PSE ENGINEERING GMBH

C.P.- Data Management System CPDMS

Created for corrosion protection data management by corrosion protection Experts

In case you require a cathodic protection data management system based on periodic data collection then *-CPDMS-* is the tool you need. Data collection in cathodic protection systems is complex and the databases needed to store the volume of data must be flexible and be designed with minimal efforts. *-CPDMS-* has been designed for multiple sites and plants within those sites and for cathodic protection personnel who collect their data using portable instrumentation managing the storage and migration of data and values without user intervention. It combines the cathodic protection control with scalable database management to deliver order to the inconceivable quantities of data produced in cathodic protection systems at various sites. At the same time, *-CPDMS-* lowers the administrative costs of operating cathodic protection systems, freeing professional staff for engineering functions and data interpretation.

Whether scheduling routine field data collection, judging system effectiveness, pinpointing system failures or other problems, or preparing for a regulatory audit at site, *-CPDMS-* is an indispensable package for cathodic protection professionals. Since more than 10 years *-CPDMS-* is used to manage many of cathodic protection systems, just like any other and we continue to learn and fine-tune the software from our day-to-day cathodic protection data management experiences. No other commercial software package can claim these deep roots in cathodic protection software development expertise. The software was developed by engineers working in real cathodic protection data management environments to meet everybody`s requirements (data managers, cathodic protection engineers, field maintenance departments, investigators, statisticians etc.).

*-CPDMS-* has achieved a remarkable balance between easy-of-use and flexibility and has a proven track record in managing cathodic corrosion protection systems of every possible design, database and edit check specifications from the smallest company with special needs to the largest oil companies with extensive internal and well-established standards and everything in-between.

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C.P. - Systems and Measurement Data Collection

PLANT AREAS

- DC Voltage
- DC Current

T/R-Unit

- Resistance
- Potentials

Insulating Flanges

- Anode Chain Currents

Anode Junction Box

- ON - Potential

Various Area locations

PRODUCTION WELL CASINGS

- DC Voltage
- DC Total Current
- DC Single Currents

T/R-Unit or Solar Unit

- Anode Chain Currents

Anode Junction Box

- Well Current
- Flow line Current
- ON/OFF Potential Well
- ON/OFF Potential Flow line
- Resistance I-flange

Cathode Junction Box

- ON/OFF Potential Flow Line
- Resistance I-flange

Manifold

PIPELINES

- DC Voltage
- DC Current

T/R-Unit or Solar Unit

- Anode Chain Currents

Anode Junction Box
Deep Groundbed

- Anode Single Currents

Anode Junction Box
Shallow Groundbed

- ON/OFF – Potential
- Resistance casing
- Resistance I-flange
- Line current
- Interference at Crossings

Various Test Stations

JETTIES

- DC Voltage
- DC Current

T/R-Unit

- Anode Single Currents

Anode Junction Box

- ON/OFF - Potential

Various Test Stations

MODATA is a portable instrument used to collect and transfer remote data

to a PC via interface for analysis and graphing using software -CPDMS-

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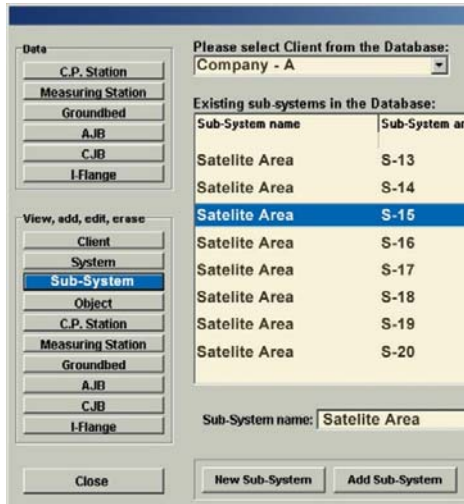## Graphic Displays

Data collection in cathodic protection systems is complex and the databases needed to store the volume of data must be flexible and be designed with minimal effort.
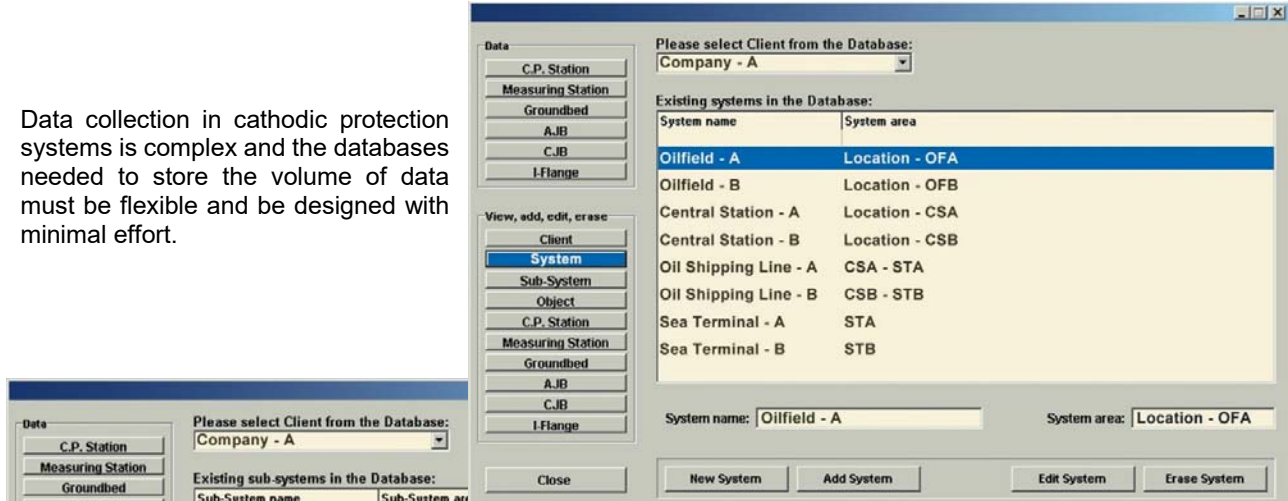
The database system must be comprehensive in supporting intricate procedures required in a regulated environment, ensuring data quality control, special coding terminologies, query management, database loading and exporting functions, etc.
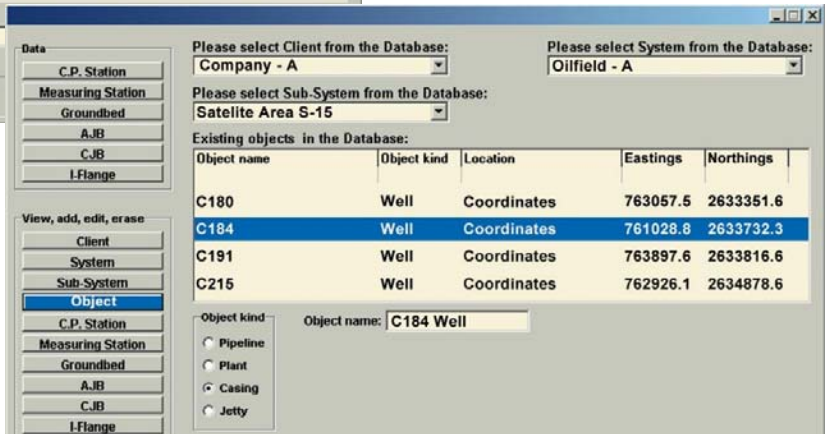
The software provides for multiple cathodic protection systems and subsystems. Local users linked to the network can maintain their own system. Graphical displays with all recorded data are easily produced for interpretation of corrosion protection staff.
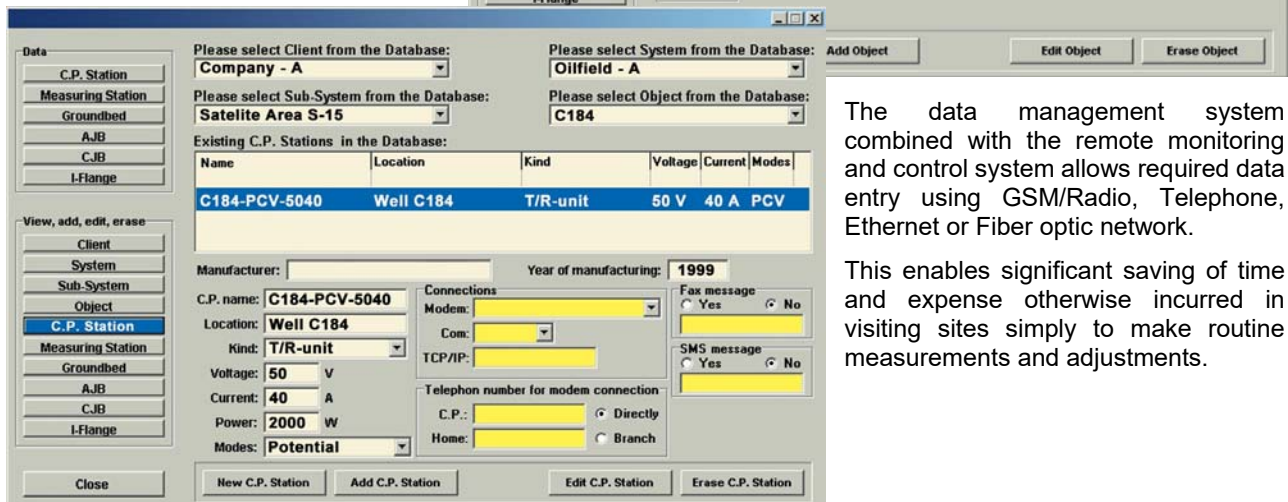
The data management system combined with the remote monitoring and control system allows required data entry using GSM/Radio, Telephone, Ethernet or Fiber optic network.

This enables significant saving of time and expense otherwise incurred in visiting sites simply to make routine measurements and adjustments.

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Graphic Displays

The creation of software package that is efficient and effective in meeting the needs of cathodic protection data management requires a careful balance of automatic features, modularity, system design, database structure, and flexibility to meet an enormous and divergent set of requirements.

-*CPDMS*- is the perfect corrosion protection data management system, allowing on & off line data collection, storage, analysis and reporting.