

RDS BATTERY SERVICE TEST

UPS A

Battery Terminal Voltage

124.77 V D-C

Pilot Cell Number

52

5102040170

Cell No	Temperature		Correc-tion
	Cell	Room	
1	86	86	+2
8	86		+2
15	86		+2
19	86		+2
26	86		+2
32	86		+2
37	84		+2
44	84		+2
50	84		+2
55	84		+2
Pilot	84		+2
Avg	85	86	+2

Individual Cell Readings											
Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage
1	1.207	6.23	16	1.212	6.24	31	1.212	6.24	46	1.217	6.25
2	1.207		17	1.212		32	1.212		47	1.217	
3	1.207		18	1.212		33	1.217		48	1.217	
4	1.217	6.24	19	1.217	6.24	34	1.207	6.23	49	1.212	6.25
5	1.217		20	1.212		35	1.212		50	1.212	
6	1.207		21	1.207		36	1.212		51	1.212	
7	1.217	6.24	22	1.212	6.24	37	1.207	6.24	52	1.212	6.23
8	1.212		23	1.207		38	1.212		53	1.212	
9	1.217		24	1.212		39	1.212		54	1.212	
10	1.207	6.23	25	1.217	6.24	40	1.212	6.23	55	1.207	6.23
11	1.202		26	1.217		41	1.212		56	1.207	
12	1.210		27	1.212		42	1.212		57	1.207	
13	1.207	6.24	28	1.217	6.24	43	1.212	6.24	58	1.217	6.24
14	1.207		29	1.212		44	1.212		59	1.217	
15	1.207		30	1.212		45	1.217		60	1.217	

*Gravity readings corrected to 77°F.

UPS B

Battery Terminal Voltage

127.38 V D-C

Pilot Cell Number

55

Cell No	Temperature		Correc-tion
	Cell	Room	
1	80	80	+1
8	80		+1
15	80		+1
19	80		+1
26	80		+1
32	80		+1
37	80		+1
44	80		+1
50	80		+1
55	80		+1
Pilot	80		+1
Avg	80	80	+1

Individual Cell Readings											
Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage
1	1.221	6.36	16	1.221	6.38	31	1.226	6.38	46	1.216	6.35
2	1.221		17	1.221		32	1.221		47	1.221	
3	1.221		18	1.226		33	1.221		48	1.216	
4	1.221	6.36	19	1.221	6.35	34	1.221	6.37	49	1.221	6.36
5	1.221		20	1.221		35	1.221		50	1.221	
6	1.221		21	1.216		36	1.221		51	1.216	
7	1.221	6.35	22	1.221	6.36	37	1.226	6.37	52	1.216	6.36
8	1.216		23	1.221		38	1.216		53	1.216	
9	1.221		24	1.221		39	1.226		54	1.216	
10	1.221	6.37	25	1.216	6.33	40	1.221	6.35	55	1.216	6.36
11	1.221		26	1.216		41	1.216		56	1.216	
12	1.221		27	1.201		42	1.216		57	1.216	
13	1.221	6.38	28	1.221	6.39	43	1.221	6.36	58	1.216	6.36
14	1.221		29	1.221		44	1.216		59	1.221	
15	1.206		30	1.221		45	1.211		60	1.221	

*Gravity readings corrected to 77°F.

UPS C

Battery Terminal Voltage
128.6 V D-C

Pilot Cell Number

22

Cell No	Temperature		Correc- tion
	Cell	Room	
1	83	84	+2
8	83		+2
15	83		+2
19	83		+2
26	83		+2
32	83		+2
37	83		+2
44	83		+2
50	83		+2
55	83		+2
Pilot	83		+2
Avg	83	84	+2

Cell No	Specific Gravity*	Individual Cell Readings									
		3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage
1	1.207	6.41	16	1.217	6.41	31	1.217	6.41	46	1.217	6.42
2	1.212		17	1.212		32	1.217		47	1.212	
3	1.212		18	1.212		33	1.217		48	1.217	
4	1.212	6.41	19	1.217	6.42	34	1.222	6.42	49	1.212	6.42
5	1.207		20	1.212		35	1.222		50	1.217	
6	1.207		21	1.212		36	1.217		51	1.217	
7	1.212	6.42	22	1.212	6.42	37	1.212	6.41	52	1.212	6.41
8	1.207		23	1.212		38	1.207		53	1.212	
9	1.212		24	1.217		39	1.212		54	1.212	
10	1.212	6.41	25	1.217	6.42	40	1.222	6.42	55	1.212	6.40
11	1.212		26	1.217		41	1.217		56	1.212	
12	1.212		27	1.212		42	1.217		57	1.217	
13	1.207	6.42	28	1.222	6.39	43	1.212	6.41	58	1.212	6.40
14	1.212		29	1.217		44	1.212		59	1.212	
15	1.217		30	1.217		45	1.212		60	1.212	

*Gravity readings corrected to 77°F.

UPS D

Battery Terminal Voltage

126.87 V D-C

Pilot Cell Number

12

Cell No	Temperature		Correc-tion
	Cell	Room	
1	82	82	+2
8	82		+2
15	82		+2
19	82		+2
26	82		+2
32	82		+2
37	82		+2
44	82		+2
50	82		+2
55	82		+2
Pilot	82		+2
Avg	82	82	+2

Individual Cell Readings											
Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage
1	1.212	6.38	16	1.207	6.34	31	1.207	6.34	46	1.222	6.34
2	1.212		17	1.212		32	1.212		47	1.222	
3	1.212		18	1.212		33	1.207		48	1.212	
4	1.212	6.34	19	1.212	6.35	34	1.212	6.34	49	1.212	6.34
5	1.207		20	1.212		35	1.212		50	1.207	
6	1.217		21	1.212		36	1.217		51	1.212	
7	1.207	6.34	22	1.212	6.34	37	1.212	6.33	52	1.207	6.33
8	1.212		23	1.212		38	1.212		53	1.217	
9	1.212		24	1.207		39	1.217		54	1.217	
10	1.217	6.33	25	1.212	6.35	40	1.217	6.34	55	1.212	6.33
11	1.207		26	1.212		41	1.212		56	1.210	
12	1.212		27	1.217		42	1.217		57	1.212	
13	1.212	6.32	28	1.207	6.32	43	1.207	6.34	58	1.217	6.40
14	1.212		29	1.217		44	1.207		59	1.217	
15	1.207		30	1.207		45	1.207		60	1.217	

*Gravity readings corrected to 77°F.

UPS A

RDS BATTERY DISCHARGE TEST

Battery Terminal Voltage

126.48 V D-C

Pilot Cell Number

25

Cell No	Temperature		Correc-tion
	Cell	Room	
1	80	78	+1
8	77		0
15	75		0
19	76		0
26	76		0
32	75		0
37	76		0
44	76		0
50	75		0
55	75		0
Pilot	75		0
AVG		78	

Individual Cell Readings											
Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage
1	1.210	6.30	16	1.220	6.33	31	1.217	6.32	46	1.220	6.33
2	1.210		17	1.217		32	1.220		47	1.223	
3	1.215		18	1.220		33	1.220		48	1.220	
4	1.220	6.32	19	1.220	6.32	34	1.220	6.32	49	1.220	6.33
5	1.220		20	1.220		35	1.215		50	1.220	
6	1.215		21	1.210		36	1.220		51	1.220	
7	1.222	6.33	22	1.210	6.31	37	1.212	6.32	52	1.220	6.32
8	1.220		23	1.210		38	1.217		53	1.220	
9	1.220		24	1.220		39	1.215		54	1.212	
10	1.210	6.31	25	1.220	6.32	40	1.215	6.32	55	1.210	6.31
11	1.210		26	1.220		41	1.215		56	1.210	
12	1.210		27	1.217		42	1.215		57	1.210	
13	1.213	6.32	28	1.220	6.33	43	1.215	6.32	58	1.220	6.32
14	1.215		29	1.220		44	1.217		59	1.220	
15	1.212		30	1.220		45	1.220		60	1.220	

*Gravity readings corrected to 77°F.

UPS B

Battery Terminal Voltage

127.57 V D-C

Pilot Cell Number

41

Cell No	Temperature		Correc-tion
	Cell	Room	
1	77	79	0
8	77		0
15	77		0
19	77		0
26	77		0
32	77		0
37	77		0
44	77		0
50	77		0
55	77		0
Pilot	77		0
Avg	77	79	0

Individual Cell Readings											
Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage
1	1.212	6.36	16	1.220	6.38	31	1.222	6.38	46	1.215	6.36
2	1.218		17	1.220		32	1.220		47	1.220	
3	1.213		18	1.220		33	1.222		48	1.217	
4	1.215	6.36	19	1.210	6.36	34	1.220	6.38	49	1.220	6.37
5	1.215		20	1.215		35	1.215		50	1.217	
6	1.220		21	1.215		36	1.217		51	1.215	
7	1.218	6.35	22	1.220	6.37	37	1.222	6.38	52	1.215	6.37
8	1.210		23	1.220		38	1.212		53	1.212	
9	1.220		24	1.215		39	1.220		54	1.212	
10	1.222	6.37	25	1.215	6.33	40	1.215	6.36	55	1.210	6.36
11	1.220		26	1.210		41	1.220		56	1.212	
12	1.220		27	1.200		42	1.220		57	1.210	
13	1.220	6.38	28	1.222	6.38	43	1.215	6.37	58	1.215	6.37
14	1.220		29	1.210		44	1.215		59	1.217	
15	1.222		30	1.220		45	1.215		60	1.220	

*Gravity readings corrected to 77°F.

UPS C

Battery Terminal Voltage

127.38 V D-C

Pilot Cell Number

39

Cell No	Temperature		Correc- tion
	Cell	Room	
1	80	80	+1
8	79		+1
15	78		0
19	78		0
26	79		+1
32	79		+1
37	78		+1
44	79		+1
50	79		+1
55	79		+1
Pilot	78		0
Avg	79	80	+1

Individual Cell Readings											
Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage
1	1.211	6.35	16	1.216	6.36	31	1.216	6.36	46	1.215	6.36
2	1.214		17	1.211		32	1.218		47	1.221	
3	1.216		18	1.211		33	1.216		48	1.221	
4	1.211	6.35	19	1.218	6.36	34	1.221	6.36	49	1.218	6.36
5	1.211		20	1.218		35	1.221		50	1.214	
6	1.211		21	1.213		36	1.219		51	1.218	
7	1.214	6.36	22	1.214	6.36	37	1.214	6.36	52	1.214	6.35
8	1.216		23	1.218		38	1.211		53	1.216	
9	1.214		24	1.216		39	1.214		54	1.216	
10	1.213	6.35	25	1.216	6.37	40	1.221	6.37	55	1.216	6.35
11	1.213		26	1.213		41	1.221		56	1.214	
12	1.218		27	1.216		42	1.223		57	1.214	
13	1.211	6.36	28	1.221	6.33	43	1.213	6.35	58	1.213	6.35
14	1.213		29	1.221		44	1.216		59	1.214	
15	1.216		30	1.221		45	1.211		60	1.216	

*Gravity readings corrected to 77°F.

UPS D

Battery Terminal Voltage
124.56 V D-C

Pilot Cell Number
12

Cell No	Temperature		Correc- tion
	Cell	Room	
1	78	79	0
8	78		0
15	78		0
19	78		0
26	77		0
32	77		0
37	77		0
44	77		0
50	78		0
55	78		0
Pilot	78		0
Avg	78	79	0

Cell No	Specific Gravity*	Individual Cell Readings									
		3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage	Cell No	Specific Gravity*	3-Cell Voltage
1	1.210	6.27	16	1.212	6.21	31	1.215	6.21	46	1.220	6.21
2	1.212		17	1.210		32	1.220		47	1.220	
3	1.217		18	1.208		33	1.215		48	1.213	
4	1.212	6.21	19	1.217	6.22	34	1.220	6.22	49	1.213	6.23
5	1.210		20	1.215		35	1.220		50	1.215	
6	1.213		21	1.212		36	1.220		51	1.213	
7	1.210	6.20	22	1.210	6.21	37	1.212	6.21	52	1.207	6.21
8	1.215		23	1.215		38	1.215		53	1.212	
9	1.213		24	1.212		39	1.215		54	1.220	
10	1.218	6.20	25	1.212	6.22	40	1.217	6.22	55	1.212	6.20
11	1.210		26	1.212		41	1.212		56	1.213	
12	1.212		27	1.213		42	1.220		57	1.212	
13	1.210	6.19	28	1.205	6.19	43	1.215	6.22	58	1.217	6.29
14	1.210		29	1.215		44	1.210		59	1.220	
15	1.205		30	1.208		45	1.210		60	1.217	

*Gravity readings corrected to 77°F.

DISTRIBUTION AFTER ISSUANCE OF OF LICENSING LICENSE

U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER
50-155

NRC FORM 19F
(2-78)

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO:
Mr. Don K. Davis

FROM:
Consumers Power Company
Jackson, Michigan
David A. Bixel

DATE OF DOCUMENT
1/11/78

DATE RECEIVED
1/13/78

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PROP

INPUT FORM

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151620

DESCRIPTION

(1-P)

PLANT NAME: Big Rock Point
RJL 1/13/78

ENCLOSURE

Consists of requested additional info.
furnishing additional data on RDS Batteries..

(8-P)

40 ENCL

SAFETY		FOR ACTION/INFORMATION	
BRANCH CHIEF: (7)	DAVIS		

INTERNAL DISTRIBUTION			
REG FILE			
NRC PDR			
T & E (2)			
WELD			
HANAUER			
CHECK			
EISENHUT			
SHAO			
BAER			
BUTLER			
CRIMES			
J. COLLINS			
J. MCGOUGH			

EXTERNAL DISTRIBUTION		CONTROL NUMBER	
LPDR: CHARLEVON MI			
TIC			
NSIC			
ACRS 16 CYS SENT CATEGORY B			

780130005

MAY