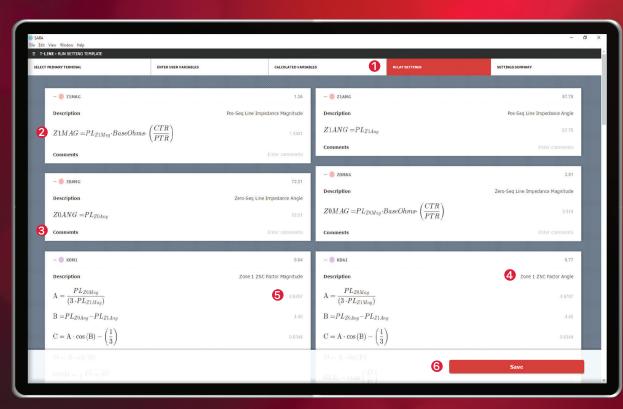


- 1 Create a template with all the desired equations
- Enter desired equations
- 3 Add comments to document adjustments



- 4 Name equations for ease of recognition
- 5 Integrate template with ASPEN to automatically calculate equation

values

6 Save template for future applications to ensure consistency

SARA: AUTOMATED TOOL FOR RELAY SETTING DEVELOPMENT

Empowering Utilities Through Automation

SARA (Setting Automation Relay Assistant) is a software tool which integrates with ASPEN to automate transmission line relay setting creation and wide area coordination. This innovative program uses a smart template that streamlines fault calculations and settings equations, eliminating errors due to the manual transfer of data and ultimately producing more accurate settings.



Eliminate Manual
Errors During
Settings Development



Perform Wide Area Screening Analysis of Protective Relays



Use Automation Scripts to Increase Efficiency



Automate Reports for Easy NERC Reporting

EMPOWERING UTILITIES THROUGH AUTOMATION

The Future of Relay Setting Development

SARA is a powerful software tool for the protection industry which can simplify the relay setting development process, conduct wide area coordination studies, and review and analyze the resulting data. In SARA, engineers can create a template to define their protection philosophy, auto-populate information from ASPEN to eliminate copy and paste processes, perform relay setting calculations, and generate RDB files and reporting documentation which can be used for NERC compliance.

The Automation Process

CREATE TEMPLATE. Create a template to define a set of equations that represent a setting philosophy.

AUTOMATE DATA COLLECTION & FAULT ANALYSIS. Integrate with ASPEN to automate data collection and fault analysis.

AUTOMATE RELAY SETTING CALCULATIONS. Run the template by bi-directionally communicating with a short-circuit program to solve setting equations.

EXPORT ALL SETTINGS CALCULATIONS. Export all settings to a relay setting file.

GENERATE DOCUMENTATION. Generate a report with all settings, equations, calculated fault values, and notes in an editable Word format.

ACHIEVE NERC COMPLIANCE. Create equations to verify NERC compliance for all versions of PRC-023, PRC-026, and PRC-027.

