

American National Standard for Switchgear— Alternating-Current High-Voltage Power Vacuum Interrupters—Safety Requirements for X-Radiation Limits

Secretariat

**National Electrical Manufacturers Association
Institute of Electrical and Electronics Engineers**

Approved October 17, 1988
American National Standards Institute, Inc

Foreword

(This Foreword is not part of American National Standard C37.85-1989.)

This standard was developed initially by a task force of the NEMA Switchgear Section as a result of an industry study undertaken at the request of the Bureau of Radiological Health in order to meet the need as set forth in Public Law 90-602, identified as Radiation Control for Health and Safety Act of 1968.

Upon completion, the initial proposal was submitted to the American National Standards Committee C37 on Power Switchgear for further development and in order to obtain a consensus as an American National Standard. It was approved on April 28, 1972 as American National Standard for Safety Requirements for X-Radiation Limits for AC High-Voltage Power Vacuum Interrupters Used in Power Switchgear, ANSI C37.85-1972.

This standard set forth performance requirements relative to X-radiation emission and methods of test for high-voltage vacuum switching devices. The 1988 revision incorporates higher-voltage vacuum interrupters that have been developed, tested, and placed into service since the 1978 reaffirmation and that meet the requirements of this standard.

Suggestions for improvement of this standard will be welcome. They should be sent to the National Electrical Manufacturers Association, Inc, 2101 L Street, NW, Washington, DC 20037.

This standard was processed and approved for submittal to ANSI by Accredited Standards Committee on Power Switchgear, C37. Committee approval of the standard does not necessarily imply that all members voted for its approval. At the time it approved this standard, the C37 Committee had the following members:

W. E. Laubach, *Chair*
A. K. McCabe (*Executive Vice-Chair, High-Voltage Standards*)
S. H. Telander (*Executive Vice-Chair, Low-Voltage Standards*)
D. L. Swindler (*Executive Vice-Chair, International Electrotechnical Commission Activities*)
C. H. White, *Secretary*
M. B. Williams (*Program Administrator*)

Organization Represented

Association of Iron and Steel Engineers

Electric Light and Power Group

Institute of Electrical and Electronics Engineers, Inc

Name of Representative

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R. L. Capra (Chair)

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The C37 Subcommittee on X-Radiation Limits for AC High-Voltage Power Vacuum Interrupters for Use in Power Switchgear, which developed this standard, had the following members:

P. O. Wayland, *Chair*
B. H. Schultz (*Working Group Chair*)
C. H. White, *Secretary*
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