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SUBJECT 98B

OUTLINE OF INVESTIGATION

FOR

ENCLOSED AND DEAD-FRONT SWITCHES FOR USE IN PHOTOVOLTAIC
SYSTEMS

ISSUE NO: 1

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Summary of Topics

This is the first issue of the Outline of Investigation for Enclosed and Dead-Front Switches for Use in Photovoltaic Systems, Subject 98B. These requirements cover enclosed and dead-front switches rated up to 1000 V dc, intended for use in dc photovoltaic (PV) systems and installed in accordance with Article 690 of the National Electrical Code, ANSI/NFPA-70. These switches are intended for ambient conditions between minus 20 to +50°C.

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CONTENTS

INTRODUCTION

1 Scope	4
2 Components	4
3 Units of Measurement	5
4 Undated References	5
5 Glossary	5

CONSTRUCTION

6 General	5
7 Spacings	6
8 Wire Terminals	6
9 Inclined Plane Tracking	7
10 Enclosure Doors	7
11 Fusing	7
12 Wiring and Bending Space	8

PERFORMANCE

13 General	8
14 Heating Test	8
15 Overload Test	9
16 Endurance Test	9
17 Short Circuit Tests	9
18 Mold Stress Relief Test	10
19 Wire Terminals for Other Class and Strand Configurations	10

RATINGS

20 General	10
------------------	----

MARKINGS

21 General	10
------------------	----

INTRODUCTION

1 Scope

1.1 These requirements cover enclosed and dead-front switches rated up to 1000 V dc, intended for use in dc photovoltaic (PV) systems and installed in accordance with Article 690 of the National Electrical Code, ANSI/NFPA-70. These switches are intended for ambient conditions between minus 20 to +50°C.

1.2 These requirements are intended to be used in conjunction with requirements in the Standard for Enclosed and Dead-Front Switches, UL 98, except as modified or supplemented by the following requirements.

1.3 Unless otherwise specified, when the term switch is used in this outline, it refers to a photovoltaic enclosed or dead-front switch.

1.4 Fusible switches are intended for use with photovoltaic (PV) fuses which comply with the requirements of Outline for Low-Voltage Fuses – Fuses for Photovoltaic Systems, Subject 2579.

2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this outline shall comply with the requirements for that component.

2.2 A component is not required to comply with a specific requirement that:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this outline; or
- b) Is superseded by a requirement in this outline.

2.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.