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Service Conditions for***

**POWER SYSTEM
COMMUNICATIONS APPARATUS**

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FOREWORD

In 1955 the Equipment Design Standards Subcommittee of the Power System Communications Committee was organized to formulate proposed Standards of usual and unusual service conditions for power system communications apparatus, similar to those already established for relays associated with power apparatus (USAS C37.1) and automatic station supervisory control and telemetering equipment (USAS C37.2). The Standard was to exclude carrier coupling capacitors and line traps, radio antennas, and various end devices such as protective relays, supervisory control apparatus, and telemetering instruments.

The introduction of transistors and related solid-state devices into power system communications apparatus has accentuated the need for a Standard on temperature limits. Much consideration was given to the "usual service" ambient temperature range specified in paragraph 2.1. The present limits were established in close coordination with Power System Relaying Committee personnel, also involved in specifying ambient temperature limits in a proposed revision of USAS C37.1. The Standards Subcommittee is unanimously of the opinion that a Standard should set down the usual service conditions under which equipment is to operate, not what equipment will do under these conditions.

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This publication was prepared by the Equipment Design Standards Subcommittee of the Power System Communications Committee of the IEEE Power Group, whose membership was:

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