



FREEDOMTM
SMART MANUFACTURING PLATFORM

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Ready for the Rebound: Energy industry manufacturer transforms shop floor with Freedom IoT platform

In an ultra-competitive Oil & Gas industry, equipment provider weathers all business climates by minimizing waste and optimizing operations with shop-floor management software from 5ME.

NOVEMBER 2016 – A major provider of equipment and services for the energy industry is prepared for market competition and postured for rapid expansion with installation of the Freedom IoT platform on more than 100 machine assets in a strategic facility. Requesting anonymity for competitive reasons, the Texas-based company is a leading provider of subsea systems and services to the oil and gas industry. It helps exploration and production (E&P) customers overcome difficult challenges with onshore and offshore drilling, completion and production technologies. The company already plans to expand the Freedom platform in its global operations.

According to the facility's plant manager, "Oil & Gas is pretty turbulent these days and investment in the Freedom software allows us to tighten up the ship now, and puts us in position to increase production with rebounding customer demand. We're identifying waste, optimizing machine usage and staying competitive regardless of business climate."

5ME's Freedom software focuses on manufacturing efficiency that integrates seamlessly with shop-floor assets to provide full transparency into manufacturing processes. These include asset utilization, performance, quality and OEE, as well as machine health, process health, and energy consumption. Recognizing patterns and trends allows the team to manage equipment operations, and increase productivity and profitability.

"We did an extensive evaluation to show Freedom's comprehensive data sets and reporting and how that information could be used to maximize operations," said Pete Tecos, Vice President of 5ME. "They are now fully utilizing the SmartBoardsTM and e\$CORETM features to monitor and monetize machine operation, and help 'insulate' operations from business spikes and dips. Our software also has the required flexibility they need to connect their different business systems."

Freedom IoT is cloud-based software used by manufacturers ranging from small shops to global enterprises and it can connect seamlessly with ERP, MES, maintenance and quality

business systems. The generated data can be accessed anytime via any device with a browser. The software continues the Freedom eLOG tradition of providing real-time monitoring and analysis, machine diagnostics, and a comprehensive array of manufacturing metrics.

For more information on 5ME's Freedom IoT platform, go to <http://freedom-iot.com>.

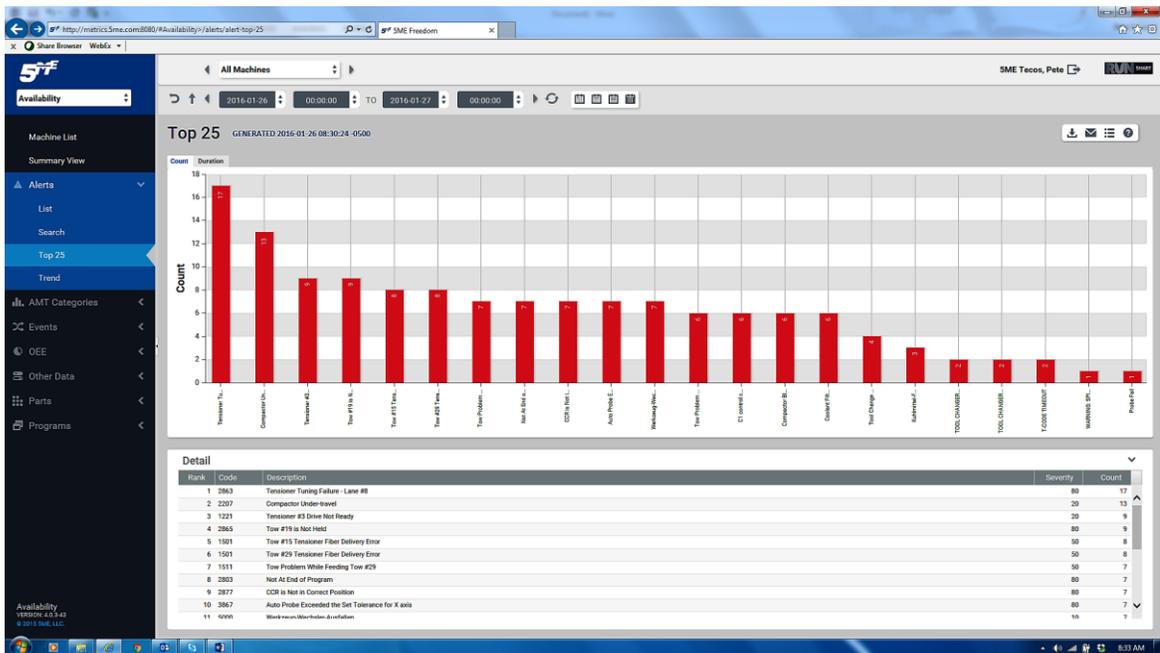
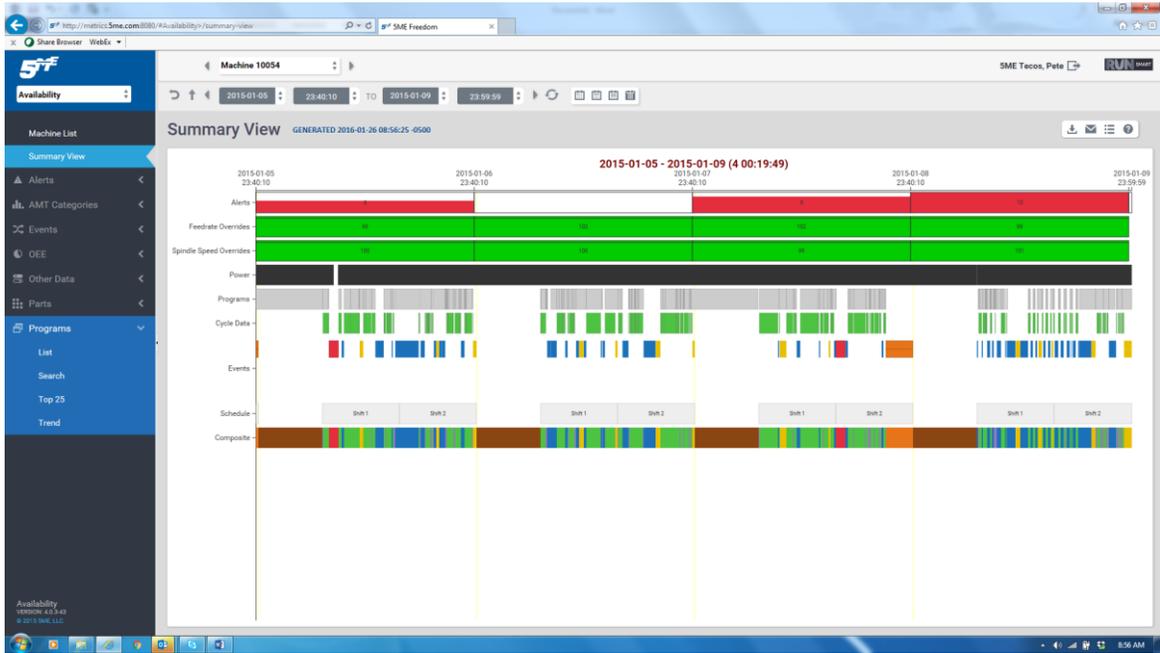
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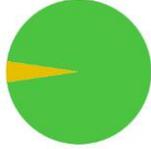
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MU-8000V



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Cap. Pts.	Max. Machining Volume	59.77' Dia x 33.47' High
	X, Y, Z Travel (in)	36.4" x 48.83" x 23.62"
	Z, G Travel (mm)	+400 to -139, 500
Spindle	Table Size	33.6" x 24.4" rectangular
	Max. Weight on Table (lbs.)	1343
	Spindle Horse to Power	48P - 33.3
Tools	SPC	Prep. Apts. an Option (Max part Dia. is restricted)
	Spindle Speed (RPM)	50-10,000
	Spindle Connection	HSK-A100
	Max. Horsepower	35
	Max. Storage in Slot	130
ATC	Capacity	44 Magazines
	Max. Tool Length	33.75
Feed	Feed Change Time (T/C) (C)	5.4/3.1
	Rapid Traverse (V)/D/W/A/U/D	1500ipm / 6-39.5C-38 ipm (300 with Max. 8 ipm)
	Coolant, (C/P)	Auto for C/2-coolant
Max. Chk. (in)	140"	

Machine Utilization (Last 24 Hrs)	
Cycle Utilization	91.35%
Equipment Utilization	96.50%
Potential Utilization	100.00%

