

Consistency Makes Your Job Easier

with High Voltage Control Cabinets

Consistent custom cabinet design, layout and function which makes it easy to find what your looking for.

EASIER FOR EMPLOYEES

Having a common control cabinet design for all brands of transformers will make it easier for operations crews to work on the equipment. Using consistent components, layout and wiring will allow the crew to improve efficiency as they will know the design. This familiarity with one design will also improve safety as they will better understand the logic as all systems are the same.



SINGLE POINT OF RESPONSIBILITY

Having one company responsible for the monitoring and control logic, support at the transformer factory and on-site commissioning of the system avoids the hassle of supplier coordination. It reduces the potential errors generated as design intent is passed from one company to another. In addition, the single point accountability eliminates potential project delays and excess installation costs. Control cabinet wiring errors often require the OEM to return to the job site to fix wiring errors which holds up other contractors including the Dynamic Ratings commissioning engineers who are commissioning the system. If the cabinet is supplied by Dynamic Ratings, any wiring issues can be resolved on site, keeping the project on time and avoiding costly return trips following OEM repairs.

DESIGN OPTIMIZATION

Transformer OEMs have their own standardized components and designs. It is often easier for them to utilize their own standards and add in additional customer specific components over the top of their standard design without truly integrating the equipment. If they are only building one transformer for that end utility, this makes sense as the engineering cost outweighs the benefit of simplifying the design. However, if the volume from all OEMs were considered, it then becomes cost justified to fully integrate the products, eliminate redundant components and make the system more cost efficient and reliable.

SIMPLIFY THE DRAWING REVIEW FOR NEW TRANSFORMERS

Since each OEM has their own standard design, it would be very time consuming for Utility Engineers to provide detailed reviews on every new cabinet and to force consistency that will benefit the utility. With a single cabinet supplier, the utility engineer(s) can review one standard design and once approved, all future transformers would utilize that one standard. Dynamic Ratings maintains a Customer Requirements Document that details all construction and instrument programming details with revision control.



RESPONSIVE

ASSET HEALTH SOLUTIONS

SIMPLIFY THE FUTURE SUPPORT

This design detail for the control cabinet, instruments and sensors are tracked by Dynamic Ratings with reference to the serial number of the transformer and once commissioned, the substation name is added to the records. If there is ever a need to locate “all control cabinets that have the following component or setting or logic or ...” this detail can be easily retrieved.

EASIER RETROFITS

Old transformers that are being updated to add monitoring or need new control cabinets installed due to aging wiring can utilize the same common control cabinet. Often it will be both cheaper and easier to replace the complete control cabinet instead of adding new cabinets and interconnecting the new monitoring equipment. Instead of complicated wiring diagrams that are redlined with all the changes, new drawings would provide better accuracy while avoiding much of the consulting engineer cost.

CHAIN OF CUSTODY

Managing the chain of custody for digital equipment is a concern for a growing number of utilities. Since Dynamic Ratings will be on site to commission the control cabinets, it is easy to manage this process. While there are multiple ways to solve this challenge, following is one alternative.

Support the OEM: Dynamic Ratings manufactures the control cabinets with all of the instruments needed for factory testing. All of the instruments are configured as needed for that transformer prior to shipment and Dynamic ratings provides any needed support for the OEM.

Secure the Device: Dynamic Ratings will provide a second set of pre-configured instruments to the end utility for their security testing. Once the security testing is completed, these instruments will be brought to the job site by the utility.

Reclaim and Prepare for the next: Dynamic Ratings will reclaim the transformer factory test controls (bringing them back for use with the next transformer order) and will install the security verified instruments.



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