



Phenix Energy Group, Incorporated

SCADA BUSINESS PLAN
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Name:

Copy Number:

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CONTENTS OF MEMORANDUM; ADDITIONAL INFORMATION

EXCEPT FOR THE FINANCIAL STATEMENTS AND AS OTHERWISE INDICATED, THIS MEMORANDUM SPEAKS AS OF MARCH, 2010. NEITHER THE DELIVERY OF THIS MEMORANDUM NOR ANY SALE MADE HEREUNDER SHALL, UNDER ANY CIRCUMSTANCES, CREATE ANY IMPLICATION THAT THERE HAS BEEN NO CHANGE IN THE AFFAIRS OF THE COMPANY AFTER SUCH DATE.



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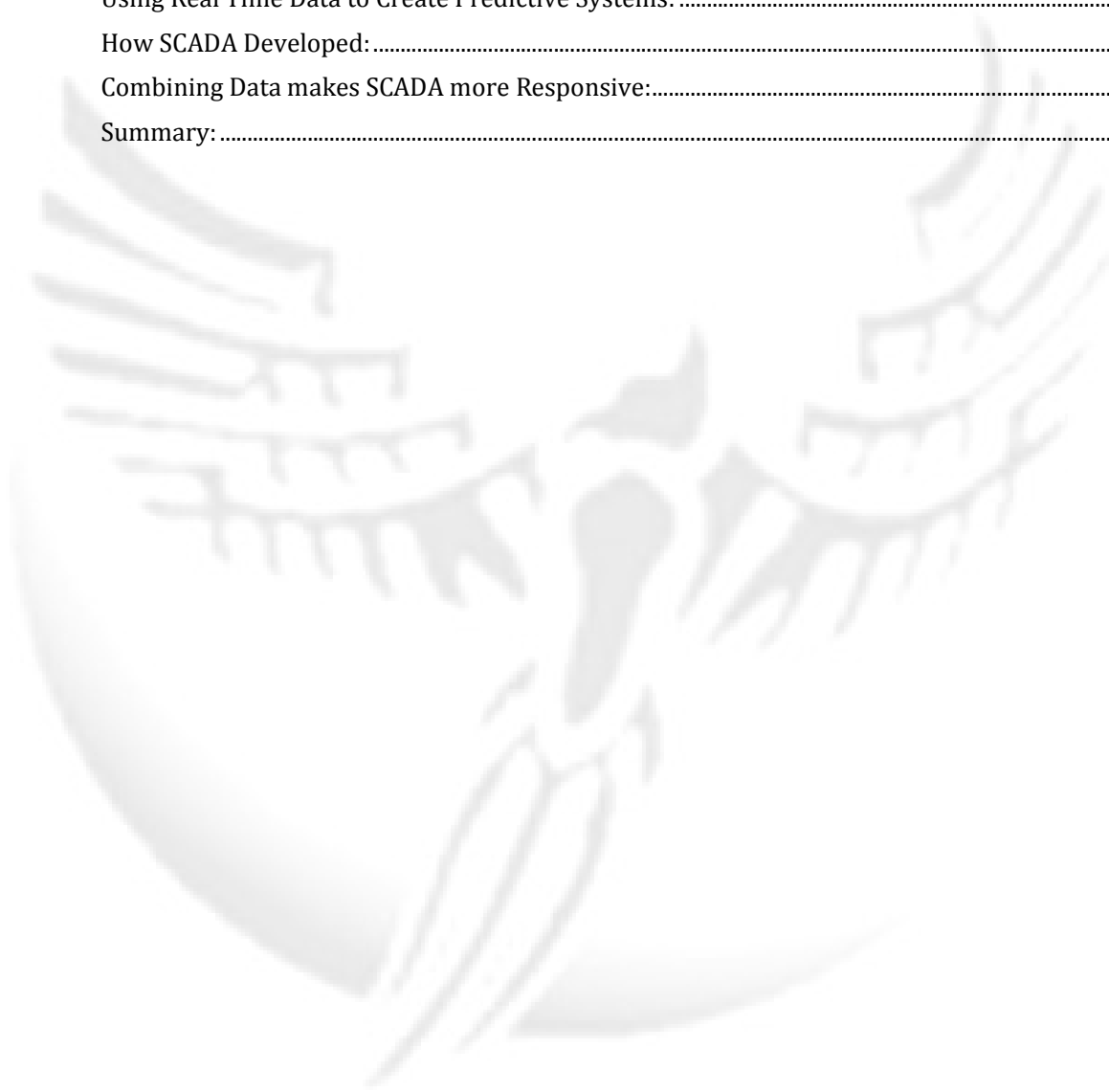


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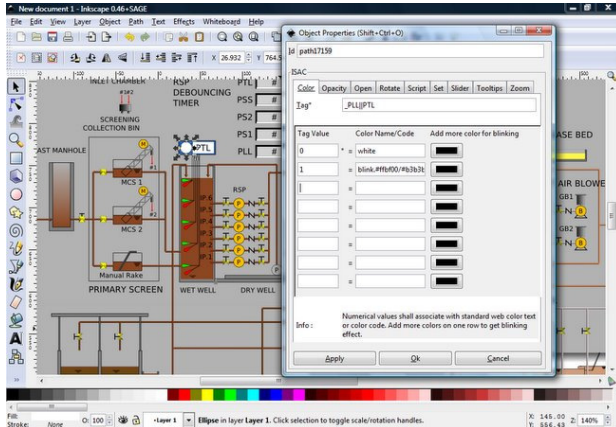
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1. PLANNED SCADA REPORTING SYSTEM

Overview:

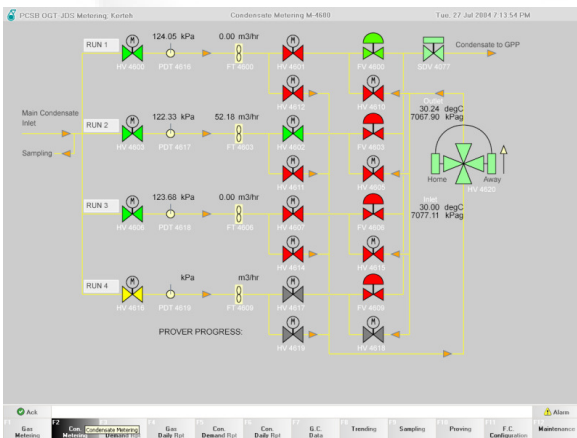
SCADA or Supervisory Control and Data Acquisition, generally refers to industrial control systems. Although there are many companies that manufacture components or complete systems, there is no one

absolute definition for the system. In most applications, the SCADA devices are used to provide supervisory oversight. Historically, this meant that the supervisor could review (historically) statistics or indicators that led up to or were leading up to an event. In recent years, DCS or Distributed Control Systems made an effort to supplant SCADA but the underlying capabilities of SCADA



supplemented by low latency and greater bandwidth has resulted in a narrowing of the discrepancies between them and now there is little room for argument as to which accomplishes the most.

These diagrams on this and the following pages depict a SCADA system that is used to monitor and respond to an error state in a flow control system. The screen shots show iconic representations of valves, relays, switches and sensors. Different colors are used to identify the current status of the given device and a knowledgeable operator can infer certain conditions based on the display state.



The Changing Face of SCADA:

For years, SCADA only reported on what had happened and it required a very capable operator to pull all the pieces together to identify trends leading to significant events before they actually occurred.



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Now, high bandwidth, predictive algorithms and highly trained operators allow us to identify trends in the functioning of devices that clearly indicate potential

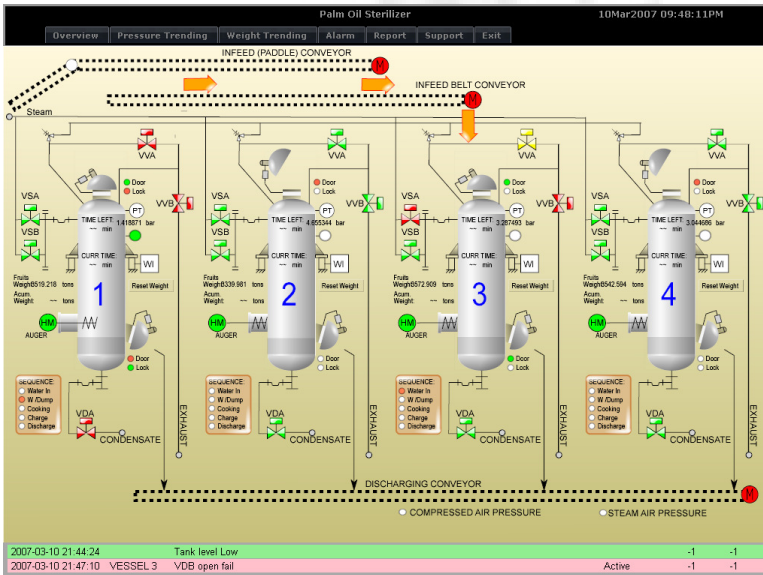
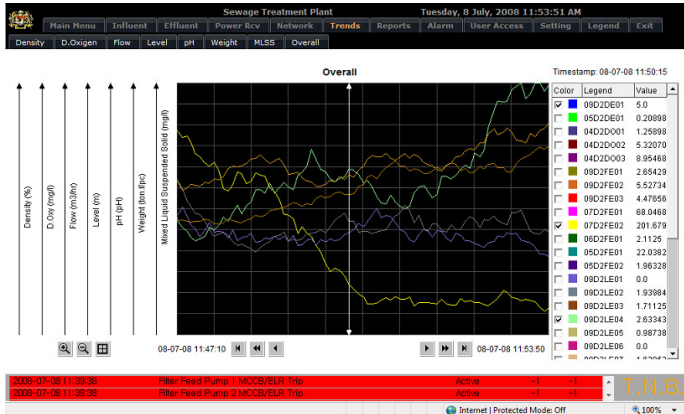
failure or aberrant behavior in the making. By streaming data across high speed internet and processing all "outside the norm" signals, we are able to map out and predict failures well in advance of their actual occurrence. Billions of instances of sensor reporting can be quickly analyzed and non-conforming data segments (error signals) can be grouped and analyzed together to

help pinpoint potential aberrant behavior thereby reducing or eliminating component failure.

Using Real Time Data to Create Predictive Systems:

Using technology developed in the late 80s and early 90s called expert systems; we developed highly accurate predictive models for all the devices used in monitoring the construction and operation of the pipeline. Expert systems, by design have unique characteristics. They duplicate the methodologies used by human experts in their analysis and decision making processes to arrive at a thorough and comprehensive picture of the

incoming data. They also learn from the daily, ongoing, process of data analysis. As the system decides what the data means, retrospective review of the data compared with the actual outcome gives more information which permits the system to make better informed decisions with each new opportunity. This allows Phenix to preemptively repair or replace





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Time	Equipment Tag	Message	State	Ack	Value	Limit
2009-07-18 10:38:49	1402PLC1	Device 1402PLC1 Failed To Response	Active	-	-	-
2009-07-08 10:38:49	0902PLC1	Device 0902PLC1 Failed To Response	Active	-	-	-
2009-07-08 10:38:49	0902PLC2	Device 0902PLC2 Failed To Response	Active	-	-	-
2009-06-24 12:10:52	MS_004_2	4. Backwashing Drainage Pump 2 THR Trip	Active	Ack	-	-
2009-06-24 12:10:48	MS_001_1	5. Filter Feed Pump 1 THR Trip	Active	-	-	-
2009-06-24 12:10:45	M4_001_2	6. Clarifier Sludge Collector 2 MCCB/ELR Trip	Active	-	-	-
2009-06-24 12:10:46	MS_010_1	7. Automatic Bar Screen THR Trip	Active	-	-	-
2009-06-24 12:10:46	1202LS03_HH	8. Oil Holding Tank Level High	Active	-	-	-
2009-06-24 12:10:45	MS_004_2	9. Backwashing Drain 2009-06-24 12:10:46 021 Trip	Active	-	-	-
2009-06-24 12:10:45	MS_004_1	10. Backwashing Drainage Pump 1 MCCB/ELR Trip	Active	-	-	-
2009-06-24 12:10:45	M4_000_1	11. Waste Sludge Pump 1 THR Trip	Active	-	-	-
2009-06-24 12:10:45	PSFuniv_MCCB	12. Return Sludge Pump Inverter MCCB/ELR Trip	Active	-	-	-
2009-06-24 12:10:45	M4_002_2	13. Return Sludge Pump 2 Emergency Stop	Active	-	-	-
2009-06-24 12:10:45	M4_001_1	14. Clarifier Sludge Collector 1 THR Trip	Active	-	-	-
2009-06-24 12:10:45	MS_007_2	15. Aeration Tank Blower 2 Anac-Transformer Thermostat Operated	Active	-	-	-
2009-06-24 12:10:45	MS_007_2	16. Aeration Tank Blower 2 MCCB/ELR Trip	Active	-	-	-
2009-06-24 12:10:45	MS_007_1	17. Aeration Tank Blower 1 Lack of Cooling Water (A/T)	Active	-	-	-
2009-06-24 12:10:45	MS_009_3	18. Circulation Pump 3 MCCB/ELR Trip	Active	-	-	-
2009-06-24 12:10:45	MS_003_5	19. Anodic Tank Mixer 5 Oil Seal Leakage Fault	Active	-	-	-
2009-06-24 12:10:45	MS_003_5	20. Anodic Tank Mixer 5 MCCB/ELR Trip	Active	-	-	-
2009-06-24 12:10:45	MS_003_6	21. Anodic Tank Mixer 6 Thermal Switch Operated	Active	-	-	-
2009-06-24 12:10:45	MS_003_5	22. Anodic Tank Mixer 5 THR Trip	Active	-	-	-
2009-06-24 12:10:45	MS_003_4	23. Anodic Tank Mixer 4 Thermal Switch Operated	Active	-	-	-
2009-06-24 12:10:45	MS_003_3	24. Anodic Tank Mixer 3 MCCB/ELR Trip	Active	-	-	-

potentially failing components. The key to delivering preemptive response and intervention is dependent on real time delivery of data from all reporting points to the data center and simultaneous sorting of data streams to identify, tag and forward any statistics that fall outside the defined parameters. In addition, some instances may

require cascading errors that, on their own, do not constitute potential failure but linked to others within parameter statistics, indicate a problem in the making.

Because computers and software can analyze data at many times the rate that human brains can, we tend to rely on complex sorting algorithms to provide the first acknowledgement layer. At that point, data is simultaneously reviewed by another layer of software analysis and examined by a trained operator. Either can overrule the other in favor of passing the data up to a higher incident level but neither alone can quash the error report.

How SCADA Developed:

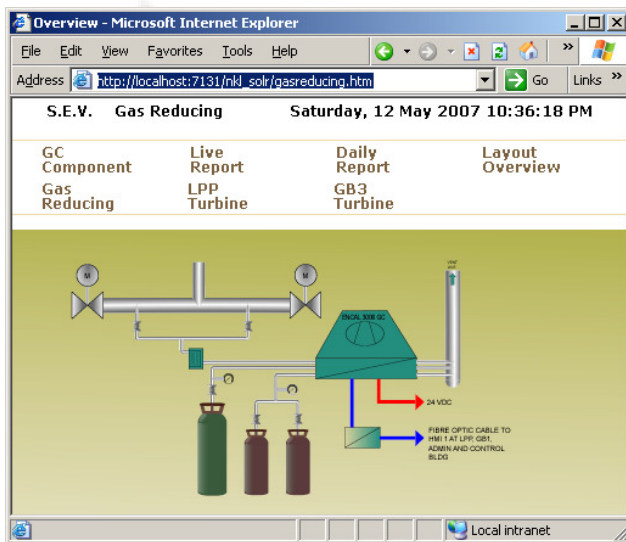
In the distant past, data was gathered during a physical visit to the capture location and hand delivered to the analysis center. With remote telephony and then later satellite pulse transmission, the delay was significantly reduced. In many remote areas, these are still the only available options. It is because of the inherent delays in gathering and analyzing the information that SCADA has earned its reputation as an oversight mechanism and not a preemptive one. Our system combines the latest in sensor devices gathering data in real time and sending it over fiber optic cable to the twin data centers, one at each end of the pipeline. Upon arrival at the data centers, each center performs an independent analysis of the information and determines whether it



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requires any further examination. Each data center uses a different set of algorithms to determine if there is a problem with the system. This allows us to examine the errors from differing viewpoints and reduces the likelihood that a serious situation can slip through the net. Data that is fully within the optimal parameters is archived along with streaming video and audio as well as surveillance and seismographic reporting. Any data that falls outside the programmed tolerances is immediately compared with the same data analyzed by the other data center. If there is no agreement then another sampling is taken to determine if the error was an anomaly or if it portended a trend that required further analysis.



Any escalation is noted and surrounding data is examined to determine if there is cause for intervention. Significant error triggers a series of events including shutting down of pumps, closing of

valves, dispatching of drone aircraft, dispatching of service crew by ground vehicle or helicopter. At the same time, the incident is reported along with the supporting data and analysis to the management office in West Coast Florida. There, follow-up decisions are made to assess the ramifications of the error condition and the level of threat that could exist.

Everything from a failed sensor to a full scale military attack can be identified and reacted to in a matter of minutes of the detection of any error. The purpose is to avert environmental accidents, military or insurgent attacks, routine maintenance failures and sabotage.

Combining Data makes SCADA more Responsive:

Operating in parallel are other services that further facilitate prompt reporting and response. The entire pipeline route is serviced by a proprietary Wi-Fi

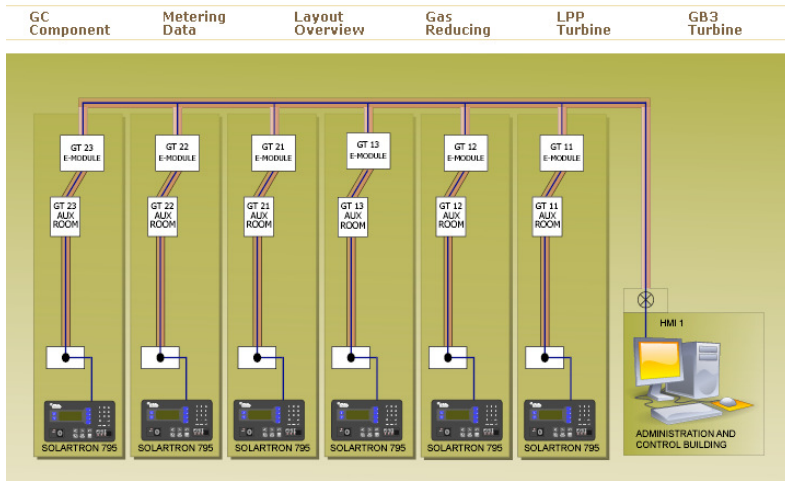


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network that permits computer access to the Phenix data network as well as VOIP communications using specially designed cell phones.

A singularly important aspect of this system is that the entire process from Caribbean Sea Deepwater Port across the coastal plain, the mountain backbone, the Pacific coast and the Pacific Ocean Deepwater port can be managed remotely by a very small crew of operators from their consoles in Florida. This minimalist approach permits Phenix to operate very economically which is reflected in the low



cost to the oil consuming companies.

Further, it benefits Phenix Energy Group by reducing its cost of operation on an ongoing basis while providing the highest level of response and service available in the oil pipeline business today.

Summary:

Phenix Energy Group is dedicated to delivering the highest level of customer service available in the industry while maintaining strict security, the highest quality of environmental protection, responsiveness and support for both the local communities and for the host country.

For further information about the technical capabilities of Phenix Energy Group, Incorporated, contact us through our website at www.phenixgrp.com.