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compensators (SVCs), before they are placed in-service, for the purpose of verifying their specified performance are described. The major elements of a commissioning program are identified so that the user can formulate a specific plan that is most suited for his or her own SVC. Scope: This document is a guide for field testing and commissioning of static var compensators (SVCs). As such, the document establishes general guidelines and criteria for field testing to verify the specified performance of SVC systems. Many clauses will be useful for compensator systems using gate turn-off (GTO) thyristor technology (static compensator [STATCOM]) or other semiconductor devices such as insulated gate commutated transistor (IGCT). This guide does not a. Cover factory and simulator tests of SVC system components (but it assumes that such tests have been performed beforehand). b. Discuss the division of responsibility between user and supplier, since this division is usually defined in the contract between buyer and supplier. Most often, however, the practice is for the equipment, subsystem, and commissioning tests to be performed by the supplier, and the acceptance tests to be performed by the buyer or user. Purpose: The purpose of this guide is to help users of SVCs carry out a field test program prior to placing an SVC into service. The major elements of a commissioning program are identified so that users can formulate a specific plan that is suited to their own SVC. Such a test program should cover the following: a. Equipment tests within the SVC system b. Tests of the various subsystems that comprise the SVC system c. Commissioning tests for the complete SVC system d. Acceptance testing of the complete SVC system It should be recognized that there are many ways in which a particular SVC may be commissioned, and also that it is not the purpose of this guide to endorse a specific procedure to the exclusion of otherre methods. Depending on the purpose of the SVC design (transmission type or smaller size used for other purposes) some tests may not be required. In particular, some control system tests may be included in the factory tests. Also, acceptance tests may be integrated into any of the categories listed above.