



RMV-II LTC Field Retrofit

Turnkey Installation Service Available from WES Service

Turnkey field retrofits of worn Load Tap Changers to a Reinhausen RMV-II is one of the many transformer and substation services available from your experienced and qualified WES Service team. We're dedicated to keeping your power system up and running 24/7/365. To find out more, contact your local Waukesha Electric Systems Sales Representative or Service Project Engineer.



- Test transformer prior to original LTC removal:
 - TTR, Power Factor, Megger
- Remove tap leads from reactor to tap board internally
- Unbolt and remove reactor from transformer compartment
- Modify reactor as required for Reinhausen RMV-II LTC
- Uncouple drive linkage between LTC and motor drive compartments
- Remove motor drive compartment and related conduit and wiring
- Supporting the LTC with a crane, remove old LTC compartment by air arc or unbolting from the main transformer tank
- Adaptor Throat (AT) between LTC and main tank:
 - Design and fabricate AT using RMV-II and transformer as template
 - Clamp the AT onto the RMV-II and align onto tank
 - Tack weld AT into position and remove RMV-II
 - Weld AT into position both inside and out
 - Position RMV-II on AT and perform final weld
- Clean reactor compartment, remove temporary wall and place manhole on reactor compartment
- Pressure test welds at 5 psi positive pressure and leak test all welds under pressure
- Relieve pressure and install and bolt reactor in place
- Connect leads to new RMV-II
- Ratio leads in tap positions to verify correct connections
- Inspect inside of unit and seal on dry air pressure
- Mount motor drive compartment to tap compartment
- Mount control cabinet
- Make appropriate conduit connections to control cabinet
- Land wiring in the control cabinet
- Process oil back into transformer
- Perform acceptance testing:
 - TTR, Power Factor, Megger
 - Oil sample for DGA and quality



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