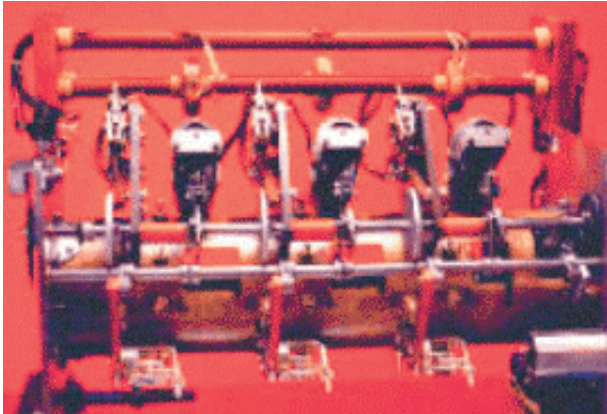


# LOAD TAP CHANGER (LTC) DIAGNOSTIC EVALUATION



## MAINTENANCE COST SAVINGS

Load Tap Changers (LTCs) are a critical component of Power Delivery systems. LTC failures are costly and can result in transformer failures. Fortunately, many problems can be located before the LTC fails.

The AVO DIAGNOSTIC SERVICES Program will enable you to identify problem LTCs and take corrective action. The program will both minimize maintenance costs and help eliminate unplanned outages.

## DIAGNOSTIC TESTS INCLUDED IN THE LTC PROGRAM

Failure modes, identified by industry consultants, include contact erosion and contact heating due to coking. These problems can be identified at an early stage by dissolved gas analysis (DGA) and a metals in oil determination.

Dielectric Breakdown voltage is also a valuable indication of metal and other particles in the oil.

**AVO DIAGNOSTIC SERVICES** has developed an exclusive interpretation program for LTC-dissolved gas data. Concentration levels of fault gases provide a reliable indicator of the current condition of your LTCs. The DGA, dissolved metals data and oil tests are evaluated and used to generate a coded LTC assessment. The three LTC condition codes and testing recommendations are summarized in Table A.

Condition Code	Recommended Action
Normal	Resample oil for testing within 6 months.
Caution	Resample oil for testing within 3 months.
Warning	Consider performing internal inspection of LTC. Resample oil within 1 month.

**AVO DIAGNOSTIC SERVICES** can assist you with the development of your testing criteria. Test results are available via phone, fax, e-mail and on the web. Clients are immediately notified of LTCs that fall into the warning category.



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