



## FAMOS™ Technology

PF-Q24-11-14-ST-55E-PO

### PdP and Wind Turbines

Curtiss-Wright provides the technologies and tools to make significant differences in a successful condition monitoring initiative.

Wind turbine condition monitoring has become a valuable and necessary activity to best manage the asset's availability and reliability. Because of the unique operation of this type of equipment and the specific fault situations that may develop, wind turbine operators have turned to advanced monitoring technologies to aid in the overall understanding of their equipment's condition.

The key element of the Curtiss-Wright's wind turbine monitoring solution is the PdP (Predictive Pattern Recognition) application. When combined with Curtiss-Wright's Rules Engine application, automated condition assessments of the monitoring results are delivered.

Curtiss-Wright's monitoring tools are focused at providing early insight into developing problem situations and component anomalies. Scientech's applications are directly aimed at the wind turbine's components that can benefit from advanced monitoring:

- Rotor
- Pitch Control
- Generator
- Blades
- Yaw System Hydraulic System
- Bearings
- Gear Box
- Main Gear
- Nacelle

With wind turbine reliability being a key operator concern, Curtiss-Wright's tools add value and provide the results that are needed. Early warning capability combined with flexible data integration and alarm processing provides the comprehensive, real-time monitoring needed to minimize unplanned maintenance and reduce operational risk.

Unit	Assessment	Reports	Architect
Unit: 003	Processing Rate: 120	Validation Parameter: 0.000000	
Model: 3aBFPp	Total Points: 35	Cutoff Point: 3281201A	
3A BOILER FEED PUMP	Cutoff Value: -4594.004	High Cutoff: 3400.00	
Category: Apply	Low Cutoff: 3400.00		
Model Health: 0.040332	Alarm: out of Y	3	out of 4
Model Status: ABNORMAL	Alarm On	Variance	
Abnormal Points: 3			

  

Sensor	Description	Unit	Actual	Predicted	Variance	Knobval	Res. High	Res. Low	Active	In Alarm	Trend
SP12105A	US A BFP PRESS	PSIG	15.000	16.641	6.253	-0.612	0	0	Yes	Yes	Trend
ST12104A1	A BFP TRIP	CHG F	0	190.629	12.268	-139.429	0	0	Yes	Yes	Trend
ST12102A0	A BFP CC D/W TRIP	CHG F	0	102.233	9.509	-103.233	0	0	Yes	Yes	Trend
SP12101A	US A BFP SUCTION FLOW	MS/W	183.047	195.453	0.227	67.998	0	0	Yes	No	Trend
SP12103A	US A BFP SUCTION PRESS	PSIG	358.821	365.742	0.347	-27.335	0	0	Yes	No	Trend
ST12104A	US A BFP SUCTION TRIP	CHG F	315.261	337.20	0.271	18.992	0	0	Yes	No	Trend
SP12102A	US A BFP DISCHARGE PRESS	PSIG	3536.823	3567.74	0.119	-21.217	0	0	Yes	No	Trend

