1.10	1.06	1.17	.93	.00	.00	.00	1.09	
3273.	6.47	2.95	.00	1.15	1.09	1.05	1.16	.95	.00	.00	.00	1.08	
		.96											
3091.	9.29	.90	.00	1.58	1.50	1.53	1.45	1.56	.00	.00	.00	1.50	END OF CHARGE
3122.	9.18	.72	.00	1.57	1.49	1.53	1.45	1.55	.00	.00	.00	1.48	
3189.	8.91	.54	.00	1.53	1.48	1.49	1.42	1.53	.00	.00	.00	1.45	
3204.	9.23	.96	.00	1.61	1.58	1.55	1.47	1.61	.00	.00	.00	1.54	
3244.	9.07	.80	.00	1.55	1.49	1.51	1.44	1.57	.00	.00	.00	1.51	
3273.	9.09	.77	.00	1.58	1.47	1.52	1.44	1.56	.00	.00	.00	1.52	

PACK NO. 110 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
G.E. 12 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	CELL VOLTAGES 1	2	3	4	5	
6771.	6.18	3.60	1.25	1.25	1.25	1.25	1.25	END OF DISCHARGE
6809.	6.18	3.59	1.25	1.25	1.25	1.25	1.25	
6835.	6.17	3.59	1.24	1.24	1.25	1.24	1.24	
6980.	6.15	3.63	1.23	1.24	1.23	1.23	1.23	
7007.	6.21	3.58	1.25	1.26	1.26	1.25	1.26	
7049.	6.20	3.56	1.26	1.26	1.26	1.25	1.26	
7088.	6.14	3.63	1.23	1.23	1.23	1.22	1.22	
7125.	6.14	3.63	1.23	1.23	1.23	1.22	1.23	
7145.	6.14	3.61	1.23	1.23	1.23	1.23	1.23	
7178.	6.24	3.62	1.24	1.11	1.25	1.24	1.23	
		2.07						
6771.	7.83	1.22	1.59	1.59	1.56	1.57	1.56	END OF CHARGE
6809.	7.80	1.22	1.59	1.59	1.55	1.56	1.56	
6835.	7.80	1.19	1.59	1.58	1.55	1.56	1.55	
6980.	7.80	1.25	1.59	1.58	1.54	1.56	1.54	
7007.	7.84	1.23	1.60	1.60	1.56	1.58	1.57	
7049.	7.76	1.10	1.59	1.58	1.55	1.56	1.55	
7088.	7.70	.96	1.56	1.56	1.52	1.54	1.52	
7125.	7.69	1.06	1.57	1.55	1.52	1.54	1.53	
7145.	7.70	1.10	1.57	1.56	1.52	1.54	1.53	
7178.	7.78	1.21	1.59	1.57	1.54	1.56	1.54	

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 NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
6538.	5.94	6.00	1.20	1.21	1.14	1.20	1.20	END OF DISCHARGE
6576.	5.94	6.00	1.20	1.20	1.14	1.20	1.20	
6602.	5.94	5.99	1.20	1.20	1.13	1.20	1.20	
6747.	5.82	5.99	1.18	1.19	1.12	1.18	1.18	
6774.	5.82	6.02	1.20	1.21	1.14	1.20	1.20	
6816.	5.78	5.99	1.20	1.21	1.14	1.20	1.20	
6855.	5.88	5.97	1.19	1.19	1.13	1.19	1.19	
6892.	5.86	5.97	1.19	1.19	1.13	1.19	1.19	
6912.	5.89	5.97	1.19	1.20	1.13	1.19	1.19	
6945.	5.92	5.93	1.20	1.20	1.09	1.21	1.21	
		3.45						
6538.	7.87	1.38	1.56	1.52	1.66	1.51	1.58	END OF CHARGE
6576.	7.84	1.37	1.56	1.51	1.65	1.50	1.58	
6602.	7.85	1.41	1.56	1.51	1.65	1.50	1.58	
6747.	7.59	1.11	1.53	1.48	1.61	1.46	1.55	
6774.	7.54	1.25	1.55	1.50	1.63	1.49	1.56	
6816.	7.53	1.18	1.55	1.50	1.62	1.49	1.56	
6855.	7.63	1.04	1.53	1.49	1.61	1.48	1.54	
6892.	7.63	1.16	1.54	1.49	1.60	1.48	1.54	
6912.	7.64	1.18	1.54	1.49	1.61	1.48	1.55	
6945.	7.62	1.09	1.53	1.48	1.59	1.47	1.52	

PACK NO. 82 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
G.E. 12 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
6807.	5.65	5.92	1.18	1.12	1.13	1.17	1.13	END OF DISCHARGE
6845.	5.68	5.93	1.18	1.13	1.14	1.17	1.14	
6871.	5.69	5.92	1.18	1.13	1.13	1.17	1.15	
7016.	5.73	5.89	1.18	1.13	1.14	1.17	1.15	
7043.	5.75	5.93	1.19	1.13	1.16	1.18	1.16	
7124.	5.65	5.96	1.17	1.09	1.13	1.15	1.13	
7165.	5.75	5.91	1.17	.96	1.17	1.17	1.14	
7201.	5.66	5.90	1.16	1.08	1.14	1.16	1.13	
		3.75						
6807.	7.34	3.19	1.50	1.48	1.48	1.48	1.46	END OF CHARGE
6845.	7.34	3.23	1.50	1.48	1.48	1.48	1.47	
6871.	7.33	3.28	1.49	1.47	1.47	1.48	1.46	
7016.	7.41	3.62	1.50	1.48	1.48	1.49	1.48	
7043.	7.39	3.38	1.51	1.49	1.50	1.50	1.48	
7124.	7.33	3.38	1.49	1.46	1.47	1.47	1.45	
7165.	7.22	3.43	1.46	1.45	1.45	1.45	1.43	
7201.	7.31	3.72	1.48	1.46	1.46	1.47	1.44	

PACK NO. 85 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 C
G.E. 12 A.H. PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	CELL VOLTAGES 1	2	3	4	5	
6678.	5.87	3.59	1.19	1.18	1.18	1.18	1.18	END OF DISCHARGE
6810.	5.85	3.58	1.18	1.17	1.16	1.16	1.17	
6846.	5.86	3.57	1.19	1.18	1.15	1.17	1.18	
6909.	5.84	3.60	1.20	1.18	1.18	1.18	1.18	
6951.	5.89	3.58	1.20	1.18	1.18	1.17	1.18	
6984.	5.84	3.58	1.18	1.17	1.17	1.17	1.17	
7002.	5.88	3.57	1.19	1.18	1.17	1.17	1.18	
		2.88						
6678.	7.19	2.41	1.44	1.44	1.47	1.45	1.44	END OF CHARGE
6810.	7.19	2.50	1.44	1.44	1.46	1.44	1.43	
6846.	7.21	2.48	1.44	1.44	1.46	1.44	1.42	
6909.	7.22	2.53	1.46	1.46	1.48	1.46	1.45	
6951.	7.19	2.54	1.44	1.44	1.47	1.44	1.43	
6984.	7.19	2.58	1.44	1.45	1.47	1.44	1.43	
7002.	7.20	2.58	1.44	1.44	1.47	1.44	1.44	

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	
3411.	6.15	3.64	1.23	1.24	1.23	1.24	1.23	END OF DISCHARGE
3442.	6.15	3.65	1.24	1.25	1.23	1.24	1.24	
3524.	6.17	3.62	1.25	1.26	1.24	1.25	1.25	
		.83						
3411.	7.74	.49	1.62	1.51	1.58	1.50	1.55	END OF CHARGE
3442.	7.75	.51	1.63	1.52	1.58	1.50	1.55	
3524.	7.78	.46	1.64	1.53	1.60	1.51	1.57	

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

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
3385.	6.07	6.02	1.19	1.20	1.20	1.19	1.19	END OF DISCHARGE
3416.	6.00	6.03	1.19	1.20	1.20	1.19	1.19	
3483.	5.89	5.97	1.19	1.20	1.20	1.19	1.19	
3498.	5.89	5.93	1.21	1.21	1.21	1.21	1.20	
		1.38						
3385.	7.86	.60	1.59	1.57	1.59	1.51	1.49	END OF CHARGE
3416.	7.82	.61	1.59	1.57	1.60	1.52	1.50	
3483.	7.69	.57	1.59	1.56	1.59	1.51	1.49	
3498.	7.66	.60	1.61	1.58	1.61	1.53	1.51	

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	CELL VOLTAGES 1	2	3	4	5	
3490.	5.54	6.02	1.12	1.12	1.12	1.12	1.06	END OF DISCHARGE
3533.	5.71	6.07	1.15	1.14	1.14	1.14	1.13	
3548.	5.72	6.05	1.16	1.16	1.16	1.15	1.15	
3588.	5.74	6.09	1.15	1.15	1.15	1.15	1.13	
3617.	5.79	6.08	1.16	1.16	1.16	1.16	1.15	
		1.50						
3490.	7.17	1.52	1.44	1.43	1.43	1.43	1.42	END OF CHARGE
3533.	7.17	1.51	1.43	1.43	1.43	1.43	1.42	
3548.	7.19	1.51	1.45	1.44	1.45	1.44	1.44	
3588.	7.17	1.50	1.44	1.43	1.43	1.43	1.42	
3617.	7.19	1.50	1.44	1.44	1.44	1.44	1.43	

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

CYCLE NO.	PACK VOLTAGE	CURRENT 9.60	CELL VOLTAGES 1	2	3	4	5	
3449.	5.65	9.61	1.11	1.12	1.12	1.10	1.11	END OF DISCHARGE
3480.	5.69	9.60	1.13	1.14	1.14	1.13	1.13	
3538.	5.60	9.33	1.17	1.14	1.16	1.14	1.15	
3578.	5.60	9.42	1.12	1.11	1.13	1.11	1.12	
		2.40						
3449.	7.73	1.79	1.49	1.56	1.51	1.56	1.50	END OF CHARGE
3480.	7.56	1.44	1.47	1.53	1.49	1.52	1.48	
3538.	7.41	2.42	1.47	1.57	1.49	1.53	1.48	
3578.	7.51	2.40	1.48	1.54	1.51	1.52	1.49	

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 3.60	CELL VOLTAGES 1	2	3	4	5	
3445.	5.63	3.61	1.15	1.11	1.12	1.14	1.12	END OF DISCHARGE
3457.	5.61	3.64	1.15	1.11	1.12	1.14	1.12	
3472.	5.56	3.60	1.17	1.12	1.13	1.15	1.14	
3514.	5.67	3.59	1.16	1.12	1.13	1.15	1.13	
		1.15						
3445.	6.97	1.15	1.40	1.40	1.40	1.39	1.39	END OF CHARGE
3457.	6.98	1.14	1.41	1.41	1.40	1.40	1.40	
3472.	6.95	1.15	1.42	1.42	1.42	1.41	1.42	
3514.	6.98	1.14	1.40	1.40	1.40	1.40	1.40	

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	
3303.	5.55	5.96	1.13	1.13	1.12	1.09	1.09	END OF DISCHARGE
3315.	5.52	5.97	1.13	1.13	1.12	1.08	1.09	
3330.	5.54	5.94	1.14	1.14	1.14	1.10	1.10	
3372.	5.58	5.96	1.13	1.13	1.13	1.11	1.11	
3404.	5.40	5.96	1.10	1.11	1.10	1.05	1.06	
		1.92						
3303.	7.16	1.92	1.44	1.45	1.44	1.42	1.43	END OF CHARGE
3315.	7.21	1.92	1.45	1.46	1.46	1.43	1.43	
3330.	7.23	1.95	1.47	1.48	1.47	1.44	1.45	
3372.	7.17	1.84	1.44	1.45	1.45	1.43	1.43	
3404.	7.18	1.81	1.44	1.46	1.45	1.42	1.43	

PACK NO. 84
GOULD 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
6723.	6.19	6.02	1.23	1.23	1.22	1.21	1.22	END OF DISCHARGE
6899.	6.21	6.02	1.26	1.26	1.25	1.24	1.24	
6955.	6.17	6.04	1.27	1.27	1.26	1.25	1.26	
6998.	6.17	6.05	1.28	1.27	1.26	1.25	1.26	
7075.	6.00	5.95	1.22	1.22	1.20	1.20	1.20	
7126.	6.04	5.92	1.23	1.22	1.15	1.21	1.22	
		3.45						
6723.	7.58	2.57	1.48	1.50	1.50	1.48	1.49	END OF CHARGE
6899.	7.80	2.57	1.55	1.56	1.58	1.55	1.56	
6955.	7.76	2.76	1.56	1.58	1.60	1.57	1.58	
6998.	7.71	2.52	1.56	1.57	1.58	1.56	1.57	
7075.	7.34	2.56	1.47	1.47	1.48	1.46	1.46	
7126.	7.37	2.62	1.46	1.48	1.48	1.46	1.47	

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 10.00	CELL VOLTAGES 1	2	3	4	5	
6496.	4.62	9.97	1.07	1.23	1.16	1.20	.00	END OF DISCHARGE
6672.	4.62	9.92	1.10	1.21	1.15	1.19	.00	
6728.	4.64	9.92	1.12	1.22	1.16	1.20	.00	
6771.	4.64	9.88	1.12	1.23	1.16	1.20	.00	
6848.	4.57	9.89	1.08	1.21	1.14	1.18	.00	
		5.75						
6496.	6.28	3.83	1.57	1.55	1.59	1.61	.00	END OF CHARGE
6672.	6.26	3.58	1.58	1.54	1.57	1.58	.00	
6728.	6.27	3.60	1.60	1.56	1.59	1.60	.00	
6771.	6.27	3.44	1.60	1.56	1.59	1.58	.00	
6848.	6.18	3.55	1.56	1.53	1.56	1.56	.00	

PACK NO. 80 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
GOULD 20 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
3392.	6.20	6.06	1.25	1.24	1.21	1.25	1.25	END OF DISCHARGE
3392.	7.76	1.38 1.05	1.52	1.56	1.56	1.53	1.55	END OF CHARGE

87.

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	
3263.	5.98	10.24	1.23	1.20	1.19	1.21	1.20	END OF DISCHARGE
3306.	5.98	10.11	1.22	1.20	1.19	1.20	1.19	
3348.	6.15	10.06	1.26	1.24	1.24	1.25	1.25	
3388.	6.04	10.07	1.23	1.21	1.20	1.21	1.22	
3451.	6.03	10.28	1.23	1.21	1.20	1.22	1.21	
		2.30						
3263.	7.63	1.92	1.49	1.49	1.58	1.56	1.56	END OF CHARGE
3306.	7.90	2.13	1.51	1.51	1.65	1.64	1.62	
3348.	7.99	1.96	1.55	1.55	1.65	1.70	1.62	
3388.	7.98	1.96	1.52	1.51	1.66	1.64	1.66	
3451.	7.96	1.58	1.53	1.52	1.65	1.65	1.63	

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

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	CELL VOLTAGES 1	2	3	4	5	
3215.	5.99	10.02	1.12	1.17	1.18	1.19	1.18	END OF DISCHARGE
3246.	5.94	10.01	1.13	1.18	1.19	1.19	1.18	
3313.	5.88	10.00	1.12	1.18	1.18	1.19	1.18	
3328.	5.81	10.02	1.13	1.19	1.20	1.20	1.19	
3368.	5.87	9.93	1.11	1.18	1.18	1.19	1.18	
3397.	5.86	10.03	1.11	1.18	1.18	1.19	1.18	
		2.50						
3215.	7.48	2.58	1.45	1.46	1.46	1.46	1.47	END OF CHARGE
3246.	7.40	2.56	1.43	1.46	1.47	1.46	1.47	
3313.	7.31	2.55	1.42	1.46	1.46	1.46	1.47	
3328.	7.30	2.54	1.45	1.48	1.49	1.48	1.49	
3368.	7.30	2.55	1.42	1.46	1.46	1.46	1.47	
3397.	7.33	2.58	1.42	1.46	1.47	1.46	1.47	

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PACK NO. 108 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 C
GOULD 20 A.H. PERCENT OF RECHARGE 160 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
3222.	5.95	5.97	1.20	1.18	1.20	1.16	1.21	END OF DISCHARGE
3265.	6.08	5.97	1.18	1.16	1.19	1.15	1.21	
3307.	5.51	6.00	1.13	1.13	1.10	1.13	1.17	
3410.	5.86	6.01	1.18	1.15	1.20	1.15	1.20	
		1.92						
3222.	7.24	1.72	1.45	1.45	1.42	1.45	1.44	END OF CHARGE
3265.	7.27	.78	1.41	1.42	1.40	1.41	1.41	
3307.	6.86	.87	1.40	1.41	1.40	1.41	1.39	
3410.	7.24	1.71	1.44	1.46	1.41	1.45	1.42	

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	
6369.	3.40	9.67	.00	1.14	.00	1.11	1.13	END OF
6407.	3.44	9.71	.00	1.15	.00	1.13	1.14	DISCHARGE
6433.	3.39	9.62	.00	1.13	.00	1.11	1.12	
6605.	3.32	9.95	.00	1.17	.00	1.10	1.12	
6727.	3.44	9.93	.00	1.01	.00	1.11	1.09	
6763.	3.32	9.93	.00	1.13	.00	1.08	1.09	
		6.25						
6369.	4.52	6.32	.00	1.52	.00	1.47	1.49	CHARGE
6407.	4.50	5.39	.00	1.51	.00	1.47	1.49	END OF
6433.	4.50	5.46	.00	1.51	.00	1.46	1.49	
6605.	4.35	3.45	.00	1.51	.00	1.47	1.49	
6727.	4.36	4.87	.00	1.48	.00	1.44	1.46	
6763.	4.38	3.69	.00	1.48	.00	1.44	1.45	

PAGK NO. 76 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 C
GULTON 20 A.H. PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
6468.	5.27	6.05	1.14	.97	.99	1.08	1.07	END OF DISCHARGE
6750.	5.16	6.02	1.14	.91	.98	1.06	1.07	
6786.	5.14	6.02	1.13	.90	.98	1.06	1.07	
6837.	5.21	5.99	1.13	.77	1.02	1.06	1.05	
		4.80						
6468.	7.33	3.32	1.45	1.48	1.42	1.46	1.43	END OF CHARGE
6750.	7.29	3.90	1.47	1.49	1.43	1.46	1.43	
6786.	7.22	3.46	1.44	1.47	1.42	1.45	1.42	
6837.	7.22	3.92	1.45	1.47	1.42	1.45	1.42	

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 6.00	CELL VOLTAGES 1	2	3	4	5	
3194.	4.96	5.97	1.23	.00	1.23	1.24	1.24	END OF DISCHARGE
3237.	5.08	5.97	1.23	.00	1.23	1.23	1.23	
3319.	4.83	6.02	1.22	.00	1.22	1.21	1.20	
3382.	4.82	6.04	1.22	.00	1.23	1.20	1.18	
3779.	4.83	5.92	1.24	.00	1.25	1.23	1.22	
		1.38						
3194.	6.27	1.39	1.58	.00	1.59	1.51	1.55	END OF CHARGE
3237.	6.29	1.11	1.53	.00	1.54	1.49	1.51	
3319.	5.70	1.31	1.46	.00	1.47	1.40	1.39	
3382.	5.91	1.11	1.55	.00	1.57	1.40	1.39	
3779.	5.90	1.07	1.55	.00	1.55	1.44	1.45	

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PACK NO. 116 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GULTON 20 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	CELL VOLTAGES 1	2	3	4	5	
3050.	5.84	10.06	1.18	1.19	1.14	1.20	1.17	END OF DISCHARGE
3093.	5.83	10.07	1.17	1.18	1.13	1.19	1.16	
3135.	5.92	10.07	1.20	1.21	1.17	1.22	1.20	
3175.	5.83	10.05	1.18	1.19	1.13	1.19	1.16	
3238.	5.85	10.05	1.18	1.19	1.14	1.20	1.17	
		2.30						
3050.	7.81	2.00	1.46	1.63	1.61	1.59	1.56	END OF CHARGE
3093.	7.98	2.08	1.46	1.71	1.64	1.63	1.57	
3135.	7.89	2.17	1.48	1.64	1.64	1.62	1.58	
3175.	8.03	1.67	1.52	1.52	1.67	1.67	1.67	
3238.	7.86	1.80	1.47	1.64	1.62	1.60	1.57	

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	CELL VOLTAGES 1	2	3	4	5	
3207.	5.42	5.99	1.08	1.08	1.05	1.07	1.12	END OF DISCHARGE
3274.	5.46	6.02	1.10	1.09	1.08	1.09	1.13	
3289.	5.35	5.98	1.11	1.10	1.08	1.10	1.13	
3358.	5.52	5.99	1.11	1.11	1.09	1.11	1.14	
		1.92						
3207.	7.09	1.90	1.42	1.41	1.41	1.41	1.42	END OF CHARGE
3274.	6.99	1.93	1.41	1.41	1.41	1.41	1.41	
3289.	6.95	1.95	1.43	1.42	1.42	1.43	1.43	
3358.	6.99	1.92	1.42	1.40	1.41	1.41	1.41	

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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	
3048.	4.35	10.00	1.11	1.12	1.07	.00	1.09	END OF DISCHARGE
3079.	4.33	9.97	1.11	1.12	1.04	.00	1.09	
3146.	4.39	10.01	1.12	1.13	1.06	.00	1.10	
3161.	4.36	9.96	1.13	1.14	1.06	.00	1.11	
3230.	4.40	10.05	1.12	1.13	1.06	.00	1.11	
		3.20						
3048.	5.77	2.72	1.46	1.46	1.44	.00	1.45	END OF CHARGE
3079.	5.79	2.78	1.47	1.47	1.44	.00	1.46	
3146.	5.78	2.78	1.47	1.47	1.43	.00	1.45	
3161.	5.83	2.91	1.49	1.49	1.45	.00	1.48	
3230.	5.78	2.82	1.47	1.47	1.43	.00	1.46	

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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	
360.	2.74	2.94	.00	.92	.00	.93	.92	END OF DISCHARGE
371.	3.46	3.01	.00	1.17	.00	1.18	1.17	
381.	3.70	2.99	.00	1.07	.00	1.21	1.18	
		.26						
360.	4.22	.26	.00	1.40	.00	1.40	1.41	END OF CHARGE
371.	4.09	.27	.00	1.41	.00	1.40	1.41	
381.	4.13	.26	.00	1.40	.00	1.39	1.39	

XERO COPY

PACK NO. 93
G.E. 12 A.H.

DEPTH OF DISCHARGE 50
PERCENT OF RECHARGE 200

TEST TEMPERATURE 40 C
ORBIT PERIOD 24 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.0	CELL VOLTAGES 1	2	3	4	5	
331.	2.37	5.67	.00	.00	.57	.88	.08	END OF
349.	.54	5.13	.00	.00	.08	.15	.11	DISCHARGE
		.52						
331.	5.60	.65	.00	.00	1.38	1.39	1.39	END OF
349.	5.51	.65	.00	.00	1.38	1.38	1.37	CHARGE

98.

PACK NO. 315 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
GULTON 4 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.2	CELL VOLTAGES 1	2	3	4	5	
3904.	6.19	1.20	1.24	1.24	1.24	1.24	1.23	END OF DISCHARGE
3942.	6.20	1.20	1.24	1.24	1.24	1.24	1.24	
3968.	6.19	1.20	1.24	1.24	1.24	1.24	1.24	
4113.	6.09	1.19	1.23	1.23	1.23	1.22	1.22	
4140.	6.08	1.20	1.25	1.25	1.24	1.24	1.24	
4221.	6.13	1.20	1.23	1.23	1.23	1.23	1.23	
		.69						
3904.	7.80	.63	1.55	1.57	1.54	1.57	1.56	END OF CHARGE
3942.	7.80	.64	1.56	1.57	1.54	1.57	1.56	
3968.	7.79	.64	1.55	1.56	1.54	1.56	1.55	
4113.	7.59	.46	1.52	1.54	1.51	1.54	1.52	
4140.	7.54	.49	1.53	1.55	1.53	1.56	1.54	
4221.	7.63	.49	1.52	1.54	1.51	1.55	1.54	

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	
3946.	5.99	2.00	1.20	1.21	1.20	1.20	1.20	END OF DISCHARGE
4088.	5.91	1.99	1.19	1.20	1.19	1.18	1.19	
4144.	5.86	2.00	1.20	1.21	1.20	1.20	1.20	
4187.	5.86	2.00	1.21	1.21	1.20	1.20	1.20	
4228.	5.89	1.98	1.19	1.19	1.18	1.18	1.18	
		1.15						
3946.	7.77	.71	1.56	1.53	1.55	1.56	1.54	END OF CHARGE
4088.	7.73	.84	1.56	1.53	1.56	1.56	1.55	
4144.	7.68	.85	1.57	1.55	1.57	1.57	1.56	
4187.	7.68	.81	1.58	1.55	1.57	1.58	1.56	
4228.	7.70	.89	1.56	1.53	1.55	1.56	1.54	

100.

PACK NO. 204 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
GULTON 4 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.0	CELL VOLTAGES 1	2	3	4	5	
3765.	5.84	2.01	1.14	1.11	1.13	1.15	1.16	END OF DISCHARGE
3803.	5.93	1.99	1.17	1.16	1.17	1.17	1.18	
3937.	5.73	2.00	1.14	1.12	1.13	1.14	1.16	
3993.	5.89	1.99	1.20	1.19	1.20	1.19	1.20	
4036.	5.67	2.00	1.16	1.12	1.15	1.16	1.17	
4086.	5.74	1.99	1.15	1.13	1.14	1.15	1.16	
4109.	5.82	1.99	1.16	1.15	1.16	1.16	1.17	
4142.	5.76	2.00	1.15	1.12	1.14	1.15	1.16	
4184.	5.82	2.00	1.16	1.15	1.15	1.15	1.16	
		1.25						
3765.	7.42	1.25	1.45	1.45	1.43	1.46	1.46	END OF CHARGE
3803.	7.39	1.25	1.45	1.45	1.44	1.47	1.47	
3937.	7.29	1.25	1.45	1.45	1.44	1.46	1.47	
3993.	7.31	1.24	1.48	1.48	1.47	1.50	1.49	
4036.	7.26	1.25	1.47	1.47	1.46	1.48	1.49	
4086.	7.33	1.23	1.46	1.46	1.45	1.47	1.48	
4109.	7.32	1.24	1.46	1.45	1.44	1.47	1.47	
4142.	7.31	1.24	1.45	1.44	1.43	1.46	1.46	
4184.	7.30	1.24	1.45	1.45	1.44	1.46	1.46	

PACK NO. 214 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 25 C
GULTON 4 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.2	CELL VOLTAGES 1	2	3	4	5	
3451.	5.69	3.21	1.11	1.12	1.11	1.10	1.10	END OF DISCHARGE
3485.	5.60	3.19	1.10	1.12	1.11	1.11	1.10	
3683.	5.36	3.20	1.09	1.10	1.10	1.09	1.06	
3726.	5.44	3.20	1.10	1.12	1.12	1.10	1.10	
3767.	5.47	3.16	1.08	1.10	1.09	1.09	1.07	
3803.	5.54	3.17	1.09	1.11	1.11	1.10	1.09	
3822.	5.30	3.13	1.04	1.07	1.08	1.07	1.02	
3854.	5.54	3.16	1.08	.96	1.12	1.10	1.07	
		2.00						
3451.	7.53	1.55	1.46	1.45	1.51	1.47	1.46	END OF CHARGE
3485.	7.48	1.54	1.47	1.46	1.51	1.48	1.47	
3683.	7.35	1.62	1.47	1.47	1.52	1.49	1.47	
3726.	7.33	1.64	1.47	1.47	1.52	1.48	1.47	
3767.	7.36	1.54	1.46	1.45	1.51	1.47	1.45	
3803.	7.30	1.79	1.44	1.44	1.48	1.46	1.44	
3822.	7.39	1.40	1.46	1.46	1.52	1.47	1.45	
3854.	7.33	1.57	1.45	1.45	1.50	1.46	1.45	

102.

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 1.2	CELL VOLTAGES 1	2	3	4	5	
3754.	6.02	1.20	1.19	1.18	1.18	1.14	1.18	END OF DISCHARGE
3792.	6.07	1.20	1.21	1.20	1.20	1.17	1.20	
3926.	5.87	1.18	1.19	1.17	1.17	1.13	1.17	
3982.	6.00	1.17	1.23	1.23	1.22	1.19	1.22	
4025.	5.89	1.20	1.21	1.20	1.20	1.16	1.20	
4075.	5.94	1.19	1.20	1.19	1.19	1.15	1.19	
4098.	5.96	1.19	1.21	1.20	1.19	1.16	1.19	
4131.	5.98	1.20	1.20	1.20	1.19	1.15	1.19	
		.96						
3754.	7.17	.70	1.41	1.40	1.40	1.40	1.40	END OF CHARGE
3792.	7.15	.77	1.42	1.41	1.41	1.41	1.41	
3926.	7.03	.67	1.41	1.40	1.40	1.40	1.40	
3982.	7.05	.94	1.44	1.43	1.43	1.43	1.43	
4025.	7.06	.95	1.44	1.43	1.43	1.43	1.44	
4075.	7.09	.95	1.42	1.41	1.41	1.41	1.41	
4098.	7.09	.97	1.42	1.41	1.41	1.41	1.41	
4131.	7.10	.98	1.42	1.41	1.41	1.41	1.41	

PACK NO. 240 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 40 C
GULTON 4 A. H. PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.0	CELL VOLTAGES 1	2	3	4	5	
3768.	5.43	2.00	1.06	1.09	1.01	1.08	1.05	END OF DISCHARGE
3806.	5.52	1.99	1.09	1.11	1.07	1.09	1.09	
3940.	5.27	1.98	1.04	1.07	1.03	1.05	1.04	
3996.	5.09	1.95	1.03	1.02	1.08	1.01	1.04	
4039.	4.87	1.98	1.00	.97	1.03	.95	1.01	
4089.	5.16	1.96	1.04	1.02	1.04	1.01	1.04	
4112.	5.24	2.00	1.04	1.04	1.07	1.03	1.04	
4145.	5.80	2.01	1.15	1.16	1.16	1.16	1.12	
4187.	5.58	2.01	1.12	1.12	1.12	1.13	1.10	
		1.60						
3768.	7.30	1.16	1.43	1.44	1.42	1.43	1.42	END OF CHARGE
3806.	7.24	1.01	1.43	1.44	1.42	1.43	1.43	
3940.	7.14	.98	1.43	1.43	1.42	1.42	1.42	
3996.	6.96	.58	1.42	1.42	1.42	1.41	1.41	
4039.	7.07	1.22	1.43	1.44	1.44	1.43	1.44	
4089.	7.04	.69	1.40	1.41	1.41	1.40	1.41	
4112.	7.10	.92	1.42	1.42	1.42	1.41	1.42	
4145.	7.12	1.08	1.41	1.42	1.42	1.41	1.42	
4187.	7.10	1.01	1.41	1.42	1.42	1.41	1.41	

XERO COPY

PACK NO. 216 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
GULTON 12 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.6	CELL VOLTAGES 1	2	3	4	5	
646.	6.33	3.58	1.24	1.24	1.23	1.24	1.24	END OF DISCHARGE
684.	6.30	3.67	1.24	1.25	1.24	1.24	1.24	
818.	6.20	3.61	1.24	1.24	1.23	1.23	1.23	
874.	6.19	3.59	1.26	1.26	1.26	1.26	1.25	
917.	6.16	3.58	1.25	1.25	1.25	1.25	1.25	
967.	6.20	3.60	1.23	1.24	1.23	1.23	1.23	
990.	6.17	3.63	1.23	1.23	1.23	1.23	1.23	
1023.	6.17	3.63	1.22	1.23	1.22	1.22	1.22	
1065.	6.18	3.62	1.23	1.23	1.23	1.23	1.22	
		2.07						
646.	7.89	1.49	1.63	1.52	1.51	1.52	1.54	END OF CHARGE
684.	7.84	1.46	1.64	1.53	1.51	1.52	1.55	
818.	7.73	1.32	1.63	1.52	1.51	1.52	1.54	
874.	7.70	1.36	1.64	1.54	1.53	1.54	1.55	
917.	7.69	1.33	1.64	1.54	1.53	1.53	1.56	
967.	7.64	1.14	1.59	1.51	1.50	1.50	1.52	
990.	7.59	1.06	1.59	1.49	1.49	1.49	1.51	
1023.	7.60	1.04	1.59	1.49	1.48	1.48	1.51	
1065.	7.58	1.06	1.59	1.49	1.48	1.49	1.51	

105.

PACK NO. 301 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GULTON 12 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
1583.	6.10	6.00	1.23	1.23	1.23	1.22	1.22	END OF DISCHARGE
1621.	6.10	5.99	1.23	1.23	1.23	1.22	1.22	
1647.	6.09	5.99	1.22	1.23	1.22	1.22	1.22	
1819.	6.12	5.95	1.23	1.24	1.24	1.23	1.23	
1900.	6.06	6.00	1.21	1.22	1.21	1.21	1.21	
1937.	6.01	6.00	1.21	1.21	1.21	1.20	1.21	
1990.	6.09	5.98	1.23	1.23	1.18	1.23	1.24	
2026.	6.04	6.01	1.21	1.22	1.21	1.20	1.21	
		3.45						
1583.	7.81	2.03	1.56	1.56	1.54	1.63	1.56	END OF CHARGE
1621.	7.80	2.07	1.56	1.56	1.54	1.63	1.55	
1647.	7.79	2.11	1.55	1.55	1.54	1.63	1.55	
1819.	7.81	2.34	1.57	1.57	1.55	1.65	1.57	
1900.	7.78	2.21	1.54	1.54	1.53	1.63	1.54	
1937.	7.77	2.28	1.54	1.54	1.53	1.63	1.54	
1990.	7.81	2.24	1.55	1.55	1.53	1.62	1.54	
2026.	7.80	2.24	1.55	1.55	1.53	1.63	1.53	

PACK NO. 227 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
GULTON 12 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.0	CELL VOLTAGE 1	2	3	4	5	
1049.	5.91	5.83	1.17	1.16	1.15	1.17	1.20	END OF DISCHARGE
1181.	5.72	6.02	1.14	1.13	1.12	1.13	1.17	
1217.	5.68	5.94	1.13	1.05	1.11	1.13	1.18	
1237.	5.61	5.95	1.14	1.13	1.12	1.14	1.19	
1280.	5.53	5.94	1.12	1.11	1.10	1.12	1.18	
1322.	5.80	5.73	1.15	1.15	1.14	1.15	1.26	
1355.	5.69	5.93	1.13	1.12	1.12	1.13	1.17	
1372.	5.84	5.93	1.16	1.16	1.16	1.17	1.18	
1430.	5.72	5.89	1.13	1.13	1.13	1.13	1.16	
		3.75						
1049.	7.30	3.83	1.44	1.44	1.43	1.44	1.45	END OF CHARGE
1181.	7.19	3.83	1.43	1.43	1.43	1.43	1.44	
1217.	7.17	3.83	1.44	1.43	1.43	1.43	1.44	
1237.	7.19	3.81	1.46	1.46	1.45	1.45	1.47	
1280.	7.13	3.82	1.44	1.44	1.44	1.44	1.45	
1322.	7.20	3.79	1.43	1.43	1.43	1.43	1.44	
1355.	7.20	3.79	1.43	1.43	1.43	1.43	1.44	
1372.	7.23	3.79	1.44	1.44	1.43	1.44	1.45	
1430.	7.20	3.76	1.43	1.43	1.43	1.43	1.44	

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	
1805.	4.85	9.59	1.01	.98	.94	.93	.99	
1843.	5.14	9.62	1.05	1.05	1.01	1.00	1.04	END OF DISCHARGE
1869.	4.88	9.58	.99	.99	.96	.94	.97	
2014.	4.50	9.50	.91	.94	.92	.87	.88	
2041.	5.40	9.62	1.12	1.11	1.10	1.07	1.11	
2083.	5.06	9.52	1.06	1.06	1.04	1.01	1.05	
2122.	5.20	9.61	1.06	1.05	1.05	1.02	1.05	
2159.	6.43	6.50	1.28	1.29	1.30	1.31	1.29	
2179.	5.41	9.56	1.13	1.13	.97	1.12	1.14	
2212.	5.26	9.61	1.08	1.07	1.00	1.04	1.07	
2248.	5.05	9.60	1.02	1.04	1.01	.99	1.01	
		6.00						
1805.	7.45	6.14	1.48	1.48	1.47	1.47	1.49	
1843.	7.42	5.83	1.48	1.48	1.46	1.46	1.49	END OF CHARGE
1869.	7.44	5.78	1.48	1.48	1.46	1.46	1.48	
2014.	7.32	4.71	1.46	1.47	1.47	1.46	1.46	
2041.	7.28	4.85	1.48	1.49	1.48	1.48	1.48	
2083.	7.31	4.66	1.49	1.50	1.48	1.49	1.49	
2122.	7.35	4.84	1.47	1.48	1.47	1.47	1.48	
2159.	7.39	5.34	1.48	1.49	1.48	1.48	1.48	
2179.	7.37	5.23	1.49	1.49	1.47	1.46	1.49	
2212.	7.34	5.18	1.46	1.47	1.46	1.45	1.47	
2248.	7.35	5.18	1.47	1.48	1.46	1.46	1.48	

PACK NO. 78 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 C
GULTON 12 A.H. PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	CELL VOLTAGES 1	2	3	4	5	
1563.	4.82	3.60	1.19	1.19	1.19	.00	1.20	END OF DISCHARGE
1695.	4.70	3.57	1.18	1.17	1.18	.00	1.18	
1731.	4.67	3.66	1.17	1.10	1.17	.00	1.18	
1794.	4.61	3.53	1.18	1.17	1.18	.00	1.18	
1836.	4.72	3.28	1.17	1.17	1.18	.00	1.23	
1869.	4.64	3.59	1.16	1.15	1.17	.00	1.17	
1886.	4.65	3.72	1.16	1.15	1.17	.00	1.16	
1944.	4.65	3.63	1.15	1.15	1.17	.00	1.16	
		2.88						
1563.	5.64	2.91	1.41	1.41	1.40	.00	1.41	END OF CHARGE
1695.	5.59	2.87	1.41	1.40	1.40	.00	1.41	
1731.	5.56	2.90	1.40	1.40	1.40	.00	1.41	
1794.	5.55	2.94	1.42	1.42	1.42	.00	1.43	
1836.	5.57	2.82	1.40	1.40	1.40	.00	1.40	
1869.	5.59	2.83	1.41	1.40	1.40	.00	1.41	
1886.	5.59	2.85	1.41	1.41	1.41	.00	1.41	
1944.	5.61	2.91	1.41	1.40	1.40	.00	1.41	

PACK NO. 290 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 40 C
GULTON 12 A.H. PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
1846.	5.44	6.00	1.12	1.08	1.10	1.12	1.08	END OF DISCHARGE
2128.	5.49	5.96	1.10	1.10	1.11	1.11	1.08	
2164.	5.43	5.97	1.08	1.10	1.11	1.11	1.06	
2215.	5.43	5.89	1.07	1.09	1.05	1.12	1.09	
		4.80						
1846.	7.25	4.34	1.46	1.46	1.46	1.45	1.45	END OF CHARGE
2128.	7.30	4.13	1.45	1.45	1.45	1.45	1.45	
2164.	7.22	4.10	1.45	1.45	1.44	1.45	1.45	
2215.	7.25	4.01	1.44	1.44	1.44	1.44	1.44	

110.

PACK NO. 213 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GULTON HSI 6 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.0	CELL VOLTAGES 1	2	3	4	5	
600.	6.23	3.02	1.22	1.23	1.22	1.23	1.23	END OF DISCHARGE
638.	6.21	3.01	1.23	1.23	1.22	1.23	1.23	
664.	6.21	3.01	1.22	1.22	1.22	1.22	1.22	
836.	6.10	3.00	1.23	1.23	1.23	1.23	1.23	
917.	6.13	3.02	1.22	1.22	1.21	1.21	1.22	
954.	6.11	3.02	1.21	1.21	1.21	1.21	1.21	
974.	5.78	2.99	1.16	1.15	1.15	1.14	1.15	
1007.	6.33	3.01	1.25	1.11	1.25	1.25	1.24	
1043.	6.22	3.02	1.23	1.23	1.23	1.23	1.23	
		1.73						
600.	7.83	1.24	1.53	1.54	1.53	1.56	1.56	END OF CHARGE
638.	7.82	1.25	1.54	1.54	1.53	1.56	1.56	
664.	7.82	1.25	1.53	1.53	1.52	1.56	1.56	
836.	7.60	1.07	1.53	1.53	1.53	1.56	1.55	
917.	7.75	1.29	1.54	1.53	1.52	1.56	1.57	
954.	7.75	1.31	1.54	1.53	1.53	1.56	1.57	
974.	6.91	1.72	1.38	1.38	1.38	1.38	1.37	
1007.	7.72	1.34	1.53	1.53	1.52	1.56	1.56	
1043.	7.76	1.28	1.54	1.53	1.53	1.56	1.56	

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PACK NO. 218 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 25 C
GULTON HSI 6 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 4.8	CELL VOLTAGES 1	2	3	4	5	
608.	5.74	4.76	1.13	1.12	1.12	1.12	1.12	END OF DISCHARGE
642.	5.41	4.76	1.08	1.07	1.06	1.09	1.08	
784.	5.47	4.79	1.10	1.08	1.08	1.10	1.08	
840.	4.76	4.63	.97	.92	.96	1.01	.97	
883.	4.80	4.64	.99	.94	.96	1.02	.98	
924.	5.02	4.71	1.02	.96	.99	1.04	.99	
960.	5.31	4.71	1.08	1.04	1.05	1.08	1.05	
		3.00						
608.	7.39	3.00	1.44	1.45	1.44	1.45	1.44	END OF CHARGE
642.	7.33	3.00	1.45	1.46	1.44	1.45	1.45	
784.	7.25	3.00	1.44	1.45	1.44	1.45	1.44	
840.	7.19	3.02	1.45	1.47	1.45	1.46	1.46	
883.	7.16	3.03	1.45	1.46	1.44	1.45	1.45	
924.	7.24	3.00	1.44	1.46	1.43	1.45	1.44	
960.	7.26	3.00	1.44	1.45	1.44	1.45	1.45	

PACK NO. 238 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 40 C
GULTON HSI 6 A.H. PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.0	CELL VOLTAGES 1	2	3	4	5	
608.	5.73	2.98	1.13	1.11	1.11	1.11	1.12	END OF DISCHARGE
642.	5.62	2.96	1.12	1.11	1.10	1.11	1.11	
784.	5.55	2.98	1.11	1.10	1.10	1.10	1.10	
840.	5.41	2.94	1.10	1.09	1.08	1.09	1.10	
883.	5.46	2.95	1.11	1.11	1.10	1.11	1.12	
924.	5.49	2.98	1.09	1.09	1.08	1.08	1.09	
960.	5.51	2.98	1.09	1.09	1.08	1.09	1.10	
979.	5.93	2.97	1.18	1.19	1.18	1.18	1.18	
1011.	5.59	2.98	1.09	.95	1.10	1.10	1.08	
		2.40						
608.	7.21	2.44	1.42	1.41	1.41	1.41	1.41	END OF CHARGE
642.	7.18	2.44	1.42	1.42	1.42	1.42	1.42	
784.	7.10	2.45	1.42	1.41	1.41	1.41	1.41	
840.	7.05	2.42	1.43	1.43	1.42	1.42	1.43	
883.	7.04	2.45	1.44	1.43	1.42	1.43	1.43	
924.	7.11	2.39	1.43	1.42	1.42	1.42	1.42	
960.	7.08	2.43	1.42	1.41	1.41	1.41	1.41	
979.	7.08	2.39	1.42	1.42	1.41	1.41	1.41	
1011.	7.03	2.41	1.41	1.41	1.40	1.40	1.41	

PACK NO. 188 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 25 C
DELCO 25 A.H. NAOH PERCENT OF RECHARGE ORBIT PERIOD 3 HRS.

CYCLE NO.	PACK VOLTAGE	CURRENT 20.00	CELL VOLTAGES 1	2	3	4	5	
53.	6.52	20.23	1.27	1.29	1.26	1.29	1.26	END OF DISCHARGE
139.	6.67	19.85	1.31	1.35	1.32	1.33	1.33	
166.	6.52	20.10	1.30	1.34	1.32	1.33	1.32	
218.	6.34	20.25	1.24	1.29	1.27	1.26	1.26	
240.	6.45	20.36	1.25	1.29	1.28	1.28	1.28	
		15.00						
53.	9.92	1.17	1.94	1.93	1.93	1.94	1.93	END OF CHARGE
139.	9.87	.82	2.00	1.94	1.96	1.96	1.95	
166.	9.83	.94	2.00	1.97	1.97	1.98	1.97	
218.	9.86	.94	1.97	1.94	1.95	1.96	1.96	
240.	9.85	.85	1.96	1.94	1.95	1.96	1.96	

PACK NO. 106
G.E. 5 A.H. NIMBUS

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 120

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	
64.	6.19	1.54	1.24	1.24	1.24	1.24	1.24	END OF DISCHARGE
64.	7.14	.90 .89	1.44	1.43	1.43	1.43	1.43	END OF CHARGE

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