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U. S. NAVAL AMMUNITION DEPOT
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From: Commanding Officer, U. S. Naval Ammunition Depot, Crane, Indiana
To: National Aeronautics and Space Administration, Goddard Space Flight Center, Electrochemical Power Sources Section (716.2), 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 September 1966 (3 copies)

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

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By direction

Copy to:
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MONTHLY PROGRESS REPORT THROUGH 30 SEPTEMBER 1966

LIFE CYCLE TESTS

TOTAL NUMBER OF PACKS IN PROGRAM: 175

SECTION I

1. Status of original 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), and Gulton Industries, Inc.(Gulton).

TOTAL NUMBER OF PACKS IN ORIGINAL PROGRAM: 84

	Total Number of Packs Cycled To Date	Cycling	Failed	Cells Failed* Since Last Report	Total To Date
NICKEL-CADMIUM (10-cell packs)					
G.E. 3.0 a.h.	12	5	7	0	46
Gould 3.5 a.h.	12	3	9	0	63
Sonotone 5.0 a.h.	12	5	7	0	48
Gulton 6.0 a.h.	12	2	10	0	69
TOTAL	48	15	33	0	226
NICKEL-CADMIUM (5-cell packs)					
G.E. 12 a.h.	12	6	6	0	18
Gulton 20 a.h.	12	2	10	0	35
Gould 20 a.h.	12	3	9	0	27
TOTAL	36	11	25	0	80

*All failure analysis results are cumulative. Total pack failures are shown on pages 11 through 38; partial pack failures on pages 39 through 47.

2. Test Parameters:

a. General Cycling Program:

(1) Ambient Temperature:

(a) 0° C.

(b) 25° C.

(c) 40° C.

(2) Voltage limits per pack on charge:

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

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

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

(3) Depth of Discharge:

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

1. 15 percent and 25 percent at 0° C.

2. 25 percent and 40 percent at 25° C.

3. 15 percent and 25 percent at 40° C.

(4) Orbit Time:

(a) 90 minutes--30-minute discharge and 60-minute charge.

(b) 3 hours--30-minute discharge and 150-minute charge.

3. Capacity Tests:

a. Before cycling, each pack was given a capacity test at its respective cycling temperature. This check consisted on a c/10 charge for 16 hours followed by a c/2 discharge to 1.0 volt per cell average. After each 88 days of cycling, each pack was discharged immediately after the end of the regular cycle charge period, at the c/2 rate to 1.0 volt per cell average. The pack was then recharged at the c/10 rate for 16 hours and discharged at the c/2 rate to 1.0 volt per 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 61 through 68.

4. Data:

a. Under normal operation, complete data is scheduled to be recorded every 32 cycles on the 90-minute and 3-hour packs.

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

SECTION II

1. Status of additions to Cycling Program: The cycling program has included cells from the following manufacturers; General Electric Company (G.E.), Sonotone Corporation (Sonotone), Yardney Electric Corporation (Yardney), Gulton Industries, Inc. (Gulton), Delco-Remy (Delco) and The Electric Storage Battery Company (E.S.B.).

TOTAL NUMBER OF PACKS ADDED TO THE PROGRAM: 91

	Total Number of Packs			Cells Failed*	
	Cycled To Date	Cycling	Failed	Since Last Report	Total To Date
NICKEL-CADMIUM (10-cell packs)					
Gulton 3.6 a.h. SHERFEY	1	0	1	0	8
Gulton 3.6 a.h. COULOMETER	1	1	0	0	1
TOTAL	2	1	1	0	9
NICKEL-CADMIUM (5-cell packs)					
G.E. 5.0 a.h. NIMBUS	6	5	1	0	8
G.E. 12 a.h.	1	0	1	0	5
G.E. 12 a.h. 3rd Electrode	4	2	2	0	2
G.E. & Gulton 6.0 a.h. COUL	1	1	0	3	8
Sonotone 3.0 a.h.	6	4	2	1	8
Sonotone 5.0 a.h. COULOMETER	1	1	0	0	0
Sonotone 5.0 a.h. STABISTOR	8	1	7	1	25
Gulton 1.25 a.h.	4	4	0	0	1
Gulton 4.0 a.h. COMMERCIAL	6	4	2	0	7
Gulton 5.0 a.h. NIMBUS	6	5	1	0	5
Gulton 5.6 a.h.FOLDED SEAL	4	4	0	1	3
Gulton 5.6 a.h. NONFOLDED SEAL	4	3	1	0	4
Gulton 6.0 a.h.	1	0	1	0	3
Gulton 6.0 a.h. HSI	3	1	2	0	6
Gulton 6.0 a.h. 3rd Electrode	6	3	3	0	11
Gulton 12 a.h.	6	4	2	0	8
Gulton 50 a.h.	2	0	2	0	6
TOTAL	69	42	27	6	110
SILVER-CADMIUM (10-cell packs)					
Yardney 12 a.h.	2	0	2	0	16
Yardney 3.0 a.h.	1	1	0	0	0
TOTAL	3	1	2	0	16
SILVER-CADMIUM (5-cell packs)					
Yardney 5.0 a.h.	6	2	4	0	12
E.S.B. 8.0 a.h.	1	1	0	0	0
Yardney 12 a.h.	3	2	1	0	2
TOTAL	10	5	5	0	14

*All failure analysis results are cumulative. Pack failures are shown on pages 48 through 60.

	Total Number of Packs Cycled To Date	Cycling	Failed	Cells Failed* Since Last Report	Total To Date
SILVER-ZINC (10-cell packs)					
Yardney 12 a.h.	1	0	1	0	6
Delco 25 a.h.	1	0	1	0	5
TOTAL	2	0	2	0	11
SILVER-ZINC (5-cell packs)					
Delco 25 a.h.	4	0	4	1	11
Delco 40 a.h.	1	0	1	0	2
TOTAL	5	0	5	1	13

*All failure analysis results are cumulative. Pack failures are shown on pages 48 through 60.

2. Test Parameters:

a. General Nickel-Cadmium Cycling Program:

(1) Ambient Temperature:

(a) 0° C.

(b) 25° C.

(c) 40° C.

(2) Voltage limits per pack on charge:

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

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

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

(3) Depth of Discharge:

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

1. 15 percent and 25 percent at 0° C.

2. 25 percent and 40 percent at 25° C.

3. 15 percent and 25 percent at 40° C.

(b) 24-hour orbits:

1. 50 percent at 25° C and 40° C.

(4) Orbit Times:

(a) 90 minutes--30-minute discharge and 60-minute charge.

(b) 3 hours--30-minute discharge and 150-minute charge.

(c) 24 hours--1-hour discharge and 23-hour charge.

b. Nimbus Packs:

(1) Ambient Temperature:

(a) 0° C.

(b) 25° C.

(c) 40° C.

(2) Voltage limit per pack on charge: 1.49 ± 0.03 volts per cell at each temperature.

(3) Depth of Discharge:

(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.

(4) Orbit Time: 90-minutes--30-minute discharge and 60-minute charge.

c. Third Electrode Packs (Gulton):

(1) Ambient Temperatures:

(a) 0° C.

(b) 25° C.

(c) 40° C.

(2) Voltage limits per pack on charge: None. Limit is controlled by the third electrode voltage:

(a) 150 millivolts at 0° C.

(b) 300 millivolts at 25° C.

(c) 300 millivolts at 40° C.

(3) Depth of Discharge:

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

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

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

(4) Orbit Time: 90 minutes--30-minute discharge and 60-minute charge.

d. Third Electrode Packs (General Electric):

(1) Ambient Temperatures:

(a) 0° C.

(b) 25° C.

(c) 40° C.

(2) Voltage limit per pack on charge: None. Limit is controlled by the third electrode voltage; 400 millivolts at all temperatures.

(3) Depth of Discharge:

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

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

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

(4) Orbit Time: 90 minutes--30-minute discharge and 60-minute charge.

e. Stabistor Packs:

(1) Ambient Temperatures:

(a) -20° C.

(b) 0° C.

(c) 25° C.

(d) 40° C.

(2) Voltage limits per pack on charge: None. Stabistor controls cell voltage.

(3) Depth of Discharge:

(a) 25 percent and 40 percent at -20° C.

(b) 25 percent and 40 percent at 0° C.

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

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

(4) Orbit Time: 90 minutes--30-minute discharge and 60-minute charge.

f. Coulometer Packs:

(1) Ambient Temperature: 25° C.

(2) Voltage limit per pack on charge: None. Coulometer controls cell voltage.

(3) Depth of Discharge:

(a) 30 percent for 5 cells (Sonotone 5 a.h.)--Coulometer built by Goddard Space Flight Center.

(b) 40 percent--coulometer built by G.E. (replaced by Gulton coul.)

1. 10 cells (Gulton 3.6 a.h.)

2. 11 cells (6 Gulton 6.0 a.h. and 5 G.E. 6.0 a.h.)

(4) Orbit Time: 90 minutes--30-minute discharge and 60-minute charge.

g. Sherfey Cycling Packs:

(1) Ambient Temperature: 25° C.

(2) Voltage limit per pack on charge: None. Pack cycled in the partially discharged state.

(3) Depth of Discharge: 40 percent at 25° C.

(4) Orbit Time: 90 minutes--30-minute discharge and 60-minute charge.

(5) Cell Type: Gulton 3.6 a.h.

(6) This type of cycling starts with the cells in a completely discharged condition. Each cycle consists of a charge of 60 percent of the cell's rated capacity followed by a discharge of 40 percent of the cell's rated capacity. Upon completion of each fifth cycle, the cells are discharged through a resistor for 90 minutes to return the cells to the completely discharged condition for the start of the next sequence of five cycles. In this manner, the cells operate below the 100 percent charged state much of the time thereby preventing overcharging and buildup of excessive gas pressure.

h. Neoprene-Seal Packs: (Folded and Nonfolded)

(1) Ambient Temperatures:

(a) -20° C.

(b) 0° C.

(c) 25° C.

(d) 40° C.

(2) Voltage limits per pack on charge:

(a) 1.55 ± 0.03 volts per cell at -20° C.

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

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

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

(3) Depth of Discharge: 25 percent at all temperature.

(4) Orbit Times: 90 minutes--30-minute discharge and 60-minute charge.

i. Silver-Cadmium Packs:

(1) Ambient Temperatures:

(a) 90-minute orbit:

(1) -20° C.

(2) 0° C.

(3) 25° C.

(b) 24-hour orbit:

(1) 0° C.

(2) 20° C.

(3) 40° C.

(2) Voltage limits per pack on charge:

(a) 90-minute orbit:

(1) 1.60 ± 0.03 volts per cell at -20° C.

(2) 1.58 ± 0.03 volts per cell at 0° C.

(3) 1.55 ± 0.03 volts per cell at 25° C.

(b) 24-hour orbits: 1.50 ± 0.03 volts per cell at 0° C., 25° C., and 40° C.

(3) Depth of Discharge:

(a) 90-minute orbit: 25 percent at all temperatures.

(b) 24-hour orbit:

(1) 20 percent and 50 percent at 0° C.

(2) 20 percent at 25° C.

(3) 20 percent and 50 percent at 40° C.

(4) Orbit Time:

(a) 90-minute--30-minute discharge and 60-minute charge.

(b) 24-hours--1-hour discharge and 23-hour charge.

j. Silver-Zinc Packs:

(1) Ambient Temperature: 25° C.

(2) Voltage limit per pack on charge: 1.97 ± 0.03 volts per cell at 25° C.

(3) Depth of Discharge:

(a) 3-hour orbit: 40 percent at 25° C.

(b) 24-hour orbit: 25 percent and 40 percent at 25° C.

(4) Orbit Times:

(a) 3 hours--30-minute discharge and 150 minute charge.

(b) 24 hours--1-hour discharge and 23-hour charge.

k. Two Step Charge Regulator:

(1) Ambient Temperature: 25° C.

(2) Voltage limit per pack on charge:

(a) Upper Voltage Limit: 1.97 ± 0.03 volts per cell.

(b) Low Current Limit: 0.35 amps.

(c) Overcharge Voltage Limit: 1.87 ± 0.03 volts per cell.

(3) Depth of Discharge: 40 percent at 25° C.

(4) Orbit Time: 24-hour--1-hour discharge and 23-hour charge.

(5) Cell Type: Delco-Remy 25 a.h.

(6) When silver-cadmium and silver-zinc cells are put on a long charge period with only a voltage limit, the cells begin to unbalance when the pack goes into overcharge. A new method of charging cells of these types was developed at Goddard Space Flight Center. The cell pack is charged until it reaches the pack upper voltage limit. At this time, the charge current is reduced to maintain this voltage limit. When the charge current decreases to 350 milliamperes, the on-charge voltage limit is then reduced to the lower pack voltage limit which is equal to the open circuit voltage of the cell pack. In this method, the pack receives no more charge until there is a sufficient drop in the pack voltage to reset the pack voltage limit to the upper value. This method prevents the cells from becoming unbalanced during long charge periods.

1. Silver-Cadmium Packs (Third Electorde):

(1) Ambient Temperature: 25° C.

(2) Voltage limit per pack on charge: 1.51 ± 0.03 volts per cell.

(3) Depth of Discharge: 16.7%

(4) Orbit Times: 8-hour--1-hour discharge and 7-hour charge.

3. Capacity Tests:

a. Before cycling, each pack was given a capacity test at its respective cycling temperature. This check consisted of a c/10 charge for 16 hours followed by a c/2 discharge to 1.0 volt per cell average. After each 88 days of cycling, each pack was discharged immediately after the end of the regular cycle charge period, at the c/2 rate to 1.0 volt per cell average. The pack was then recharged at the c/10 rate for 16 hours and discharged at the c/2 rate to 1.0 volt per 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 68 through 74.

4. Data:

a. Under normal operation, complete data is scheduled to be recorded every 32 cycles on the 90-minute and 3-hour packs. On the 24-hour packs, complete data is taken every eight cycles. Complete data is taken every 24 cycles on the 8-hour packs.

CELL TYPE: General Electric 3.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
15	25%	1.5	25°	432	7	8065	Low Volt Disch, Low Volt Chg, Blistering on Bottom Edge of Pos Plate, Migration of Neg Plate Material, Separator Completely Deteriorated.
			25°	414	8	8254	Low Volt Disch, Low Volt Chg, Blistering on Bottom Edge of Pos Plate, Migration of Neg Plate Material, Separator Completely Deteriorated.
			25°	479	5	8714	Low Volt Disch, Normal Volt Chg, Deposit on Terminal, Migration of Active Material, Blistering on Edge of Pos Plate, Separator Deteriorated.
			25°	267	10	10123	Low Volt Disch, Normal Volt Chg, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated.
			25°	485	4	10382	Low Volt Disch, Low Volt Chg, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated.
			25°	447	9	10382	Low Volt Disch, Low Volt Chg, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated.
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.

CELL TYPE: General Electric 3.0 Ampere-Hour

FAILURE ANALYSIS Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
16	40%	1.5	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.
			40°	527	1	7213	Low Volt Disch, Normal Volt Chg, Deposit Around Pos Terminal, Pos Tab Burned, Migration of Neg Plate Material, Separator Deteriorated.
			40°	534	5	8109	Low Volt Disch, Normal Volt Chg, Leaked, Lost 3.5 gm, Pos Tab Burned, Migration of Active Material, Separator Deteriorated.
			40°	550	8	8109	Low Volt Disch, Normal Volt Chg, Pinpoint Penetration, Separator Deteriorated.
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.

CELL TYPE: General Electric 3.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
40	25%	1.5	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°	406	2	2503	Low Volt Disch, High Volt Chg, Leaked, Pos Tab Burned and Shorted to Neg Tab.
			40°	441	6	2503	Low Volt Disch, High Volt Chg, Leaked, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
41	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°	409	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.
			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.

CELL TYPE: General Electric 3.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
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.
			40°	366	4	3848	Low Volt Disch, High Volt Chg, Pinpoint Penetration, Separator Deteriorated, Blistering on Bottom Edge of Pos Plate.
			40°	439	1	3854	Shorted on Cycling, Deposit on Pos Terminal, Pinpoint Penetration, Separator Deteriorated.
			40°	77	3	3854	Low Volt Disch, Normal Volt Chg, Migration of Active Material, Separator Deteriorated.
			40°	3120	2	4487	Low Volt Disch, High Volt Chg, Deposit on Pos Terminal, Loose Active Pos Plate Material, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetrations, Blistering on Pos Plates, Separator Deteriorated.
			40°	296	10	4487	Low Volt Disch, Low Volt Chg, Deposit on Pos Terminal, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetrations, Blistering on Pos Plates, Separator Deterioration.

CELL TYPE: Gould 3.5 Ampere-Hour

FAILURE ANALYSIS Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
3	25%	1.5	25°	73	5	2735	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	3[illegible]0	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.7 gm, Weak Weld on Neg Tab to Plate.
			25°	16[illegible]	9	4021	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 Deteriorate[illegible] Separator Impregnated with Neg Plate Material, Blistering on [illegible]s Plates.
			25°	18[illegible]	10	4751	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.1 gm, Neg Plate Material on Separator.
4	40%	1.5	25°	81	[illegible]	1609	Low Volt Disch, Normal Volt Chg, Leaked, Lost 3.2 gm, High Pres Bulge Top.
			25°	[illegible]0	8	1827	Low Volt Disch, Low Volt Chg, Leaked, Lost 2.7 gm, High Pres Bulge Top.
			25°	2	1	2110	Low Volt Disch, Low Volt Chg, Separator Deteriorated at Center of Core, Under Pressure When Opened.

PACK NUMBER	DEPTH OF DISCHARGE	CREDIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Gould 3.5 Ampere-Hour FAILURE ANALYSIS Nickel-Cadmium
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°	103	5	3184	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.6 gm, Separator Deteriorated, Pos Plate Material Between Plates.
7	40%	1.5	25°	49	2	3307	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	3430	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 Plate 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.
			25°	104	4	3736	Shorted on Cycling, Deposit on Glass Seal, Leaked, Lost 1.1 gm, Weak Weld Pos Tab to Plate, Neg Plate Material on Separator, Pinpoint Penetration, Separator Deteriorated.
			25°	153	7	3884	Low Volt Disch, Normal Volt Chg, Deposit Around Glass Seal, Leaked, Lost 1.7 gm, Neg Plate Material Loose, Pinpoint Penetration, Separator Deteriorated.
			25°	62	3	4173	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Leaked, Lost 1.4 gm, One Weak Weld on Pos Tab to Plate, Pinpoint Penetration, Separator Deteriorated.

CELL TYPE: Gould 3.5 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
8	40%	3.0	25°	68	6	1346	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.5 gm, Plate Material on Separator.
			25°	112	8	1704	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.0 gm, Pos Tab Weld to Bottom of Can Weak, Pos Tab Weld to Plate Weak.
			25°	39	1	1985	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Separator Deteriorated, Neg Plate Material on Separator.
			25°	170	10	1985	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.8 gm, Pos and Neg Tab Weld Weak to Plates Near Center of Core, Separator Deteriorated at Center of Core.
			25°	78	7	2138	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 1.4 gm, Pos Tab Weld to Case Weak, Separator Deteriorated, Neg Plate Material Penetrated Separator.
			25°	41	2	2494	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 1.7 gm, Separator Deteriorated, Neg Plate Material Impregnated Separator, One Bad Weld Neg Tab to Plate.
			25°	130	9	2494	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 2.1 gm, Separator Deteriorated, Pos and Neg Plate Material Impregnated Separator.
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.

CELL TYPE: Gould 3.5 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
27	15%	1.5	40°	203	1	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.
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.

CELL TYPE: Gould 3.5 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
28	25%	1.5	40°	155	6	1811	Low Volt Disch, Low Volt Chg, Short Through Separator, Weak Weld to Bottom of Case.
			40°	163	9	1811	Low Volt Disch, Low Volt Chg, Short Through Separator, Weak Weld to Bottom of Case, Deposit on Glass Seal.
31	15%	3.0	40°	R166	9	1500	Low Volt Disch, Low Volt Chg, Leaked, Lost 7.1 gm, Separator Deteriorated.
			40°	R179	10	1500	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.5 gm, Short Through Separator, Separator Deteriorated, One Weak Tab.
			40°	R92	2	1696	Low Volt Disch, High Volt Chg, Pieces of Plate Material Shorted Through Separator, Separator Deteriorated.
			40°	126	3	2411	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 2.1 gm, Short Through Separator by Piece of Pos Plate Material Between Plates, Separator Deteriorated, Neg Plate Material Impregnated Separator, Tab to Plate Weld Poor.
			40°	R162	8	2477	Low Volt Disch, High Volt Chg, Leaked Around Glass Seal, Lost 2.4 gm, Separator Deteriorated, Neg Plate Material Impregnated Separator, Pinpoint Penetration, Poor Weld Pos Tab to Case.
			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

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
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	435	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: Sonotone 5.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.
			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.
			25°	3611	1	6671	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, High Pressure Bulge, Excess Scoring, Migration of Pos and Neg Plate Material, Separator Completely Deteriorated.

CELL TYPE: Sonotone 5.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
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.
			40°	4364	4	7052	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, High Pressure Bulge, Short Caused by Excess Scoring, Migration of Pos and Neg Plate Material, Separator Completely Deteriorated.
			40°	4317	1	7758	Low Volt Disch, Low Volt Chg, Deposit on Glass Seal, Excess Scoring, Migration of Pos and Neg Plate Material, Separator Completely Deteriorated.
			40°	4350	3	9070	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Hole in Separator Adjacent to Corner of Outside Neg Plates, Grid Wire Penetrated Separator and Shorted to Pos Plate, Separator Completely Deteriorated.
			40°	6850	6	9220	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Hole Through Separator Near Edge of Plate Causing Short, Small Piece of Neg Plate Material Between Plates and Separator.
			40°	4347	2	9328	Low Volt Disch, Low Volt Chg, Deposit on Glass Seal, Neg Plate Material Migrated Through Separator, Separator Deteriorated, Weak Weld Tab to Neg Plate.
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.

CELL TYPE: Sonotone 5.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
26	25%	1.5	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°	4831	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.
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.
			40°	3658	8	3684	Low Volt Disch, Low Volt Chg, Deposit on Glass Seal, Leaked, Lost 1.3 gm, Short Caused by Excess Scoring, Migration of Pos and Neg Plate Material, Separator Completely Deteriorated.
			40°	3617	1	4141	Shorted During Cycling, Deposit on Glass Seal, Hole in Separator at Tab Weld Area Caused Short, Separator Completely Deteriorated.
			40°	7230	10	4141	Low Volt Disch, Low Volt Chg, Deposit on Glass Seal, Migration of Neg Plate Material, Separator Completely Deteriorated.

CELL TYPE: Gulton 6.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

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

FAILURE ANALYSIS: Nickel-Cadmium

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

FAILURE ANALYSIS: Nickel-Cadmium

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

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
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.
			40°	2340	6	3619	Low Volt Disch, Normal Volt Chg, Deposit Around Ceramic Seal and Bottom Seam of Can, Leaked, Lost 8.2 gm, Pinpoint Penetration, Separator Deteriorated.
			40°	2334	4	4133	Low Volt Disch, Low Volt Chg, Deposit Around Cracked Pos Terminal, Leaked, Lost 8.8 gm, Migration of Neg Plate Material, Blistering on Pos Plates, Separator Completely Deteriorated, Ceramic Short.

CELL TYPE: Gulton 6.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

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.
			0°	1636	3	*9760	Low Volt Disch, Low Volt Chg, High Pres Bulge, Concave Sides, Leaked, Lost 2.7 gm, Rough Place on Pos Plate Shorted Through Separator, Migration of Neg Plate Material Through Separator, Blistering on Pos Plates, Separator Deteriorated, Ceramic Short.
			0°	1616	1	*10146	Low Volt Disch, High Volt Chg, Deposit on Pos Terminal, Concave Sides Causing Bus to Short Against Case, Pos Tab Burned, Migration of Neg Plate Material Through Separator, Separator Very Slightly Deteriorated, Leaked, Lost 6.0 gm.

* FAILED DURING THIS REPORTING PERIOD.

CELL TYPE: Gulton 6.0 Ampere-Hour

FAILURE ANALYSIS Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
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.
				1591	4	4414	Low Volt Disch, Normal Volt Chg, Deposit on Pos Terminal, High Pressure Bulge, Concave Sides Shorting Against Pos Bus, Ceramic Short, Migration of Neg Plate Material, Pinpoint Penetration of Separator.
79	50%	24.0	25°	2982	1	149	Low Volt Disch, Normal Volt Chg, Deposit on Pos Terminal, Still Under Pressure When Opened, Ceramic Short, Very Light Migration, Blistering on Pos Plates, Separator Deteriorated.
			25°	2984	3	164	Low Volt Disch, Low Volt Chg, Still Under Pressure When Opened, Ceramic Short, Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated.
			25°	2983	2	545	Low Volt Disch, Normal Volt Chg, Burned Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated.
			25°	2985	4	545	Low Volt Disch, Normal Volt Chg, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deterioration.

CELL TYPE: General Electric 12.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
85	15%	1.5	40°	428	4	8888	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Still Under Pressure When Opened, Migration of Neg Plate Material, Separator Completely Deteriorated.
			40°	448	3	8947	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Still Under Pressure When Opened, Migration of Neg Plate Material, Separator Completely Deteriorated.
			40°	455	2	9710	Low Volt Disch, Normal Volt Chg, Still Under Pressure When Opened, Migration of Neg Plate Material, Separator Completely Deteriorated.
93	50%	24.0	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.
			40°	204	1	349	Low Volt Disch, Normal Volt Chg, Deposit on Pos Terminal, Pin-point Penetration, Separator Deteriorated.
			40°	209	3	349	Low Volt Disch, Normal Volt Chg, Deposit on Pos and Neg Terminal, Migration of Neg Plate Material, Separator Deteriorated.
			40°	210	4	349	Low Volt Disch, Normal Volt Chg, Deposit on Neg Terminal, Pin-point Penetration, Separator Deteriorated.
			40°	211	5	349	Low Volt Disch, Normal Volt Chg, Deposit on Neg Terminal, Migration of Neg Plate Material, Separator Deteriorated, Plate Not Packed Evenly.

CELL TYPE: General Electric 12.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
96	40%	1.5	25°	445	3	3822	Low Volt Disch, Low Volt Chg, Separator Penetrated by Neg Plate Material, 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.
97	40%	3.0	25°	438	2	3894	Low Volt Disch, Low Volt Chg, Deposit on Pos and Neg Terminals, Pinpoint Penetration, Separator Deteriorated.
			25°	435	3	3946	Low Volt Disch, Normal Volt Chg, Still Under Pressure When Opened, Migration of Neg Plate Material, Blistering on Pos Plate, Separator Deteriorated.
			25°	434	4	5002	Low Volt Disch, Normal Volt Chg, Still Under Pressure When Opened, Migration of Neg Plate Material, Separator Completely Deteriorated.
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.

CELL TYPE: General Electric 12.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
100	25%	3.0	40°	427	3	4170	Shorted on Cycling, High Pressure Bulge, Still Under Pressure When Opened, Blistering on Pos Plates, Separator Completely Deteriorated.
			40°	431	2	4358	Shorted on Cycling, High Pressure Bulge, Still Under Pressure, Migration of Neg Plate Material, Separator Completely Deteriorated.
			40°	436	1	4424	Shorted on Cycling, Migration of Neg Plate Material Through Separator, Separator Completely Deteriorated.

CELL TYPE: Gulton 12 Ampere-Hour

FAILURE ANALYSIS Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
290	25%	1.5	40°	1460	4	3060	Low Volt Disch, Low Volt Chg, Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated Allowing Plates to Short Together.
			40°	1459	3	3318	Shorted on Cycling, Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated Allowing Plates to Short Together.
			40°	1461	5	5124	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated.
296	40%	1.5	25°	1447	4	5036	Low Volt Disch, Normal Volt Chg, Piece of Loose Neg Plate Material Between Plates, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated.
			25°	1443	2	5152	Shorted on Cycling, High Pressure Bulge, Blistering on Pos Plates, Separator Completely Gone, Hottest Point Near Center of Pack, All Insulators Burned, Leaked, Lost 3.3 gm.
			25°	1445	3	5152	Low Volt Disch, Low Volt Chg, Deposit on Both Terminals, High Pressure Bulge, Migration of Neg Plate Material, Short Through Separator Near Center of Plate, Separator Completely Deteriorated.

CELL TYPE: Gulton 20 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

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.
			25°	465	4	7763	Low Volt Disch, Low Volt Chg, Deposit on Pos Terminal, Sides Concave, Migration of Active Plate Material, Blistering on Pos Plates, Separator Completely Deteriorated, Ceramic Short.
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.
76	15%	1.5	40°	453	2	7697	Shorted on Cycling, Deposit on Neg Terminal, Ceramic Broken Around Neg Terminal, Extraneous Active Material Caused Short Between Plates, Separator Completely Deteriorated.
			40°	431	4	7698	Cell Shorted During Shut Down for Cell Removal, High Pressure Bulge, Still Under Pressure When Opened, Pinpoint Penetration, Causing Shorts, Separator Completely Deteriorated.
			40°	455	3	9348	Shorted During Cycling, High Pressure Bulge, Still Under Pressure When Opened, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated, Short on Upper Corner Near Neg Tab.

CELL TYPE: Gulton 20 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
87	40%	1.5	25°	468	1	163	Low Volt Disch, High Volt Chg, High Pres Bulge, Lost ^ gm.
			25°	388	2	208	Low Volt Disch, High Volt Chg, Lost 26.7 gm, Ceramic ıort 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.
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.

CELL TYPE: Gulton 20 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
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.
			40°	412	3	3385	Shorted on Cycling, High Pressure Bulge, Pos and Neg Plate Material on Separator, Separator Completely Deteriorated.
			40°	489	1	4480	Shorted During Cycling, Deposit on Both Terminals, Still Under Pressure When Opened, Concave Sides, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated.
			40°	447	2	4480	Shorted During Cycling, Deposit on Neg Terminal, High Pressure Bulge, Concave Sides, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated.
101	15%	1.5	0°	435	2	3111	Low Volt Disch, High Volt Chg, Leaked, Lost 24.6 gm, High Pres Bulge, Separator Very Dry.
			0°	407	5	3111	Low Volt Disch, High Volt Chg, Leaked, Lost 20.4 gm, Separator Very Dry.
			0°	438	4	3629	Low Volt Disch, High Volt Chg, Leaked, Lost 13.2 gm, High Pres Bulge, Sides Concave, Blistering on Pos Plates.
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

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
104	25%	1.5	25°	69	1	2672	Low Volt Disch, Low Volt Chg, Shorted at Bottom on 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.

CELL TYPE: Gould 20 Ampere-Hour

PACK NUMBER	DEPTH OF DISCHARGE	CHARGE RATE (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES TO FAILURE	FAILURE ANALYSIS: Nickel-Cadmium
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: General Electric 3.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
20	40%	3.0	25°	421	5	3704	Low Volt Disch, Low Volt Chg, Blistering on Bottom and Top Edge of Pos Plate, Migration of Neg Plate Material, Separator Completely Deteriorated.
			25°	433	2	4485	Low Volt Disch, Low Volt Chg, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated, Burned Pos Tab.
			25°	711	6	4485	Low Volt Disch, Low Volt Chg, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetrations, Blistering on Pos Plates, Separator Deteriorated, Deposit on Pos Terminal.
			25°	710	3	4889	Shorted on Cycling, Deposit on Pos Terminal, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetrations, Blistering on Pos Plates, Separator Deteriorated.

CELL TYPE: Gould 3.5 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
52	25%	1.5	0°	116	8	7858	Low Volt Disch, Low Volt Chg, Still Under Pressure When Opened, Neg Plate Material on Separator, Excess Migration of Neg Plate Material, Separator Deteriorated.
			0°	194	10	8367	Low Volt Disch, Normal Volt Chg, Under High Pressure When Opened, Pinpoint Penetration, Migration of Active Material Around Tab Areas.
			0°	108	7	9724	Low Volt Disch, High Volt Chg, Loose Active Pos Plate Material, Migration of Neg Plate Material Through Separator, Separator Deteriorated.
			0°	118	9	9724	Low Volt Disch, Low Volt Chg, Loose Active Pos Plate Material, Migration of Neg Plate Material Through Separator, Separator Deteriorated.

CELL TYPE: Sonotone 5.0 Ampere-Hour

FAILURE ANALYSIS Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
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.
			25°	4878	6	7782	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Short Caused by Excess Scoring, Migration of Neg Plate Material, Separator Completely Deteriorated.
5	25%	3.0	25°	4351	2	3771	Low Volt Disch, High Volt Chg, Deposit on Glass Seal, Excess Scoring, Migration of Neg Plate Material, Deep Pressure Points Resulting in Intermittant Shorts, Separator Deteriorated.

CELL TYPE: Sonotone 5.0 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
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°	6875	9	3798	Low Volt Disch, Normal Volt Chg, High Pressure Bulge, Excess Scoring, Migration of Pos and Neg Plate Material, Separator Completely Deteriorated.
			25°	6882	7	4608	Low Volt Disch, Normal Volt Chg, Excess Scoring, Shorts at Edge of Plates, Neg Tab Area, and at Scoring, Weak Weld Neg Plate to Tab, Separator Deteriorated.
29	15%	3.0	40°	3626	1	1418	Shorted on Cycling, Neg Tab Welds Poor, Active Plate Material Penetrated Separator at Scoring Marks.
			40°	810	7	4835	Low Volt Disch, Low Volt Chg, Deposit on Glass Seal, Burn Spots Along Top Edge of Neg Plate, Hole Burned in Separator, Weak Weld Neg Tab to Plate.
			40°	4327	8	4340	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Hole in Separator Adjacent to Score Band, Separator Completely Deteriorated.

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: Nickel-Cadmium
49	15%	1.5	0°	6887	9	2010	Low Volt Disch, Low Volt Chg, Burn on Separator Opposite Pos Tab.
			0°	4370	3	10073	Shorted During Cycling, Short Through Separator Caused By Deep Pressure Points Adjacent to Scoring, Migration of Neg Plate Material, Small Inclusion on Plates Starting to Penetrate Through 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 — Nickel-Cadmium
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.
			0°	2227	7	8590	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Still Under Pressure When Opened, Pinpoint Penetration, Blistering on Pos Plates, Ceramic Short.
65	15%	3.0	0°	1284	4	5012	Low Volt Disch, Low Volt Chg, Deposit on Pos Terminal, Still Under Pressure When Opened, Concave Sides, Edge of Pos Tab Shorted to Top of Neg Plates, Very Light Migration of Neg Plate Material, Blistering on Pos Plates.
			0°	2095	6	*5706	Low Volt Disch, Low Volt Chg, Concave Sides Shorted Pos and Neg Bus to Case, Pinpoint Migration Through Separator, Blisters on Pos Plate, Separator Deteriorated.
			0°	1808	8	*6186	Low Volt Disch, Low Volt Chg, Concave Sides Shorted Pos and Neg Bus to Case, Pos Plate Penetrated Separator and Shorted to Neg Plate, Pinpoint Migration Through Separator, Blisters on Pos Plates, Separator Deteriorated.

* FAILED DURING THIS REPORTING PERIOD

CELL TYPE: Gould 20 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

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.
			0°	47	1	3610	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Pieces of Loose Neg Plate Material Between Plates, Migration of Neg Plate Material, Separator Deteriorated, Short Through Separator at Bottom of Plates Where Tape Holds Plates Together.
			0°	14	4	*10641	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Migration of Neg Plate Material, Short Between Pos and Neg, Separator Completely Deteriorated.
105	25%	3.0	25°	40	1	4306	Low Volt Disch, Low Volt Chg, Still Under Pressure When Opened, Hot Spots Around Pinpoint Penetration, Deep Penetration by Blisters on Pos Plate, Separator Deteriorated.
			25°	23	3	*5580	Low Volt Disch, Low Volt Chg, Deposit on Pos Term, Still Under Pressure When Opened, Migration of Neg Plate Material, Short Between Pos and Neg Plates, Separator Completely Deteriorated.
			25°	41	4	*5690	Low Volt Disch, Low Volt Chg, Still Under Pressure When Opened, Weak Weld on Comb to Plate, Migration of Neg Plate Material, Separator Deteriorated.
108	15%	3.0	40°	81	2	4003	Shorted on Cycling, Still Under Pressure When Opened, Several Shorts Cuased by Small Pieces of Metal Between Plates, Blistering on Pos Plates, Separator Deteriorated.
			40°	82	3	4233	Shorted During Cycling, Still Under Pressure When Opened, Loose Pieces of Pos Plate Material Between Plates, Pinpoint Penetration, Blistering on Pos and Neg Plates, Separator Deteriorated, Short Between Pos Plate and Neg Tab at Top of Cell.

CELL TYPE: Gulton 20 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
77	15%	3.0	40°	462	2	*5510	Shorted on Cycle, Deposit on Neg Term, Concave Sides, Migration of Neg Plate Material, Separator Completely Deteriorated.
			40°	415	1	*5684	Shorted on Cycle, High Pressure Bulge, Still Under Pressure When Opened, Migration of Neg Plate Material, Short Between Pos and Neg Plates at Top of Plate, Separator Completely Deteriorated.
			40°	427	4	*6032	Shorted on Cyle, Deposit on Pos and Neg Term, High Pressure Bulge, Migration of Neg Plate Material, Short Between Pos and Neg Plates, Separator Completely Deteriorated.
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.

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 — Nickel-Cadmium
82	25%	1.5	25°	430	2	7527	Low Volt Disch, Normal Volt Chg, Pierced Separator Caused By Rough Place at Top Edge of Neg Plate, Neg Plate Material Migrated, Separator Deteriorated.
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: Sonotone 3.0 Ampere-Hour Nickel-Cadmium

FAILURE ANALYSIS

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
202	40%	1.5	25°	A3553	3	1630	Low Volt Disch, Normal Volt Chg, Cell Very Dry, Capacity Decay Due to Insufficient Electrolyte, Migration of Plate Material Around Tab and Scoring Areas.

CELL TYPE: Gulton 3.6 Ampere-Hour

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
Sherfey	40%	1.5	25	106	2	2409	Low Volt Disch, Low Volt Chg, Deposit on Edge of Top to Side Weld, Leaked, Lost 3.9 gm., Loose Active Material Pos and Neg, Pinpoint Penetration, Separator Very Dry.
				111	3	*3190	Low Volt Disch, Normal Volt Chg, Deposit on Edge of Top to Side Weld, Leaked, Lost 3.0 gm, Weak Weld Neg Tab to Case, Loose Active Material Pos and Neg, Migration of Neg Plate Material, Blisters on Pos Plates, Separator Deteriorated.
				135	10	*3472	Low Volt Disch, Low Volt Chg, Deposit on Edge of Top to Side Weld, Leaked, Lost 4.2 gm, Loose Active Material Neg, Migration of Neg Plate Material, Separator Deteriorated.
209	25%	1.5	25	134	6	*2038	Low Volt Disch, Normal Volt Chg, Deposit on Edge of Top to Side Weld, Leaked, Lost 3.5 gm, Pos Active Material Loose, Migration of Neg Plate Material, Blisters on Pos Plates, Separator Deteriorated.

CELL TYPE: Gulton 4.0 Ampere-Hour

FAILURE ANALYSIS Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
214	40%	1.5	25	None	3	*7564	Shorted on Cycling, Gassing When Opened, Concave Sides, Weak Weld on Pos Plates to Comb For 3-Plate Group, Migration and Separator Deteriorated Heavy Between 4-Plate Group.
				None	1	*8474	Low Volt Disch, Low Volt Chg, High Pressure Bulge and Gassing, Weak Weld on Pos Plates to Comb for 3-Plate Group, Migration and Separator Deteriorated Heavy Between 4-Plate Group.
				None	5	*8474	Low Volt Disch, Low Volt Chg, High Pressure Bulge and Gassing, Migration of Neg Plate Material, Separator Deteriorated.

CELL TYPE: Gulton 5.0 Ampere-Hour (NIMBUS)

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
128	25	1.5	40	291	3	2422	Shorted During Cycling, Neg Plate Not Welded To Case, Loose Neg Plate Material at Center of Core, Migration of Neg Plate Material, Separator Deteriorated, Ceramic Short.
318	25	1.5	25	278	2	*4863	Shorted During Cycling, Pos Tab Touched Top of Neg Plate Shorting Out Cell, Burned Pos Tab, Weak Weld Neg Tab to Case, Migration of Neg Plate Material, Separator Deteriorated.

CELL TYPE: Gulton 5.6 Ampere-Hour (Folded Neoprene Seal)

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
276	25%	1.5	25°	115	2	*2025	Low Volt Disch, High Volt Chg, Deposit Around Top To Side Weld, Pos Tab Burned and Broken, Separator Deteriorated.

CELL TYPE: Gulton 5.6 Ampere-Hour (Nonfolded Neoprene Seal)

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
230	25%	1.5	40°	111	5	*1195	Low Volt Disch, Low Volt Chg, Deposit Around Top to Side Weld, Leaked, Lost 1.6 gm, Weak Weld Pos Tab to Term, Migration of Neg Plate Material, Separator Deteriorated.
			40°	103	3	*1196	Low Volt Disch, High Volt Chg, Still Under Pressure When Opened, Burned Pos Tab, Separator Deteriorated.
			40°	101	1	*1375	Low Volt Disch, High Volt Chg, Sill Under Pressure When Opened, Pos Tab Burned and Broken, Migration of Neg Plate Material, Separator Deteriorated.

CELL TYPE: Gulton 6.0 Ampere-Hour (HSI)

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
218	40%	1.5	25°	5323	2	*5364	Low Volt Disch, Low Volt Chg, Ceramic Short, Nickel Plating Flaked Off of Pos Term, Pinpoint Migration Through Separator Blisters on Pos Plates, Separator Deteriorated.
238	25%	1.5	40°	5321	5	4350	Low Volt Disch, Low Volt Chg, Still Under Pressure When Opened, Pos Tab Burned, Migration of Neg Plate Material, Blistering on Pos Plate, Separator Completely Deteriorated, Neg Plate Shorted Through Separator.
			40°	5318	2	*5184	Low Volt Disch, Low Volt Chg, Deposit on Pos Term, Burned Pos Tab, Ceramic Short, Migration of Neg Plate Material, Blisters on Pos Plate, Separator Deteriorated.
			40°	5320	4	*5766	Low Volt Disch, Normal Volt Chg, Burned Pos Tab, Ceramic Short, Migration of Neg Plate Material, Blisters on Pos Plate, Separator Deteriorated.

CELL TYPE: Gulton 6.0 Ampere-Hour (Third Electrode)

FAILURE ANALYSIS: Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
11	25%	1.5	25°	147	3	2713	Third Electrode Shorted to Pos, Ceramic Short, Blistering on Pos Plates, Separator Deteriorated, Leaked, Lost 1.3 gm.
47	40%	1.5	25°	153	5	*5033	Shorted on Cycling, Deposit on Neg Term Seal, Under Pressure When Opened, Migration of Neg Plate Material, Blisters on Pos Plate, Short Through Separator Between Pos and Neg Plate Near Top of Cell, Separator Deteriorated.
59	25%	1.5	0°	140	3	2202	Third Electrode Shorted to Neg Plate, Migration of Neg Plate Material, Shorted Out Third Electrode, High Pressure Bulge, Still Under Pressure When Opened, Lost 1.4 gm.
71	40%	1.5	0°	130	5	2993	Low Volt Disch, High Volt Chg, Deposit on Neg Terminal, Leaked, Lost 8.7 gm, High Pressure Bulge, Large Deposits of Loose Active Neg Plate Material, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates.
			0°	141	4	*5070	Low Volt Disch, High Volt Chg, Leaked, Lost 5.9 gm, Separator Very Dry, Migration of Neg Plate Material, Blisters on Pos Plates.

CELL TYPE: Gulton 12.0 Ampere-Hour Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
301	25%	1.5	0°	1455	4	*5586	Low Volt Disch, High Volt Chg, High Pressure Bulge, Leaked, Lost 9.6 gm, Migration of Neg Plate Material, Blisters on Pos Plates, Separator Very Dry.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: Gulton 50 Ampere-Hour FAILURE ANALYSIS: Nickel-Cadmium
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 12 Ampere-Hour

FAILURE ANALYSIS: Silver-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
33	50%	24.0	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	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.

CELL TYPE: Delco 25 Ampere-Hour Silver-Zinc

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	FAILURE ANALYSIS
75	40%	24.0	25°			32	Cell Blew Up, Pack Returned to Manufacturer.
89	40%	24.0	25°			80	Returned to Manufacturer for Analysis.
288	40%	3.0	25°			120	Returned to Manufacturer for Analysis.

CELL TYPE: Delco 40 Ampere-Hour Silver-Zinc

FAILURE ANALYSIS: Returned to Manufacturer for Analysis.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED
275	25%	24.0	25°			139

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	2.90	3.30	3.50	
	64		25	0	3.50		3.33	3.70	3.38	3.35	3.42	3.27	3.12	2.80	
	15		25	25	4.00		3.38	2.93	2.33	1.95	1.47	1.15	1.10	----	10382
	16		40	25	4.08		2.75	2.10	1.35	----	----	----	----	----	5013
	39		15	50/40	1.65	2.48 (779)	2.10	1.53	1.25	1.17	0.70	----	----	----	8109
	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	2.95	3.04	3.08	
	68		25	0	3.50		3.35	3.53	3.40	3.27	3.25	2.93	2.87	3.20	
	19		25	25	3.93		3.78	3.48	3.15	3.00	2.78	2.48	2.29	2.20	
	20		40	25	3.78		3.00	2.35	2.07	1.83	2.00	1.62	1.47	1.20	5410
	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	0.88	----	----	4487
Gould 3.5 A.H.	51	1.5	15	0	3.62		4.00	3.33	3.41	3.21	3.35	3.15	3.47	3.00	
	52		25	0	3.33		3.85	3.53	3.18	3.30	3.24	2.80	2.65	2.96	
	3		25	25	4.00		3.82	2.92	2.25	----	----	----	----	----	4781
	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	3.03	2.77	3.73	
	56		25	0	3.50		3.91	3.53	3.65	3.41	3.38	3.30	3.27	3.24	
	7		25	25	4.32		4.03	3.79	3.53	2.77	2.28	2.51	----	----	4173
	8		40	25	4.29		3.65	3.35	3.03	----	----	----	----	----	2494
	31		15	50/40	1.60	1.31 (329)	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.

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	CAPACITY CHECKS AFTER 88-DAYS INTERVALS: INITIAL	*(See Note)	NINTH 88 DAYS	TENTH 88 DAYS	ELEVENTH 88 DAYS	TWELFTH 88 DAYS	THIRTEENTH 88 DAYS	FOURTEENTH 88 DAYS	FIFTEENTH 88 DAYS	SIXTEENTH 88 DAYS	SEVENTEENTH 88 DAYS	CYCLES TO PACK FAILURE
G.E. 3 A.H.	63	1.5	15	0			3.10	2.65								
	64		25	0			2.70	2.85								
	15		25	25			----	----	----	----	----	----	----	----	----	10382
	16		40	25			----	----	----	----	----	----	----	----	----	5013
	39		15	50/40			----	----	----	----	----	----	----	----	----	8109
	40		25	50/40			----	----	----	----	----	----	----	----	----	2509
G. E. 3 A.H.	67	3	15	0			2.95									
	68		25	0			2.78	2.75								
	19		25	25			1.88	2.00								
	20		40	25			----	----	----	----	----	----	----	----	----	5410
	43		15	50/40			----	----	----	----	----	----	----	----	----	2656
	44		25	50/40			----	----	----	----	----	----	----	----	----	4487
Gould 3.5 A.H.	51	1.5	15	0			2.83	3.21								
	52		25	0			2.42									
	3		25	25			----	----	----	----	----	----	----	----	----	4751
	4		40	25			----	----	----	----	----	----	----	----	----	3164
	27		15	50/40			----	----	----	----	----	----	----	----	----	4495
	28		25	50/40			----	----	----	----	----	----	----	----	----	1811
Gould 3.5 A.H.	55	3	15	0			2.60	3.15								
	56		25	0			2.92	2.83								
	7		25	25			----	----	----	----	----	----	----	----	----	4173
	8		40	25			----	----	----	----	----	----	----	----	----	2494
	31		15	50/40			----	----	----	----	----	----	----	----	----	2524
	32		25	50/40			----	----	----	----	----	----	----	----	----	975

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	4.50	4.54	4.08	
	50		25	0	5.04		4.96	4.58	4.25	3.79	3.67	3.67	3.46	3.25	
	1		25	25	5.42		3.67	2.33	2.88	2.79	2.21	2.58	2.80	2.46	11745
	2		40	25	6.42		4.38	4.17	3.25	3.00	----	----	----	----	6671
	25		15	50/40	3.08	3.63 (703)	2.25	1.83	2.04	1.17	1.17	1.54	0.83	----	9328
	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	5.54	5.00	4.62	
	54		25	0	4.92		3.96	3.96	4.13	3.96	3.75	3.29	3.38	3.13	
	5		25	25	5.71		4.58	3.04	2.04	2.13	2.13	2.08	2.21	3.25	
	6		40	25	5.83		4.50	3.29	3.25	2.92	2.33	2.33	2.00	2.13	5211
	29		15	50/40	3.33	4.92 (223)	2.75	2.38	2.42	2.08	1.96	1.29	1.79	----	5975
	30		25	50/40	3.75	3.50 (183)	1.88	2.88	2.38	1.67	1.21	----	----	----	4141
Gulton 6 A.H.	61	1.5	15	0	5.00		5.10	5.40	4.45	3.15	2.60	2.15	1.75	----	10146
	62		25	0	5.00		4.75	3.80	4.35	3.55	3.30	3.30	3.95	3.85	
	13		25	25	5.80		2.75	2.85	2.70	----	----	----	----	----	4021
	14		40	25	6.40		3.45	----	----	----	----	----	----	----	2086
	37		15	50/40	2.75	3.60 (239)	1.70	2.95	1.85	2.00	----	----	----	----	6064
	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	5.15	4.20	4.10	
	66		25	0	4.25		5.00	3.50	2.50	3.80	3.90	3.45	----	----	4414
	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	1.50	1.30	----	----	4133

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

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	CAPACITY CHECKS AFTER 88-DAY INTERVALS											CYCLES TO PACK FAILURE
					NINTH 88 DAYS	TENTH 88 DAYS	ELEVENTH 88 DAYS	TWELFTH 88 DAYS	THIRTEENTH 88 DAYS	FOURTEENTH 88 DAYS	FIFTEENTH 88 DAYS	SIXTEENTH 88 DAYS	SEVENTEENTH 88 DAYS	EIGHTEENTH 88 DAYS	NINETEENTH 88 DAYS	
Sonotone 5 A.H.	49	1.5	15	0	4.04	4.13										
	50		25	0	3.58	3.33										
	1		25	25	---	---	---	---	---	---	---	---	---	---	---	11745
	2		40	25	---	---	---	---	---	---	---	---	---	---	---	6671
	25		15	50/40	---	---	---	---	---	---	---	---	---	---	---	9328
	26		25	50/40	---	---	---	---	---	---	---	---	---	---	---	3625
Sonotone 5 A.H.	53	3	15	0	4.17	4.63										
	54		25	0	2.50	2.75										
	5		25	25	3.42	3 67										
	6		40	25	---	---	---	---	---	---	---	---	---	---	---	5211
	29		15	50/40	---	---	---	---	---	---	---	---	---	---	---	5975
	30		25	50/40	---	---	---	---	---	---	---	---	---	---	---	4141
Gulton 6 A.H.	61	1.5	15	0	---	---	---	---	---	---	---	---	---	---	---	10146
	62		25	0	3.95	3.80										
	13		25	25	---	---	---	---	---	---	---	---	---	---	---	4021
	14		40	25	---	---	---	---	---	---	---	---	---	---	---	2086
	37		15	50/40	---	---	---	---	---	---	---	---	---	---	---	6064
	38		25	50/40	---	---	---	---	---	---	---	---	---	---	---	1377
Gulton 6 A.H.	65	3	15	0	4.05	3.70										
	66		25	0	---	---	---	---	---	---	---	---	---	---	---	4414
	17		25	25	---	---	---	---	---	---	---	---	---	---	---	2985
	18		40	25	---	---	---	---	---	---	---	---	---	---	---	1550
	41		15	50/40	---	---	---	---	---	---	---	---	---	---	---	1689
	42		25	50/40	---	---	---	---	---	---	---	---	---	---	---	4133

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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	13.7	14.3	13.1	
	124		25	0	14.2			13.5	12.9	12.8	11.4	11.5	11.7	10.8	8.40	
	82		25	25	15.2			8.00	5.55	5.50	5.40	5.70	5.00	4.40	-----	10828
	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	5.00	1.90	4.30	----	9710
	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	12.0	11.4	11.2	
	125		25	0	14.6			13.0	12.1	11.9	12.2	12.9	11.7	11.2	11.3	
	83		25	25	15.2			11.7	8.20	6.13	5.20	4.80	4.40	5.10	5.60	
	97		40	25	14.9			5.60	5.86	7.90	8.20	6.80	5.50	5.70	----	5002
	86		15	50/40	7.10	8.20	(205)	6.30	3.70	4.00	3.50	2.90	2.30	4.40	3.70	
	100		25	50/40	7.00	9.80	(70)	3.80	4.70	5.70	5.10	4.00	4.00	-----	-----	4424
Gould 20 A.H.	84	1.5	15	0	22.5			27.7	26.5	24.2	24.7	21.7	22.3	17.8	19.0	
	98		25	0	23.1			21.2	15.2	18.7	17.2	17.5	13.5	13.5	-----	10641
	104		25	25	25.0			18.5	14.0	-----	-----	-----	-----	-----	-----	2980
	118		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	19.7	18.3	16.7	16.5	
	94		25	0	23.0			17.5	25.0	18.2	18.8	16.8	17.0	15.5	15.8	
	105		25	25	23.3			23.5	22.2	21.3	21.2	20.7	10.5	20.5	14.3	5690
	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	12.3	-----	-----	-----	4273
	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	CAPACITY CHECKS AFTER 88-DAY INTERVALS											CYCLES TO PACK FAILURE
					NINTH 88 DAY	TENTH 88 DAY	ELEVENTH 88 DAY	TWELVETH 88 DAY	THIRTEENTH 88 DAY	FOURTEENTH 88 DAY	FIFTEENTH 88 DAY	SIXTEENTH 88 DAY	SEVENTEENTH 88 DAY	EIGHTEENTH 88 DAY	NINETEENTH 88 DAY	
G.E. 12 A.H.	110	1.5	15	0	11.9	12.0										
	124		25	0	7.20	10.5										
	82		25	25	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	10828
	96		40	25	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	4020
	85		15	50/40	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	9710
	99		25	50/40	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	4853
G.E. 12 A.H.	111	3	15	0	10.0	10.3										
	125		25	0	10.9	10.9										
	83		25	25	7.20	6.80										
	97		40	25	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	5002
	86		15	50/40	3.10	3.40										
	100		25	50/40	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	4424
Gould 20 A.H.	84	1.5	15	0	18.5	16.3										
	98		25	0	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	10641
	104		25	25	- - -	- - -	- - -	- - -	- - -	- - -	- - -	———	- - -	- - -	- - -	2880
	118		40	25												2937
	112		15	50/40												5213
	126		25	50/40												1574
Gould 20 A.H.	80	3	15	0	17.2	15.0										
	94		25	0	14.7	15.2										
	105		25	25												5690
	119		40	25												1793
	108		15	50/40												4273
	122		25	50/40												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	101	1.5	15	0	17.2			12.5	5.67							3631
20 A.H.	115		25	0	17.7			11.2								2288
	73		25	25	23.3			7.17	9.50	7.83	8.67	8.83				7763
	87		40	25	23.3											627
	76		15	50/40	10.3	13.8	(172)	6.50	4.83	5.50	4.67	5.00	5.17			9348
	90		25	50/40	9.00	11.3	(65)	6.00	10.3	7.33**						4045
Gulton	102	3	15	0	16.7			19.8	25.2	20.3	19.5	17.3	17.0	15.0	14.8	
20 A.H.	116		25	0	21.7			20.7	21.8	19.3	17.5	15.2	15.8	13.5	13.2	
	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	4.67	5.00	5.17	6.16	6032
	91		25	50/40	9.17	10.3	(47)	6.67	6.67	7.67	6.83	7.17	5.50			4480
Yardney	57	24	50	0	13.8			8.60								166
12 A.H.	33		50	40	13.5			12.0								210
Gulton	79	24	50	25	6.60			3.55	4.40	4.25	4.05	3.50				545
6 A.H.																
G.E.	93	24	50	40 ***	13.0			7.60	(40°C) 6.50	(40°C) 5.00						349
12 A.H.																
Gulton	95	1.5	25	0	54.6			59.6	45.4							3227
50 A.H.	123		15	40	27.9											1874

* 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	CAPACITY CHECKS AFTER 88-DAY INTERVALS											CYCLES TO PACK FAILURE
					NINTH 88 DAYS	TENTH 88 DAYS	ELEVENTH 88 DAYS	TWELFTH 88 DAYS	THIRTEENTH 88 DAYS	FOURTEENTH 88 DAYS	FIFTEENTH 88 DAYS	SIXTEENTH 88 DAYS	SEVENTEENTH 88 DAYS	EIGHTEENTH 88 DAYS	NINETEENTH 88 DAYS	
Gulton 20 A.H.	101	1.5	15	0												
	115		25	0												
	73		25	25												
	87		40	25												
	76		15	50/40												
	90		25	50/40												
Gulton 20 A.H.	102	3	15	0	10.1	10.0										
	116		25	0	13.0	12.0										
	74		25	25												
	88		40	25												
	77		15	50/40												
	91		25	50/40												
Yardney 12 A.H.	57	24	50	0												
	33		50	40												1
Gulton 6 A.H.	79	24	50	25												
G.E. 12 A.H.	93	24	50	40												
Gulton 50 A.H.	95	1.5	25	0												
	123		15	40												

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AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

	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	
Sonotone (Triple Sealed) 3 A.H.	243	1.5	15	0	3.23	3.55	3.47	3.50	3.50	3.40	3.42					
	231		25	0	3.88	3.05	2.78	2.72	2.72	2.67	2.27					
	203		25	25	3.35	1.40	1.17	1.50	1.45							
	202		40	25	3.60	1.32	1.45	1.62								5399
	226		15	40	3.53	1.10	1.40	.90	0.47							
	237		25	40	3.48	1.05	1.05	1.05								5625
Sonotone (Stabis-tor) 5 A.H.	175	1.5	25	-20	4.92	1.42										2145
	289		40	-20	4.96	3.13										1530
	92		25	0	3.38	2.92	1.75	1.25	1.17							
	322		40	0	4.13	2.42	2.63	1.63	1.75							
	273		25	25	5.33	2.33	1.29									3742
	287		40	25	5.50	3.66										2392
	299		25	40	4.21	1.88	1.50	1.17								4388
	312		40/15	40	3.71	1.04	0.54									3294

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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: 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	CYCLES TO PACK FAILURE
Gulton (Comm.) 4 A.H.	315	1.5	15	0	5.04	3.57	4.03	4.00	3.80	4.07	4.03	4.60	4.07			
	326		25	0	4.87	4.00	3.87	3.73	[illegible]	3.60	3.93	3.03				
	204		25	25	4.63	2.47	2.07	1.83	1.80	3.67	[illegible]	1.70	1.60	1.60		
	214		40	25	5.00	2.00	2.07	1.87	1.93	1.93	1.67					8474
	228		15	40	4.20	1.77	1.67	1.47	1.53	1.93	1.75	1.67	1.70			
	240		25	40	3.37	1.17	1.13	1.30	1.03	1.30	1.01	1.00				10360
Gulton 12 A.H.	216	1.5	15	0	14.0	14.0	14.1	14.2	13.7	13.7	12.4					
	301		25	0	14.2	14.5	14.4	14.2	13.0	11.9	11.0					
	227		25	25	14.1	5.90	3.50	4.10	4.20	4.80	5.10					
	296		40	25	13.3	4.70	5.40	5.00								5152
	78		15	40	6.80	4.30	3.10	3.30	3.40	3.40	3.20					
	290		25	40	11.4	5.40	3.60	3.70								5124
Gulton (HSI) 6 A.H.	213	1.5	25	0	7.30	7.30	7.25	[illegible]	7.00	[illegible]	6.75					
	218		40	25	6.90	3.00	3.60	[illegible]	[illegible]							7577
	238		25	40	5.00	1.75	2.00	[illegible]	[illegible]							5766
Yardney (AgZr)	9	24	42	25	14.0											57

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AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	INITIAL PRECONDITIONING	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 (Nimbus) 5 A.H.	117	1.5	15	0	5.08	5.17	5.46	5.17	4.75	4.75						
	121		25	0	5.38	5.38	5.33	5.00	4.46	4.29						
	120		15	25	5.25	5.40	4.17	2.79	2.37	2.08						
	318		25	25	5.46	2.55	1.67	1.50	1.67	2.00						
	127		15	40	3.29	1.67	1.50	1.34	1.42	1.70						
	128		25	40	3.04	1.42	1.54	1.71	1.83							6345
Gulton 6 A.H. (Third elec-trode)	59	1.5	25	0	7.15	7.00	6.20	6.75	6.50	6.85						
	71		40	0	7.25	7.50	7.00	5.65								5754
	11		40	25	7.10	3.15	6.20	4.35	3.95	2.75						7743
	23		25	25	5.95	3.85	5.20	4.00	4.45	4.20	3.85					
	35		15	40	2.95	2.25	1.60	1.85	2.00	2.75						
	47		25	40	3.95	2.10	2.05	2.25								5521
G.E. (Nimbus) 5 A.H.	103	1.5	15	0	5.42	5.08	5.38	5.58	5.42	5.54						
	107		25	0	5.21	5.50	5.46	5.33	5.17	5.42						
	106		15	25	4.67	4.13	4.13	3.50	3.50	3.21	3.08					
	304		25	25	5.58	3.58	2.54	2.54	1.75	2.04						
	113		15	40	3.67	2.42	2.25	1.83	1.83							4998
	114		25	40	3.83	2.25	1.71	1.71	1.63	1.42						
G.E. 12 A.H. (Third elec-trode)	60	1.5	25	0	15.0	15.1	14.6									
	72															
	12		25	25	10.2											1698
	24		40	25	9.10											665
	36															
	48		25/40	40/0	5.30* 15.2	15.1	11.5									

* At 40° C.

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	INITIAL PRECONDITIONING	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 (Neoprene seal folded) 5.6 A.H.	244	1.5	25	-20	4.01	4.67	4.34									
	200		25	0	6.25	5.32	5.09									
	276		25	25	5.60	1.63	1.59	1.59								
	242		25	40	4.39	1.49	1.35									3798
Gulton (Neoprene seal non-folded) 5.6 A.H.	232	1.5	25	-20	4.53	4.57	4.67									
	390		25	0	6.58	5.88	5.50									
	396		25	25	6.30	2.33	2.24	1.87								
	230		25	40	4.90											1275
Yardney (C-3 Separator) 5 A.H.	257	24	20	0	3.67	1.83	1.33									267
	21		20	25	4.93	.76										98
	45		20	40	6.02											61
Yardney (Radiated Separator) 5 A.H.	409		20	25	5.25											34
	233		20	25	5.20	5.85	6.13	6.35								
Yardney (Pellon Control Separator) 5 A.H.	69		20	25	5.38	4.95	4.17	3.20								

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	CAPACITY CHECKS AFTER 88-DAY INTERVALS										CYCLES TO PACK FAILURE
					INITIAL PRECONDITIONING	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	
Delco (Silver-Zinc) 25 A.H.	609	24	40	25	29.7	30.5	22.3									119
Gulton (Neoprene seal folded) 3.6 A.H.	239	1.5	40	25	3.06	2.07	2.01	2.55	1.71							
Yardney (Silver-Cadmium) 12 A.H.	185	1.5	25	-20	8.70	1.30	13.7									214
	197		25	0	14.2	2.00	3.50									
	182		25	25	4.50	5.40										

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	REST 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 1.25 A.H.	178	1.5	25	-20	1.73		0.54	0.42							
	308		25	0	1.78		1.76	1.69							
	198		60	0	1.83		1.60	1.53							
	388		25	-20	1.28		0.52	0.52							
G.E. 5A.H. Gulton 5A.H.	338	1.5	25	40	[illegible]										

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MFR.	CAP. (AH)	PACK NO.	TEMP. °C	ORBIT PERIOD (HRS) DISCH.	ORBIT PERIOD (HRS) CHG.	PERCENT DEPTH OF DISCH.	PERCENT OF RECHG.	CHG. VOLT LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFF	CELLS IN PACK INITIAL	CELLS IN PACK THIS MONTH START	CELLS IN PACK THIS MONTH END
G. E. (pages 82-86)	3	63	0	0.5	1.0	15	115	1.55	14918	15388	470	10	9	9
		64	0	"	"	25	"	"	15193	15672	479	"	10	10
		15	25	"	"	25	125	1.49	FAILED	10382		"		
		16	25	"	"	40	"	"	FAILED	5013		"		
		39	40	"	"	15	160	1.45	FAILED	8109		"		
		40	40	"	"	25	"	1.45	FAILED	2509		"		
		67	0	"	2.5	15	115	1.55	7422	7676	254	"	10	10
		68	0	"	"	25	"	"	7309	7556	247	"	9	9
		19	25	"	"	25	125	1.49	7395	7649	254	"	10	10
		20	25	"	"	40	"	"	Failed	5410		"		
		43	40	"	"	15	160	1.45	Failed	2658		"		
		44	40	"	"	25	"	"	FAILED	4487		"		
GOULD (pages 87-89)	3.5	51	0	"	1.0	15	115	1.55	15068	15547	479	"	9	9
		52	0	"	"	25	"	"	Failed	13728		"		
		3	25	"	"	25	125	1.49	FAILED	4751		"		
		4	25	"	"	40	"	"	FAILED	3164		"		
		27	40	"	"	15	160	1.45	FAILED	4495		"		
		28	40	"	"	25	"	"	FAILED	1811		"		
		55	0	"	2.5	15	115	1.55	7470	7693	223	"	10	10
		56	0	"	"	25	"	"	7447	7701	254	"	10	10
		7	25	"	"	25	125	1.49	FAILED	4173		"		
		8	25	"	"	40	"	"	FALLED	2494		"		
		31	40	"	"	15	160	1.45	FAILED	2517		"		
		32	40	"	"	25	"	1.45	FAILED	975		"		
SONOTONE Pages 90-94	5	49	0	0.5	1.0	15	115	1.55	14836	15315	479	"	8	8
		50	0	"	"	25	"	"	14719	15231	512	"	7	7
		1	25	"	"	25	125	1.49	FAILED	11745		"		
		2	25	"	"	40	"	"	FAILED	6671		"		
		25	40	"	"	15	160	1.45	FAILED	9328		"		
		26	40	"	"	25	"	"	FAILED	3625		"		
		53	0	"	2.5	15	115	1.55	7311	7565	254	"	10	10
		54	0	"	"	25	"	"	7291	7545	254	"	10	10
		5	25	"	"	25	125	1.49	7182	7436	254	"	8	8
		6	25	"	"	40	"	"	FAILED	5211		"		
		29	40	"	"	15	160	1.45	FAILED	5975		"		
		30	40	"	"	25	"	"	FAILED	4141		"		

MFR.	CAP. (AH)	PACK NO.	TEMP. °C	ORBIT PERIOD (HRS) DISCH.	ORBIT PERIOD (HRS) CHG.	PERCENT DEPTH OF DISCH.	PERCENT OF RECHG.	CHG. VOLT LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFF	CELLS IN PACK INITIAL	CELLS IN PACK THIS MONTH START	CELLS IN PACK THIS MONTH END
GULTON (pages 95-96)	6	61	0	0.5	1.0	15	115	1.55	FAILED	10146		10		
		62	0	"	"	25	"	"	14501	15013	512	"	6	6
		13	25	"	"	25	125	1.49	FAILED	4021		"		
		14	25	"	"	40	"	"	FAILED	2086		"		
		37	40	"	"	15	160	1.45	FAILED	6064		"		
		38	40	"	"	25	"	"	FAILED	1377		"		
		65	0	"	2.5	15	115	1.55	7122	7345	223	"	7	7
		66	0	"	"	25	"	"	FAILED	4414		"		
		17	25	"	"	25	125	1.49	FAILED	2985		"		
		18	25	"	"	40	"	"	FAILED	1550		"		
		41	40	"	"	15	160	1.45	FAILED	1689		"		
		42	40	"	"	25	"	"	FAILED	4133		"		
G. E. (pages 97-102)	12	110	0	"	1.0	15	115	1.55	14621	15101	480	"	5	5
		124	0	"	"	25	"	"	14247	14727	480	5	4	4
		82	25	"	"	25	125	1.49	FAILED	10878		"		
		96	25	"	"	40	"	"	FAILED	4020		"		
		85	40	"	"	15	160	1.45	FAILED	9710		"		
		99	40	"	"	25	"	"	FAILED	4853		"		
		111	0	"	2.5	15	115	1.55	7201	7455	254	"	5	5
		125	0	"	"	25	"	"	7206	7460	254	"	5	5
		83	25	"	"	25	125	1.49	7305	7559	254	"	5	5
		97	25	"	"	40	"	"	FAILED	5002		"		
		86	40	"	"	15	160	1.45	7100	7354	254	"	5	5
		100	40	"	"	25	"	"	FAILED	4424		"		
GOULD (pages 103-105)	20	84	0	"	1.0	15	115	1.55	14522	15034	512	"	5	5
		98	0	"	"	25	"	"	FAILED	10641		"		
		104	25	"	"	25	125	1.49	FAILED	2980		"		
		118	25	"	"	40	"	"	FAILED	2937		"		
		112	40	"	"	15	160	1.45	FAILED	5213		"		
		126	40	"	"	25	"	1.45	FAILED	1569		"		
		80	0	"	2.5	15	115	1.55	7267	7498	231	"	5	5
		94	0	"	"	25	"	"	7151	7375	224	"	5	5
		105	25	"	"	25	125	1.49	FAILED	5690		"		
		119	25	"	"	40	"	"	FAILED	1794		"		
		108	40	"	"	15	160	1.45	FAILED	4233		"		
		122	40	"	"	25	"	1.45	FAILED	993		"		

MFR.	CAP. (AH)	PACK NO.	TEMP. °C	ORBIT PERIOD (HRS) DISCH.	ORBIT PERIOD (HRS) CHG.	PERCENT DEPTH OF DISCH.	PERCENT OF RECHG.	CHG. VOLT LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFF	CELLS IN PACK INITIAL	CELLS IN PACK THIS MONTH START	CELLS IN PACK THIS MONTH END
GULTON Pages 106-107	20	101	0	0.5	1.0	15	115	1.55	FAILED	3631		5		
		115	0	"	"	25	"	"	FAILED	2291		"		
		73	25	"	"	25	125	1.49	FAILED	7763		"		
		87	25	"	"	40	"	"	FAILED	627		"		
		76	40	"	"	15	160	1.45	FAILED	9348		"		
		90	40	"	"	25	"	"	FAILED	4045		"		
		102	0	"	2.5	15	115	1.55	7095	7326	231	"	4	4
		116	0	"	"	25	"	"	6939	7146	207	"	5	5
		74	25	"	"	25	125	1.49	FAILED	1755		"		
		88	25	"	"	40	"	"	FAILED	359		"		
		77	40	"	"	15	160	1.45	FAILED	6032		"		
		91	40	"	"	25	"	"	FAILED	4490		"		

MFR.	CAP. (AH)	PACK NO.	TEMP. °C	ORBIT PERIOD (HRS) DISCH.	ORBIT PERIOD (HRS) CHG.	PERCENT DEPTH OF DISCH.	PERCENT OF RECHG. (1)	CHG. VOLT LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFF	CELLS IN PACK INITIAL	CELLS IN PACK THIS MONTH START	CELLS IN PACK THIS MONTH END
Gulton Pages 108-111	1.25	174	-20	0.5	1.0	25	*	*	2452	2882	430	5.0	5	5
		388	-20	0.5	1.0	60/25	*	*	1898	2281	383	5.0	4	4
		308	0	0.5	1.0	25	*	*	2722	3185	463	5.0	5	5
		198	0	0.5	1.0	60	*	*	2722	3185	463	5.0	5	5
Gulton (SHERFEY) Page	3.6		25	0.5	1.0	40	60	*	FAILED	5505		10		
Gulton (Coulometer) Page 112	3.6	239	25	0.5	1.0	40	*	1.48	4238	4684	446	10	9	9
Gulton (Commercial) Page 113-116	4.0	315	0	0.5	1.0	15	115	1.55	11359	11789	430	5	5	5
		326	0	0.5	1.0	25	115	1.55	11771	12283	512	5	5	5
		204	25	0.5	1.0	25	125	1.49	11575	12069	494	5	5	5
		214	25	0.5	1.0	40	125	1.49	FAILED	8474		5		
		228	40	0.5	1.0	15	160	1.45	11484	11963	479	5	5	5
		240	40	0.5	1.0	25	160	1.45	FAILED	10359		5		
Gulton (NIMBUS) Pages 117-121	5.0	117	0	0.5	1.0	15	110	1.49	7319	7782	463	5	5	5
		121	0	0.5	1.0	25	110	1.49	6793	7222	429	5	4	4
		120	25	0.5	1.0	15	120	1.49	7444	7874	430	5	5	5
		318	25	0.5	1.0	25	120	1.49	6818	7248	430	5	4	4
		127	40	0.5	1.0	15	130	1.49	7365	7649	284	5	4	4
		128	40	0.5	1.0	25	130	1.49	FAILED	6344		5		
Gulton (FOLDED SEAL) Pages 122-125	5.6	244	-20	0.5	1.0	25	115	1.55	3681	4111	430	5	5	5
		200	0	0.5	1.0	25	115	1.55	3832	4328	496	5	5	5
		276	25	0.5	1.0	25	125	1.49	3905	4368	463	5	4	4
		242	40	0.5	1.0	25	160	1.45	3773	3798	25	5	4	3
GULTON (NoNFolded SEAL) Pages 126-129	5.6	232	-20	0.5	1.0	25	115	1.55	3642	4105	463	5	5	5
		390	0	0.5	1.0	25	115	1.55	3896	4393	497	5	5	5
		396	25	0.5	1.0	25	125	1.49	3994	4424	430	5	4	4
		230	40	0.5	1.0	25	160	1.45	FAILED	1275		5		
Gulton	6.0	79	25	1.0	23.0	50	200	1.49	Failed	545		5		
Gulton (HSI) Pages 129	6.0	213	0	0.5	1.0	25	115	1.55	8437	8899	462	5	5	5
		218	25	0.5	1.0	40	125	1.49	FAILED	7577		5		
		238	40	0.5	1.0	25	160	1.45	FAILED	5766		5		

*Does Not Apply

(1) Actual percent of recharge may be lower due to voltage limit.

MFR.	CAP. (AH)	PACK NO.	TEMP. °C	ORBIT PERIOD (HRS) DISCH.	ORBIT PERIOD (HRS) CHG.	PERCENT DEPTH OF DISCH.	PERCENT OF RECHG.(1)	CHG. VOLT LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFF	CELLS IN PACK INITIAL	CELLS IN PACK THIS MONTH START	CELLS IN PACK THIS MONTH END
Gulton (Third Electrode) Pages 130 - 132a	6.0	59	0	0.5	1.0	25	*	*	7208	7638	430	5	4	4
		71	0	0.5	1.0	40	*	*	FAILED	5753		5		
		23	25	0.5	1.0	25	*	*	8347	8849	502	5	5	5
		11	25	0.5	1.0	40	*	*	FAILED	7743		5		
		35	40	0.5	1.0	15	*	*	6541	6987	446	5	5	5
		47	40	0.5	1.0	25	*	*	FAILED	5521		5		
Gulton Pages 133-136	12.0	216	0	0.5	1.0	15	115	1.55	8510	9004	494	5	5	5
		301	0	0.5	1.0	25	115	1.55	9378	9841	463	5	4	4
		227	25	0.5	1.0	25	125	1.49	8689	9168	479	5	5	5
		296	25	0.5	1.0	40	125	1.49	Failed	5152		5		
		78	40	0.5	1.0	15	160	1.45	9348	9827	479	5	4	4
		290	40	0.5	1.0	25	160	1.45	Failed	5124		5		
Gulton	50.0	95	0	0.5	1.0	25	115	1.55	Failed	3227		5		
		123	40	0.5	1.0	15	160	1.45	Failed	1874		5		
Yardney	12.0	57	0	1.0	23.0	50	*	1.50	Failed	166		10		
		33	40	1.0	23.0	50	*	1.50	Failed	210		10		
Yardney Pages 137-138	5.0	257	0	1.0	23.0	20	*	1.50	Failed	266		5		
		409	25	1.0	23.0	20	*	1.50	Failed	34		5		
		21	25	1.0	23.0	20	*	1.50	Failed	98		5		
		69	25	1.0	23.0	20	*	1.50	294	325	31	5	5	5
		45	40	1.0	23.0	20	*	1.50	Failed	61		5		
		233	25	1.0	23.0	20	*	1.50	294	325	31	5	5	5
Yardney Pages 139-140	12.0	185	-20	0.5	1.0	25	130	1.60	Discontinued 210			5		
		197	0	0.5	1.0	25	130	1.58	2526	2972	446	5	5	5
		182	25	0.5	1.0	25	130	1.55	3374	3853	479	5	5	5
Yardney Limited Electrolyte	12	9	25	1.0	23.0	42	*	1.97	Failed	57		10		
DELCO	25.0	609	25	1.0	23.0	40	*	1.97	Failed	119		10		
		75	25	1.0	23.0	40	*	1.97	Failed	32		5		
		89	25	1.0	23.0	40	*	1.97	Failed	80		5		
		288	25	0.5	2.5	40	*	1.97	Discontinued 120			5		
NaOH		188	25	0.5	2.5	40	*	1.97	Failed	325		5		
DELCO	40	275	25	1.0	23.0	25	*	1.97	Discontinued 139			5		

* Does Not Apply
(1) Actual percent of recharge may be lower due to voltage limit.

MFR.	CAP. (AH)	PACK NO.	TEMP. °C	ORBIT PERIOD (HRS) DISCH.	ORBIT PERIOD (HRS) CHG.	PERCENT DEPTH OF DISCH.	PERCENT OF RECHG.(1)	CHG. VOLT LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFF	CELLS IN PACK INITIAL	CELLS IN PACK THIS MONTH START	CELLS IN PACK THIS MONTH END
G. E. (NIMBUS) Pages 141-145	5.0	103	0	0.5	1.0	15	110	1.49	7525	7988	463	5	5	5
		107	0	0.5	1.0	25	110	1.49	6833	7327	494	5	5	5
		106	25	0.5	1.0	15	120	1.49	7532	8011	479	5	5	5
		304	25	0.5	1.0	25	120	1.49	6813	7292	479	5	4	4
		113	40	0.5	1.0	15	130	1.49	FAILED	4998		5		
		114	40	0.5	1.0	25	130	1.49	6567	7046	479	5	3	3
G. E.	12.0	93	25***	1.0	23.0	50	200***	1.49**	Failed	349		5		
G. E. (Third Electrode) Pages 146-147a	12.0	60	0	0.5	1.0	25	*	*	4811	5322	511	5	5	5
		12	25	0.5	1.0	25	*	*	Discontinued	1699		5		
		24	25	0.5	1.0	40	*	*	Discontinued	665		5		
		48	40/0	0.5	1.0	25/40	*	*	4325	4836	511	5	5	5
G.E. •Gulton (Coulometer) Page 148	6.0	338	40	0.5	1.0	40	*	1.41	3828	4059	231	11	8	0
Sonotone (Triple Seal) Pages 149-152	3.6	243	0	0.5	1.0	15	115	1.55	6192	6661	469	5	5	5
		231	0	0.5	1.0	25	115	1.55	6207	6686	479	5	5	5
		203	25	0.5	1.0	25	125	1.49	6530	7009	479	5	5	5
		202	25	0.5	1.0	40	125	1.49	FAILED	5399		5		
		226	40	0.5	1.0	15	160	1.45	5879	6226	347	5	5	4
		237	40	0.5	1.0	25	160	1.45	—	—	—	5		
Sonotone (Coulometer) Page 153	5.0		25	0.5	1.0	30	*	1.60	10396	10895	499	5	5	5
Sonotone (STABISTOR) Pages 154-155	5.0	175	-20	0.5	1.0	25	*	*	FAILED	2145		5		
		289	-20	0.5	1.0	40	*	*	FAILED	1530		5		
		92	0	0.5	1.0	25	*	*	5455	5788	333	5	5	4
		322	0	0.5	1.0	40	*	*	4831	5190	359	5	3	0
		273	25	0.5	1.0	25	*	*	FAILED	3742		5		
		287	25	0.5	1.0	40	*	*	FAILED	2393		5		
		299	40	0.5	1.0	25	*	*	FAILED	4339		5		
		312	40	0.5	1.0	40	*	*	Failed	3262		5		

* Does Not Apply
** CHANGED TO 40°C, 1.45 V/Cell Limmit After Cycle 173
*** INCREASED To 250% After Cycle 266
(1) Actual percent of recharge may be lower due to voltage limit.

MFR.	CAP. (AH)	PACK NO.	TEMP. °C	ORBIT PERIOD (HRS) DISCH.	ORBIT PERIOD (HRS) CHG.	PERCENT DEPTH OF DISCH.	PERCENT OF RECHG.	CHG. VOLT LIMIT	CYCLES COVERED INITIAL	CYCLES COVERED FINAL	CYCLES COVERED DIFF	CELLS IN PACK INITIAL	CELLS IN PACK THIS MONTH START	CELLS IN PACK THIS MONTH END
E.S.B. 3rd Electrode (Page 156)	8	201	25	1.0	7.0	25%	175%	1.54	0	46	46	5	5	5
Yardney (Fr #1) (Page 157)	3	402	25	0.5	1.0	16	260%	1.55	0	163	163	9	9	9

PACK NO. 63 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
G.E. 3 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 0.90	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
14940.	11.43	.90	1.29	1.30	1.29	1.24	1.27	.00	1.27	1.28	1.29	1.27	END OF DISCHARGE
14972.	11.39	.90	1.28	1.29	1.28	1.24	1.27	.00	1.26	1.27	1.29	1.27	
15036.	11.28	.89	1.27	1.28	1.27	1.21	1.26	.00	1.25	1.26	1.28	1.26	
15069.	11.28	.89	1.27	1.28	1.27	1.21	1.26	.00	1.25	1.26	1.28	1.26	
15100.	11.26	.89	1.27	1.28	1.27	1.21	1.26	.00	1.25	1.26	1.27	1.26	
15132.	11.24	.89	1.29	1.29	1.30	1.23	1.29	.00	1.27	1.28	1.28	1.29	
15163.	11.18	.90	1.26	1.26	1.27	1.19	1.25	.00	1.24	1.25	1.26	1.24	
15196.	11.23	.90	1.26	1.27	1.26	1.20	1.26	.00	1.24	1.25	1.25	1.25	
15227.	11.23	.90	1.27	1.27	1.27	1.20	1.26	.00	1.25	1.26	1.27	1.26	
15260.	11.14	.90	1.27	1.27	1.28	1.20	1.27	.00	1.25	1.26	1.26	1.26	
15292.	11.11	.90	1.25	1.26	1.26	1.18	1.25	.00	1.24	1.25	1.26	1.24	
15323.	11.07	.90	1.25	1.25	1.25	1.17	1.24	.00	1.23	1.24	1.26	1.24	
15355.	11.05	.90	1.24	1.24	1.25	1.16	1.23	.00	1.22	1.23	1.26	1.23	
15388.	11.06	.90	1.25	1.25	1.26	1.17	1.24	.00	1.23	1.24	1.26	1.24	
		.52											
14940.	13.30	.52	1.47	1.48	1.46	1.62	1.47	.00	1.47	1.44	1.48	1.44	END OF CHARGE
14972.	14.92	.51	1.70	1.58	1.69	1.69	1.70	.00	1.63	1.67	1.64	1.66	
15036.	14.87	.51	1.69	1.57	1.68	1.69	1.70	.00	1.62	1.66	1.63	1.65	
15069.	14.83	.51	1.69	1.57	1.68	1.69	1.70	.00	1.62	1.64	1.63	1.64	
15100.	14.83	.51	1.69	1.57	1.68	1.69	1.70	.00	1.61	1.64	1.63	1.64	
15132.	14.76	.51	1.69	1.57	1.69	1.70	1.71	.00	1.62	1.65	1.61	1.65	
15163.	14.99	.51	1.71	1.57	1.70	1.72	1.73	.00	1.63	1.66	1.63	1.66	
15196.	14.78	.51	1.69	1.56	1.67	1.67	1.70	.00	1.61	1.64	1.59	1.63	
15227.	14.15	.36	1.60	1.53	1.60	1.61	1.60	.00	1.57	1.55	1.57	1.56	
15260.	14.30	.29	1.63	1.52	1.63	1.63	1.68	.00	1.56	1.56	1.57	1.58	
15292.	14.34	.27	1.65	1.52	1.62	1.63	1.69	.00	1.56	1.57	1.57	1.58	
15323.	13.93	.22	1.59	1.49	1.57	1.58	1.64	.00	1.52	1.53	1.53	1.54	
15355.	13.89	.21	1.59	1.49	1.57	1.58	1.65	.00	1.52	1.52	1.51	1.54	
15388.	13.92	.21	1.60	1.48	1.57	1.57	1.65	.00	1.52	1.52	1.52	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	
15224.	12.14	1.51	1.23	1.24	1.22	1.22	1.23	1.22	1.21	1.21	1.24	1.20	END OF
15256.	12.11	1.51	1.22	1.23	1.22	1.22	1.22	1.21	1.21	1.21	1.23	1.20	DISCHARGE
15288.	12.09	1.51	1.22	1.23	1.22	1.22	1.22	1.21	1.20	1.21	1.23	1.20	
15320.	12.05	1.51	1.21	1.22	1.21	1.22	1.21	1.21	1.20	1.20	1.23	1.19	
15352.	12.09	1.51	1.22	1.23	1.22	1.22	1.22	1.21	1.20	1.21	1.23	1.20	
15384.	12.07	1.51	1.22	1.22	1.22	1.22	1.21	1.21	1.20	1.20	1.23	1.19	
15416.	12.07	1.50	1.24	1.24	1.24	1.25	1.25	1.24	1.22	1.23	1.23	1.23	
15448.	12.07	1.52	1.21	1.22	1.22	1.22	1.21	1.21	1.21	1.21	1.21	1.19	
15480.	12.04	1.51	1.21	1.22	1.21	1.21	1.21	1.20	1.20	1.20	1.20	1.19	
15512.	12.05	1.51	1.22	1.22	1.21	1.22	1.22	1.21	1.20	1.21	1.21	1.19	
15544.	12.08	1.51	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.21	1.23	1.20	
15577.	11.99	1.51	1.21	1.21	1.21	1.21	1.21	1.20	1.20	1.20	1.22	1.19	
15607.	12.07	1.52	1.22	1.23	1.21	1.21	1.22	1.21	1.21	1.21	1.23	1.20	
15640.	12.07	1.52	1.22	1.22	1.21	1.21	1.21	1.20	1.20	1.20	1.24	1.19	
15672.	12.05	1.51	1.22	1.22	1.22	1.21	1.22	1.20	1.20	1.21	1.23	1.19	
		.86											
15224.	15.70	.54	1.53	1.56	1.65	1.68	1.53	1.60	1.53	1.55	1.60	1.54	END OF
15256.	15.69	.51	1.53	1.55	1.65	1.69	1.52	1.60	1.55	1.53	1.58	1.53	CHARGE
15288.	15.67	.53	1.53	1.54	1.65	1.69	1.52	1.60	1.53	1.54	1.58	1.53	
15320.	15.76	.47	1.52	1.56	1.65	1.68	1.55	1.60	1.55	1.55	1.59	1.55	
15352.	14.68	.86	1.46	1.46	1.50	1.50	1.45	1.51	1.47	1.43	1.48	1.44	
15384.	15.69	.51	1.53	1.55	1.66	1.68	1.52	1.60	1.53	1.54	1.58	1.54	
15416.	15.65	.54	1.54	1.55	1.67	1.70	1.55	1.62	1.52	1.55	1.56	1.55	
15448.	15.71	.52	1.49	1.53	1.66	1.69	1.53	1.60	1.55	1.54	1.57	1.53	
15480.	15.64	.52	1.52	1.53	1.65	1.69	1.52	1.59	1.52	1.53	1.54	1.52	
15512.	15.64	.48	1.52	1.54	1.65	1.68	1.53	1.59	1.51	1.55	1.54	1.53	
15544.	15.73	.52	1.53	1.55	1.66	1.69	1.54	1.60	1.54	1.57	1.58	1.54	
15577.	15.76	.44	1.52	1.57	1.64	1.67	1.55	1.59	1.55	1.57	1.58	1.57	
15607.	15.71	.49	1.53	1.56	1.64	1.68	1.54	1.59	1.54	1.55	1.57	1.54	
15640.	15.69	.51	1.53	1.56	1.66	1.69	1.54	1.61	1.55	1.56	1.56	1.55	
15672.	15.71	.49	1.53	1.54	1.66	1.70	1.53	1.60	1.52	1.55	1.58	1.54	

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

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 0.90	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
7453.	12.53	.86	1.26	1.27	1.24	1.27	1.26	1.26	1.26	1.25	1.28	1.25	END OF
7485.	12.47	.91	1.25	1.27	1.23	1.26	1.26	1.26	1.25	1.24	1.27	1.24	DISCHARGE
7517.	12.46	.91	1.25	1.26	1.24	1.26	1.26	1.25	1.24	1.24	1.26	1.24	
7551.	12.48	.91	1.26	1.26	1.23	1.27	1.26	1.26	1.25	1.24	1.27	1.24	
7580.	12.45	.90	1.25	1.26	1.23	1.26	1.25	1.25	1.24	1.23	1.25	1.24	
7613.	12.48	.90	1.25	1.27	1.25	1.27	1.26	1.26	1.25	1.24	1.27	1.24	
7644.	12.39	.91	1.25	1.25	1.23	1.26	1.25	1.25	1.24	1.23	1.26	1.23	
7676.	12.39	.92	1.24	1.26	1.23	1.25	1.26	1.25	1.24	1.23	1.26	1.23	
		.21											
7453.	15.64	.08	1.61	1.49	1.46	1.63	1.62	1.60	1.57	1.56	1.58	1.57	END OF
7485.	15.64	.10	1.56	1.50	1.48	1.63	1.63	1.60	1.55	1.57	1.56	1.58	CHARGE
7517.	15.61	.11	1.56	1.49	1.49	1.62	1.63	1.61	1.53	1.58	1.54	1.57	
7551.	15.60	.10	1.60	1.49	1.48	1.61	1.62	1.59	1.56	1.57	1.55	1.57	
7580.	15.54	.10	1.58	1.48	1.47	1.60	1.62	1.59	1.51	1.56	1.53	1.56	
7613.	15.62	.12	1.57	1.50	1.50	1.62	1.64	1.61	1.53	1.58	1.52	1.58	
7644.	15.61	.12	1.59	1.50	1.49	1.62	1.64	1.61	1.56	1.56	1.53	1.56	
7676.	15.55	.12	1.56	1.50	1.49	1.60	1.63	1.61	1.53	1.57	1.53	1.56	

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	
7340.	10.80	1.51	1.22	1.21	1.21	1.23	1.20	1.21	1.21	1.20	.00	1.21	END OF
7372.	10.77	1.50	1.19	1.20	1.20	1.22	1.20	1.21	1.21	1.19	.00	1.20	DISCHARGE
7404.	10.74	1.51	1.19	1.20	1.20	1.21	1.19	1.20	1.20	1.19	.00	1.20	
7493.	11.15	1.52	1.24	1.24	1.25	1.26	1.24	1.25	1.25	1.24	.00	1.25	
7525.	10.96	1.52	1.21	1.22	1.22	1.24	1.22	1.22	1.23	1.22	.00	1.23	
7556.	10.92	1.52	1.21	1.22	1.21	1.24	1.22	1.22	1.23	1.22	.00	1.22	
		.34											
7340.	13.84	.07	1.61	1.63	1.52	1.52	1.52	1.54	1.52	1.55	.00	1.48	END OF
7372.	13.96	.10	1.63	1.65	1.52	1.53	1.53	1.56	1.54	1.56	.00	1.49	CHARGE
7404.	14.26	.11	1.66	1.66	1.55	1.58	1.57	1.59	1.55	1.60	.00	1.50	
7493.	13.21	.27	1.50	1.49	1.45	1.50	1.47	1.48	1.47	1.47	.00	1.46	
7525.	13.59	.11	1.56	1.59	1.42	1.54	1.50	1.51	1.48	1.55	.00	1.45	
7556.	13.75	.08	1.61	1.62	1.43	1.56	1.52	1.53	1.49	1.58	.00	1.46	

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	
7426.	11.88	1.49	1.19	1.20	1.19	1.21	1.20	1.20	1.18	1.18	1.21	1.19	END OF
7458.	11.84	1.48	1.18	1.20	1.19	1.20	1.19	1.20	1.18	1.18	1.21	1.18	DISCHARGE
7490.	11.82	1.51	1.18	1.19	1.19	1.20	1.19	1.19	1.17	1.17	1.20	1.18	
7524.	11.77	1.50	1.17	1.19	1.18	1.20	1.18	1.19	1.16	1.17	1.20	1.17	
7554.	11.65	1.50	1.15	1.17	1.16	1.19	1.17	1.17	1.14	1.16	1.16	1.17	
7586.	12.03	1.52	1.22	1.22	1.22	1.22	1.22	1.20	1.21	1.19	1.22	1.20	
7618.	11.90	1.52	1.20	1.21	1.19	1.20	1.20	1.19	1.19	1.18	1.20	1.19	
7649.	11.83	1.54	1.20	1.20	1.19	1.20	1.20	1.19	1.18	1.17	1.18	1.18	
		.38											
7426.	14.80	.15	1.46	1.48	1.45	1.49	1.49	1.52	1.45	1.50	1.52	1.50	END OF
7458.	14.95	.14	1.47	1.50	1.46	1.50	1.51	1.53	1.46	1.51	1.54	1.52	CHARGE
7490.	14.98	.31	1.47	1.49	1.47	1.50	1.50	1.53	1.46	1.52	1.53	1.52	
7524.	14.86	.16	1.46	1.48	1.45	1.50	1.50	1.52	1.45	1.51	1.52	1.51	
7554.	15.13	.23	1.46	1.49	1.45	1.53	1.50	1.57	1.45	1.56	1.52	1.55	
7586.	15.12	.37	1.54	1.54	1.51	1.49	1.55	1.50	1.53	1.49	1.56	1.50	
7618.	14.65	.37	1.50	1.49	1.47	1.44	1.48	1.44	1.46	1.44	1.49	1.45	
7649.	14.59	.38	1.49	1.48	1.48	1.44	1.47	1.45	1.46	1.45	1.49	1.45	

PACK NO. 51 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
GOULD 3.5 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.05	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
15099.	11.15	1.06	1.25	1.24	1.22	1.28	1.24	1.25	1.24	1.23	1.28	.00	END OF
15131.	11.09	1.07	1.25	1.24	1.22	1.27	1.23	1.24	1.24	1.22	1.27	.00	DISCHARGE
15163.	11.07	1.06	1.25	1.24	1.22	1.26	1.23	1.24	1.23	1.23	1.27	.00	
15195.	11.09	1.06	1.25	1.24	1.22	1.25	1.23	1.25	1.23	1.23	1.27	.00	
15228.	11.17	1.06	1.25	1.24	1.22	1.29	1.24	1.25	1.23	1.24	1.28	.00	
15259.	11.14	1.06	1.25	1.24	1.22	1.28	1.23	1.25	1.23	1.23	1.27	.00	
15291.	11.09	1.07	1.27	1.25	1.25	1.30	1.26	1.27	1.26	1.23	1.27	.00	
15322.	10.95	1.07	1.24	1.22	1.21	1.24	1.22	1.22	1.21	1.21	1.24	.00	
15355.	11.06	1.06	1.24	1.23	1.21	1.24	1.23	1.23	1.23	1.22	1.23	.00	
15386.	11.07	1.06	1.25	1.23	1.22	1.26	1.23	1.23	1.24	1.23	1.26	.00	
15419.	11.12	1.07	1.26	1.24	1.24	1.28	1.25	1.24	1.24	1.25	1.27	.00	
15451.	11.03	1.06	1.25	1.23	1.22	1.23	1.23	1.24	1.23	1.22	1.26	.00	
15482.	11.13	1.06	1.25	1.24	1.22	1.25	1.24	1.25	1.24	1.25	1.27	.00	
15514.	11.11	1.06	1.24	1.23	1.22	1.25	1.23	1.23	1.23	1.23	1.26	.00	
15547.	11.11	1.05	1.25	1.23	1.23	1.27	1.24	1.25	1.24	1.25	1.26	.00	
		.60											
15099.	13.94	.61	1.57	1.60	1.61	1.50	1.56	1.55	1.57	1.50	1.56	.00	END OF
15131.	13.87	.61	1.57	1.60	1.61	1.49	1.55	1.53	1.57	1.46	1.56	.00	CHARGE
15163.	14.07	.60	1.60	1.63	1.63	1.50	1.56	1.55	1.60	1.51	1.59	.00	
15195.	14.15	.57	1.57	1.59	1.60	1.48	1.62	1.65	1.61	1.55	1.54	.00	
15228.	14.04	.60	1.57	1.60	1.60	1.51	1.57	1.58	1.58	1.53	1.56	.00	
15259.	13.99	.58	1.57	1.60	1.61	1.50	1.55	1.61	1.57	1.49	1.55	.00	
15291.	13.96	.60	1.58	1.60	1.62	1.51	1.57	1.61	1.58	1.47	1.54	.00	
15322.	14.14	.50	1.57	1.59	1.61	1.47	1.61	1.65	1.65	1.51	1.52	.00	
15355.	13.87	.55	1.56	1.59	1.59	1.48	1.57	1.55	1.58	1.48	1.49	.00	
15386.	13.81	.54	1.57	1.60	1.61	1.49	1.54	1.51	1.58	1.47	1.53	.00	
15419.	13.97	.60	1.58	1.60	1.62	1.50	1.57	1.53	1.58	1.51	1.57	.00	
15451.	14.17	.55	1.57	1.59	1.61	1.46	1.61	1.68	1.63	1.58	1.53	.00	
15482.	14.01	.56	1.57	1.60	1.60	1.48	1.58	1.59	1.58	1.54	1.55	.00	
15514.	13.96	.59	1.58	1.60	1.62	1.50	1.57	1.58	1.58	1.52	1.50	.00	
15547.	13.95	.60	1.57	1.60	1.61	1.50	1.55	1.59	1.58	1.53	1.51	.00	

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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	
7501.	12.51	1.05	1.26	1.26	1.26	1.25	1.25	1.25	1.24	1.25	1.28	1.25	END OF
7533.	12.54	1.05	1.26	1.27	1.27	1.26	1.25	1.25	1.25	1.25	1.28	1.26	DISCHARGE
7565.	12.51	1.06	1.26	1.26	1.27	1.25	1.24	1.24	1.24	1.25	1.27	1.25	
7599.	12.48	1.07	1.26	1.26	1.26	1.25	1.24	1.24	1.24	1.24	1.27	1.25	
7629.	12.41	1.07	1.24	1.25	1.25	1.24	1.24	1.23	1.23	1.23	1.24	1.24	
7693.	12.47	1.06	1.26	1.26	1.26	1.25	1.25	1.24	1.25	1.25	1.27	1.25	
		.24											
7501.	15.02	.20	1.51	1.53	1.50	1.50	1.50	1.48	1.49	1.54	1.53	1.49	END OF
7533.	15.48	.18	1.54	1.63	1.54	1.55	1.54	1.53	1.53	1.55	1.57	1.53	CHARGE
7565.	15.42	.24	1.54	1.60	1.55	1.55	1.54	1.53	1.52	1.54	1.56	1.52	
7599.	15.43	.21	1.55	1.60	1.55	1.55	1.54	1.52	1.52	1.56	1.56	1.52	
7629.	15.45	.24	1.54	1.59	1.55	1.55	1.54	1.52	1.52	1.56	1.52	1.52	
7693.	15.39	.24	1.54	1.58	1.54	1.55	1.54	1.53	1.52	1.54	1.56	1.52	

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PACK NO. 56 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GOULD 3.5 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.75	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
7478.	12.01	1.77	1.20	1.21	1.21	1.22	1.20	1.20	1.20	1.20	1.22	1.20	END OF
7510.	11.98	1.74	1.20	1.21	1.20	1.21	1.20	1.20	1.19	1.19	1.22	1.20	DISCHARGE
7512.	12.02	1.76	1.20	1.21	1.22	1.22	1.20	1.19	1.20	1.20	1.21	1.20	
7576.	12.10	1.76	1.21	1.22	1.22	1.22	1.21	1.20	1.21	1.21	1.22	1.21	
7605.	12.05	1.75	1.21	1.21	1.21	1.22	1.21	1.19	1.20	1.20	1.21	1.20	
7638.	12.06	1.76	1.21	1.21	1.22	1.22	1.21	1.20	1.21	1.20	1.22	1.21	
7669.	12.01	1.77	1.20	1.21	1.21	1.21	1.20	1.19	1.20	1.20	1.22	1.20	
7701.	11.98	1.77	1.20	1.20	1.20	1.21	1.20	1.19	1.20	1.20	1.21	1.20	
		.40											
7478.	15.25	.20	1.53	1.54	1.50	1.57	1.53	1.54	1.49	1.51	1.56	1.53	END OF
7510.	15.30	.19	1.54	1.55	1.49	1.58	1.54	1.54	1.49	1.51	1.57	1.54	CHARGE
7512.	15.29	.21	1.53	1.54	1.50	1.57	1.54	1.54	1.50	1.50	1.56	1.53	
7576.	15.30	.21	1.53	1.54	1.50	1.59	1.54	1.54	1.50	1.50	1.56	1.53	
7605.	15.30	.21	1.53	1.54	1.49	1.58	1.54	1.53	1.50	1.50	1.55	1.53	
7638.	15.42	.23	1.55	1.55	1.51	1.59	1.55	1.55	1.52	1.52	1.57	1.54	
7669.	15.39	.22	1.55	1.55	1.50	1.59	1.55	1.55	1.52	1.52	1.57	1.54	
7701.	15.32	.22	1.54	1.54	1.49	1.58	1.54	1.54	1.51	1.51	1.56	1.53	

PACK NO. 49 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
SONOTONE 5 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
14867.	9.76	1.52	1.21	1.23	.00	1.21	1.21	1.23	1.24	1.23	.00	1.23	END OF
14898.	9.74	1.53	1.21	1.22	.00	1.21	1.21	1.23	1.24	1.23	.00	1.23	DISCHARGE
14931.	9.70	1.53	1.21	1.22	.00	1.20	1.21	1.22	1.24	1.23	.00	1.22	
14963.	9.63	1.52	1.20	1.21	.00	1.19	1.20	1.21	1.22	1.22	.00	1.21	
14995.	9.71	1.52	1.21	1.22	.00	1.20	1.20	1.22	1.23	1.23	.00	1.22	
15027.	9.72	1.52	1.21	1.22	.00	1.20	1.21	1.22	1.23	1.23	.00	1.22	
15059.	9.70	1.51	1.23	1.24	.00	1.24	1.24	1.25	1.26	1.25	.00	1.27	
15123.	9.65	1.50	1.20	1.21	.00	1.19	1.20	1.21	1.22	1.22	.00	1.21	
15155.	9.69	1.51	1.20	1.21	.00	1.20	1.20	1.22	1.23	1.22	.00	1.22	
15187.	9.72	1.51	1.21	1.22	.00	1.21	1.21	1.22	1.24	1.23	.00	1.23	
15219.	9.61	1.50	1.20	1.20	.00	1.19	1.20	1.21	1.22	1.22	.00	1.21	
15250.	9.71	1.51	1.21	1.22	.00	1.20	1.21	1.22	1.24	1.23	.00	1.23	
15283.	9.70	1.51	1.21	1.21	.00	1.20	1.21	1.22	1.23	1.23	.00	1.23	
15315.	9.70	1.50	1.21	1.22	.00	1.20	1.21	1.22	1.24	1.23	.00	1.22	
		.86											
14867.	12.59	.60	1.56	1.57	.00	1.57	1.56	1.64	1.58	1.57	.00	1.56	END OF
14898.	12.58	.63	1.56	1.56	.00	1.57	1.56	1.63	1.59	1.57	.00	1.56	CHARGE
14931.	12.61	.60	1.56	1.57	.00	1.57	1.56	1.66	1.58	1.57	.00	1.56	
14963.	12.57	.50	1.60	1.57	.00	1.58	1.55	1.63	1.56	1.54	.00	1.56	
14995.	12.57	.54	1.55	1.57	.00	1.56	1.55	1.66	1.57	1.56	.00	1.56	
15027.	12.58	.56	1.55	1.56	.00	1.56	1.55	1.65	1.58	1.57	.00	1.56	
15059.	12.55	.59	1.56	1.56	.00	1.57	1.56	1.66	1.59	1.57	.00	1.57	
15123.	12.51	.55	1.55	1.55	.00	1.56	1.55	1.62	1.57	1.56	.00	1.55	
15155.	12.53	.52	1.56	1.56	.00	1.56	1.55	1.64	1.58	1.56	.00	1.55	
15187.	12.58	.56	1.57	1.56	.00	1.57	1.56	1.65	1.58	1.56	.00	1.56	
15219.	12.64	.47	1.61	1.56	.00	1.60	1.55	1.65	1.56	1.55	.00	1.58	
15250.	12.59	.56	1.56	1.56	.00	1.56	1.56	1.65	1.59	1.57	.00	1.56	
15283.	12.59	.57	1.56	1.56	.00	1.56	1.56	1.67	1.58	1.56	.00	1.56	
15315.	12.54	.53	1.55	1.56	.00	1.56	1.55	1.65	1.57	1.56	.00	1.56	

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	
14782.	9.06	2.52	1.02	.00	.01	1.02	.00	1.17	1.18	1.17	1.19	1.16	END OF
14814.	9.05	2.53	1.01	.00	.00	1.02	.00	1.17	1.18	1.17	1.19	1.16	DISCHARGE
14846.	9.01	2.52	1.00	.00	.01	.99	.00	1.17	1.18	1.17	1.20	1.16	
14878.	9.03	2.53	1.01	.00	.01	1.01	.00	1.17	1.18	1.17	1.19	1.16	
14909.	9.04	2.52	1.00	.00	.00	1.00	.00	1.17	1.18	1.17	1.19	1.16	
14942.	8.97	2.53	1.01	.00	.04	1.02	.00	1.20	1.20	1.19	1.19	1.20	
14974.	8.92	2.53	1.00	.00	.03	1.01	.00	1.20	1.20	1.19	1.19	1.20	
15007.	8.93	2.53	.97	.00	.00	.97	.00	1.16	1.17	1.16	1.16	1.15	
15039.	8.93	2.52	.97	.00	.00	.95	.00	1.16	1.17	1.16	1.17	1.15	
15070.	8.79	2.52	.93	.00	.00	.90	.00	1.16	1.17	1.16	1.17	1.15	
15102.	8.90	2.53	.96	.00	.00	.92	.00	1.17	1.18	1.17	1.18	1.16	
15134.	8.98	2.53	.99	.00	.01	.96	.00	1.17	1.18	1.17	1.18	1.17	
15167.	8.95	2.53	.99	.00	.00	.93	.00	1.17	1.19	1.18	1.18	1.17	
15231.	8.66	2.53	.94	.00	.00	.71	.00	1.17	1.18	1.17	1.17	1.16	
		1.44											
14782.	12.21	.62	1.53	.00	.01	1.52	.00	1.53	1.47	1.54	1.50	1.65	END OF
14814.	12.21	.62	1.53	.00	.00	1.52	.00	1.53	1.47	1.54	1.51	1.65	CHARGE
14846.	12.22	.63	1.54	.00	.00	1.52	.00	1.53	1.47	1.54	1.51	1.65	
14878.	12.24	.61	1.53	.00	.01	1.52	.00	1.53	1.47	1.54	1.51	1.65	
14909.	12.21	.64	1.53	.00	.00	1.52	.00	1.53	1.47	1.54	1.51	1.64	
14942.	12.18	.62	1.54	.00	.02	1.53	.00	1.53	1.48	1.55	1.48	1.66	
14974.	12.18	.61	1.54	.00	.01	1.53	.00	1.54	1.48	1.55	1.49	1.66	
15007.	12.21	.60	1.53	.00	.00	1.51	.00	1.52	1.47	1.54	1.47	1.64	
15039.	12.17	.64	1.53	.00	.01	1.51	.00	1.51	1.46	1.53	1.47	1.64	
15070.	12.17	.64	1.53	.00	.00	1.52	.00	1.52	1.47	1.54	1.47	1.64	
15102.	12.23	.64	1.54	.00	.01	1.52	.00	1.53	1.48	1.55	.00	1.65	
15134.	12.26	.62	1.54	.00	.01	1.52	.00	1.53	1.48	1.55	1.48	1.66	
15167.	12.24	.64	1.54	.00	.00	1.51	.00	1.52	1.48	1.54	1.48	1.66	
15231.	12.25	.63	1.54	.00	.01	1.50	.00	1.53	1.48	1.56	1.48	1.66	

PACK NO. 53 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
SONOTONE 5 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	
7342.	12.30	1.50	1.21	1.23	1.24	1.25	1.24	1.24	1.24	1.23	1.27	1.22	END OF
7374.	12.28	1.50	1.21	1.23	1.24	1.24	1.24	1.24	1.24	1.22	1.26	1.22	DISCHARGE
7406.	12.26	1.50	1.20	1.22	1.24	1.24	1.24	1.23	1.23	1.22	1.25	1.23	
7440.	12.28	1.50	1.21	1.23	1.24	1.25	1.24	1.23	1.23	1.22	1.25	1.23	
7470.	12.27	1.50	1.20	1.22	1.23	1.24	1.24	1.23	1.23	1.22	1.23	1.23	
7502.	12.34	1.50	1.21	1.23	1.25	1.25	1.25	1.24	1.24	1.23	1.27	1.24	
7534.	12.25	1.50	1.20	1.22	1.23	1.24	1.24	1.23	1.23	1.22	1.25	1.23	
7565.	12.19	1.50	1.20	1.22	1.23	1.24	1.24	1.22	1.23	1.21	1.22	1.23	
		.35											
7342.	15.69	.21	1.51	1.53	1.56	1.63	1.57	1.51	1.58	1.65	1.61	1.61	END OF
7374.	15.72	.23	1.51	1.52	1.57	1.63	1.57	1.51	1.57	1.66	1.61	1.62	CHARGE
7406.	15.68	.28	1.50	1.51	1.56	1.61	1.55	1.51	1.57	1.66	1.55	1.66	
7440.	16.01	.22	1.53	1.55	1.61	1.65	1.58	1.52	1.63	1.68	1.62	1.66	
7470.	15.73	.21	1.50	1.51	1.56	1.62	1.56	1.50	1.57	1.65	1.57	1.65	
7502.	15.74	.32	1.56	1.63	1.61	1.55	1.56	1.53	1.68	1.66	1.51	1.52	
7534.	15.82	.18	1.51	1.52	1.57	1.63	1.57	1.50	1.62	1.65	1.61	1.66	
7565.	15.62	.16	1.50	1.50	1.56	1.61	1.54	1.49	1.61	1.64	1.58	1.65	

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	
7322.	11.55	2.50	1.19	1.17	.91	1.16	1.20	1.20	1.18	1.19	1.22	1.20	END OF
7354.	11.48	2.50	1.18	1.16	.88	1.15	1.20	1.19	1.18	1.18	1.22	1.19	DISCHARGE
7386.	11.51	2.51	1.18	1.16	.90	1.15	1.20	1.19	1.17	1.18	1.21	1.19	
7420.	11.55	2.51	1.20	1.17	.90	1.16	1.20	1.20	1.18	1.19	1.22	1.19	
7449.	11.50	2.50	1.18	1.16	.88	1.15	1.20	1.19	1.17	1.18	1.20	1.19	
7482.	11.50	2.51	1.19	1.16	.89	1.15	1.20	1.19	1.18	1.19	1.22	1.20	
7513.	11.48	2.52	1.19	1.16	.88	1.15	1.20	1.19	1.17	1.18	1.22	1.19	
7545.	11.45	2.50	1.18	1.15	.88	1.15	1.20	1.19	1.17	1.18	1.22	1.19	
		.58											
7322.	15.50	.38	1.52	1.53	1.61	1.53	1.54	1.57	1.61	1.60	1.56	1.51	END OF
7354.	15.54	.36	1.52	1.52	1.61	1.53	1.54	1.57	1.61	1.61	1.56	1.51	CHARGE
7386.	15.54	.39	1.52	1.52	1.62	1.53	1.54	1.57	1.61	1.60	1.56	1.51	
7420.	15.54	.35	1.51	1.52	1.62	1.53	1.53	1.58	1.62	1.61	1.55	1.50	
7449.	15.49	.37	1.52	1.51	1.61	1.52	1.53	1.56	1.60	1.59	1.54	1.50	
7482.	15.57	.41	1.53	1.53	1.62	1.54	1.55	1.56	1.61	1.60	1.56	1.51	
7513.	15.58	.39	1.53	1.52	1.63	1.53	1.54	1.57	1.61	1.60	1.56	1.52	
7545.	15.56	.37	1.52	1.52	1.63	1.53	1.54	1.58	1.60	1.60	1.56	1.51	

PACK NO. 5 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
SONOTONE 5 A.H. PERCENT OF RECHARGE 125 ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
7213.	9.43	2.49	1.17	.00	.00	1.20	1.18	1.18	1.19	1.18	1.20	1.18	END OF
7245.	9.43	2.49	1.17	.00	.00	1.20	1.18	1.18	1.19	1.17	1.20	1.18	DISCHARGE
7311.	9.43	2.50	1.16	.00	.00	1.20	1.18	1.18	1.18	1.17	1.20	1.18	
7341.	9.34	2.48	1.15	.00	.00	1.18	1.17	1.16	1.17	1.16	1.16	1.17	
7373.	9.40	2.48	1.16	.00	.00	1.19	1.18	1.18	1.19	1.17	1.20	1.18	
7405.	9.38	2.48	1.15	.00	.00	1.19	1.18	1.17	1.18	1.17	1.19	1.18	
7436.	9.40	2.45	1.17	.00	.00	1.19	1.18	1.17	1.19	1.17	1.18	1.18	
		.62											
7213.	11.75	.62	1.46	.00	.00	1.46	1.46	1.56	1.45	1.44	1.49	1.44	END OF
7245.	11.81	.62	1.46	.00	.00	1.46	1.47	1.57	1.46	1.44	1.50	1.45	CHARGE
7311.	11.81	.63	1.46	.00	.00	1.47	1.47	1.57	1.46	1.44	1.50	1.45	
7341.	11.76	.62	1.45	.00	.00	1.46	1.46	1.56	1.45	1.43	1.45	1.44	
7373.	11.79	.59	1.46	.00	.00	1.46	1.47	1.58	1.45	1.44	1.50	1.45	
7405.	11.75	.58	1.45	.00	.00	1.46	1.46	1.56	1.45	1.44	1.49	1.44	
7436.	11.78	.59	1.46	.00	.00	1.46	1.47	1.57	1.45	1.44	1.50	1.45	

PACK NO. 62 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GULTON 6 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
14564.	6.97	3.05	1.19	1.00	1.15	.00	.00	1.16	.00	1.15	1.19	.00	END OF
14596.	6.96	3.05	1.19	1.17	1.14	.00	.00	1.16	.00	1.15	1.19	.00	DISCHARGE
14628.	6.99	3.05	1.19	1.18	1.16	.00	.00	1.17	.00	1.16	1.20	.00	
14660.	6.96	3.05	1.19	1.17	1.15	.00	.00	1.16	.00	1.15	1.20	.00	
14691.	6.96	3.05	1.19	1.17	1.15	.00	.00	1.16	.00	1.15	1.19	.00	
14724.	6.94	3.09	1.21	1.19	1.18	.00	.00	1.19	.00	1.18	1.19	.00	
14756.	6.94	3.01	1.21	1.19	1.17	.00	.00	1.00	.00	1.18	1.19	.00	
14789.	6.96	3.00	1.19	1.17	1.14	.00	.00	1.16	.00	1.15	1.18	.00	
14821.	6.98	3.00	1.19	1.17	1.15	.00	.00	1.16	.00	1.16	1.18	.00	
14852.	6.95	2.99	1.19	1.17	1.14	.00	.00	1.16	.00	1.15	1.19	.00	
14884.	6.98	3.00	1.20	1.17	1.14	.00	.00	1.17	.00	1.16	1.19	.00	
14916.	7.00	3.00	1.19	1.18	1.15	.00	.00	1.17	.00	1.17	1.19	.00	
14949.	6.99	3.00	1.20	1.18	1.15	.00	.00	1.17	.00	1.16	1.20	.00	
14980.	7.15	3.00	1.21	1.20	1.18	.00	.00	1.19	.00	1.19	1.21	.00	
15013.	6.96	3.01	1.19	1.17	1.14	.00	.00	1.16	.00	1.16	1.19	.00	
		1.72											
14564.	9.36	.73	1.57	1.62	1.57	.00	.00	1.57	.00	1.56	1.52	.00	END OF
14596.	9.37	.72	1.57	1.63	1.57	.00	.00	1.57	.00	1.56	1.51	.00	CHARGE
14628.	9.36	.72	1.57	1.64	1.57	.00	.00	1.57	.00	1.55	1.51	.00	
14660.	9.37	.72	1.57	1.63	1.57	.00	.00	1.58	.00	1.56	1.52	.00	
14691.	9.37	.75	1.57	1.63	1.57	.00	.00	1.57	.00	1.56	1.51	.00	
14724.	9.37	.72	1.57	1.63	1.58	.00	.00	1.58	.00	1.56	1.49	.00	
14756.	9.39	.66	1.56	1.65	1.58	.00	.00	1.58	.00	1.56	1.51	.00	
14789.	9.38	.66	1.55	1.65	1.56	.00	.00	1.57	.00	1.55	1.49	.00	
14821.	9.35	.69	1.56	1.63	1.57	.00	.00	1.56	.00	1.55	1.49	.00	
14852.	9.36	.66	1.56	1.63	1.57	.00	.00	1.57	.00	1.55	1.49	.00	
14884.	9.40	.68	1.56	1.67	1.57	.00	.00	1.57	.00	1.56	1.50	.00	
14916.	9.41	.68	1.56	1.66	1.58	.00	.00	1.58	.00	1.56	1.50	.00	
14949.	9.41	.71	1.56	1.65	1.57	.00	.00	1.58	.00	1.56	1.51	.00	
14980.	9.41	.67	1.56	1.65	1.57	.00	.00	1.58	.00	1.56	1.50	.00	
15013.	9.42	.66	1.56	1.68	1.57	.00	.00	1.00	.00	1.56	1.50	.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 1.8	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
7153.	8.56	1.81	1.24	1.25	1.23	.00	1.25	.00	1.20	.00	1.25	1.19	END OF
7185.	8.53	1.80	1.23	1.25	1.23	.00	1.24	.00	1.19	.00	1.25	1.19	DISCHARGE
7217.	8.53	1.81	1.23	1.24	1.23	.00	1.24	.00	1.19	.00	1.24	1.18	
7251.	8.40	1.80	1.22	1.23	1.22	.00	1.20	.00	1.17	.00	1.23	1.16	
7281.	8.51	1.81	1.23	1.24	1.23	.00	1.23	.00	1.19	.00	1.24	1.18	
7313.	8.58	1.82	1.24	1.25	1.25	.00	1.26	.00	1.20	.00	1.25	1.19	
7345.	8.53	1.82	1.23	1.24	1.23	.00	1.25	.00	1.19	.00	1.25	1.18	
		.41											
7153.	11.00	.33	1.57	1.55	1.56	.00	1.54	.00	1.67	.00	1.52	1.62	END OF
7185.	11.02	.30	1.59	1.54	1.56	.00	1.52	.00	1.67	.00	1.52	1.65	CHARGE
7217.	11.00	.35	1.59	1.54	1.57	.00	1.54	.00	1.68	.00	1.52	1.58	
7251.	10.64	.38	1.54	1.52	1.54	.00	1.39	.00	1.54	.00	1.54	1.59	
7281.	11.21	.36	1.65	1.55	1.62	.00	1.48	.00	1.68	.00	1.53	1.68	
7313.	10.77	.40	1.55	1.53	1.55	.00	1.52	.00	1.55	.00	1.55	1.56	
7345.	10.90	.30	1.58	1.53	1.55	.00	1.53	.00	1.66	.00	1.52	1.54	

PACK NO. 11[illegible] 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	
14652.	6.15	3.58	1.24	1.23	1.22	1.25	1.22	END OF DISCHARGE
14683.	6.14	3.56	1.25	1.24	1.23	1.25	1.22	
14716.	6.10	3.59	1.23	1.23	1.22	1.24	1.21	
14748.	6.13	3.57	1.24	1.23	1.24	1.24	1.22	
14780.	6.14	3.57	1.23	1.23	1.24	1.24	1.23	
14813.	6.14	3.57	1.24	1.23	1.24	1.24	1.22	
14845.	6.12	3.56	1.26	1.25	1.26	1.27	1.25	
14909.	6.09	3.58	1.22	1.22	1.23	1.23	1.21	
14941.	6.12	3.56	1.24	1.22	1.23	1.24	1.22	
14973.	6.16	3.57	1.23	1.22	1.24	1.24	1.23	
15005.	6.19	3.56	1.24	1.23	1.26	1.25	1.25	
15036.	6.15	3.56	1.24	1.22	1.25	1.24	1.23	
15069.	6.15	3.57	1.23	1.22	1.24	1.24	1.26	
15101.	6.19	3.55	1.24	1.23	1.25	1.24	1.26	
		2.07						
14652.	7.66	1.47	1.54	1.64	1.43	1.62	1.47	END OF CHARGE
14683.	7.67	1.46	1.54	1.65	1.44	1.62	1.47	
14716.	7.67	1.46	1.51	1.67	1.45	1.64	1.46	
14748.	7.71	1.32	1.52	1.67	1.48	1.64	1.45	
14780.	7.66	1.48	1.50	1.65	1.46	1.62	1.48	
14813.	7.69	1.38	1.56	1.64	1.46	1.61	1.46	
14845.	7.67	1.47	1.52	1.65	1.46	1.62	1.46	
14909.	7.65	1.42	1.51	1.66	1.45	1.62	1.44	
14941.	7.68	1.35	1.54	1.66	1.47	1.61	1.47	
14973.	7.71	1.37	1.51	1.66	1.47	1.61	1.49	
15005.	7.68	1.48	1.49	1.63	1.50	1.61	1.49	
15036.	7.73	1.32	1.56	1.64	1.50	1.60	1.46	
15069.	7.74	1.24	1.50	1.65	1.46	1.60	1.58	
15101.	7.76	1.18	1.53	1.65	1.49	1.60	1.53	

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	
14278.	4.69	5.76	1.19	1.20	.01	1.20	1.16	END OF DISCHARGE
14309.	4.69	5.75	1.19	1.19	.00	1.15	1.20	
14342.	4.66	5.71	1.18	1.18	.00	1.19	1.15	
14374.	4.69	5.76	1.19	1.19	.00	1.19	1.16	
14406.	4.69	5.75	1.19	1.19	.00	1.19	1.15	
14439.	4.67	5.75	1.18	1.18	.00	1.18	1.15	
14471.	4.77	5.79	1.21	1.21	.02	1.15	1.19	
14535.	4.66	5.68	1.17	1.17	.00	1.17	1.14	
14567.	4.65	5.79	1.17	1.17	.00	1.17	1.15	
14599.	4.65	5.78	1.19	1.18	.02	1.18	1.15	
14662.	4.64	5.71	1.18	1.18	.01	1.18	1.15	
14695.	4.67	5.68	1.18	1.17	.00	1.18	1.15	
14727.	4.72	5.78	1.19	1.19	.01	1.20	1.17	
		3.45						
14278.	5.97	1.47	1.55	1.50	.00	1.50	1.55	END OF CHARGE
14309.	6.08	1.46	1.55	1.49	.00	1.50	1.56	
14342.	6.08	1.45	1.56	1.50	.00	1.49	1.55	
14374.	6.12	1.25	1.57	1.49	.00	1.49	1.59	
14406.	6.08	1.46	1.55	1.49	.00	1.49	1.56	
14439.	6.09	1.45	1.56	1.49	.00	1.48	1.57	
14471.	6.10	1.47	1.56	1.49	.00	1.49	1.58	
14535.	6.05	1.49	1.54	1.47	.00	1.48	1.56	
14567.	6.07	1.40	1.55	1.48	.01	1.48	1.57	
14599.	6.09	1.47	1.56	1.49	.02	1.49	1.58	
14662.	6.08	1.53	1.55	1.49	.01	1.49	1.58	
14695.	6.09	1.44	1.55	1.48	.01	1.49	1.58	
14727.	6.11	1.38	1.55	1.49	.01	1.49	1.59	

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

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	CELL VOLTAGES 1	2	3	4	5	
7232.	6.21	3.76	1.25	1.25	1.25	1.26	1.24	END OF
7264.	6.15	3.74	1.25	1.25	1.24	1.25	1.24	DISCHARGE
7296.	6.19	3.69	1.24	1.24	1.25	1.25	1.24	
7328.	6.19	3.73	1.25	1.24	1.25	1.25	1.24	
7359.	6.19	3.66	1.25	1.24	1.24	1.24	1.24	
7392.	6.21	3.67	1.25	1.24	1.26	1.26	1.24	
7423.	6.1	3.7	1.25	1.24	1.25	1.25	1.24	
7455.	6.17	3.71	1.25	1.24	1.24	1.24	1.24	
		.83						
7232.	8.02	.82	1.62	1.62	1.64	1.60	1.62	END OF
7264.	8.21	.80	1.67	1.65	1.67	1.63	1.66	CHARGE
7296.	8.06	.82	1.63	1.62	1.64	1.59	1.63	
7328.	8.05	.82	1.64	1.61	1.64	1.59	1.63	
7359.	8.07	.81	1.64	1.62	1.64	1.58	1.63	
7392.	8.08	.82	1.65	1.62	1.64	1.58	1.64	
7423.	8.13	.82	1.64	1.62	1.64	1.57	1.63	
7455.	8.02	.71	1.63	1.61	1.62	1.57	1.63	

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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	
7237.	6.01	5.95	1.21	1.21	1.21	1.21	1.21	END OF DISCHARGE
7269.	5.97	5.93	1.20	1.20	1.20	1.21	1.20	
7301.	5.96	6.04	1.21	1.20	1.20	1.20	1.20	
7335.	5.96	5.99	1.20	1.20	1.19	1.20	1.20	
7364.	5.97	5.94	1.19	1.19	1.19	1.20	1.20	
7397.	5.98	5.92	1.21	1.20	1.20	1.20	1.20	
7428.	5.95	5.99	1.19	1.20	1.19	1.20	1.20	
7460.	5.95	5.99	1.20	1.20	1.20	1.20	1.20	
		1.38						
7237.	7.86	.66	1.61	1.60	1.59	1.53	1.54	END OF CHARGE
7269.	7.92	.51	1.63	1.62	1.61	1.54	1.53	
7301.	7.89	.55	1.63	1.61	1.61	1.53	1.52	
7335.	7.75	.44	1.59	1.58	1.58	1.52	1.50	
7364.	7.75	.37	1.59	1.57	1.58	1.51	1.49	
7397.	7.81	.35	1.62	1.59	1.60	1.52	1.49	
7428.	7.81	.32	1.61	1.59	1.59	1.52	1.48	
7460.	7.81	.34	1.61	1.60	1.61	1.52	1.49	

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

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
7368.	5.79	6.03	1.17	1.18	1.17	1.17	1.17	END OF
7400.	5.77	6.04	1.16	1.16	1.17	1.16	1.15	DISCHARGE
7434.	5.77	6.05	1.16	1.17	1.17	1.16	1.15	
7463.	5.78	5.97	1.16	1.16	1.16	1.16	1.16	
7496.	5.80	6.00	1.17	1.17	1.18	1.17	1.17	
7527.	5.75	6.02	1.16	1.16	1.16	1.15	1.15	
7559.	5.75	6.04	1.16	1.16	1.16	1.16	1.16	
		1.50						
7368.	7.35	1.54	1.50	1.47	1.50	1.49	1.45	END OF
7400.	7.32	1.54	1.49	1.46	1.50	1.48	1.44	CHARGE
7434.	7.29	1.53	1.49	1.46	1.49	1.47	1.44	
7463.	7.32	1.52	1.49	1.46	1.49	1.48	1.44	
7496.	7.30	1.54	1.49	1.46	1.48	1.47	1.44	
7527.	7.35	1.53	1.49	1.45	1.48	1.47	1.43	
7559.	7.29	1.54	1.49	1.46	1.48	1.47	1.44	

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

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	CELL VOLTAGES 1	2	3	4	5	
7131.	5.59	3.61	1.15	1.12	1.10	1.13	1.12	END OF
7163.	5.57	3.61	1.15	1.11	1.10	1.13	1.12	DISCHARGE
7195.	5.60	3.60	1.15	1.12	1.10	1.13	1.12	
7229.	5.59	3.57	1.15	1.11	1.10	1.14	1.12	
7258.	5.58	3.56	1.15	1.10	1.09	1.13	1.12	
7291.	5.61	3.56	1.15	1.11	1.10	1.14	1.13	
7322.	5.59	3.58	1.15	1.11	1.10	1.14	1.13	
7354.	5.57	3.56	1.15	1.10	1.09	1.14	1.12	
		1.15						
7131.	7.16	1.17	1.44	1.43	1.43	1.45	1.43	END OF
7163.	7.16	1.17	1.44	1.42	1.42	1.45	1.44	CHARGE
7195.	7.16	1.17	1.44	1.42	1.42	1.45	1.43	
7229.	7.15	1.18	1.44	1.42	1.42	1.45	1.44	
7258.	7.17	1.17	1.44	1.42	1.42	1.45	1.44	
7291.	7.16	1.19	1.44	1.41	1.42	1.45	1.44	
7322.	7.17	1.17	1.44	1.41	1.41	1.46	1.43	
7354.	7.17	1.18	1.44	1.43	1.42	1.45	1.44	

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	
14585.	5.94	6.01	1.19	1.23	1.19	1.21	1.19	END OF DISCHARGE
14617.	5.90	6.07	1.18	1.21	1.16	1.20	1.17	
14649.	5.90	6.01	1.19	1.23	1.18	1.21	1.18	
14681.	5.84	6.03	1.17	1.22	1.17	1.20	1.15	
14712.	5.86	6.01	1.18	1.22	1.17	1.21	1.13	
14745.	5.79	6.04	1.20	1.23	1.21	1.24	1.13	
14777.	5.76	6.01	1.20	1.24	1.20	1.24	1.09	
14810.	5.69	6.09	1.15	1.20	1.15	1.19	1.00	
14842.	5.70	6.10	1.16	1.20	1.15	1.19	.98	
14873.	5.67	6.04	1.17	1.21	1.17	1.21	.97	
14905.	5.73	6.08	1.18	1.22	1.17	1.22	.96	
14937.	5.69	6.09	1.18	1.22	1.18	1.21	.97	
14970.	5.74	6.05	1.19	1.22	1.18	1.22	.96	
15001.	5.68	6.04	1.17	1.21	1.17	1.21	.93	
15034.	5.66	6.10	1.18	1.22	1.17	1.21	.92	
		3.45						
14585.	7.42	2.47	1.51	1.51	1.50	1.49	1.46	END OF CHARGE
14617.	7.40	2.50	1.50	1.50	1.49	1.48	1.46	
14649.	7.40	2.52	1.50	1.51	1.49	1.49	1.46	
14681.	7.43	2.30	1.51	1.52	1.52	1.48	1.46	
14712.	7.41	2.50	1.51	1.50	1.50	1.48	1.45	
14745.	7.40	2.51	1.50	1.50	1.50	1.49	1.46	
14777.	7.42	2.46	1.51	1.51	1.50	1.50	1.46	
14810.	7.44	2.24	1.50	1.51	1.51	1.47	1.44	
14842.	7.39	2.48	1.49	1.49	1.48	1.47	1.45	
14873.	7.40	2.49	1.50	1.50	1.49	1.49	1.46	
14905.	7.45	2.48	1.51	1.51	1.50	1.49	1.46	
14937.	7.49	2.29	1.53	1.54	1.53	1.49	1.45	
14970.	7.46	2.45	1.51	1.51	1.50	1.50	1.46	
15001.	7.45	2.46	1.50	1.50	1.49	1.49	1.45	
15034.	7.45	2.48	1.51	1.51	1.50	1.50	1.46	

PACK NO. 80
GOULD 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
7298.	6.08	6.03	1.25	1.21	1.17	1.25	1.23	END OF DISCHARGE
7330.	6.06	6.01	1.25	1.22	1.18	1.25	1.24	
7373.	6.17	5.99	1.26	1.22	1.19	1.26	1.25	
7403.	6.15	5.97	1.26	1.22	1.19	1.26	1.26	
7435.	6.18	6.00	1.27	1.23	1.21	1.27	1.26	
7467.	6.15	6.00	1.26	1.23	1.19	1.26	1.26	
7498.	6.15	6.02	1.26	1.22	1.19	1.26	1.26	
		1.38						
7298.	7.52	.83	1.50	1.51	1.53	1.50	1.52	END OF CHARGE
7330.	7.52	.82	1.50	1.52	1.53	1.51	1.51	
7373.	7.86	.98	1.53	1.60	1.62	1.56	1.56	
7403.	7.81	1.14	1.53	1.58	1.60	1.56	1.56	
7435.	7.83	1.21	1.54	1.59	1.61	1.57	1.57	
7467.	7.82	1.23	1.54	1.59	1.59	1.56	1.57	
7498.	7.81	1.26	1.54	1.59	1.59	1.57	1.57	

PACK NO. 94 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GOULD 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	
7191.	5.99	9.98	1.23	1.21	1.17	1.22	1.21	END OF DISCHARGE
7223.	5.99	10.02	1.22	1.20	1.17	1.21	1.20	
7280.	6.06	9.93	1.23	1.21	1.19	1.22	1.22	
7344.	5.99	10.18	1.22	1.21	1.18	1.21	1.21	
7375.	5.98	10.21	1.22	1.20	1.18	1.21	1.20	
		2.30						
7191.	7.69	1.05	1.49	1.48	1.60	1.58	1.57	END OF CHARGE
7223.	7.70	1.04	1.50	1.49	1.59	1.57	1.56	
7280.	7.83	1.02	1.51	1.51	1.60	1.61	1.59	
7344.	7.83	1.16	1.52	1.51	1.60	1.63	1.58	
7375.	7.83	1.20	1.53	1.52	1.60	1.63	1.58	

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PACK NO. 102 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
GULTON 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	
7126.	4.74	6.05	1.19	.00	1.18	1.23	1.18	END OF
7158.	4.74	6.01	1.19	.00	1.18	1.23	1.19	DISCHARGE
7201.	4.79	5.97	1.20	.00	1.20	1.23	1.19	
7231.	4.78	5.95	1.20	.00	1.19	1.23	1.19	
7263.	4.81	5.98	1.20	.00	1.21	1.24	1.21	
7295.	4.79	5.99	1.20	.00	1.19	1.24	1.20	
7326.	4.78	6.03	1.19	.00	1.19	1.23	1.20	
		1.38						
7126.	6.13	1.22	1.58	.00	1.56	1.50	1.52	END OF
7158.	6.14	1.21	1.58	.00	1.56	1.51	1.52	CHARGE
7201.	6.15	1.37	1.61	.00	1.59	1.48	1.50	
7231.	6.14	1.37	1.60	.00	1.58	1.48	1.50	
7263.	6.06	1.39	1.57	.00	1.56	1.48	1.50	
7295.	6.24	1.39	1.61	.00	1.58	1.52	1.55	
7326.	6.28	1.39	1.62	.00	1.60	1.53	1.56	

PACK NO. 116
GULTON 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	CELL VOLTAGES 1	2	3	4	5	
6970.	5.84	9.76	1.20	1.19	1.11	1.20	1.18	END OF
7011.	5.67	9.42	1.08	1.18	1.11	1.19	1.16	DISCHARGE
7051.	5.91	9.97	1.24	1.18	1.11	1.20	1.18	
7083.	5.85	9.99	1.20	1.19	1.12	1.20	1.18	
7115.	5.80	9.99	1.17	1.18	1.11	1.20	1.17	
7146.	5.76	10.03	1.18	1.19	1.10	1.20	1.16	
		2.30						
6970.	8.03	2.28	1.44	1.73	1.60	1.70	1.59	END OF
7011.	7.62	1.25	1.42	1.58	1.55	1.59	1.53	CHARGE
7051.	7.82	2.04	1.50	1.60	1.57	1.58	1.58	
7083.	7.83	2.37	1.45	1.62	1.59	1.63	1.57	
7115.	7.84	2.25	1.43	1.62	1.59	1.62	1.59	
7146.	7.78	1.94	1.44	1.61	1.58	1.60	1.58	

PACK NO. 174
GU 1.25 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE

TEST TEMPERATURE -20 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT .63	CELL VOLTAGES 1	2	3	4	5	
2483.	5.74	.61	1.15	1.18	1.16	1.17	1.10	END OF DISCHARGE
2514.	5.68	.61	1.16	1.17	1.15	1.17	1.09	
2547.	5.68	.62	1.15	1.17	1.15	1.17	1.09	
2579.	5.73	.62	1.16	1.18	1.16	1.17	1.11	
2626.	5.67	.63	1.18	1.20	1.17	1.21	1.12	
2690.	5.70	.62	1.14	1.17	1.16	1.17	1.10	
2722.	5.71	.62	1.15	1.18	1.16	1.17	1.10	
2754.	5.65	.61	1.16	1.17	1.15	1.17	1.06	
2786.	5.72	.61	1.15	1.17	1.16	1.17	1.10	
2817.	5.74	.61	1.16	1.18	1.17	1.18	1.11	
2850.	5.71	.62	1.16	1.17	1.16	1.17	1.11	
2882.	5.75	.61	1.16	1.18	1.16	1.18	1.12	
		1.00						
2483.	8.89	.99	1.83	1.74	1.75	1.75	1.81	END OF CHARGE
2514.	8.76	.99	1.76	1.75	1.75	1.75	1.81	
2547.	8.83	.98	1.83	1.74	1.75	1.75	1.81	
2579.	8.81	.99	1.85	1.73	1.75	1.74	1.81	
2626.	8.79	1.01	1.79	1.74	1.76	1.75	1.82	
2690.	8.76	1.01	1.78	1.73	1.74	1.74	1.81	
2722.	8.91	1.02	1.94	1.73	1.75	1.74	1.82	
2754.	8.89	1.01	1.82	1.76	1.77	1.77	1.84	
2786.	8.82	1.01	1.81	1.74	1.76	1.75	1.82	
2817.	8.86	1.01	1.93	1.73	1.73	1.73	1.80	
2850.	8.77	1.02	1.79	1.74	1.75	1.75	1.80	
2882.	8.78	1.01	1.83	1.73	1.74	1.74	1.79	

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PACK NO. 388
GU 1.25 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE

TEST TEMPERATURE -20 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT .63	CELL VOLTAGES 1	2	3	4	5	
1913.	4.56	.61	1.17	1.10	1.17	1.15	.00	END OF DISCHARGE
1946.	4.52	.62	1.17	1.08	1.17	1.13	.00	
1978.	4.56	.61	1.18	1.09	1.17	1.15	.00	
2025.	4.64	.63	1.20	1.10	1.20	1.12	.00	
2089.	4.55	.62	1.16	1.09	1.17	1.13	.00	
2121.	4.57	.62	1.17	1.11	1.17	1.14	.00	
2153.	4.51	.62	1.17	1.06	1.17	1.12	.00	
2185.	4.56	.62	1.17	1.09	1.17	1.13	.00	
2216.	4.61	.62	1.17	1.13	1.17	1.15	.00	
2249.	4.57	.62	1.16	1.12	1.17	1.14	.00	
2281.	4.58	.61	1.17	1.11	1.17	1.14	.00	
		1.00						
1913.	7.14	.99	1.77	1.81	1.75	1.83	.00	END OF CHARGE
1946.	7.19	.99	1.79	1.83	1.76	1.83	.00	
1978.	7.12	.99	1.76	1.82	1.75	1.81	.00	
2025.	7.15	.99	1.76	1.82	1.75	1.82	.00	
2089.	7.12	1.00	1.76	1.80	1.74	1.81	.00	
2121.	7.10	.99	1.75	1.80	1.75	1.81	.00	
2153.	7.23	1.00	1.80	1.82	1.78	1.84	.00	
2185.	7.15	1.00	1.76	1.81	1.75	1.82	.00	
2216.	7.06	1.01	1.74	1.78	1.74	1.80	.00	
2249.	7.15	1.01	1.78	1.79	1.77	1.81	.00	
2281.	7.11	1.00	1.76	1.79	1.75	1.81	.00	

PACK NO. 308 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GU 1.25 A.H. PERCENT OF RECHARGE ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT .63	CELL VOLTAGES 1	2	3	4	5	
2785.	7.32	2.24	1.46	1.47	1.48	1.48	1.46	END OF DISCHARGE
2817.	5.96	.62	1.19	1.20	1.19	1.19	1.21	
2849.	6.01	.62	1.20	1.22	1.21	1.20	1.22	
2881.	6.85	.63	1.37	1.39	1.39	1.38	1.40	
2912.	5.99	.62	1.20	1.21	1.20	1.19	1.21	
2945.	5.98	.64	1.21	1.22	1.23	1.22	1.25	
2977.	5.99	.63	1.21	1.23	1.23	1.23	1.24	
3024.	6.10	.63	1.22	1.22	1.22	1.22	1.24	
3056.	6.05	.63	1.21	1.22	1.22	1.21	1.23	
3088.	6.04	.64	1.20	1.21	1.21	1.21	1.23	
3121.	6.04	.63	1.21	1.22	1.21	1.21	1.23	
3152.	6.04	.63	1.20	1.21	1.20	1.20	1.22	
3185.	6.01	.64	1.20	1.21	1.21	1.20	1.22	
		1.25						
2785.	8.62	1.26	1.68	1.72	1.77	1.77	1.73	END OF CHARGE
2817.	8.62	1.26	1.68	1.73	1.75	1.76	1.72	
2849.	8.70	1.26	1.67	1.75	1.81	1.79	1.73	
2881.	8.42	1.26	1.66	1.68	1.72	1.72	1.68	
2912.	8.64	1.26	1.68	1.75	1.76	1.78	1.72	
2945.	8.43	1.26	1.65	1.69	1.73	1.72	1.68	
2977.	8.54	1.26	1.66	1.71	1.76	1.76	1.71	
3024.	8.47	1.27	1.66	1.70	1.72	1.74	1.70	
3056.	8.58	1.27	1.67	1.72	1.76	1.76	1.72	
3088.	8.62	1.28	1.67	1.72	1.76	1.76	1.72	
3121.	8.59	1.27	1.66	1.73	1.77	1.75	1.72	
3152.	8.58	1.27	1.66	1.71	1.76	1.75	1.71	
3185.	8.54	1.28	1.66	1.71	1.75	1.75	1.71	

PACK NO. 198
GU 1.25 A.H.

DEPTH OF DISCHARGE 60
PERCENT OF RECHARGE

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 1.5	CELL VOLTAGES 1	2	3	4	5	
2785.	5.45	1.48	1.08	1.11	1.09	1.10	1.10	END OF DISCHARGE
2817.	5.42	1.48	1.08	1.11	1.09	1.10	1.10	
2849.	5.49	1.48	1.10	1.12	1.10	1.11	1.11	
2881.	5.48	1.48	1.09	1.11	1.10	1.10	1.10	
2912.	5.48	1.48	1.09	1.11	1.09	1.10	1.10	
2945.	5.70	1.50	1.14	1.15	1.15	1.11	1.17	
2977.	5.64	1.50	1.14	1.15	1.14	1.10	1.16	
3024.	5.63	1.52	1.12	1.14	1.13	1.14	1.12	
3056.	5.57	1.51	1.12	1.13	1.13	1.13	1.12	
3088.	5.59	1.53	1.11	1.13	1.12	1.13	1.12	
3121.	5.59	1.51	1.12	1.14	1.13	1.13	1.12	
3152.	5.55	1.51	1.11	1.13	1.12	1.12	1.11	
3185.	5.53	1.52	1.10	1.13	1.12	1.12	1.11	
		1.25						
2785.	8.94	1.24	1.80	1.81	1.78	1.80	1.76	END OF CHARGE
2817.	8.85	1.25	1.79	1.81	1.77	1.80	1.75	
2849.	8.86	1.24	1.79	1.79	1.76	1.79	1.75	
2881.	8.75	1.24	1.77	1.77	1.74	1.76	1.73	
2912.	8.87	1.24	1.79	1.79	1.76	1.78	1.75	
2945.	8.53	1.25	1.72	1.72	1.69	1.71	1.69	
2977.	8.56	1.24	1.74	1.73	1.70	1.72	1.70	
3024.	8.70	1.25	1.76	1.76	1.73	1.75	1.71	
3056.	8.79	1.26	1.79	1.79	1.76	1.78	1.73	
3088.	8.78	1.25	1.78	1.78	1.74	1.77	1.73	
3121.	8.71	1.26	1.77	1.77	1.74	1.76	1.72	
3152.	8.75	1.26	1.77	1.77	1.74	1.76	1.72	
3185.	8.73	1.26	1.77	1.78	1.74	1.76	1.72	

PACK NO. 239 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 25 C
GUE COUL 3.6 A.H. PERCENT OF RECHARGE ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.88	CELL VOLTAGES 1	2	3	4	5	1	2	3	4	5	
4269.	9.31	2.86	1.06	1.08	.93	1.01	1.10	.00	1.06	1.05	1.04	1.02	END OF
4301.	9.23	2.85	1.04	1.09	.91	1.00	1.09	.00	1.05	1.06	1.04	1.01	DISCHARGE
4333.	9.14	2.86	1.04	1.08	.90	.97	1.09	.00	1.04	1.05	1.02	1.00	
4365.	9.14	2.87	1.05	1.08	.90	.95	1.08	.00	1.04	1.06	1.02	1.00	
4398.	9.17	2.88	1.04	1.08	.90	.95	1.08	.00	1.04	1.06	1.03	1.02	
4429.	8.89	2.87	1.00	1.06	.86	.93	1.05	.00	1.01	1.04	.99	.99	
4461.	8.76	2.89	1.02	1.07	.89	.92	1.07	.00	1.02	1.07	.99	1.01	
4492.	9.04	2.85	1.01	1.06	.88	.96	1.05	.00	1.01	1.05	1.03	1.00	
4525.	8.75	2.84	.97	1.04	.83	.98	1.01	.00	.97	1.00	1.00	.96	
4556.	8.77	2.84	.99	1.05	.85	.99	1.03	.00	.98	1.00	.98	.97	
4621.	9.09	2.87	1.06	1.04	.90	1.01	1.05	.00	1.00	1.02	1.02	1.04	
4652.	9.01	2.87	1.02	1.04	.91	1.00	1.04	.00	.99	.99	1.02	1.06	
4684.	6.18	2.80	.59	.91	.74	.16	.90	.00	.71	.81	.85	.88	
		3.60											
4269.	13.02	.25	1.44	1.47	1.46	1.48	1.44	.00	1.45	1.44	1.46	1.42	END OF
4301.	13.00	.24	1.44	1.47	1.45	1.48	1.44	.00	1.45	1.44	1.46	1.42	CHARGE
4333.	13.01	.22	1.44	1.47	1.45	1.48	1.44	.00	1.45	1.44	1.46	1.42	
4365.	13.01	.20	1.44	1.47	1.45	1.48	1.44	.00	1.44	1.44	1.46	1.43	
4398.	13.03	.22	1.44	1.48	1.45	1.48	1.44	.00	1.45	1.44	1.46	1.43	
4429.	12.98	.19	1.44	1.47	1.45	1.47	1.43	.00	1.44	1.44	1.45	1.42	
4461.	12.93	.17	1.44	1.47	1.46	1.48	1.44	.00	1.45	1.44	1.44	1.44	
4492.	12.94	.20	1.43	1.46	1.45	1.46	1.43	.00	1.43	1.43	1.44	1.42	
4525.	12.91	.18	1.43	1.45	1.44	1.45	1.43	.00	1.43	1.42	1.42	1.00	
4556.	12.93	.17	1.44	1.46	1.45	1.46	1.44	.00	1.44	1.44	1.44	1.43	
4589.	12.98	.19	1.44	1.47	1.46	1.47	1.44	.00	1.44	1.44	1.46	1.43	
4621.	12.99	.19	1.44	1.47	1.45	1.47	1.45	.00	1.45	1.44	1.46	1.43	
4652.	12.94	.17	1.44	1.46	1.44	1.45	1.44	.00	1.44	1.44	1.45	1.42	
4684.	12.75	.10	1.42	1.43	1.43	1.44	1.42	.00	1.42	1.41	1.43	1.42	

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PACK NO. 315
GULTON 4 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.20	CELL VOLTAGES 1	2	3	4	5	
11390.	6.19	1.20	1.25	1.24	1.25	1.25	1.24	END OF DISCHARGE
11421.	6.17	1.20	1.24	1.23	1.24	1.24	1.23	
11454.	6.15	1.21	1.24	1.22	1.23	1.24	1.23	
11486.	6.17	1.20	1.24	1.23	1.23	1.24	1.23	
11518.	6.18	1.20	1.24	1.23	1.23	1.24	1.23	
11550.	6.18	1.20	1.24	1.23	1.23	1.24	1.23	
11582.	6.26	1.19	1.27	1.25	1.26	1.23	1.28	
11646.	6.14	1.20	1.23	1.22	1.22	1.23	1.22	
11678.	6.13	1.20	1.23	1.22	1.22	1.23	1.22	
11724.	6.27	1.17	1.26	1.25	1.26	1.26	1.26	
11757.	6.26	1.18	1.26	1.24	1.25	1.25	1.25	
11789.	6.24	1.19	1.25	1.24	1.25	1.25	1.25	
		.69						
11393.	7.66	.35	1.51	1.59	1.50	1.58	1.52	END OF CHARGE
11421.	7.70	.43	1.51	1.57	1.49	1.59	1.51	
11454.	7.73	.46	1.52	1.59	1.50	1.59	1.52	
11486.	7.74	.46	1.51	1.59	1.49	1.60	1.52	
11518.	7.72	.46	1.51	1.58	1.50	1.59	1.52	
11550.	7.72	.41	1.52	1.58	1.50	1.59	1.52	
11582.	7.72	.45	1.52	1.58	1.50	1.59	1.52	
11646.	7.59	.38	1.49	1.55	1.47	1.54	1.49	
11678.	7.58	.32	1.49	1.54	1.47	1.54	1.48	
11724.	7.07	.64	1.55	1.65	1.53	1.65	1.56	
11757.	7.93	.55	1.55	1.64	1.52	1.64	1.56	
11789.	7.94	.45	1.53	1.62	1.52	1.62	1.54	

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PACK NO. 326 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GULTON 4 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.00	CELL VOLTAGES 1	2	3	4	5	
11834.	5.94	1.97	1.20	1.21	1.20	1.20	1.19	END OF DISCHARGE
11866.	5.94	1.98	1.20	1.20	1.19	1.19	1.20	
11898.	5.95	1.97	1.20	1.21	1.20	1.20	1.20	
11930.	5.95	1.98	1.20	1.21	1.19	1.19	1.19	
11961.	5.94	1.97	1.20	1.20	1.19	1.19	1.19	
11994.	5.88	1.98	1.22	1.22	1.22	1.22	1.23	
12026.	5.80	1.97	1.22	1.22	1.22	1.22	1.23	
12059.	5.91	2.00	1.19	1.19	1.18	1.18	1.19	
12091.	5.92	2.00	1.19	1.20	1.19	1.18	1.19	
12122.	5.92	1.99	1.19	1.20	1.19	1.19	1.19	
12154.	5.95	1.99	1.20	1.20	1.19	1.19	1.20	
12186.	5.93	2.00	1.19	1.21	1.19	1.19	1.19	
12219.	5.95	1.99	1.20	1.20	1.19	1.19	1.20	
12250.	5.94	1.98	1.19	1.20	1.18	1.19	1.19	
12283.	5.95	2.00	1.19	1.20	1.19	1.19	1.19	
		1.15						
11834.	7.78	.69	1.57	1.55	1.57	1.58	1.54	END OF CHARGE
11866.	7.79	.70	1.58	1.54	1.56	1.58	1.55	
11898.	7.79	.69	1.58	1.55	1.57	1.58	1.55	
11930.	7.78	.69	1.57	1.55	1.57	1.58	1.55	
11961.	7.78	.71	1.57	1.54	1.57	1.58	1.54	
11994.	7.78	.70	1.57	1.54	1.58	1.58	1.55	
12026.	7.77	.68	1.58	1.55	1.57	1.59	1.55	
12059.	7.77	.67	1.57	1.54	1.56	1.58	1.54	
12091.	7.76	.67	1.56	1.54	1.57	1.57	1.54	
12122.	7.77	.67	1.57	1.54	1.56	1.58	1.55	
12154.	7.80	.70	1.57	1.54	1.56	1.58	1.55	
12186.	7.80	.70	1.58	1.55	1.58	1.59	1.55	
12219.	7.79	.70	1.57	1.54	1.56	1.58	1.55	
12250.	7.79	.68	1.57	1.54	1.56	1.58	1.54	
12283.	7.80	.68	1.57	1.54	1.57	1.58	1.55	

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 2.00	CELL VOLTAGES 1	2	3	4	5	
11653.	5.84	2.00	1.18	1.19	1.18	1.18	1.17	END OF
11685.	5.79	1.99	1.17	1.18	1.18	1.15	1.17	DISCHARGE
11717.	5.81	1.99	1.17	1.18	1.18	1.15	1.17	
11749.	5.80	1.99	1.17	1.18	1.18	1.15	1.17	
11781.	5.76	1.98	1.16	1.17	1.18	1.14	1.16	
11813.	5.60	1.97	1.19	1.20	1.22	1.18	1.20	
11845.	5.77	2.00	1.16	1.16	1.18	1.15	1.16	
11877.	5.75	1.99	1.15	1.16	1.16	1.15	1.16	
11909.	5.75	1.98	1.16	1.16	1.17	1.15	1.16	
11941.	5.78	1.99	1.17	1.17	1.19	1.15	1.17	
11974.	5.69	1.98	1.15	1.15	1.16	1.13	1.15	
12004.	5.73	1.99	1.16	1.16	1.17	1.14	1.15	
12037.	5.75	1.99	1.16	1.16	1.17	1.14	1.16	
12069.	5.75	1.98	1.16	1.16	1.18	1.14	1.15	
		1.25						
11653.	7.35	1.08	1.48	1.47	1.47	1.53	1.47	END OF
11685.	7.39	.99	1.48	1.47	1.47	1.55	1.47	CHARGE
11717.	7.41	.97	1.49	1.47	1.47	1.55	1.48	
11749.	7.17	1.26	1.45	1.45	1.44	1.43	1.44	
11781.	7.40	.97	1.49	1.47	1.47	1.55	1.47	
11813.	7.39	1.01	1.49	1.47	1.47	1.55	1.47	
11845.	7.35	1.06	1.47	1.46	1.47	1.55	1.46	
11877.	7.32	1.05	1.47	1.45	1.45	1.54	1.45	
11909.	7.33	1.02	1.48	1.46	1.46	1.54	1.46	
11941.	7.36	1.03	1.48	1.46	1.47	1.55	1.47	
11974.	7.37	1.07	1.48	1.46	1.46	1.54	1.46	
12004.	7.36	1.09	1.48	1.46	1.46	1.54	1.46	
12037.	7.37	1.06	1.48	1.46	1.47	1.55	1.46	
12069.	7.38	1.04	1.48	1.46	1.47	1.55	1.46	

PACK NO. 228 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 C
GULTON 4 A.H. PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.20	CELL VOLTAGES 1	2	3	4	5	
11515.	5.96	1.22	1.20	1.21	1.21	1.19	1.20	END OF DISCHARGE
11547.	5.96	1.19	1.20	1.21	1.20	1.19	1.19	
11579.	5.96	1.19	1.20	1.21	1.20	1.19	1.20	
11611.	5.96	1.19	1.20	1.21	1.21	1.19	1.20	
11643.	5.95	1.19	1.20	1.21	1.20	1.19	1.19	
11675.	5.94	1.19	1.20	1.21	1.20	1.19	1.19	
11707.	5.82	1.19	1.22	1.23	1.23	1.22	1.23	
11739.	5.92	1.21	1.19	1.20	1.20	1.18	1.18	
11771.	5.90	1.21	1.19	1.20	1.19	1.18	1.18	
11803.	5.94	1.22	1.20	1.21	1.20	1.19	1.20	
11835.	5.96	1.21	1.20	1.21	1.21	1.19	1.20	
11868.	5.89	1.20	1.19	1.19	1.19	1.18	1.18	
11898.	5.92	1.20	1.19	1.20	1.19	1.18	1.19	
11931.	5.92	1.21	1.19	1.20	1.20	1.18	1.18	
11963.	5.94	1.19	1.20	1.20	1.21	1.19	1.19	
		.96						
11515.	7.16	.71	1.45	1.44	1.43	1.44	1.44	END OF CHARGE
11547.	7.14	.67	1.45	1.44	1.44	1.44	1.43	
11579.	7.15	.67	1.45	1.44	1.43	1.44	1.44	
11611.	7.16	.68	1.46	1.44	1.44	1.44	1.44	
11643.	7.07	.85	1.44	1.42	1.42	1.42	1.42	
11675.	7.16	.65	1.45	1.44	1.44	1.44	1.43	
11707.	7.16	.67	1.46	1.44	1.44	1.45	1.44	
11739.	7.16	.67	1.45	1.43	1.44	1.44	1.44	
11771.	7.13	.62	1.45	1.43	1.43	1.43	1.43	
11803.	7.17	.65	1.46	1.44	1.44	1.45	1.44	
11835.	7.22	.78	1.47	1.45	1.45	1.46	1.45	
11868.	7.14	.57	1.45	1.43	1.43	1.44	1.44	
11898.	7.15	.57	1.45	1.44	1.43	1.44	1.44	
11931.	7.15	.56	1.45	1.43	1.44	1.44	1.43	
11963.	7.15	.57	1.45	1.43	1.44	1.44	1.44	

PACK NO. 117 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
GULTON 5 A.H. NIMBUS PERCENT OF RECHARGE 110 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	
7397.	6.12	1.48	1.25	1.24	1.24	1.25	1.17	END OF
7429.	6.14	1.47	1.25	1.23	1.23	1.24	1.20	DISCHARGE
7460.	6.15	1.48	1.25	1.23	1.23	1.24	1.22	
7493.	6.22	1.49	1.27	1.25	1.25	1.22	1.25	
7525.	6.21	1.47	1.27	1.25	1.25	1.22	1.25	
7558.	6.03	1.50	1.23	1.21	1.21	1.23	1.15	
7590.	5.95	1.49	1.23	1.21	1.21	1.23	1.07	
7621.	5.78	1.48	1.23	1.22	1.22	1.23	.90	
7653.	5.94	1.48	1.24	1.22	1.22	1.23	1.04	
7685.	5.81	1.49	1.23	1.23	1.24	1.23	.93	
7718.	5.92	1.48	1.24	1.22	1.22	1.24	1.03	
7749.	5.82	1.48	1.23	1.22	1.22	1.23	.94	
7782.	6.01	1.49	1.23	1.22	1.22	1.23	1.13	
		.83						
7397.	7.99	.83	1.61	1.57	1.65	1.57	1.61	END OF
7429.	7.87	.82	1.59	1.54	1.63	1.55	1.56	CHARGE
7460.	7.85	.84	1.59	1.54	1.62	1.55	1.55	
7493.	7.87	.85	1.59	1.55	1.63	1.55	1.56	
7525.	7.88	.83	1.60	1.55	1.64	1.56	1.56	
7558.	7.62	.53	1.53	1.49	1.57	1.50	1.52	
7590.	7.64	.52	1.52	1.49	1.56	1.50	1.57	
7621.	7.67	.52	1.53	1.50	1.57	1.50	1.58	
7653.	7.70	.57	1.54	1.51	1.57	1.51	1.59	
7685.	7.71	.57	1.54	1.51	1.59	1.51	1.60	
7718.	7.71	.58	1.54	1.51	1.58	1.51	1.60	
7749.	7.71	.56	1.53	1.50	1.58	1.50	1.59	
7782.	7.66	.54	1.54	1.51	1.58	1.51	1.55	

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PACK NO. 121 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GULTON 5 A.H. NIMBUS PERCENT OF RECHARGE 110 ORBIT PERIOD 90 MIN

CYCLE NO.	PACK VOLTAGES	CURRENT 2.50	CELL VOLTAGES 1	2	3	4	5	PSIA	
6839.	4.80	2.47	.00	1.22	1.22	1.22	1.22	11.495	END OF
6871.	4.73	2.46	.00	1.20	1.20	1.20	1.20	11.378	DISCHARGE
6902.	4.72	2.46	.00	1.20	1.20	1.20	1.19	11.530	
6934.	4.70	2.46	.00	1.19	1.19	1.20	1.19	11.589	
6966.	4.46	2.47	.00	1.21	1.22	1.23	1.23	11.354	
6998.	5.29	2.50	.00	1.33	1.34	1.35	1.33	13.474	
7030.	4.68	2.47	.00	1.18	1.18	1.19	1.18	11.799	
7062.	4.69	2.47	.00	1.18	1.19	1.19	1.19	11.870	
7094.	4.71	2.47	.00	1.19	1.20	1.20	1.19	12.104	
7127.	4.68	2.47	.00	1.18	1.18	1.19	1.18	12.326	
7157.	4.69	2.48	.00	1.18	1.18	1.19	1.19	12.338	
7190.	4.68	2.48	.00	1.18	1.19	1.19	1.18	12.350	
7222.	4.70	2.47	.00	1.18	1.19	1.19	1.19	12.467	
		1.38							
6839.	5.99	.60	.00	1.51	1.51	1.51	1.50	12.315	END OF
6871.	5.98	.74	.00	1.50	1.52	1.49	1.51	11.835	CHARGE
6902.	5.91	1.02	.00	1.49	1.50	1.48	1.48	11.799	
6934.	5.98	.75	.00	1.50	1.52	1.49	1.50	11.905	
6966.	5.97	.78	.00	1.50	1.52	1.49	1.50	12.081	
6998.	5.98	.73	.00	1.49	1.52	1.49	1.50	12.666	
7030.	5.92	.83	.00	1.49	1.50	1.48	1.49	12.139	
7062.	5.96	.79	.00	1.49	1.51	1.49	1.50	12.221	
7094.	5.99	.77	.00	1.50	1.53	1.50	1.51	12.420	
7127.	5.98	.82	.00	1.50	1.52	1.49	1.51	12.818	
7157.	5.99	.78	.00	1.50	1.52	1.49	1.51	12.771	
7190.	5.99	.78	.00	1.49	1.52	1.49	1.50	12.689	
7222.	5.99	.78	.00	1.49	1.52	1.49	1.50	12.818	

PACK NO. 120 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 25 C
GULTON 5 A.H. NIMBUS PERCENT OF RECHARGE 120 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	
7475.	5.88	1.49	1.22	1.02	1.24	1.54	1.21	END OF DISCHARGE
7507.	5.76	1.49	1.23	.91	1.22	1.23	1.21	
7539.	5.84	1.49	1.22	1.00	1.21	1.23	1.21	
7586.	5.64	1.49	1.23	.77	1.22	1.24	1.21	
7618.	5.76	1.50	1.25	.86	1.24	1.22	1.23	
7649.	5.64	1.49	1.23	.78	1.20	1.23	1.20	
7682.	5.77	1.48	1.23	.91	1.21	1.23	1.20	
7713.	6.21	1.50	1.30	1.05	1.30	1.31	1.28	
7746.	5.84	1.50	1.23	.96	1.22	1.24	1.20	
7778.	5.85	1.49	1.24	.97	1.24	1.24	1.22	
7809.	5.88	1.49	1.24	.99	1.24	1.24	1.22	
7841.	5.82	1.50	1.22	.99	1.21	1.22	1.19	
7874.	5.86	1.48	1.23	1.00	1.24	1.24	1.22	
		.90						
7475.	7.34	.91	1.44	1.56	1.44	1.47	1.45	END OF CHARGE
7507.	7.34	.91	1.43	1.58	1.43	1.47	1.45	
7539.	7.33	.91	1.43	1.56	1.43	1.47	1.45	
7586.	7.52	.92	1.42	1.76	1.44	1.47	1.44	
7618.	7.45	.90	1.42	1.72	1.43	1.47	1.43	
7649.	7.33	.90	1.43	1.59	1.42	1.47	1.43	
7682.	7.38	.90	1.43	1.62	1.42	1.47	1.44	
7713.	7.34	.90	1.42	1.59	1.44	1.48	1.44	
7746.	7.37	.91	1.43	1.60	1.44	1.48	1.45	
7778.	7.37	.91	1.44	1.60	1.45	1.48	1.44	
7809.	7.38	.91	1.44	1.60	1.45	1.47	1.44	
7841.	7.38	.91	1.43	1.60	1.44	1.47	1.44	
7874.	7.35	.92	1.43	1.58	1.45	1.48	1.44	

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PACK NO. 318
GULTON 5 A.H. NIMBUS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 120

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN

CYCLE NO.	PACK VOLTAGES	CURRENT 2.50	CELL VOLTAGES 1	2	3	4	5	PSIA	
6849.	4.03	2.39	1.16	.00	1.13	1.01	.84	12.146	END OF DISCHARGE
6881.	3.88	2.31	1.14	.00	1.09	.98	.70	11.936	
6913.	3.72	2.25	1.11	.00	1.06	.92	.66	11.668	
6960.	4.23	2.48	1.14	.00	1.16	1.05	.91	12.298	
6992.	3.76	2.38	1.16	.00	1.17	1.06	.74	12.450	
7024.	3.90	2.35	1.13	.00	1.11	.99	.70	12.088	
7056.	4.00	2.39	1.13	.00	1.13	1.00	.77	12.345	
7088.	3.75	2.38	1.10	.00	1.09	.94	.66	12.415	
7120.	3.84	2.40	1.13	.00	1.11	.97	.68	12.473	
7153.	3.59	2.23	1.02	.00	1.06	.89	.65	12.169	
7183.	3.71	2.28	1.04	.00	1.08	.92	.69	12.274	
7216.	3.85	2.43	1.06	.00	1.08	1.02	.71	12.333	
7248.	3.95	2.43	1.10	.00	1.13	1.02	.73	12.450	
		1.50							
6849.	5.99	.91	1.48	.00	1.48	1.49	1.58	15.017	END OF CHARGE
6881.	5.98	.91	1.48	.00	1.46	1.48	1.60	13.827	
6913.	5.98	.92	1.47	.00	1.45	1.48	1.61	12.450	
6960.	5.98	.99	1.48	.00	1.48	1.49	1.57	16.301	
6992.	5.99	.91	1.48	.00	1.47	1.48	1.60	13.943	
7024.	5.99	.92	1.47	.00	1.47	1.48	1.60	13.523	
7056.	5.96	1.00	1.46	.00	1.46	1.48	1.58	14.293	
7088.	5.98	.92	1.47	.00	1.47	1.48	1.60	13.441	
7120.	5.98	.86	1.47	.00	1.47	1.48	1.60	13.523	
7153.	5.96	.89	1.46	.00	1.46	1.48	1.60	12.461	
7183.	5.95	.88	1.46	.00	1.46	1.48	1.58	12.858	
7216.	5.94	.88	1.46	.00	1.46	1.47	1.57	13.021	
7248.	6.01	.91	1.47	.00	1.48	1.48	1.62	13.512	

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PACK NO. 127
GULTON 5 A.H. NIMBUS

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 130

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	
7396.	4.63	1.46	1.17	.00	1.16	1.17	1.15	END OF DISCHARGE
7492.	4.66	1.46	1.18	.00	1.18	1.18	1.16	
7524.	4.61	1.46	1.16	.00	1.17	1.17	1.14	
7556.	4.53	1.46	1.11	.00	1.16	1.16	1.12	
7588.	4.46	1.46	1.14	.00	1.18	1.19	1.17	
7649.	3.89	1.42	.13	.00	1.11	1.12	1.08	
		.98						
7396.	5.72	.84	1.44	.00	1.43	1.44	1.43	END OF CHARGE
7492.	5.73	.85	1.44	.00	1.44	1.44	1.44	
7524.	5.72	.83	1.44	.00	1.44	1.44	1.43	
7556.	5.72	.80	1.43	.00	1.44	1.44	1.43	
7588.	5.72	.81	1.44	.00	1.44	1.44	1.43	
7649.	5.72	.99	1.43	.00	1.44	1.44	1.44	

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PACK NO. 244 DEPTH OF DISCHARGE 25 TEST TEMPERATURE -20 C
GULTON 5.6 A.H. FRS PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 2.80	CELL VOLTAGES 1	2	3	4	5	
3712.	5.79	2.80	1.15	1.16	1.14	1.15	1.14	END OF DISCHARGE
3744.	5.65	2.80	1.14	1.14	1.14	1.14	1.13	
3776.	5.66	2.80	1.15	1.15	1.14	1.15	1.14	
3808.	5.67	2.81	1.15	1.15	1.14	1.14	1.14	
3840.	5.69	2.81	1.19	1.19	1.19	1.19	1.18	
3872.	5.67	2.81	1.15	1.14	1.14	1.14	1.14	
3904.	5.55	2.81	1.17	1.16	1.17	1.18	1.17	
3936.	5.62	2.82	1.13	1.13	1.14	1.13	1.13	
3968.	5.68	2.77	1.15	1.14	1.14	1.14	1.14	
4000.	5.67	2.77	1.15	1.14	1.14	1.14	1.14	
4032.	5.68	2.78	1.15	1.14	1.15	1.15	1.14	
4079.	5.74	2.79	1.16	1.15	1.15	1.16	1.15	
4111.	5.81	2.76	1.15	1.17	1.17	1.17	1.17	
		1.61						
3712.	7.66	.78	1.54	1.54	1.55	1.55	1.54	END OF CHARGE
3744.	7.66	.79	1.54	1.54	1.55	1.55	1.54	
3776.	7.66	.77	1.54	1.54	1.54	1.54	1.54	
3808.	7.66	.78	1.54	1.54	1.55	1.54	1.54	
3840.	7.12	1.60	1.43	1.44	1.44	1.43	1.43	
3872.	7.65	.76	1.54	1.54	1.54	1.54	1.53	
3904.	7.65	.75	1.54	1.54	1.55	1.54	1.54	
3936.	7.64	.80	1.54	1.53	1.54	1.54	1.54	
3968.	7.63	.79	1.53	1.53	1.54	1.53	1.53	
4000.	7.65	.72	1.54	1.54	1.54	1.54	1.54	
4032.	7.67	.74	1.55	1.54	1.56	1.54	1.55	
4079.	7.74	.77	1.56	1.55	1.56	1.55	1.56	
4111.	7.83	.93	1.57	1.57	1.59	1.57	1.58	

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PACK NO. 200 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GULTON 5.6 A.H. FRS PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 2.80	CELL VOLTAGES 1	2	3	4	5	
3880.	5.79	2.75	1.17	1.17	1.16	1.16	1.16	END OF
3912.	5.78	2.74	1.17	1.16	1.15	1.16	1.16	DISCHARGE
3944.	5.78	2.75	1.17	1.16	1.15	1.16	1.16	
3976.	5.78	2.75	1.17	1.17	1.16	1.16	1.16	
4009.	5.77	2.76	1.17	1.17	1.16	1.16	1.16	
4040.	5.78	2.75	1.17	1.16	1.15	1.15	1.16	
4072.	5.87	2.76	1.20	1.19	1.18	1.14	1.20	
4103.	5.74	2.78	1.16	1.15	1.14	1.14	1.15	
4136.	5.78	2.76	1.16	1.16	1.15	1.15	1.15	
4167.	5.78	2.78	1.17	1.16	1.15	1.16	1.16	
4200.	5.81	2.80	1.18	1.17	1.16	1.17	1.18	
4232.	5.78	2.74	1.17	1.17	1.16	1.16	1.16	
4263.	5.80	2.76	1.17	1.17	1.16	1.16	1.16	
4295.	5.74	2.74	1.16	1.15	1.14	1.15	1.15	
4328.	5.81	2.82	1.18	1.17	1.16	1.17	1.17	
		1.61						
3880.	7.66	.99	1.54	1.54	1.52	1.54	1.53	END OF
3912.	7.66	.95	1.54	1.54	1.52	1.54	1.53	CHARGE
3944.	7.67	.91	1.54	1.54	1.53	1.55	1.53	
3976.	7.67	.98	1.54	1.55	1.53	1.55	1.53	
4009.	7.66	.93	1.54	1.55	1.53	1.55	1.53	
4040.	7.68	.95	1.54	1.54	1.53	1.54	1.53	
4072.	7.67	.94	1.54	1.54	1.52	1.54	1.53	
4103.	7.68	.90	1.55	1.55	1.52	1.54	1.53	
4136.	7.66	.93	1.54	1.54	1.52	1.54	1.53	
4167.	7.67	.89	1.54	1.54	1.52	1.54	1.53	
4200.	7.71	.99	1.55	1.55	1.53	1.55	1.54	
4232.	7.73	.97	1.56	1.56	1.54	1.55	1.54	
4263.	7.69	1.01	1.56	1.56	1.54	1.55	1.54	
4295.	7.68	.94	1.55	1.54	1.52	1.54	1.53	
4328.	7.67	.96	1.55	1.54	1.53	1.55	1.53	

PACK NO. 276
GULTON 5.6 A.H. FRS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 2.80	CELL VOLTAGES 1	2	3	4	5	
3968.	4.27	2.76	1.04	.00	1.06	1.11	1.11	END OF DISCHARGE
4000.	4.22	2.75	1.02	.00	1.04	1.10	1.10	
4032.	4.38	2.78	1.09	.00	1.08	1.13	1.13	
4064.	4.32	2.77	1.06	.00	1.06	1.12	1.11	
4095.	4.36	2.77	1.08	.00	1.08	1.12	1.12	
4128.	4.24	2.80	1.08	.00	1.10	1.14	1.15	
4160.	4.22	2.79	1.08	.00	1.08	1.13	1.15	
4193.	4.26	2.77	1.04	.00	1.05	1.10	1.11	
4225.	4.23	2.75	1.02	.00	1.06	1.09	1.10	
4256.	4.25	2.75	1.04	.00	1.05	1.10	1.10	
4288.	4.25	2.76	1.03	.00	1.05	1.11	1.11	
4304.	4.18	2.73	1.01	.00	1.07	1.06	1.08	
4335.	4.30	2.80	1.07	.00	1.06	1.10	1.10	
4368.	4.25	2.77	1.04	.00	1.05	1.10	1.10	
		1.75						
3968.	5.91	1.74	1.47	.00	1.50	1.48	1.48	END OF CHARGE
4000.	5.89	1.74	1.47	.00	1.49	1.47	1.47	
4032.	5.91	1.72	1.48	.00	1.50	1.48	1.48	
4064.	5.92	1.73	1.48	.00	1.50	1.48	1.48	
4095.	5.91	1.73	1.48	.00	1.50	1.48	1.48	
4128.	5.90	1.73	1.47	.00	1.51	1.48	1.48	
4160.	5.91	1.73	1.48	.00	1.50	1.48	1.48	
4193.	5.88	1.74	1.47	.00	1.49	1.47	1.47	
4225.	5.85	1.74	1.46	.00	1.49	1.46	1.46	
4256.	5.89	1.72	1.47	.00	1.50	1.48	1.48	
4288.	5.88	1.74	1.47	.00	1.49	1.48	1.48	
4304.	5.88	1.76	1.47	.00	1.49	1.47	1.47	
4335.	5.90	1.76	1.47	.00	1.49	1.47	1.47	
4368.	5.88	1.76	1.47	.00	1.50	1.47	1.48	

PACK NO. 242
GULTON 5.6 A.H. FRS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 2.80	CELL VOLTAGES 1	2	3	4	5	
3798.	2.34	2.51	1.23	.11	.00	1.24	.00	END OF DISCHARGE
3798.	4.24	2.27 2.27	1.52	1.21	.00	1.51	.00	END OF CHARGE

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PACK NO. 232
GULTON 5.6 A.H. RS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE -20 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 2.80	CELL VOLTAGES 1	2	3	4	5	
3705.	5.67	2.70	1.15	1.15	1.15	1.15	1.14	
3737.	5.61	2.73	1.13	1.14	1.13	1.14	1.12	END OF DISCHARGE
3769.	5.66	2.70	1.15	1.15	1.14	1.14	1.14	
3801.	5.65	2.72	1.14	1.14	1.14	1.14	1.13	
3865.	6.53	1.11	1.35	1.34	1.36	1.37	1.37	
3897.	5.49	2.72	1.16	1.16	1.16	1.17	1.15	
3930.	5.60	2.78	1.13	1.12	1.12	1.13	1.12	
3962.	5.61	2.81	1.13	1.13	1.14	1.13	1.12	
3993.	5.71	2.78	1.15	1.15	1.15	1.15	1.15	
4025.	5.63	2.78	1.14	1.14	1.14	1.14	1.12	
4041.	5.95	2.71	1.20	1.20	1.19	1.20	1.21	
4072.	5.79	2.71	1.16	1.16	1.16	1.16	1.17	
4105.	5.80	2.74	1.17	1.17	1.17	1.17	1.18	
		1.61						
3705.	7.53	.71	1.51	1.54	1.52	1.52	1.50	END OF CHARGE
3737.	7.53	.80	1.51	1.54	1.51	1.52	1.50	
3769.	7.52	.81	1.51	1.54	1.52	1.52	1.50	
3801.	7.53	.79	1.51	1.54	1.52	1.52	1.50	
3865.	7.54	.32	1.51	1.53	1.52	1.52	1.50	
3897.	7.54	.81	1.51	1.54	1.52	1.52	1.50	
3930.	7.52	.81	1.51	1.54	1.51	1.51	1.50	
3962.	7.50	.84	1.50	1.53	1.51	1.51	1.49	
3993.	7.47	1.07	1.50	1.53	1.50	1.51	1.49	
4025.	7.53	.83	1.51	1.54	1.52	1.52	1.51	
4041.	7.98	.98	1.59	1.62	1.62	1.61	1.59	
4072.	7.94	.90	1.58	1.64	1.59	1.59	1.58	
4105.	7.99	.98	1.59	1.68	1.60	1.59	1.59	

PACK NO. 390 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GULTON 5.6 A.H. RS PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 2.80	CELL VOLTAGES 1	2	3	4	5	
3976.	5.86	2.82	1.19	1.17	1.18	1.18	1.16	END OF
4008.	5.89	2.81	1.20	1.18	1.18	1.19	1.17	DISCHARGE
4040.	5.86	2.82	1.19	1.17	1.17	1.18	1.16	
4071.	5.87	2.81	1.19	1.17	1.18	1.18	1.16	
4104.	5.95	2.85	1.22	1.19	1.19	1.17	1.20	
4136.	5.94	2.83	1.22	1.19	1.20	1.17	1.20	
4169.	5.84	2.83	1.18	1.16	1.17	1.17	1.15	
4201.	5.85	2.83	1.18	1.16	1.17	1.17	1.15	
4232.	5.85	2.81	1.19	1.17	1.17	1.18	1.16	
4264.	5.86	2.82	1.19	1.17	1.17	1.18	1.16	
4296.	5.85	2.83	1.19	1.18	1.18	1.18	1.16	
4329.	5.88	2.81	1.19	1.17	1.18	1.18	1.16	
4360.	5.87	2.80	1.19	1.17	1.17	1.18	1.16	
4393.	5.91	2.82	1.20	1.18	1.19	1.19	1.17	
		1.61						
3976.	7.90	1.09	1.59	1.58	1.58	1.57	1.61	END OF
4008.	7.86	1.05	1.58	1.57	1.57	1.56	1.60	CHARGE
4040.	7.88	1.02	1.59	1.57	1.58	1.56	1.61	
4071.	7.87	1.04	1.58	1.57	1.57	1.55	1.60	
4104.	7.88	1.00	1.58	1.57	1.58	1.55	1.60	
4136.	7.88	.96	1.59	1.57	1.58	1.56	1.61	
4169.	7.88	1.04	1.58	1.57	1.57	1.55	1.60	
4201.	7.84	1.01	1.57	1.56	1.57	1.55	1.59	
4232.	7.84	.94	1.58	1.56	1.57	1.55	1.59	
4264.	7.84	.97	1.57	1.56	1.57	1.55	1.59	
4296.	7.86	1.00	1.58	1.58	1.59	1.56	1.61	
4329.	7.89	1.09	1.58	1.57	1.58	1.56	1.60	
4360.	7.87	1.04	1.58	1.57	1.57	1.55	1.60	
4393.	7.88	1.03	1.59	1.57	1.58	1.56	1.60	

PACK NO. 396 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
GULTON 5.6 A.H. RS PERCENT OF RECHAPGE 125 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 2.80	CELL VOLTAGES 1	2	3	4	5	
4025.	4.47	2.69	.0[illegible]	1.14	1.15	1.12	1.10	END OF
4056.	4.44	2.66	.0[illegible]	1.12	1.15	1.11	1.10	DISCHARGE
4089.	4.38	2.71	.0[illegible]	1.10	1.14	1.08	1.07	
4121.	4.49	2.79	.0[illegible]	1.13	1.15	1.12	1.11	
4153.	4.44	2.76	.0[illegible]	1.12	1.14	1.10	1.09	
4185.	4.47	2.78	.00	1.12	1.14	1.11	1.10	
4217.	4.60	2.70	.0[illegible]	1.16	1.18	1.10	1.16	
4281.	4.29	2.65	.0[illegible]	1.08	1.13	1.05	1.03	
4313.	4.39	2.74	.00	1.10	1.14	1.08	1.07	
4345.	4.40	2.73	.0[illegible]	1.10	1.15	1.10	1.09	
4392.	4.41	2.73	.09	1.10	1.14	1.10	1.09	
4424.	4.42	2.74	.0[illegible]	1.09	1.14	1.11	1.10	
		1.75						
4025.	5.92	1.29	.00	1.47	1.55	1.47	1.47	END OF
4056.	5.94	1.40	.0[illegible]	1.47	1.53	1.48	1.48	CHARGE
4089.	5.95	1.38	.00	1.47	1.54	1.48	1.48	
4121.	5.95	1.38	.0[illegible]	1.47	1.53	1.48	1.48	
4153.	5.96	1.29	.0[illegible]	1.47	1.54	1.47	1.48	
4185.	5.96	1.28	.00	1.47	1.54	1.47	1.48	
4217.	5.96	1.30	.0[illegible]	1.47	1.54	1.47	1.48	
4281.	5.92	1.25	.0[illegible]	1.46	1.53	1.46	1.46	
4313.	5.94	1.24	.0[illegible]	1.47	1.53	1.47	1.47	
4345.	5.95	1.33	.0[illegible]	1.48	1.55	1.48	1.48	
4392.	5.97	1.28	.00	1.48	1.54	1.47	1.48	
4424.	5.98	1.31	.0[illegible]	1.48	1.54	1.48	1.48	

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PACK NO. 213
GULTON HSI 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	
8469.	6.01	2.99	1.21	1.22	1.21	1.21	1.21	END OF DISCHARGE
8500.	6.00	3.00	1.21	1.22	1.21	1.21	1.21	
8533.	6.00	3.03	1.21	1.22	1.21	1.21	1.21	
8579.	6.04	2.98	1.22	1.22	1.22	1.22	1.21	
8611.	6.02	2.97	1.22	1.22	1.22	1.21	1.21	
8643.	5.89	2.96	1.24	1.24	1.24	1.24	1.25	
8707.	5.99	2.99	1.21	1.21	1.20	1.20	1.20	
8739.	6.01	2.99	1.21	1.21	1.21	1.21	1.21	
8803.	6.01	3.00	1.21	1.21	1.21	1.21	1.21	
8834.	6.01	3.00	1.21	1.22	1.21	1.21	1.21	
8867.	6.01	3.01	1.21	1.21	1.22	1.21	1.21	
8899.	6.02	2.97	1.21	1.22	1.21	1.21	1.21	
		1.73						
8469.	7.68	.76	1.54	1.56	1.53	1.54	1.57	END OF CHARGE
8500.	7.66	.87	1.53	1.56	1.53	1.53	1.56	
8533.	7.74	.97	1.55	1.57	1.55	1.55	1.59	
8579.	7.81	.91	1.56	1.58	1.56	1.55	1.60	
8611.	7.80	.95	1.56	1.58	1.56	1.54	1.60	
8643.	7.79	.99	1.57	1.58	1.57	1.53	1.60	
8707.	7.76	1.04	1.56	1.57	1.55	1.51	1.60	
8739.	7.81	.98	1.57	1.59	1.57	1.53	1.61	
8803.	7.82	1.04	1.58	1.59	1.57	1.52	1.62	
8834.	7.81	1.07	1.57	1.59	1.57	1.51	1.61	
8867.	7.82	1.06	1.58	1.59	1.58	1.50	1.62	
8899.	7.81	1.01	1.58	1.59	1.57	1.49	1.62	

PACK NO. 59 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
GULTON 6 A.H. 3RD ELECTRODE R 10 10 10 10 10 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	3RD ELECT VOLTAGES 1	2	3	4	5	CELL VOLTAGES 1	2	3	4	5	AH OUT	
7239.	4.74	3.05	.108	.049	.000	.072	.068	1.19	1.18	.00	1.19	1.19	.000	END OF
7272.	4.86	2.93	.201	.104	.000	.158	.149	1.22	1.21	.00	1.21	1.22	.000	DISCHARGE
7303.	4.81	3.04	.123	.059	.000	.092	.083	1.21	1.20	.00	1.20	1.20	.000	
7347.	4.81	3.10	.129	.084	.000	.116	.105	1.21	1.21	.00	1.21	1.21	.000	
7381.	5.04	3.04	.116	.056	.000	.070	.078	1.20	1.20	.00	1.28	1.18	.000	
7412.	4.91	2.98	.180	.112	.000	.140	.156	1.24	1.23	.00	1.24	1.23	.000	
7445.	4.91	2.95	.181	.119	.000	.138	.153	1.24	1.23	.00	1.23	1.23	.000	
7477.	4.90	2.93	.165	.104	.000	.125	.139	1.23	1.22	.00	1.23	1.23	.000	
7507.	4.87	2.94	.179	.119	.000	.133	.153	1.23	1.22	.00	1.22	1.22	.000	
7542.	4.86	2.94	.175	.119	.000	.128	.141	1.23	1.21	.00	1.22	1.22	.000	
7573.	4.87	2.95	.163	.116	.000	.121	.134	1.23	1.21	.00	1.22	1.22	.000	
7606.	4.87	2.96	.160	.113	.000	.117	.129	1.23	1.21	.00	1.22	1.22	.000	
7638.	4.85	2.95	.172	.119	.000	.123	.139	1.22	1.21	.00	1.21	1.22	.000	
7239.	5.73	.04	.156	.156	.000	.192	.200	1.44	1.44	.00	1.43	1.43		TRIP
7272.	5.93	.12	.125	.125	.000	.154	.156	1.48	1.49	.00	1.48	1.48		POINT
7303.	5.74	.05	.143	.152	.000	.190	.193	1.43	1.44	.00	1.43	1.43		
7347.	5.41	.04	.120	.140	.000	.190	.172	1.35	1.35	.00	1.35	1.35		
7381.	5.75	.05	.158	.165	.000	.160	.176	1.43	1.43	.00	1.43	1.42		
7412.	5.94	.23	.139	.158	.000	.152	.159	1.49	1.50	.00	1.49	1.48		
7445.	5.84	.15	.137	.161	.000	.156	.163	1.46	1.47	.00	1.46	1.46		
7477.	5.91	.31	.115	.149	.000	.142	.150	1.48	1.49	.00	1.48	1.48		
7573.	5.85	.21	.112	.150	.000	.134	.136	1.46	1.47	.00	1.47	1.46		
7606.	5.75	.11	.119	.163	.000	.143	.152	1.44	1.44	.00	1.44	1.44		
7638.	6.19	1.58	.121	.147	.000	.128	.131	1.53	1.58	.00	1.55	1.54		

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													AH IN	
7239.	5.68	.04	.172	.152	.000	.192	.196	1.43	1.42	.00	1.42	1.42	.000	END OF
7272.	5.93	.12	.125	.125	.000	.154	.156	1.48	1.49	.00	1.48	1.48	.000	CHARGE
7303.	5.65	.04	.172	.143	.000	.189	.190	1.41	1.41	.00	1.41	1.41	.000	
7347.	5.39	.04	.121	.126	.000	.166	.153	1.35	1.35	.00	1.35	1.35	.000	
7381.	5.66	.04	.169	.152	.000	.155	.175	1.41	1.41	.00	1.41	1.40	.000	
7412.	5.94	.23	.139	.158	.000	.152	.159	1.49	1.50	.00	1.49	1.48	.000	
7445.	5.84	.15	.137	.161	.000	.156	.163	1.46	1.47	.00	1.46	1.46	.000	
7477.	5.67	.06	.141	.169	.000	.161	.179	1.42	1.42	.00	1.42	1.42	.000	
7507.	6.27	3.00	.119	.092	.000	.096	.109	1.57	1.58	.00	1.56	1.57	.000	
7542.	6.48	3.01	.129	.119	.000	.105	.120	1.61	1.66	.00	1.60	1.62	.000	
7573.	5.69	.07	.129	.163	.000	.147	.156	1.43	1.43	.00	1.42	1.42	.000	
7606.	5.65	.06	.138	.172	.000	.150	.161	1.42	1.42	.00	1.42	1.42	.000	
7638.	6.19	1.58	.121	.147	.000	.128	.131	1.53	1.58	.00	1.55	1.54	.000	

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PACK NO. 23 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
GULTON 6 A.H. 3RD ELECTRODE R 12 18 20 29 24 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	3RD ELECT VOLTAGES 1	2	3	4	5	CELL VOLTAGES 1	2	3	4	5		
8578.	5.73	3.00	.132	.182	.159	.193	.316	1.14	1.16	1.14	1.17	1.14	.000	END OF
8609.	5.68	3.01	.119	.175	.151	.191	.312	1.13	1.15	1.12	1.17	1.13	.000	DISCHARGE
8642.	5.77	3.01	.125	.179	.169	.199	.323	1.14	1.16	1.15	1.17	1.15	.000	
8689.	5.98	2.94	.150	.178	.169	.152	.371	1.20	1.20	1.20	1.21	1.20	.000	
8721.	5.81	3.14	.159	.171	.174	.200	.338	1.17	1.16	1.15	1.18	1.15	.000	
8753.	5.82	2.95	.152	.171	.172	.196	.333	1.17	1.17	1.16	1.18	1.16	.000	
8816.	3.85	2.67	.000	.029	.028	.043	.022	.64	.83	.85	.86	.68	.000	
8849.	5.95	3.01	.169	.186	.140	.245	.385	1.19	1.19	1.19	1.20	1.19	.000	
8578.	7.04	.01	.163	.220	.223	.246	.392	1.41	1.41	1.41	1.41	1.41		TRIP
8609.	7.04	.01	.150	.216	.225	.248	.392	1.40	1.41	1.41	1.41	1.41		POINT
8642.	7.07	.01	.153	.213	.230	.249	.379	1.41	1.42	1.42	1.41	1.42		
8689.	6.94	.01	.175	.206	.209	.189	.429	1.39	1.40	1.39	1.39	1.39		
8721.	6.94	.01	.180	.209	.232	.249	.412	1.39	1.39	1.39	1.39	1.39		
8753.	7.03	.01	.171	.196	.220	.236	.360	1.41	1.41	1.41	1.41	1.41		
8849.	6.95	.01	.178	.203	.165	.259	.200	1.39	1.39	1.39	1.39	1.39		
													AH IN	
8578.	6.90	.01	.172	.232	.232	.250	.409	1.38	1.38	1.38	1.38	1.38	.000	END OF
8609.	6.90	.01	.158	.228	.236	.250	.409	1.38	1.38	1.38	1.38	1.38	.000	CHARGE
8642.	6.91	.00	.161	.227	.238	.256	.410	1.38	1.39	1.39	1.38	1.38	.000	
8689.	6.90	.01	.177	.212	.216	.192	.435	1.38	1.39	1.38	1.39	1.38	.000	
8721.	6.90	.01	.188	.212	.236	.252	.415	1.39	1.38	1.38	1.38	1.38	.000	
8753.	6.89	.01	.186	.213	.235	.246	.412	1.38	1.38	1.38	1.38	1.38	.000	
8816.	7.33	3.05	.099	.147	.112	.151	.214	1.47	1.47	1.46	1.46	1.46	.000	
8849.	6.95	.01	.178	.203	.165	.259	.200	1.39	1.39	1.39	1.39	1.39	.000	

PACK NO. 35 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 C
GULTON 6 A.H. 3RD ELECTRODE R 47 47 47 47 47 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.80	3RD ELECT VOLTAGES 1	2	3	4	5	CELL VOLTAGES 1	2	3	4	5		
6572.	5.73	1.80	.112	.088	.083	.142	.166	1.14	1.15	1.14	1.16	1.15	.000	END OF
6604.	5.75	1.80	.112	.088	.090	.145	.167	1.14	1.15	1.14	1.16	1.16	.000	DISCHARGE
6636.	5.73	1.81	.110	.087	.090	.139	.162	1.14	1.15	1.14	1.15	1.15	.000	
6667.	5.76	1.81	.118	.092	.092	.145	.170	1.15	1.16	1.15	1.16	1.16	.000	
6701.	5.75	1.80	.116	.092	.092	.139	.158	1.14	1.15	1.15	1.16	1.16	.000	
6731.	5.77	1.80	.113	.092	.019	.144	.169	1.15	1.16	1.15	1.17	1.16	.000	
6764.	5.68	1.81	.088	.070	.059	.098	.123	1.11	1.13	1.12	1.22	1.11	.000	
6794.	5.72	1.82	.108	.091	.080	.136	.139	1.14	1.15	1.14	1.16	1.16	.000	
6825.	5.76	1.80	.112	.090	.089	.139	.148	1.15	1.16	1.15	1.16	1.16	.000	
6859.	5.67	1.82	.099	.082	.076	.128	.145	1.13	1.13	1.13	1.15	1.15	.000	
6891.	5.71	1.82	.100	.083	.072	.110	.146	1.14	1.15	1.14	1.15	1.15	.000	
6924.	5.72	1.83	.100	.083	.078	.123	.150	1.14	1.15	1.14	1.15	1.15	.000	
6935.	5.72	1.83	.097	.076	.075	.116	.142	1.13	1.14	1.13	1.15	1.14	.000	
6987.	5.86	1.84	.126	.096	.098	.141	.169	1.18	1.18	1.17	1.18	1.17	.000	
6572.	6.91	.05	.239	.192	.193	.461	.432	1.38	1.39	1.38	1.38	1.38		TRIP
6604.	6.91	.05	.241	.192	.199	.465	.432	1.38	1.39	1.38	1.38	1.38		POINT
6636.	6.93	.05	.235	.186	.199	.458	.430	1.38	1.39	1.39	1.38	1.39		
6667.	6.93	.05	.240	.195	.199	.461	.436	1.39	1.39	1.39	1.39	1.39		
6701.	6.94	.05	.241	.192	.199	.456	.433	1.39	1.39	1.39	1.39	1.39		
6731.	6.93	.05	.239	.196	.199	.462	.434	1.39	1.39	1.39	1.39	1.39		
6764.	6.97	.05	.230	.188	.189	.451	.422	1.38	1.38	1.38	1.39	1.37		
6794.	6.91	.05	.219	.179	.166	.266	.329	1.38	1.39	1.39	1.39	1.38		
6825.	6.92	.05	.222	.176	.179	.263	.448	1.39	1.39	1.39	1.39	1.39		
6859.	6.91	.05	.209	.165	.163	.259	.442	1.39	1.39	1.39	1.38	1.38		
6891.	6.90	.05	.212	.159	.159	.243	.443	1.38	1.38	1.38	1.38	1.38		
6924.	6.90	.05	.211	.169	.169	.250	.446	1.38	1.38	1.38	1.38	1.38		
6935.	6.90	.05	.210	.163	.166	.242	.448	1.38	1.38	1.38	1.38	1.38		
6987.	6.91	.06	.229	.173	.180	.261	.446	1.38	1.38	1.38	1.38	1.38		

													AH IN	
6572.	6.81	.05	.238	.200	.195	.412	.401	1.36	1.37	1.36	1.36	1.36	.000	END OF
6604.	6.81	.05	.236	.196	.203	.415	.400	1.36	1.37	1.36	1.36	1.36	.000	CHARGE
6636.	6.82	.04	.236	.192	.200	.408	.400	1.37	1.37	1.37	1.36	1.36	.000	
6667.	6.82	.04	.240	.202	.206	.411	.405	1.37	1.37	1.37	1.36	1.37	.000	
6701.	6.82	.04	.239	.200	.205	.405	.402	1.37	1.37	1.37	1.36	1.37	.000	
6731.	6.82	.05	.238	.203	.199	.408	.402	1.37	1.37	1.37	1.37	1.37	.000	
6764.	6.85	.04	.230	.198	.197	.399	.392	1.36	1.36	1.36	1.37	1.35	.000	
6794.	6.82	.05	.216	.185	.172	.253	.419	1.37	1.37	1.37	1.37	1.37	.000	
6825.	6.82	.05	.217	.179	.179	.250	.420	1.37	1.37	1.37	1.37	1.37	.000	
6859.	6.81	.05	.209	.169	.169	.248	.417	1.37	1.37	1.37	1.37	1.36	.000	
6891.	6.81	.05	.207	.172	.160	.230	.416	1.36	1.37	1.37	1.36	1.36	.000	
6924.	6.82	.05	.209	.171	.166	.236	.418	1.37	1.37	1.37	1.36	1.36	.000	
6955.	6.82	.05	.208	.165	.163	.232	.420	1.37	1.37	1.37	1.36	1.36	.000	
6987.	6.83	.05	.230	.182	.190	.252	.428	1.37	1.37	1.37	1.36	1.36	.000	

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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 3.60	CELL VOLTAGES 1	2	3	4	5	
8588.	6.2[illegible]	3.57	1.27	1.28	1.27	1.28	1.26	END OF
8620.	6.20	3.60	1.25	1.26	1.25	1.26	1.24	DISCHARGE
8652.	6.18	3.57	1.24	1.25	1.25	1.25	1.24	
8684.	6.17	3.55	1.24	1.25	1.25	1.25	1.24	
8716.	6.16	3.63	1.24	1.25	1.25	1.25	1.23	
8748.	6.21	3.60	1.26	1.26	1.27	1.27	1.27	
8780.	6.25	3.55	1.26	1.26	1.27	1.26	1.25	
8812.	6.12	3.56	1.23	1.24	1.23	1.23	1.23	
8844.	6.12	3.62	1.23	1.24	1.24	1.24	1.23	
8876.	6.16	3.50	1.24	1.24	1.25	1.25	1.24	
8909.	6.14	3.64	1.24	1.24	1.24	1.24	1.24	
8939.	6.14	3.61	1.24	1.24	1.24	1.24	1.24	
8972.	6.14	3.59	1.23	1.24	1.24	1.23	1.23	
9004.	6.14	3.58	1.23	1.24	1.24	1.24	1.24	
		2.07						
8588.	7.73	1.43	1.64	1.55	1.52	1.53	1.56	END OF
8620.	7.32	1.12	1.50	1.47	1.46	1.47	1.47	CHARGE
8652.	7.32	1.06	1.51	1.47	1.45	1.46	1.48	
8684.	7.[illegible]6	2.04	1.42	1.43	1.42	1.42	1.42	
8716.	7.31	1.09	1.50	1.47	1.45	1.46	1.47	
8748.	7.[illegible]0	1.19	1.5[illegible]	1.47	1.45	1.46	1.47	
8780.	7.38	.93	1.54	1.47	1.46	1.46	1.49	
8812.	7.24	1.2[illegible]	1.48	1.45	1.44	1.44	1.46	
8844.	7.3[illegible]	1.29	1.51	1.47	1.45	1.46	1.47	
8876.	7.35	1.27	1.52	1.47	1.47	1.47	1.48	
8909.	7.32	1.20	1.52	1.46	1.45	1.46	1.48	
8939.	7.31	1.22	1.51	1.47	1.45	1.46	1.47	
8972.	7.32	1.25	1.51	1.47	1.45	1.46	1.47	
9004.	7.31	1.18	1.51	1.46	1.46	1.46	1.47	

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	
9424.	4.81	6.00	1.22	1.20	1.22	.00	1.20	END OF DISCHARGE
9457.	4.73	6.00	1.20	1.18	1.20	.00	1.18	
9489.	4.73	5.98	1.20	1.18	1.20	.00	1.19	
9521.	4.74	5.97	1.20	1.18	1.20	.00	1.18	
9553.	4.74	5.96	1.20	1.18	1.21	.00	1.18	
9585.	4.66	6.01	1.23	1.20	1.24	.00	1.22	
9649.	4.70	5.92	1.19	1.17	1.19	.00	1.17	
9681.	4.73	5.93	1.20	1.18	1.20	.00	1.18	
9713.	4.76	5.95	1.21	1.19	1.22	.00	1.19	
9745.	4.81	5.99	1.22	1.20	1.22	.00	1.21	
9776.	4.75	5.96	1.21	1.19	1.20	.00	1.19	
9809.	4.74	5.95	1.21	1.18	1.21	.00	1.18	
9841.	4.73	6.04	1.20	1.18	1.20	.00	1.18	
		3.45						
9424.	6.39	2.37	1.59	1.65	1.56	.00	1.62	END OF CHARGE
9457.	6.09	1.47	1.52	1.58	1.50	.00	1.53	
9489.	6.07	1.43	1.51	1.58	1.50	.00	1.53	
9521.	6.08	1.52	1.51	1.57	1.50	.00	1.53	
9553.	6.11	1.48	1.52	1.57	1.51	.00	1.54	
9585.	6.11	1.51	1.52	1.57	1.51	.00	1.54	
9649.	6.05	1.64	1.51	1.56	1.49	.00	1.52	
9681.	6.12	1.49	1.53	1.58	1.51	.00	1.55	
9713.	6.15	1.51	1.53	1.58	1.52	.00	1.55	
9745.	6.17	1.48	1.53	1.61	1.52	.00	1.55	
9776.	6.16	1.56	1.53	1.60	1.52	.00	1.55	
9809.	6.16	1.54	1.53	1.59	1.52	.00	1.55	
9841.	6.14	1.52	1.53	1.58	1.52	.00	1.55	

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PACK NO. 227
GULTON 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGE 1	2	3	4	5	
872[illegible]	5.57	5.92	1.16	1.11	1.10	1.13	1.13	END OF DISCHARGE
8752.	5.56	5.98	1.16	1.09	1.09	1.10	1.12	
8784.	5.51	6.02	1.15	1.08	1.10	1.10	1.12	
8816.	5.50	6.04	1.16	1.07	1.10	1.10	1.13	
8849.	5.53	6.05	1.16	1.05	1.11	1.13	1.13	
8880.	5.52	6.06	1.16	1.05	1.11	1.13	1.13	
8912.	5.21	6.02	1.16	1.05	1.08	1.09	1.13	
8943.	5.38	5.97	1.12	1.03	1.07	1.07	1.12	
8976.	5.49	5.97	1.12	1.04	1.11	1.12	1.13	
9007.	5.45	5.96	1.14	1.04	1.09	1.12	1.11	
9040.	5.43	6.00	1.14	1.04	1.12	1.13	1.13	
9072.	5.32	6.01	1.12	1.02	1.05	1.08	1.10	
9103.	5.38	6.00	1.12	1.02	1.07	1.11	1.11	
9135.	5.24	5.99	1.11	.99	1.03	1.08	1.07	
9168.	5.31	6.04	1.11	1.00	1.08	1.09	1.09	
		3.75						
872[illegible]	7.44	2.72	1.46	1.64	1.47	1.46	1.46	END OF CHARGE
8752.	7.42	2.68	1.46	1.64	1.47	1.46	1.46	
8784.	7.46	2.59	1.46	1.65	1.47	1.47	1.47	
8816.	7.49	2.59	1.47	1.66	1.47	1.47	1.47	
8849.	7.45	2.72	1.46	1.64	1.47	1.47	1.46	
8880.	7.54	3.60	1.48	1.67	1.48	1.48	1.48	
8912.	7.46	2.75	1.47	1.65	1.47	1.47	1.47	
8943.	7.42	3.07	1.46	1.63	1.46	1.45	1.46	
8976.	7.45	2.91	1.45	1.63	1.46	1.46	1.47	
9007.	7.45	2.91	1.46	1.63	1.47	1.47	1.46	
9040.	7.47	3.10	1.47	1.64	1.48	1.47	1.47	
9072.	7.47	2.96	1.47	1.63	1.47	1.47	1.47	
9103.	7.47	3.23	1.47	1.63	1.47	1.47	1.47	
9135.	7.46	3.14	1.47	1.63	1.47	1.47	1.47	
9168.	7.44	2.77	1.46	1.61	1.48	1.46	1.47	

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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	CELL VOLTAGES 1	2	3	4	5	
9379.	4.40	3.59	1.14	1.13	1.05	.00	1.12	END OF DISCHARGE
9411.	4.37	3.58	1.15	1.13	1.01	.00	1.12	
9443.	4.35	3.60	1.15	1.13	1.00	.00	1.11	
9475.	4.37	3.60	1.14	1.13	1.01	.00	1.11	
9508.	4.34	3.60	1.14	1.14	.99	.00	1.12	
9539.	4.33	3.61	1.14	1.13	.98	.00	1.12	
9571.	4.25	3.58	1.17	1.14	1.00	.00	1.14	
9602.	4.30	3.58	1.14	1.10	.98	.00	1.11	
9635.	4.34	3.56	1.13	1.09	1.02	.00	1.12	
9666.	4.28	3.55	1.15	1.07	.98	.00	1.12	
9699.	4.32	3.61	1.14	1.05	.99	.00	1.13	
9731.	4.21	3.60	1.14	1.01	.96	.00	1.13	
9762.	4.15	3.59	1.14	.98	.93	.00	1.13	
9794.	3.60	3.54	1.13	.95	.81	.00	1.08	
		2.88						
9379.	5.79	2.64	1.47	1.45	1.44	.00	1.44	END OF CHARGE
9411.	5.77	2.61	1.47	1.45	1.44	.00	1.43	
9443.	5.77	2.63	1.47	1.46	1.43	.00	1.44	
9475.	5.78	2.59	1.47	1.46	1.44	.00	1.44	
9508.	5.78	2.64	1.47	1.46	1.44	.00	1.44	
9539.	5.78	2.66	1.47	1.46	1.44	.00	1.44	
9571.	5.78	2.62	1.47	1.45	1.44	.00	1.44	
9602.	5.78	2.57	1.47	1.45	1.44	.00	1.44	
9635.	5.78	2.52	1.47	1.44	1.44	.00	1.44	
9666.	5.79	2.56	1.48	1.45	1.44	.00	1.44	
9699.	5.79	2.82	1.48	1.44	1.45	.00	1.45	
9731.	5.79	2.79	1.48	1.44	1.45	.00	1.45	
9762.	5.79	2.80	1.48	1.44	1.44	.00	1.45	
9794.	5.78	2.73	1.48	1.43	1.44	.00	1.44	

PACK NO. 69
YARDNEY 5 A.H.

DEPTH OF DISCHARGE 20
PERCENT OF RECHARGE .3A

TEST TEMPERATURE 25 C
ORBIT PERIOD 24 HRS.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.00	CELL VOLTAGES 1	2	3	4	5	
301.	5.35	1.01	1.07	1.09	1.08	1.09	1.07	END OF DISCHARGE
309.	5.18	1.01	1.09	1.10	1.11	1.12	1.10	
317.	5.37	1.01	1.08	1.09	1.09	1.09	1.07	
325.	5.25	1.01	1.09	1.10	1.10	1.11	1.10	
		.30						
301.	7.57	.00	1.42	1.43	1.68	1.68	1.42	END OF CHARGE
309.	7.57	.00	1.42	1.42	1.69	1.67	1.41	
317.	7.60	.00	1.42	1.43	1.71	1.68	1.42	
325.	7.58	.00	1.42	1.42	1.70	1.67	1.41	

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PACK NO. 233 DEPTH OF DISCHARGE 20 TEST TEMPERATURE 25 C
YARDNEY 5 A.H. PERCENT OF RECHARGE .3A ORBIT PERIOD 24 HRS.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.00	CELL VOLTAGES 1	2	3	4	5	
301.	5.35	1.00	1.08	1.08	1.08	1.09	1.07	
309.	5.17	.99	1.09	1.09	1.10	1.11	1.10	END OF DISCHARGE
317.	5.36	1.00	1.08	1.08	1.08	1.09	1.08	
325.	5.24	1.00	1.10	1.09	1.10	1.10	1.11	
		.30						
301.	7.61	.01	1.54	1.54	1.53	1.54	1.53	END OF CHARGE
309.	7.61	.01	1.53	1.53	1.53	1.53	1.53	
317.	7.63	.01	1.54	1.54	1.53	1.54	1.54	
325.	7.62	.01	1.54	1.54	1.52	1.54	1.53	

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PACK NO. 197 DEPTH OF DISCHARGE 17 TEST TEMPERATURE 0
YARDNEY 12 AH AGCD PERCENT OF RECHARGE 130 ORBIT PERIOD 1.5 HRS.

CYCLE NO.	PACK VOLTAGE	CURRENT 4.00	CELL VOLTAGES 1	2	3	4	5	
2557.	6.52	3.98	1.29	1.31	1.32	1.32	1.31	END OF DISCHARGE
2589.	6.46	3.98	1.27	1.30	1.32	1.32	1.31	
2621.	6.57	3.98	1.31	1.33	1.33	1.33	1.32	
2653.	6.56	3.98	1.30	1.32	1.32	1.33	1.32	
2686.	6.70	.81	1.34	1.35	1.34	1.35	1.34	
2717.	6.37	3.98	1.17	1.30	1.32	1.32	1.30	
2749.	6.26	4.08	1.13	1.30	1.34	1.35	1.34	
2780.	5.30	3.98	1.06	1.07	1.07	1.07	1.06	
2813.	6.69	3.92	1.34	1.35	1.35	1.35	1.34	
2844.	6.71	3.86	1.35	1.35	1.36	1.36	1.35	
2877.	5.18	3.95	1.00	1.05	1.07	1.07	1.06	
2909.	6.03	3.99	1.07	1.11	1.30	1.29	1.28	
2940.	6.24	3.98	1.07	1.26	1.32	1.32	1.31	
2972.	5.67	3.98	1.07	1.06	1.26	1.18	1.13	
		3.90						
2557.	8.04	.97	1.64	1.59	1.62	1.63	1.63	END OF CHARGE
2589.	8.04	.92	1.63	1.59	1.62	1.63	1.62	
2621.	8.04	.86	1.65	1.59	1.61	1.63	1.62	
2653.	8.04	1.01	1.63	1.61	1.60	1.61	1.61	
2686.	8.04	.19	1.63	1.57	1.60	1.62	1.63	
2717.	8.03	.89	1.63	1.59	1.62	1.62	1.62	
2749.	8.03	.88	1.63	1.60	1.62	1.62	1.62	
2780.	8.01	.88	1.62	1.61	1.61	1.61	1.60	
2813.	7.99	.97	1.61	1.57	1.60	1.62	1.62	
2844.	7.99	.91	1.61	1.58	1.62	1.63	1.62	
2877.	8.05	.91	1.62	1.62	1.62	1.62	1.63	
2909.	8.06	1.04	1.64	1.60	1.60	1.62	1.62	
2940.	7.90	.98	1.56	1.56	1.57	1.61	1.61	
2972.	7.87	.95	1.56	1.55	1.59	1.60	1.60	

PACK NO. 182
YARDNEY 12 AH AGZN

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 130

TEST TEMPERATURE 25
ORBIT PERIOD 1.5 HRS.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES 1	2	3	4	5	
3405.	5.25	5.93	1.07	1.06	1.03	1.06	1.07	END OF DISCHARGE
3436.	5.18	5.91	1.07	1.08	.96	1.05	1.06	
3469.	5.07	5.99	1.06	1.07	.88	1.04	1.05	
3501.	5.12	5.99	1.06	1.08	.92	1.04	1.05	
3533.	4.92	5.89	1.06	1.07	.74	1.03	1.05	
3565.	5.19	5.90	1.07	1.07	.98	1.05	1.05	
3597.	5.09	5.91	1.08	1.09	.95	1.07	1.09	
3661.	4.87	6.00	1.06	1.06	.70	1.02	1.05	
3693.	5.24	6.03	1.07	1.08	1.00	1.05	1.06	
3725.	5.20	5.96	1.07	1.08	.97	1.04	1.06	
3757.	5.32	6.05	1.08	1.08	1.05	1.07	1.07	
3788.	5.24	5.91	1.07	1.08	1.02	1.06	1.06	
3821.	5.11	5.94	1.07	1.07	.92	1.03	1.05	
3853.	5.04	5.97	1.07	1.07	.85	1.03	1.05	
		3.90						
3405.	7.84	1.21	1.59	1.57	1.55	1.57	1.58	END OF CHARGE
3436.	7.84	1.18	1.60	1.59	1.55	1.57	1.58	
3469.	7.84	1.19	1.60	1.59	1.55	1.57	1.58	
3501.	7.85	1.17	1.60	1.59	1.55	1.57	1.59	
3533.	7.84	1.20	1.59	1.58	1.56	1.57	1.58	
3565.	7.85	1.04	1.61	1.58	1.56	1.57	1.58	
3597.	7.86	1.00	1.59	1.59	1.57	1.57	1.59	
3661.	7.74	1.70	1.56	1.56	1.55	1.55	1.56	
3693.	7.90	.43	1.57	1.55	1.63	1.61	1.59	
3725.	7.99	.65	1.60	1.57	1.63	1.58	1.59	
3757.	7.94	.87	1.59	1.57	1.66	1.55	1.57	
3788.	7.81	1.33	1.59	1.57	1.55	1.57	1.57	
3821.	7.81	1.40	1.59	1.57	1.56	1.57	1.57	
3853.	7.76	1.56	1.58	1.56	1.55	1.55	1.56	

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PACK NO. 103
G.E. 5 A.H. NIMBUS

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 110

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	
7571.	6.22	1.52	1.25	1.25	1.26	1.27	1.26	END OF
7603.	6.19	1.51	1.24	1.24	1.25	1.26	1.26	DISCHARGE
7635.	6.20	1.51	1.25	1.25	1.26	1.26	1.25	
7666.	6.19	1.51	1.24	1.24	1.25	1.26	1.25	
7699.	6.16	1.53	1.26	1.25	1.28	1.28	1.28	
7731.	6.14	1.52	1.26	1.24	1.27	1.28	1.28	
7764.	6.10	1.52	1.22	1.20	1.23	1.23	1.24	
7796.	6.10	1.53	1.23	1.21	1.24	1.23	1.23	
7827.	6.11	1.52	1.24	1.21	1.24	1.23	1.24	
7859.	6.12	1.52	1.24	1.22	1.24	1.23	1.25	
7891.	6.14	1.52	1.23	1.22	1.23	1.23	1.24	
7924.	6.13	1.52	1.23	1.23	1.24	1.23	1.25	
7955.	6.12	1.52	1.23	1.23	1.23	1.22	1.23	
7988.	6.11	1.53	1.23	1.23	1.24	1.22	1.24	
		.83						
7571.	7.78	.53	1.57	1.52	1.62	1.57	1.55	END OF
7603.	7.78	.54	1.57	1.47	1.64	1.57	1.57	CHARGE
7635.	7.77	.65	1.57	1.49	1.63	1.57	1.55	
7666.	7.74	.68	1.57	1.47	1.63	1.56	1.55	
7699.	7.74	.69	1.57	1.46	1.64	1.57	1.55	
7731.	7.74	.69	1.57	1.45	1.64	1.58	1.55	
7764.	7.44	.46	1.51	1.41	1.58	1.46	1.51	
7796.	7.42	.48	1.51	1.41	1.59	1.44	1.51	
7827.	7.44	.49	1.53	1.41	1.59	1.43	1.52	
7859.	7.47	.51	1.53	1.43	1.60	1.44	1.53	
7891.	7.49	.50	1.52	1.43	1.60	1.44	1.52	
7924.	7.46	.50	1.52	1.44	1.59	1.43	1.52	
7955.	7.47	.49	1.52	1.43	1.59	1.42	1.52	
7988.	7.46	.48	1.53	1.44	1.60	1.41	1.52	

PACK NO. 107 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
G.E. 5 A.H. NIMBUS PERCENT OF RECHARGE 110 ORBIT PERIOD 90 MIN

CYCLE NO.	PACK VOLTAGES	CURRENT 2.50	CELL VOLTAGES 1	2	3	4	5	PSIA	
6943.	6.09	2.47	1.23	1.23	1.23	1.23	1.23	26.853	END OF
6975.	6.03	2.46	1.21	1.22	1.22	1.22	1.22	24.618	DISCHARGE
7007.	6.03	2.46	1.21	1.21	1.22	1.22	1.22	23.896	
7039.	6.71	.75	1.35	1.35	1.36	1.35	1.35	79.529	
7071.	5.81	2.48	1.23	1.22	1.24	1.24	1.25	22.735	
7103.	6.01	2.50	1.21	1.20	1.22	1.21	1.21	26.130	
7135.	5.97	2.49	1.20	1.20	1.20	1.20	1.21	21.699	
7167.	5.99	2.48	1.21	1.21	1.21	1.21	1.22	21.746	
7199.	6.01	2.50	1.21	1.21	1.22	1.21	1.22	21.870	
7232.	5.97	2.49	1.20	1.20	1.20	1.20	1.21	21.880	
7262.	5.99	2.51	1.21	1.21	1.21	1.21	1.21	21.594	
7295.	6.00	2.50	1.20	1.19	1.21	1.20	1.20	21.081	
7327.	6.00	2.45	1.21	1.20	1.22	1.20	1.21	20.386	
		1.38							
6943.	7.54	.59	1.53	1.51	1.50	1.52	1.53	28.194	END OF
6975.	7.59	.70	1.55	1.52	1.51	1.52	1.55	25.798	CHARGE
7007.	7.46	1.14	1.51	1.51	1.49	1.49	1.50	24.989	
7039.	7.57	.72	1.55	1.51	1.51	1.51	1.55	24.457	
7071.	7.57	.74	1.55	1.51	1.51	1.51	1.55	23.981	
7103.	7.57	.72	1.54	1.51	1.51	1.51	1.54	25.208	
7135.	7.51	.80	1.54	1.49	1.49	1.49	1.54	22.384	
7167.	7.54	.70	1.55	1.50	1.50	1.50	1.55	22.479	
7199.	7.51	.68	1.54	1.49	1.50	1.49	1.54	22.412	
7232.	7.59	.75	1.56	1.51	1.50	1.51	1.56	22.688	
7262.	7.59	.74	1.55	1.51	1.51	1.51	1.56	22.517	
7295.	7.59	.75	1.56	1.50	1.51	1.50	1.56	21.822	
7327.	7.59	.74	1.56	1.50	1.52	1.50	1.56	21.147	

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	
7563.	6.04	1.48	1.22	1.21	1.22	1.23	1.22	END OF DISCHARGE
7595.	6.02	1.49	1.21	1.21	1.21	1.22	1.22	
7627.	6.01	1.48	1.22	1.21	1.21	1.22	1.22	
7659.	6.03	1.48	1.22	1.22	1.21	1.22	1.22	
7692.	6.03	1.48	1.22	1.21	1.20	1.23	1.22	
7723.	6.03	1.48	1.22	1.21	1.21	1.23	1.22	
7755.	6.00	1.47	1.24	1.22	1.24	1.25	1.25	
7786.	6.01	1.49	1.21	1.20	1.22	1.22	1.22	
7850.	6.04	1.47	1.22	1.21	1.23	1.23	1.23	
7883.	6.07	1.48	1.21	1.20	1.21	1.22	1.23	
7915.	6.05	1.48	1.22	1.20	1.20	1.22	1.22	
7946.	6.03	1.49	1.21	1.20	1.19	1.22	1.22	
7978.	5.97	1.48	1.21	1.18	1.19	1.21	1.22	
8011.	6.04	1.47	1.22	1.20	1.20	1.22	1.22	
		.90						
7563.	7.13	.90	1.40	1.43	1.42	1.45	1.44	END OF CHARGE
7595.	7.12	.90	1.44	1.43	1.42	1.44	1.43	
7627.	7.13	.90	1.44	1.44	1.42	1.44	1.44	
7659.	7.15	.90	1.44	1.44	1.42	1.44	1.44	
7692.	7.14	.90	1.44	1.44	1.42	1.45	1.43	
7723.	7.16	.90	1.44	1.44	1.42	1.45	1.44	
7755.	7.14	.90	1.44	1.43	1.43	1.45	1.44	
7786.	7.14	.90	1.44	1.43	1.43	1.44	1.44	
7850.	7.16	.89	1.44	1.43	1.43	1.45	1.44	
7883.	7.15	.90	1.45	1.44	1.43	1.45	1.45	
7915.	7.17	.90	1.45	1.43	1.42	1.45	1.45	
7946.	7.15	.90	1.44	1.43	1.41	1.45	1.44	
7978.	7.14	.90	1.44	1.42	1.41	1.44	1.44	
8011.	7.16	.90	1.44	1.43	1.42	1.45	1.45	

PACK NO. 304 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
G.E. 5 A.H. NIMBUS PERCENT OF RECHARGE 120 ORBIT PERIOD 90 MIN

CYCLE NO.	PACK VOLTAGES	CURRENT 2.50	CELL VOLTAGES 1	2	3	4	5	PSIA	
6844.	4.52	2.45	1.15	1.15	1.12	.00	1.15	29.631	END OF DISCHARGE
6876.	4.44	2.47	1.14	1.14	1.06	.00	1.14	28.997	
6908.	4.42	2.45	1.13	1.14	1.06	.00	1.13	31.893	
6940.	4.40	2.52	1.13	1.13	1.06	.00	1.12	31.608	
6972.	4.40	2.51	1.13	1.13	1.04	.00	1.12	31.037	
6994.	4.30	2.50	1.12	1.11	1.02	.00	1.08	32.031	
7036.	4.25	2.51	1.16	1.15	1.10	.00	1.16	32.242	
7068.	4.29	2.49	1.12	1.10	1.01	.00	1.09	32.020	
7100.	4.21	2.46	1.11	1.07	.99	.00	1.06	32.253	
7132.	4.42	2.47	1.13	1.13	1.08	.00	1.12	31.682	
7164.	4.51	2.50	1.15	1.14	1.12	.00	1.14	30.709	
7197.	4.38	2.49	1.13	1.11	1.04	.00	1.12	32.242	
7227.	4.37	2.49	1.14	1.11	1.02	.00	1.13	31.175	
7260.	4.38	2.48	1.13	1.12	1.03	.00	1.12	26.291	
7292.	4.42	2.47	1.14	1.12	1.05	.00	1.13	32.168	
		1.50							
6844.	5.85	1.03	1.47	1.47	1.49	.00	1.46	27.253	END OF CHARGE
6876.	5.83	1.08	1.46	1.47	1.48	.00	1.46	29.853	
6908.	5.84	1.03	1.46	1.47	1.48	.00	1.46	31.069	
6940.	5.86	1.01	1.47	1.47	1.49	.00	1.47	31.460	
6972.	5.79	1.25	1.45	1.46	1.46	.00	1.45	31.090	
6994.	5.85	.95	1.47	1.47	1.49	.00	1.46	31.597	
7036.	5.86	.95	1.47	1.47	1.48	.00	1.47	31.502	
7068.	5.83	1.01	1.46	1.46	1.48	.00	1.46	32.168	
7100.	5.80	1.08	1.46	1.46	1.46	.00	1.46	32.242	
7132.	5.84	.99	1.46	1.47	1.48	.00	1.46	32.147	
7164.	5.87	1.00	1.48	1.47	1.49	.00	1.47	26.830	
7197.	5.87	1.02	1.47	1.47	1.48	.00	1.47	32.221	
7227.	5.87	1.02	1.47	1.47	1.48	.00	1.48	31.301	
7260.	5.86	1.02	1.47	1.47	1.48	.00	1.47	31.777	
7292.	5.87	.98	1.47	1.47	1.49	.00	1.47	30.625	

PACK NO. 114
G.E. 5 A.H. NIMBUS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 130

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN

CYCLE NO.	PACK VOLTAGES	CURRENT 2.50	CELL VOLTAGES 1	2	3	4	5	PSIA	
6598.	3.15	2.44	1.12	1.05	.00	1.03	.00	51.288	END OF DISCHARGE
6630.	3.07	2.43	1.12	1.01	.00	.99	.00	51.406	
6662.	3.08	2.43	1.12	1.02	.00	.99	.00	51.470	
6694.	3.14	2.45	1.13	1.06	.00	1.01	.00	51.427	
6726.	3.08	2.45	1.11	1.01	.00	1.01	.00	51.652	
6758.	2.99	2.40	1.09	.99	.00	.96	.00	52.069	
6790.	3.10	2.51	1.18	1.14	.00	1.18	.00	52.304	
6822.	3.07	2.45	1.13	1.04	.00	.94	.00	51.523	
6854.	3.22	2.48	1.10	1.04	.00	1.12	.00	52.026	
6886.	3.29	2.15	1.14	1.08	.00	1.11	.00	51.951	
6918.	3.28	2.51	1.15	1.06	.00	1.12	.00	52.476	
6951.	3.01	2.45	1.09	.95	.00	1.00	.00	52.187	
6981.	3.09	2.49	1.07	.97	.00	1.08	.00	52.508	
7014.	2.81	2.44	1.04	.89	.00	.92	.00	51.588	
7046.	3.18	2.46	1.10	1.03	.00	1.08	.00	52.700	
		1.63							
6598.	4.38	1.64	1.46	1.49	.00	1.46	.00	52.294	END OF CHARGE
6630.	4.38	1.65	1.46	1.48	.00	1.46	.00	52.529	
6662.	4.39	1.64	1.46	1.49	.00	1.46	.00	52.540	
6694.	4.39	1.64	1.46	1.49	.00	1.46	.00	52.572	
6726.	4.32	1.64	1.44	1.46	.00	1.44	.00	52.551	
6758.	4.40	1.65	1.47	1.49	.00	1.46	.00	53.203	
6790.	4.40	1.64	1.47	1.49	.00	1.46	.00	53.043	
6822.	4.40	1.65	1.47	1.49	.00	1.45	.00	52.518	
6854.	4.42	1.64	1.46	1.51	.00	1.47	.00	53.471	
6886.	4.43	1.63	1.47	1.50	.00	1.47	.00	53.514	
6918.	4.42	1.63	1.47	1.49	.00	1.46	.00	53.695	
6951.	4.39	1.63	1.47	1.48	.00	1.46	.00	53.332	
6981.	4.41	1.64	1.46	1.49	.00	1.46	.00	53.685	
7014.	4.40	1.62	1.46	1.48	.00	1.46	.00	52.658	
7046.	4.42	1.62	1.47	1.50	.00	1.46	.00	53.974	

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PACK NO. 60 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
G.E. 12 A.H. 3RD ELECTRODE R 3 3 3 3 3 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	3RD ELECT VOLTAGES 1	2	3	4	5	CELL VOLTAGES 1	2	3	4	5		
AH OUT														
4874.	6.01	6.07	.056	.056	.019	.013	.016	1.21	1.21	1.20	1.21	1.20	.000	END OF
4906.	6.02	6.10	.071	.063	.021	.016	.017	1.21	1.21	1.20	1.21	1.20	.000	DISCHARGE
4938.	6.03	6.04	.061	.056	.019	.013	.013	1.21	1.22	1.21	1.21	1.20	.000	
4970.	6.02	6.06	.065	.062	.019	.016	.018	1.21	1.21	1.21	1.21	1.20	.000	
5002.	6.03	6.02	.060	.062	.019	.013	.018	1.21	1.22	1.21	1.21	1.20	.000	
5034.	6.20	6.15	.091	.075	.021	.021	.027	1.18	1.19	1.19	1.28	1.16	.000	
5066.	6.22	6.11	.059	.076	.017	.019	.029	1.19	1.20	1.19	1.28	1.16	.000	
5098.	6.15	6.19	.112	.078	.021	.029	.019	1.22	1.23	1.22	1.22	1.21	.000	
5130.	6.05	6.23	.139	.079	.021	.032	.023	1.22	1.23	1.22	1.22	1.21	.000	
5162.	6.02	6.13	.105	.063	.015	.019	.012	1.21	1.21	1.21	1.21	1.20	.000	
5194.	6.01	6.22	.139	.072	.019	.029	.017	1.21	1.21	1.20	1.21	1.20	.000	
5226.	5.99	6.24	.120	.069	.015	.032	.019	1.21	1.21	1.20	1.20	1.19	.000	
5258.	6.02	6.20	.141	.071	.015	.026	.016	1.21	1.21	1.20	1.21	1.20	.000	
5290.	6.02	6.20	.139	.071	.015	.022	.012	1.21	1.21	1.20	1.21	1.20	.000	
5322.	6.01	6.24	.141	.072	.017	.032	.020	1.21	1.21	1.20	1.20	1.20	.000	
4874.	7.50	2.91	.099	.122	.055	.303	.400	1.49	1.50	1.50	1.51	1.51		TRIP
4906.	7.45	2.00	.106	.121	.058	.315	.401	1.49	1.49	1.48	1.50	1.50		POINT
4938.	7.49	1.74	.109	.126	.060	.303	.401	1.49	1.50	1.49	1.50	1.50		
4970.	7.50	2.61	.126	.143	.067	.320	.406	1.50	1.51	1.50	1.50	1.50		
5002.	7.45	1.00	.107	.126	.058	.312	.412	1.49	1.50	1.49	1.49	1.49		
5034.	7.41	1.38	.136	.175	.086	.269	.392	1.46	1.48	1.47	1.49	1.46		
5066.	7.58	2.37	.222	.241	.099	.320	.392	1.49	1.51	1.51	1.52	1.49		
5098.	7.45	2.95	.242	.239	.100	.327	.400	1.49	1.50	1.50	1.50	1.49		
5130.	7.45	2.09	.232	.209	.084	.302	.401	1.49	1.50	1.49	1.50	1.50		
5162.	7.46	3.11	.189	.198	.076	.292	.393	1.49	1.50	1.49	1.50	1.49		
5194.	7.52	3.15	.210	.209	.074	.299	.395	1.50	1.51	1.50	1.51	1.51		
5226.	7.48	1.62	.192	.181	.059	.281	.396	1.49	1.51	1.49	1.50	1.50		
5258.	7.44	1.44	.200	.190	.059	.313	.392	1.48	1.49	1.48	1.49	1.49		
5290.	7.40	2.65	.188	.194	.059	.297	.392	1.48	1.48	1.48	1.48	1.48		
5322.	7.48	1.28	.180	.188	.059	.282	.396	1.49	1.51	1.49	1.50	1.49		

													AH IN	
4874.	7.52	.91	.769	.712	.613	.655	.600	1.50	1.53	1.51	1.49	1.49	.000	END OF
4906.	7.50	.93	.773	.708	.636	.673	.625	1.50	1.53	1.51	1.48	1.48	.000	CHARGE
4938.	7.50	.88	.767	.684	.612	.650	.583	1.50	1.53	1.51	1.49	1.48	.000	
4970.	7.50	.89	.772	.685	.617	.659	.592	1.51	1.53	1.51	1.49	1.48	.000	
5002.	7.49	.87	.768	.672	.612	.656	.610	1.50	1.53	1.51	1.49	1.48	.000	
5034.	7.47	.91	.712	.731	.503	.552	.530	1.49	1.51	1.49	1.48	1.45	.000	
5066.	7.46	.89	.723	.739	.586	.592	.596	1.48	1.51	1.49	1.48	1.45	.000	
5098.	7.46	.98	.752	.776	.648	.646	.662	1.50	1.52	1.50	1.49	1.48	.000	
5130.	7.50	1.01	.762	.769	.663	.660	.680	1.51	1.54	1.51	1.49	1.48	.000	
5162.	7.46	.94	.749	.759	.640	.649	.661	1.50	1.52	1.50	1.48	1.48	.000	
5194.	7.50	.99	.760	.759	.627	.659	.676	1.51	1.53	1.50	1.49	1.48	.000	
5226.	7.53	1.00	.760	.749	.599	.664	.680	1.52	1.54	1.51	1.50	1.48	.000	
5258.	7.45	.97	.759	.740	.580	.662	.671	1.50	1.52	1.49	1.48	1.47	.000	
5290.	7.44	.97	.760	.747	.589	.665	.674	1.49	1.51	1.49	1.47	1.46	.000	
5322.	7.49	.99	.773	.743	.592	.676	.686	1.51	1.53	1.50	1.48	1.48	.000	

PACK NO. 48 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 0 C
G.E. 12 A.H. 3RD ELECTRODE R 3 3 3 3 3 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 9.60	3RD ELECT VOLTAGES 1	2	3	4	5	CELL VOLTAGES 1	2	3	4	5		
AH OUT														
4388.	5.64	9.58	.088	.090	.057	.005	.031	1.13	1.13	1.13	1.14	1.14	.000	END OF
4420.	5.63	9.57	.086	.088	.059	.003	.035	1.13	1.12	1.13	1.14	1.14	.000	DISCHARGE
4452.	5.69	9.43	.086	.093	.061	.009	.032	1.13	1.13	1.13	1.13	1.14	.000	
4484.	5.73	9.45	.086	.092	.059	.009	.038	1.15	1.15	1.15	1.16	1.15	.000	
4516.	5.69	9.43	.088	.090	.073	.009	.040	1.14	1.14	1.14	1.15	1.14	.000	
4548.	5.79	9.45	.059	.069	.033	.029	.010	1.10	1.10	1.10	1.20	1.09	.000	
4580.	5.79	9.47	.060	.062	.039	.033	.009	1.09	1.10	1.10	1.19	1.09	.000	
4612.	5.73	9.42	.085	.096	.052	.015	.038	1.16	1.15	1.15	1.16	1.15	.000	
4644.	5.72	9.40	.098	.094	.069	.018	.042	1.16	1.15	1.15	1.16	1.15	.000	
4676.	5.63	9.39	.082	.087	.072	.005	.032	1.13	1.13	1.13	1.13	1.13	.000	
4708.	5.62	9.41	.085	.090	.071	.005	.036	1.13	1.12	1.13	1.13	1.13	.000	
4740.	5.73	9.44	.082	.089	.053	.009	.033	1.15	1.15	1.14	1.16	1.15	.000	
4772.	5.70	9.43	.088	.089	.075	.008	.035	1.15	1.14	1.14	1.15	1.14	.000	
4804.	5.65	9.41	.082	.089	.079	.006	.029	1.13	1.13	1.13	1.13	1.13	.000	
4836.	5.67	9.41	.098	.090	.085	.010	.045	1.14	1.14	1.13	1.14	1.14	.000	
4388.	7.32	3.17	.234	.203	.419	.398	.419	1.46	1.46	1.46	1.47	1.47		TRIP
4420.	7.30	2.75	.232	.202	.427	.390	.422	1.46	1.46	1.45	1.46	1.47		POINT
4452.	7.34	3.37	.229	.199	.423	.425	.429	1.47	1.46	1.46	1.47	1.48		
4484.	7.34	3.54	.222	.202	.419	.422	.436	1.47	1.47	1.46	1.47	1.48		
4516.	7.29	2.69	.234	.205	.416	.421	.444	1.46	1.46	1.45	1.46	1.46		
4548.	7.35	3.01	.223	.202	.402	.408	.426	1.45	1.46	1.45	1.48	1.46		
4580.	7.37	3.42	.225	.198	.409	.416	.421	1.45	1.46	1.45	1.48	1.46		
4612.	7.36	3.65	.219	.208	.412	.428	.436	1.48	1.48	1.47	1.48	1.48		
4644.	7.28	2.62	.237	.205	.412	.422	.436	1.47	1.46	1.46	1.47	1.46		
4676.	7.33	3.60	.223	.203	.413	.419	.423	1.47	1.47	1.46	1.47	1.47		
4708.	7.26	2.43	.229	.201	.412	.420	.426	1.46	1.45	1.45	1.46	1.46		
4740.	7.32	3.44	.221	.196	.399	.427	.407	1.47	1.47	1.46	1.47	1.46		
4772.	7.30	3.24	.231	.199	.412	.419	.429	1.46	1.46	1.45	1.46	1.46		
4804.	7.31	3.30	.233	.203	.409	.423	.420	1.46	1.46	1.45	1.46	1.46		
4836.	7.34	3.62	.232	.199	.409	.428	.422	1.47	1.47	1.46	1.47	1.47		

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													AH IN	
4388.	7.15	.68	.232	.196	.420	.243	.432	1.43	1.43	1.43	1.43	1.43	.000	END OF
4420.	7.16	.73	.229	.192	.417	.230	.440	1.44	1.43	1.43	1.43	1.43	.000	CHARGE
4452.	7.17	.59	.228	.190	.420	.239	.442	1.43	1.44	1.43	1.44	1.44	.000	
4484.	7.18	.65	.221	.193	.426	.259	.438	1.44	1.44	1.43	1.44	1.44	.000	
4516.	7.18	.65	.229	.197	.422	.251	.444	1.44	1.44	1.43	1.44	1.44	.000	
4548.	7.21	.65	.219	.192	.405	.236	.426	1.43	1.44	1.43	1.45	1.43	.000	
4580.	7.19	.54	.222	.190	.411	.232	.432	1.42	1.43	1.42	1.44	1.42	.000	
4612.	7.20	.81	.22[illegible]	.199	.416	.273	.440	1.45	1.45	1.44	1.45	1.45	.000	
4644.	7.16	.51	.208	.199	.421	.252	.428	1.44	1.44	1.43	1.44	1.44	.000	
4676.	7.16	.56	.222	.195	.419	.252	.426	1.44	1.44	1.43	1.44	1.44	.000	
4708.	7.16	.75	.226	.198	.419	.246	.425	1.44	1.44	1.43	1.44	1.43	.000	
4740.	7.17	.68	.226	.189	.418	.260	.425	1.44	1.44	1.43	1.44	1.43	.000	
4772.	7.14	.49	.23[illegible]	.191	.423	.242	.420	1.43	1.43	1.42	1.43	1.43	.000	
4804.	7.17	.66	.229	.193	.421	.256	.420	1.44	1.43	1.43	1.43	1.43	.000	
4836.	7.17	.75	.228	.190	.419	.272	.420	1.44	1.44	1.43	1.44	1.43	.000	

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PACK NO. 338 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 40 C
G.E./G.U. 6 A.H. PERCENT OF RECHARGE ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
3856.	7.16	3.01	1.20	.07	.78	.00	.03	1.22	1.16	1.26	.01	.01	END OF
3888.	7.14	3.01	1.20	.07	.77	.00	.03	1.22	1.16	1.26	.01	.00	DISCHARGE
3899.	5.77	3.00	1.15	.07	.73	.00	.05	.00	.03	1.24	.00	.00	
3931.	6.46	2.99	1.34	.04	.88	.00	.01	.00	.02	1.35	.01	.04	
3963.	6.44	2.98	1.34	.03	.86	.00	.02	.00	.03	1.35	.00	.04	
3996.	5.69	3.01	1.08	.08	.76	.00	.06	.00	.06	1.23	.01	.01	
4028.	5.42	3.00	.83	.07	.76	.00	.06	.00	.06	1.23	.01	.01	
4059.	5.97	3.00	1.19	.07	.79	.00	.05	.00	.05	1.25	.00	.00	
		.01											
3856.	8.49	.87	1.41	.72	.91	.00	.01	1.40	1.41	1.48	.01	.01	END OF
3888.	8.49	.85	1.41	.72	.90	.00	.01	1.41	1.41	1.48	.01	.00	CHARGE
3899.	6.96	.36	1.39	.68	.89	.00	.00	.00	.00	1.41	.00	.00	
3931.	7.00	.40	1.40	.68	.90	.00	.02	.00	.01	1.42	.00	.00	
3963.	6.97	.34	1.40	.68	.89	.00	.01	.00	.01	1.40	.00	.00	
3996.	6.94	.29	1.39	.66	.87	.00	.00	.00	.00	1.38	.01	.01	
4028.	6.94	.28	1.39	.67	.87	.00	.00	.00	.00	1.38	.01	.01	
4059.	6.94	.26	1.39	.66	.87	.00	.01	.00	.00	1.39	.00	.00	

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PACK NO. 243 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 0 C
SONOTONE 3 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES 1	2	3	4	5	
6223.	6.05	.90	1.22	1.23	1.22	1.23	1.20	END OF DISCHARGE
6254.	6.03	.90	1.22	1.22	1.22	1.23	1.20	
6287.	6.01	.91	1.21	1.22	1.22	1.22	1.19	
6319.	6.03	.90	1.22	1.22	1.22	1.23	1.20	
6351.	6.03	.90	1.22	1.22	1.22	1.23	1.19	
6383.	6.02	.91	1.21	1.21	1.21	1.22	1.21	
6415.	5.86	.91	1.22	1.23	1.23	1.24	1.22	
6479.	5.94	.91	1.20	1.20	1.19	1.20	1.19	
6511.	5.99	.90	1.21	1.21	1.20	1.21	1.20	
6543.	6.01	.90	1.22	1.21	1.22	1.22	1.20	
6575.	6.01	.90	1.21	1.21	1.21	1.22	1.20	
6606.	6.00	.90	1.21	1.22	1.21	1.22	1.20	
6639.	6.01	.90	1.21	1.21	1.21	1.22	1.20	
6661.	6.01	.90	1.21	1.21	1.21	1.22	1.20	
		.52						
6223.	7.71	.19	1.48	1.52	1.51	1.69	1.58	END OF CHARGE
6254.	7.69	.22	1.47	1.50	1.50	1.69	1.59	
6287.	7.69	.22	1.47	1.52	1.51	1.69	1.56	
6319.	7.68	.23	1.47	1.51	1.51	1.69	1.55	
6351.	7.67	.25	1.47	1.51	1.51	1.69	1.54	
6383.	7.41	.52	1.41	1.43	1.43	1.60	1.60	
6415.	7.74	.17	1.47	1.52	1.49	1.71	1.61	
6479.	7.67	.25	1.46	1.54	1.49	1.66	1.56	
6511.	7.71	.21	1.47	1.50	1.49	1.70	1.61	
6543.	7.75	.20	1.48	1.51	1.51	1.70	1.61	
6575.	7.76	.20	1.49	1.52	1.51	1.70	1.60	
6606.	7.75	.20	1.49	1.51	1.50	1.71	1.59	
6639.	7.74	.22	1.49	1.52	1.52	1.70	1.57	
6661.	7.74	.22	1.49	1.52	1.52	1.71	1.55	

PACK NO. 231 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
SONOTONE 3 A.H. PERCENT OF RECHARGE 115 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES 1	2	3	4	5	
6238.	5.75	1.49	1.18	1.17	1.18	1.18	1.10	END OF DISCHARGE
6269.	5.75	1.49	1.18	1.16	1.17	1.18	1.10	
6302.	5.70	1.51	1.18	1.16	1.17	1.17	1.09	
6334.	5.75	1.49	1.18	1.17	1.18	1.18	1.10	
6366.	5.76	1.49	1.18	1.16	1.18	1.18	1.10	
6398.	5.74	1.50	1.18	1.15	1.17	1.16	1.13	
6430.	5.66	1.51	1.22	1.20	1.22	1.23	1.08	
6494.	5.69	1.52	1.18	1.15	1.17	1.18	1.05	
6526.	5.76	1.52	1.19	1.16	1.18	1.18	1.08	
6558.	5.79	1.48	1.20	1.17	1.20	1.19	1.09	
6590.	5.76	1.48	1.19	1.17	1.19	1.18	1.08	
6621.	5.76	1.47	1.19	1.17	1.18	1.18	1.09	
6654.	5.75	1.49	1.19	1.16	1.18	1.18	1.08	
6686.	5.75	1.48	1.19	1.16	1.18	1.18	1.08	
		.86						
6238.	7.65	.34	1.54	1.54	1.55	1.54	1.54	END OF CHARGE
6269.	7.63	.43	1.54	1.53	1.54	1.53	1.53	
6302.	7.63	.39	1.54	1.53	1.54	1.53	1.54	
6334.	7.64	.40	1.55	1.53	1.55	1.53	1.54	
6366.	7.62	.41	1.54	1.53	1.54	1.53	1.53	
6398.	7.06	.87	1.42	1.42	1.42	1.42	1.42	
6430.	7.63	.45	1.53	1.52	1.54	1.53	1.57	
6494.	7.59	.50	1.52	1.52	1.53	1.52	1.55	
6526.	7.59	.51	1.53	1.53	1.54	1.53	1.54	
6558.	7.67	.44	1.55	1.54	1.56	1.54	1.55	
6590.	7.68	.41	1.55	1.54	1.56	1.54	1.55	
6621.	7.66	.44	1.54	1.54	1.55	1.54	1.55	
6654.	7.67	.44	1.55	1.54	1.56	1.54	1.54	
6686.	7.64	.41	1.54	1.53	1.55	1.53	1.54	

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PACK NO. 203 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
SONOTONE 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	
6561.	5.74	1.50	1.17	1.18	1.11	1.17	1.16	END OF
6593.	5.74	1.50	1.17	1.17	1.11	1.17	1.16	DISCHARGE
6625.	5.74	1.50	1.17	1.18	1.11	1.17	1.17	
6657.	5.75	1.50	1.17	1.18	1.12	1.17	1.17	
6690.	5.75	1.50	1.17	1.17	1.12	1.17	1.16	
6721.	5.76	1.50	1.17	1.17	1.12	1.17	1.16	
6756.	5.68	1.49	1.19	1.19	1.15	1.20	1.20	
6784.	5.73	1.51	1.16	1.16	1.12	1.16	1.16	
6817.	5.71	1.50	1.16	1.17	1.10	1.16	1.16	
6848.	5.74	1.50	1.16	1.17	1.11	1.17	1.17	
6881.	5.70	1.50	1.17	1.18	1.12	1.18	1.18	
6913.	5.71	1.50	1.16	1.17	1.10	1.16	1.17	
6944.	5.70	1.50	1.15	1.17	1.10	1.16	1.16	
6976.	5.70	1.50	1.16	1.16	1.10	1.15	1.16	
7009.	5.73	1.50	1.17	1.17	1.10	1.16	1.17	
		.94						
6561.	7.41	.95	1.49	1.49	1.50	1.50	1.48	END OF
6593.	7.40	.95	1.48	1.49	1.50	1.50	1.47	CHARGE
6625.	7.43	.95	1.49	1.50	1.51	1.51	1.48	
6657.	7.45	.95	1.50	1.50	1.51	1.51	1.49	
6690.	7.43	.95	1.49	1.50	1.51	1.51	1.48	
6721.	7.45	.95	1.50	1.50	1.51	1.51	1.48	
6756.	7.43	.95	1.49	1.50	1.51	1.51	1.48	
6784.	7.36	.95	1.47	1.48	1.50	1.49	1.47	
6817.	7.37	.94	1.47	1.48	1.49	1.49	1.47	
6848.	7.38	.94	1.47	1.49	1.50	1.50	1.47	
6881.	7.37	.95	1.48	1.49	1.50	1.50	1.47	
6913.	7.39	.95	1.48	1.49	1.50	1.50	1.48	
6944.	7.37	.95	1.47	1.49	1.50	1.49	1.47	
6976.	7.37	.95	1.47	1.48	1.50	1.49	1.47	
7009.	7.40	.95	1.48	1.49	1.51	1.50	1.48	

PACK NO. 226 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 C
SONOTONE 3 A.H. PERCENT OF RECHARGE 160 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 0.90	CELL VOLTAGES 1	2	3	4	5	
5927.	5.37	.90	1.10	1.18	.86	1.19	1.08	END OF DISCHARGE
5959.	4.29	.90	1.04	1.18	.06	1.19	.98	
5986.	4.42	.89	1.08	1.21	.00	1.22	1.19	
6018.	4.47	.89	1.16	1.21	.00	1.22	1.17	
6051.	4.53	.90	1.08	1.18	.00	1.18	1.12	
6083.	4.48	.91	1.04	1.18	.00	1.18	1.10	
6114.	4.30	.90	.99	1.18	.00	1.19	.98	
6129.	4.47	.92	1.11	1.18	.00	1.18	1.03	
6162.	4.37	.91	1.02	1.18	.00	1.19	1.02	
6193.	4.23	.90	.91	1.18	.00	1.18	.98	
6226.	4.06	.90	.80	1.18	.00	1.18	.94	
		.72						
5927.	7.16	.71	1.43	1.44	1.45	1.45	1.45	END OF CHARGE
5959.	7.12	.62	1.41	1.44	1.44	1.44	1.44	
5986.	5.74	.72	1.41	1.44	.00	1.45	1.46	
6018.	5.74	.73	1.42	1.45	.00	1.46	1.46	
6051.	5.73	.72	1.41	1.44	.00	1.45	1.46	
6083.	5.74	.69	1.43	1.45	.00	1.44	1.45	
6114.	5.73	.72	1.41	1.45	.00	1.46	1.45	
6129.	5.76	.72	1.44	1.45	.00	1.45	1.46	
6162.	5.77	.72	1.43	1.45	.00	1.46	1.46	
6193.	5.75	.70	1.43	1.45	.00	1.46	1.45	
6226.	5.75	.71	1.42	1.45	.00	1.46	1.46	

COULOMETER — DEPTH OF DISCHARGE 30 — ORBIT PERIOD 90 MINUTES

SONOTONE 5 A.H. — TEST TEMPERATURE 25° C

CYCLE NO.	PACK VOLTAGE	CURRENT	CLM	CELL VOLTAGES 1	2	3	4	5	
10400	5.53	3.00	-0.088	1.14	1.11	1.14	1.12	1.11	
10440	5.51		-0.090	1.14	1.11	1.14	1.11	1.11	
10480	5.46		-0098	1.14	1.11	1.14	1.10	1.10	END OF DISCHARGE
10520	5.45		-0.103	1.14	1.11	1.13	1.10	1.10	
10560	5.52		-0.085	1.14	1.12	1.14	1.11	1.11	
10600	5.43		-0.100	1.14	1.11	1.13	1.09	1.09	
10640	5.46		-0.087	1.13	1.11	1.13	1.09	1.09	
10680	5.38		-0.080	1.12	1.10	1.12	1.08	1.07	
10720	5.52		-0.090	1.15	1.12	1.15	1.10	1.10	
10760	5.44		-0.080	1.13	1.11	1.13	1.09	1.08	
10800	5.34		-0.091	1.12	1.10	1.12	1.07	1.06	
10840	5.40		-0.083	1.13	1.10	1.12	1.08	1.07	TIME TO START OF TRICKLE CHARGE
10880	5.52		-0.085	1.15	1.13	1.15	1.11	1.09	

10400	8.00	0.30	+0.859	1.43	1.44	1.44	1.43	1.44	28:31
10440			+0.822	1.43	1.44	1.43	1.45	1.44	28:28
10480			+0.824	1.43	1.44	1.43	1.44	1.44	28:30
10520			+0.812	1.43	1.44	1.43	1.45	1.44	28:04
10560			+0.855	1.42	1.43	1.42	1.44	1.43	28:32
10600			+0.815	1.43	1.44	1.43	1.45	1.44	28:27
10640			+0.831	1.43	1.44	1.43	1.44	1.44	28:31
10680			+0.840	1.42	1.43	1.42	1.43	1.43	28:50
10720			+0.830	1.43	1.44	1.43	1.44	1.44	28:40
10760			+0.810	1.42	1.43	1.42	1.43	1.43	28:36
10800			+0.845	1.43	1.44	1.43	1.44	1.43	28:18
10840			+0.860	1.42	1.44	1.42	1.44	1.43	28:05
10880			+0.975	1.43	1.45	1.43	1.45	1.44	28:31

END OF CHARGE

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PACK NO. 92 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
SONOTONC 5 A.H. STABISTER ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	CELL VOLTAGES 1	2	3	4	5	
5518.	5.38	2.50	1.04	1.13	1.11	1.10	1.03	END OF
5582.	5.32	2.49	1.02	1.12	1.08	1.09	1.02	DISCHARGE
5615.	5.36	2.49	1.03	1.12	1.08	1.10	1.04	
5646.	5.61	2.49	1.09	1.14	1.10	1.13	1.09	
5678.	5.28	2.46	.91	1.13	1.10	1.11	1.06	
5709.	5.14	2.50	.90	1.09	1.05	1.11	.99	
5742.	5.18	2.49	.94	1.07	1.05	1.11	1.00	
5773.	5.27	2.49	1.03	1.09	1.08	1.12	.97	
5788.	3.43	2.50	1.04	1.11	1.09	1.09	.87	
		5.00						
5518.	7.65	4.97	1.52	1.52	1.52	1.54	1.60	END OF
5582.	7.64	4.98	1.52	1.51	1.52	1.55	1.58	CHARGE
5615.	7.63	4.98	1.51	1.50	1.52	1.54	1.57	
5646.	7.87	4.98	1.59	1.57	1.54	1.54	1.66	
5678.	8.02	4.97	1.64	1.61	1.58	1.58	1.65	
5709.	8.01	4.97	1.63	1.61	1.58	1.57	1.64	
5742.	7.96	4.96	1.63	1.60	1.56	1.57	1.61	
5773.	7.98	4.96	1.63	1.60	1.57	1.57	1.64	
5788.	8.11	5.03	1.64	1.62	1.60	1.58	1.72	

PACK NO. 322 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 0
SONOTONC 5 A.H. STABISTER ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 4.00	CELL VOLTAGES 1	2	3	4	5	
4894.	3.01	4.05	.97	1.04	.00	.00	1.04	END OF
4926.	2.98	4.05	.97	1.04	.00	.00	1.03	DISCHARGE
4958.	3.02	4.06	.99	1.04	.00	.00	1.04	
4990.	2.80	4.07	.97	1.04	.00	.00	1.05	
5021.	2.96	4.05	.95	1.03	.00	.00	1.02	
5054.	3.21	4.08	1.09	1.11	.00	.00	1.07	
5086.	3.08	4.07	1.03	1.07	.00	.00	1.06	
5119.	3.00	4.03	.99	1.04	.00	.00	1.02	
5151.	2.98	3.99	.97	1.02	.00	.00	1.04	
5182.	3.00	3.98	.98	1.00	.00	.00	1.04	
5190.	2.27	3.60	.14	1.10	.00	.00	1.06	
		5.00						
4894.	4.77	4.98	1.62	1.55	.00	.00	1.59	END OF
4926.	4.77	4.93	1.61	1.57	.00	.00	1.59	CHARGE
4958.	4.76	5.00	1.61	1.55	.00	.00	1.59	
4990.	4.79	4.98	1.61	1.56	.00	.00	1.60	
5021.	4.81	4.97	1.62	1.56	.00	.00	1.60	
5054.	4.85	4.92	1.58	1.56	.00	.00	1.68	
5086.	4.83	4.96	1.58	1.58	.00	.00	1.66	
5119.	4.80	4.74	1.57	1.58	.00	.00	1.64	
5151.	4.79	4.27	1.60	1.58	.00	.00	1.61	
5182.	4.80	4.59	1.58	1.57	.00	.00	1.61	
5190.	4.99	5.04	1.68	1.57	.00	.00	1.71	

PACK NO. 201 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
ESB 8 A.H. 3RD ELECTRODE R 2 2 2 2 2 ORBIT PERIOD 8 HRS

CYCLE NO.	PACK VOLTAGE	CURRENT 2.00	3RD ELECT VOLTAGES 1	2	3	4	5	CELL VOLTAGES 6	7	8	9	10	
23.	5.26	1.99	.028	.149	.157	.119	.112	1.06	1.06	1.06	1.05	1.07	.000 END OF
46.	5.23	2.00	.002	.015	.014	.014	.007	1.05	1.05	1.05	1.03	1.05	.000 DISCHARGE
23.	5.90	.53	.018	.076	.083	.058	.063	1.19	1.19	1.19	1.18	1.19	TRIP
46.	5.87	.53	.001	.010	.007	.008	.004	1.18	1.17	1.17	1.17	1.17	POINT
													AH IN
23.	7.65	.15	.041	.195	.199	.168	.152	1.54	1.54	1.54	1.53	1.53	.000 END OF
46.	7.56	.17	.000	.001	.001	.002	.001	1.51	1.51	1.51	1.51	1.51	.000 CHARGE

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PACK NO. 402 DEPTH OF DISCHARGE 16 TEST TEMPERATURE 25 C
YARDLEY 3 A. H. PERCENT OF RECHARGE 260 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.00	CELL VOLTAGES 1	2	3	4	5	6	7	8	9	10	
34.	9.69	1.02	1.09	1.09	1.08	1.09	1.09	1.08	1.08	1.08	1.08	.00	END OF
163.	9.69	1.01	1.08	1.09	1.08	1.09	1.08	1.08	1.08	1.08	1.08	.00	
		1.03											
4.	13.45	.17	1.50	1.51	1.50	1.51	1.50	1.50	1.48	1.49	1.49	.00	END OF CHARGE
163.	13.71	.18	1.52	1.56	1.52	1.52	1.53	1.54	1.52	1.51	1.55	.00	

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