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PBX SYSTEMS
 FUSE ALARM CIRCUIT
 FOR RELAY RACK OR APPARATUS CABINET
 MOUNTED EQUIPMENT
 DIAL OR MANUAL PBX

SECTION I - GENERAL DESCRIPTION

1. PURPOSE OF CIRCUIT

1.01 This circuit provides a fuse alarm relay for relay rack or apparatus cabinet mounted fuse panels or the 6-volt charge and discharge circuit.

SECTION II - DETAILED DESCRIPTION

1. ALARMS

1.01 When a fuse in the fuse panel operates, battery is connected to the alarm stud of the fuse mounting which operates relay FA.

1.02 Relay FA operated:

- (a) Lights lamp FA on the fuse panel.
- (b) Grounds lead B to the miscellaneous alarm circuit to cause an alarm.
- (c) Grounds lead CAP to light the associated aisle pilot lamp (option V).
- (d) Connects battery to lead FA causing the alarm circuit for a manual switchboard to function (option U).

1.03 When the operated fuse is removed, relay FA releases which retires all alarm indications.

SECTION III - REFERENCE DATA

1. WORKING LIMITS

None.

2. FUNCTIONAL DESIGNATIONS

<u>Designation</u>	<u>Function</u>
FA	Transmit a fuse alarm

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DEPT 3223-AEK-PLS

3. FUNCTIONS

- 3.01 Provides a visual fuse alarm lamp.
- 3.02 Provides for lighting an associated aisle pilot lamp.
- 3.03 Provides for operating the associated PBX alarm circuit.

4. CONNECTING CIRCUITS

- 4.01 When this circuit is listed on a key-sheet the connecting information thereon is to be followed.
 - (a) No. 701B or 711B Miscellaneous Alarm Circuit - SD-65761-01 or SD-65761-02 (typical).
 - (b) 552A, 552B, 552D, or 552E Auxiliary Signal, Battery Cutoff, Buzzer, Fuse Alarm and Night Alarm Circuit - SD-65786-01.
 - (c) Charge and Discharge Circuit 6 Volt - SD-80824-01.

SECTION IV - REASONS FOR REISSUE

B. Changes in Apparatus

B.1 Added

- FA relay, AJ100, Fig. 5
- D(1-4) diodes, 446F, Fig. 5
- FA lamp, J2, Fig. 5

D. Description of Changes

- D.1 Fig. 5 is added to provide alarms for a 10 volt ac distribution.

CIRCUIT DESCRIPTION

CD-65779-01
ISSUE 4D
APPENDIX 2D
DWG ISSUE 6D

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CHANGES

D. Description of Changes

- 3
- D.1 Circuit Notes 101 and 102 are revised
to correct drawing errors.

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(WECO 2120HW-RLS-WHK)
DEPT 5337-LAH

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CHICAGO, ILLINOIS 60637

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CHANGES

B. Changes in Apparatus

B.1 SUPERSEDED

SUPERSEDED BY

FA Relay U968,
Fig. 1
FA Relay U1250,
Fig. 2

FA Relay AJ100,
Fig. 3
FA Relay AF59,
Fig. 4

D. Description of Changes

- D.1 Option T is added to provide a +10 volt fuse alarm.
- D.2 Figures 1 and 2 are rated MD and replaced by Figures 3 and 4 respectively.

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CIRCUIT DESCRIPTION

CD-65779-01
Issue 4-D
Dwg. Issue 4-D

PBX SYSTEMS
FUSE ALARM CIRCUIT
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MOUNTED EQUIPMENT
DIAL OR MANUAL PBX

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

- D.1 Lead "LV" is added for a 6 volt charge and discharge circuit alarm.
- D.2 The reference to PBX alarms for lead B of Figs. 1 and 2 is changed to Misc. Alarms.

All other headlings under Changes, no change.

1. PURPOSE OF CIRCUIT

- 1.1 This circuit provides a fuse alarm relay for relay rack apparatus cabinet mounted fuse panels or 6 volt charge and discharge circuit.

2. WORKING LIMITS

- 2.1 None

3. FUNCTIONS

- 3.1 Provides a visual fuse alarm lamp.
- 3.2 Provides for lighting an associated aisle pilot lamp.
- 3.3 Provides for operating the associated PBX alarm circuit.

4. CONNECTING CIRCUITS

When this circuit is listed on a key-sheet the connecting information thereon is to be followed.

- 4.1 No. 701B or 711B Miscellaneous Alarm Circuit - SD-65761-01*.
- 4.2 552A, 552B, 552D or 552E Auxiliary Signal, Battery Cutoff, Buzzer, Fuse Alarm and Night Alarm Circuit - SD-65786-01.
- 4.3 Charge and Discharge Circuit 6 Volg-SD-80824-01.

*Typical

5. DESCRIPTION OF OPERATION

- 5.1 When a fuse in the fuse panel operates, battery is connected to the alarm stud of the fuse mounting which operates relay FA. Relay FA operated (1) lights the visual alarm lamp associated with the fuse panel, (2) connects ground (Option U) to lead CAP for lighting the associated aisle pilot lamp (3) connects ground to lead B to operate the associated PBX alarm circuit and (4) with "V" option connects battery to lead FA which causes the alarm circuit to function in the manual switch board.

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DEPT. 2233-WVS-PWS-DR

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
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5708 SOUTH CAMPUS DRIVE
CHICAGO, ILLINOIS 60637

Dear Professor [Name]:

I am writing to you regarding the [topic] that we discussed during our meeting on [date].

The [topic] is of great interest to our group, and we are currently exploring [details].

It would be very helpful if you could provide us with [information] at your earliest convenience.

I am sure that your insights will be invaluable to our ongoing research.

Thank you very much for your time and assistance.

Sincerely,
[Name]

[Address]

[City, State, Zip]

[Phone Number]

[Fax Number]

[Email Address]

[Additional Information]

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