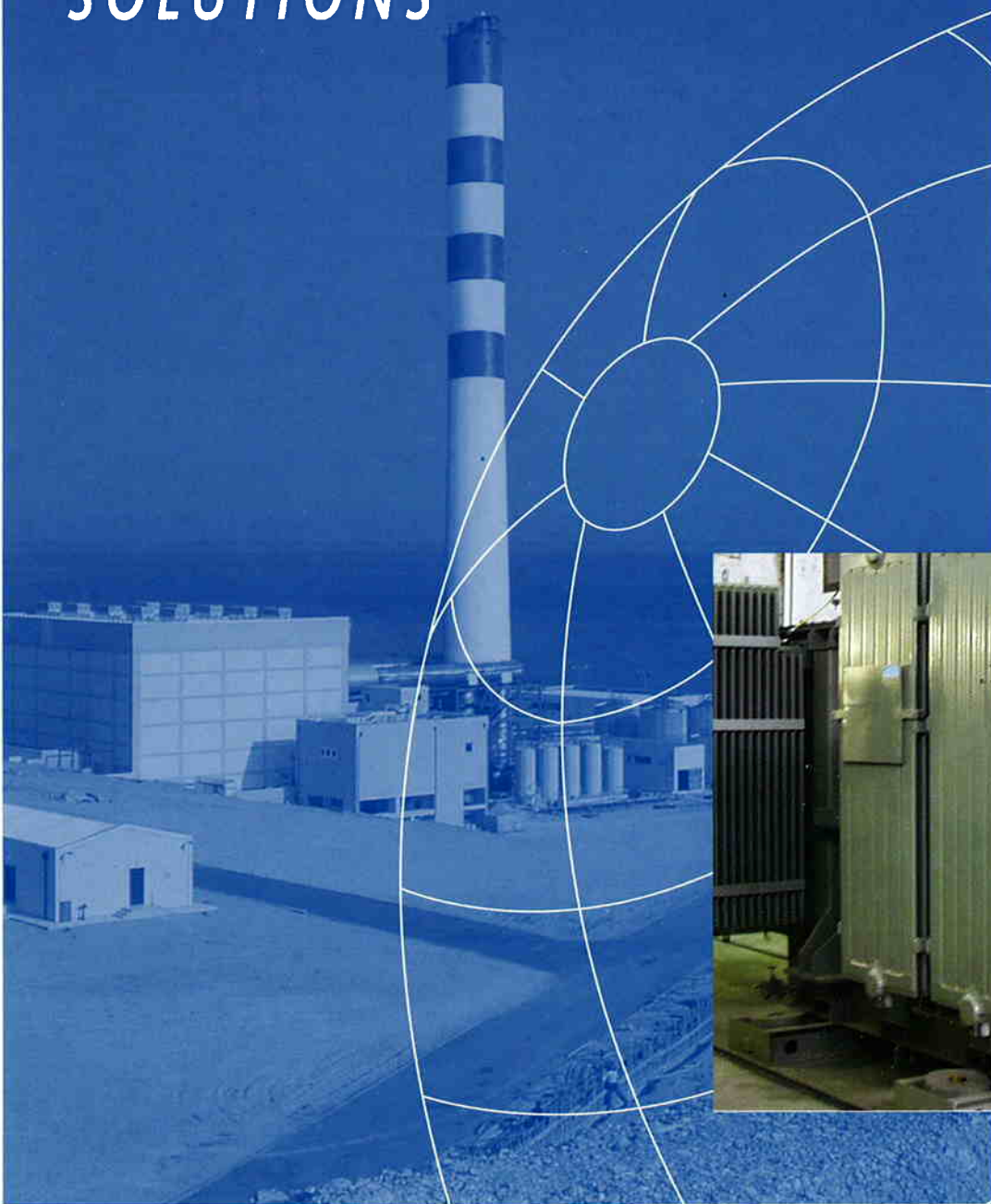


*DEPENDABLE SERVICE
SOLUTIONS*



TRANSFORMER OIL MONITORING

BWSC 

Burmeister & Wain Scandinavian Contractor A/S

Transformer Oil Monitoring

- We Predict and Prevent Problems

BWSC offers preventive maintenance of oil filled transformers in order to keep your units in a good operational condition, and to reduce the risk of costly breakdowns and extensive downtime.

A record of all analysis results for a specific transformer will enable you to maintain an accurate service history and improve the prompt detection of developing problems. In addition, BWSC offers to benchmark the results of your transformer against a large-scale database.

This enables BWSC to identify potential problems and provide an early warning of possible faults.



Transformer Oil Monitoring Method

BWSC service personnel will take oil samples during service visits, ensuring both the right sampling procedure and that the oil is taken from designated sample points.

Problems may develop during the lifetime of any oil filled transformer, such as changes in the composition of the transformer fluid and gas formation. Monitoring the concentration of CH₄ (methane), C₂H₄ (ethylene) and C₂H₂ (acetylene) is especially important in the process of determining which type of fault is producing a specific combination of gas concentrations.

Besides the water concentration in the oil and oil suitability, BWSC also measures the concentration of the 3 gases methane, ethylene and acetylene, and enters this information into an extensive database.

The data is compared with the Duval triangle, which is divided into fault zones that indicate the likely fault type that produces a specific combination of gas concentrations.

The analysis result is scrutinized and by benchmarking with thousands of oil sample analysis and adding our worldwide service experience BWSC makes tailor-made recommendations on the specific transformer.

Transformer Oil Monitoring Benefits

- Providing an early warning of potential problems
- Maintaining high availability of vital power plant components
- Preventing faults from developing into costly and time consuming repairs



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