

OPERATING ENVELOPES

REDUCE PLANT VARIABILITY

Effectively compare all process parameters versus the appropriate targets (The Envelope), allowing the plant to reduce variability and avoid potentially harmful conditions.

Configure the Envelope

Multiple limits can be established for each process data tag, and can even be associated with scripted and calculated tags. Tag limits can be entered directly as number values, reference calculated tag values, or use values imported from external databases. Furthermore, limits can be grade- specific, product-specific, or rate-specific.

Flexible Notification Parameters

When an alarm is triggered, indicating that the process has strayed outside of its Operating Envelope, individuals can be notified instantly via email and SMS notifications. Notifications can also be automatically sent out when the alarm has cleared.

Set Tag Limits For:

- Control limits calculated from historical data
- Limits based on OEM design specifications
- Environmental and/or governmental compliance limits
- Customer specification/product quality limits

Compliance Reporting

Generate reports on critical process and equipment variables. These reports can include the percentage of time each variable was within its limits or centerlines, information on individual out-of-centerline events, and “rollup” percentages for different groups of data over a specified period of time (daily, weekly, monthly, etc.).

Universal Limits & Alarms

Limits and alarms that are set up in PARCalarm can be accessed from other dataPARC applications, including Trends, Graphics, Centerlines, Logbook, Histograms, and SQL Reports.

8	Area	Compliance
126	SR	90.6%
127	Seattle Refinery	90.6%
128	FCC Charge Rate	MBPD 100.0%
129	Riser Outlet Temperature	DEGF 100.0%
130	Conversion	VOL % 100.0%
131	Naphtha Rate	MBPD 100.0%
132	LCO Rate	MBPD 100.0%
133	Slurry Rate	MBPD 99.3%
134		
135	C3+ Liquid Yield	VOL % 98.1%
136		
137		
138		
139	Mass Balance	WT % 100.0%
140	FCC Design Exceptions	Count 0.0%
141		