



AUTOMATIC EMERGENCY CELL CONTROL UNIT 100-400 AMPS  
FIG. I

LIST	QTY	CODE	DESCRIPTION	NOTE	LINE
1,2	1	ED-80483-30	Q-3 FRAMEWORK (MOD)		4
1,2	1	ED-80483-30	Q-13 CROSS ANGLES		4
1,2	1	ED-80483-30	Q-10 METER PANEL PARTS		8
1,2	1	ED-81112-10	Q-1 COMMON BUSBAR DETAILS		8
1,2	1	ED-81222-10	Q-7 METER PANEL		8
1,2	1	KS-5453	L-01 VOLTAGE REL		10
1,2	1	SIC	W/12 METERS (20-30V)		10
3	1	S/D	VOLTMETER (40-80V)		10
A	1	S1E	AM (0-300 AMP) WITH EXT SHUNT & 1/2" O SHUNT LEADS		15
B	1	S1B	AM (0-600 AMP) WITH EXT SHUNT & 1/2" O SHUNT LEADS		20
A	1	D-81112-10	G2 SHUNT MTS DETAILS		20
B	1	D-81112-10	G3 SHUNT MTS DETAILS		20
1	1	CR 9158	85 WATT RES GE CO 400		25
2	1	CR 9158	85 WATT RES GE CO 800		25
1,2	2	P-41992	BLANK PANEL		30
1,2	1	ED-81117-10	G-9 FUSE PANEL S/W		30
1,2	1	18CJ	RES		30
1,2	1	15 AMP	250V STD NEC NON		30
1,2	1	3 AMP	IND CART ENCL FUSE		30
1,2	1	6 AMP	FRN 23 FUSETRON BUSS		30
1,2	1	25F	1/2 AMP FUSE		30
1,2	1	35A	DUMMY FUSE		30
1,2	1	P-42200	RES MTS		30
1,2	1	15A	RES		30
1,2	1	15B	RES		30
1,2	1	3A	RES MTS		30
1,2	1	D-81117-10	G1 FUSE PANEL S/W		30
1,2	1	400 AMP	250V STD NEC NON IND		30
1,2	1	400 AMP	CART ENCL FUSE		30
1,2	1	ED-80379-30	G-8 DUMMY FUSE		30
1,2	1	ED-81117-10	Q-10 EM CELL SW CONT		30
1	3	KS-5350	L-30 REL		50
2	3	KS-5350	L-31 REL		50
1	1	KS-5502	L-21 EM3 CELL SW PAN		55
2	1	KS-5502	L-26 EM3 CELL SW PAN		55
3	1	ED-81112-10	Q-4 CHG FUSE PANEL		55
4	1	ED-81112-10	Q-5 BUS BAR DETAILS		55
1,2	8	P-42200	RHST SCR #8 X 5/8		60
1,2	8	P-42201	* #10 X 3/4		60
1,2	28	P-416092	BOLT ASSEMBLY		65
1,2	1	LC-955-126	9-1 LOCAL CABLE		70
					75
					80
					85
					87

ENGINEERING NOTES

51. THIS DRAWING AGREES WITH ISSUE 1  
BSP 44385-018 2  
ED-81112-01 50

52. FOR COPPER REQUIREMENTS SEE TABLE B

53. THE FOLLOWING FUSES ARE INCLUDED IN THE STOCK LIST OF THIS DRAWING AND COMPONENT DRAWINGS. SPARES SHOULD BE ORDERED AS REQUIRED

QUAN	TYPE	AMPS	LIST
4	NEC	15	1,2
1	NEC	3	1,2
1	FRN	25	2
1	NEC	6	1,2
8	35F	1/2	1,2
2	NEC	400	G
4	NEC	400	D

54. ENGINEER SHALL SPECIFY SHUNT MTS POSITION FOR LISTS A AND B IN JOB SPEC SPEC POS 'A' WHEN EM CELL SW IS TO RIGHT OF DISCHARGE BAYS AND POS 'B' WHEN TO LEFT OF DISCHARGE BAYS FACING FRONT OF BOARD

55. ENGINEER SHALL SPECIFY WIRING DIAGRAM DRAWING NUMBER AS REQUIRED IN JOB SPEC IN ACCORDANCE WITH THE FOLLOWING:

FLANT

T-8112-11 48V PLANT ONLY OR 48V PLANT WITH 24V SUPPLY THRU GENF CELLS

T-80838-11,12 COMBINED 24 & 48V PLANT WITH SW FOR EACH VOLTAGE

T-80838-11 24V PLANT ONLY

MANUFACTURING NOTES

1. PARTS NOT MARKED CONSTITUTE THE MAJOR ASSEMBLY AND ARE TO BE ASSEMBLED FOR SHIPMENT

2. STAMP CODE NUMBER OF BAY ON REAR OF TOP ANGLE OF FRAMEWORK AS SHOWN IN FIG A

3. ALL UNEQUIPPED ALARM TYPE FUSE POSITIONS AND 0-30 AMP FUSE POSITIONS SHALL BE EQUIPPED WITH A 63A DUMMY FUSE

4. MODIFICATION OF FRAMEWORK CONSISTS OF OMITTING 4P-414537, 4P-415792, CABLE BRACKETS, 8P-160114 R.H.M. SCR. AND 8P-160210 HEX NUTS

5. APPARATUS SHALL BE WIRED AND SOLDERED IN ACCORDANCE WITH THE CIRCUIT LISTED IN JOB INFORMATION

REVISIONS

NO	DATE	BY	DESCRIPTION
1	10-10-57	WJS	ISSUE
2	10-10-57	WJS	ISSUE
3	10-10-57	WJS	ISSUE

REVISIONS TO DRAWING AND STANDARD: 10-10-57

IN S.W. LINE TO BE DELETED FROM LINE 20, LINE 24, AND LINE 25. 1. 30 AMP FUSE, STD. NEC NON IND CART ENCL FUSE (REMOVED) LINE 34 BELOC FROM LINE 35, LINE 31, 35 & G2 ADDED. LINE 418 20 QUANT 4 & 8 WERE SHOWN AS 3 & 6 RESPECTIVELY. THIS CHG ACCORD TO FIG. 1, SW. CONT. A WAS SHOWN AS 30 AMP. 10-10-60

WJS WJS WJS

NO	DESCRIPTION	QTY	FIG
D	APPARATUS REQUIRED IN ADDITION TO LIST 1 OR 2 FOR CHARGE FUSE REQD WITH 201-400 AMPERE PLANT		
C	APPARATUS REQUIRED IN ADDITION TO LIST 1 OR 2 FOR CHARGE FUSE REQD WITH 100-200 AMPERE PLANT		
B	MATERIAL REQD IN ADDITION TO LIST 1 OR 2 FOR 600 AMPERE AMMETER, SHUNT AND SHUNT MOUNTING DETAILS		
A	MATERIAL REQD IN ADDITION TO LIST 1 OR 2 FOR 300 AMPERE AMMETER, SHUNT AND SHUNT MOUNTING DETAILS		
4	MATERIAL REQD IN ADDITION TO LIST 1 OR 2 FOR BUS BAR CONNECTIONS WHEN CHARGE CONDUCTORS BETWEEN EM CELL SWITCHING BAY AND CHARGE UNITS ARE BUS BARS		
3	MATERIAL REQD IN ADDITION TO LIST 1 OR 2 FOR TERMINAL EQUIPMENT WHEN CHARGE CONDUCTORS BETWEEN EM CELL SWITCHING BAY AND CHARGE UNITS CONSIST OF CABLES		
2	FRAMEWORK, ASSEMBLY, EQUIPMENT AND WIRING (LESS AMMETER & SHUNT) FOR 100-400 AMP 45-50 VOLT AUTO EM CELL SWITCHING BAY (SEE NOTE 55)	1	T-80836-11 FIG 3 OR T-8112-11 FIG 3
1	FRAMEWORK, ASSEMBLY, EQUIPMENT AND WIRING (LESS AMMETER & SHUNT) FOR 100-400 AMP 22-26 VOLT AUTO EM CELL SWITCHING BAY (SEE NOTE 55)	1	T-80836-12 FIG 3 OR T-80838-11 FIG 3

TABLE B (ENG INFO ONLY)

REQUIREMENTS FOR COPPER BUS BAR 58226

SIZE OF BAR	LIST NUMBER 3 AMOUNT REQUIRED				A	B
	1	2	3	4		
1 1/2 X 1/4	8-0	5-0				
2 X 1/4	16-6	16-6	2-0	3-6		
3 X 1/4	2-0	2-0			8-6	2-0
4 X 1/4			2-0	2-6		

TABLE A

WIRING PROVIDED IN THE LOCAL CABLE

LINE	NAME	NUMBER	LINE	NAME	NUMBER
6	LOCAL CABLE PLAN	ED-81230-01	12		
5	BLANK PANELS	ED-80276-50	11		
4	BAT CONT PANELS	ED-81117-10	10		
3	REAR VIEW ASSEM DWG	ED-81112-10	9		
2	METER PANELS	ED-81222-10	8		
1	FRAMEWORK	ED-80483-30	7	DUMMY FUSES	ED-80379-30

LIST OF ASSOCIATED DRAWINGS

LINE	NAME	NUMBER	LINE	NAME	NUMBER
A			B		
C			D		

REPLACED BY J86322A-2

J86322A-1

POWER SYSTEMS SPECIFICATIONS FOR EMERGENCY CELL SWITCH AND CHARGE FUSE UNITS 100-400 AMP 22-26 VOLT OR 45-50 VOLT PLANTS AUTOMATIC EMERGENCY CELL SWITCHING 302-A POWER PLANT (COPPER BUS BARS)

WESTERN ELECTRIC COMPANY, INC.

J86322A-1

MFR DISC

R 3

J86322A-1