



## ETAP Validation Cases and Comparison Results

ETAP is Verified and Validated (V&V) against field results, real system measurements, published cases, other programs, and third calculations in order to assess its technical accuracy. Prior to installation, to accompany the V&V of our software and capabilities, the ETAP Test Group will use test cases to the existing history of experience. In addition, the Test Group reviews all existing test cases, as part of our extensive and comprehensive V&V process.

In accordance with IEEE Quality Assurance Program, all procedures and activities related to the quality of ETAP software are subject to internal and external audits, including customer checks and ISO 9001 third certification assessments. Test cases are reviewed during the audit process.

### The document includes

#### Load Flow

##### Load Flow Comparison Case #1

Comparison of ETAP Load Flow Results against a Published Testbook Example

##### Load Flow Comparison Case #2

Comparison of Load Flow Results against a Published Example

##### Load Flow Comparison Case #3

Comparison of ETAP Load Flow Results against Published Testbook Examples

#### Short Circuit

##### Short-Circuit MVA Comparison Case #1

Comparison of Short-Circuit Results against Third Calculations based on Application Engineering Information

##### Short-Circuit MVA Comparison Case #2

Comparison of ETAP Calculated Short-Circuit Calculations against a Published Example

##### Short-Circuit MVA Comparison Case #3

Comparison of ETAP 3-Phase Only Short-Circuit Calculations against Published IEEE Std 399-1997 Example

##### Short-Circuit ISC Comparison Case #4

Comparison of ETAP Short-Circuit ISC Calculations against Published Example

#### Arc Flash

##### Arc Flash Comparison Case #1

Comparison of ETAP Arc Flash Results against third calculated results based on IEEE Testbook

##### Arc Flash Comparison Case #2

Verification of ETAP Arc Flash IEEE 158 results against Third Calculations

# Etap Reference Guide

**Yi-Tong Ma**

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