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TRAINING SYLLABUS

This is the standard outline for training on the DATS fouling monitor series of equipment. The material and details you receive may vary depending upon your experience base, desires, the particular piece of equipment you are operating, and the nature of your testing.

- 1) Theory of Operation, thermal measurement of heat transfer performance with the Deposit Accumulation Testing System.
 - heat transfer calculation method
 - wall temperature calculation method
 - convective heat transfer resistance calculation
- 2) Applications and Limitations of the DATS:
 - side stream cooling water measurement
 - biofouling, scale and corrosion products
 - bulk fluid temperatures and sources
- 3) Description of Component Function, DATS 2/3
 - flow measurement
 - thermal energy measurement
 - temperature measurement
- 4) DATS system operation and control
 - Set point calculations - power level and flow
 - routine/common maintenance procedures
 - DATS 2 bench operation
 - PC communication/data storage/control
 - 4-20 ma auxiliary input measurement/connection
 - DATS 3 bench operation
 - 4-20 ma output measurement/connection
 - PC communication/data storage/control
- 5) DATS Data Retrieval and Analysis
 - downloading from the DATS 2 to PC, local/modem
 - analog signal reception, DATS 3
 - digital communications, DATS 3
 - spreadsheet work, data importing, Excel
 - Graphing of DATS data, HTR vs time...
 - Typical HTR values and performance variation