PI-DAS™
CONTINUOUS EMISSIONS MONITORING & REPORTING

OVERVIEW

Exele's PI-DAS is an environmental DAS / RTU system that provides flexible solutions for data intensive compliance requirements. Data collection and storage are handled by OSISoft's PI System, an industry standard historian. Storing data on this platform makes it easy to access through a variety of client tools. The PI-DAS enables real time emissions calculations, retrospective recalculation, manual overrides of system parameters, and customized alarming and notification. All relevant calculation results are stored in the PI historian and are available for reporting and displays using standard PI client tools.

Exele PI-DAS systems are used for the following compliance requirements:

- CFR 40 Part 60 and 75
- Title V with reasons/actions and EDR
- MACT (Maximum Achievable Control Technology)
- Southern California RECLAIM (Regional Clean Air Incentive Market)
- RICE/NESHAPS
- Green House Gas
- Subpart W and ZZZZ
- Other similar regulations

FEATURES

Real time acquisition using standard interfaces

- **Data and analyzer status from PLC's, DCS's, and CEMS controllers**
- **Calibration gas values, maintenance statuses, fault signals**

Data Validation

- **Real time calculations and retrospective recalculation**
- **Calibration drift correction**

Evaluation

- **Immediate notification of invalid data, analyzer faults, and out of control events**
- **Reason and Action management for equipment malfunctions and permit exceedances**

Aggregation

- **Hourly and block average roll up**
- **Aggregation of hourly, daily, monthly, quarterly, and yearly totals**

Reporting

- **Automatic data transmission and reporting to regulatory agencies**
- **Operational and compliance reports (EDR's)**

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CALCULATION

Exele's PI-DAS calculation package performs real time and retrospective calculations to satisfy your permitting requirements. Real time calculations allow you to see live emissions values and compare them with raw process values, operating conditions, and equipment status. Using custom calculation logic you can extract useful knowledge from your r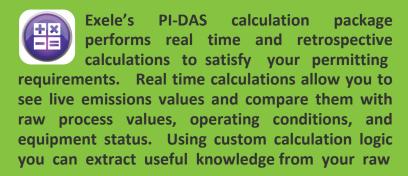aw data, enabling cost saving decision making and strategic planning. Daily retrospective calculations perform data substitution and rules based data processing required for regulatory reporting and compliance. These calculations are archived in the PI historian where results are easily traceable and auditable.

NOTIFICATION

Quickly responding to data outages and permit violations is critical for cost-effective emissions monitoring. Exele's TopView, which is part of the PI-DAS system, monitors and alarms on raw data, calculated values, and manual inputs. Audible, email, SMS, and voice callout notifications let you know immediately of problems such as calibration failures, diagnostic alarms, or permit limit exceedances. In addition, desktop and mobile applications let you remotely monitor current alarm status as well as alarm history and analytics.

REPORTING

The PI-DAS system automates report creation and transmission to regulatory agencies via EDRs. Standard reports monitor calibration status while custom reports can be generated to satisfy specific reporting requirements. These reports reduce the number of hours spent working on spreadsheets and ensures that everyone is working with the same set of data. With the PI System, reports can be generated from any workstation that has access to the PI server.

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