



## 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 IEEE Comparison Case #1

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

##### Short-Circuit IEEE Comparison Case #2

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

##### Short-Circuit IEEE Comparison Case #3

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

##### Short-Circuit IEC Comparison Case #1

Comparison of ETAP Short-Circuit IEC Calculations against Published Example

#### Arm Fault

##### Arm Fault Comparison Case #1

Comparison of ETAP Arm Fault Results against third calculated results based on IEEE Testbook

##### Arm Fault Comparison Case #2

Validation of ETAP Arm Fault IEEE 781 results against third Calculations

# Etap Reference Guide

**Xiaolong Qi**



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