

PTS-SLiM Announcements – As of April, 2010

(April 2010): Case Studies for Benefit of SLiM device in Asset Utilization

A series of recently performed case studies indicate a significant increase in ampacity, hence much higher asset utilization, for sag-limited current lines with the use of the SLiM device. According to PTS' VP of Business Development, Reza Jannatpour, *"This proves that the SLiM device can significantly increase power flow of existing transmission lines to meet demand during hot and calm days when needed the most."*

Conductor	Span Length (ft)	SLiM ROM (in)	Sag Rdc'tn (%)	Ampacity Increase (%)
Drake	750	8"	46%	228%
Drake	1000	8"	37%	82%
Drake	1250	8"	29%	47%
Rook	1000	6"	50%	157%

Case studies considering: Anchor towers; Initial tension of 4500lbs (Drake) and 3500lbs (Rook) at 40F; Max conductor temp of 100C; High ambient temp/ solar and 2ft/sec wind; Range of Motion (ROM); Ampacity limited due to excess sag that SLiM device can remove

(March 2010): SDG&E Letter for SLiM Device

San Diego Gas and Electric (SDG&E) in a letter announced the *"successful completion of SDG&E evaluation/ demonstration of the sagging line mitigator (SLiM) device"* calling it *"a simple device that has the potential for improving utilization of our transmission assets, and possibly allowing us to integrate new renewable energy resources more easily."* SDG&E also stated their interest in SLiM *"once they are developed on full scale commercial basis."*

(2009): SLiM Economics Compared Favorably to other Solutions

In a recent FERC-sponsored research paper, Professor Ross Baldick of the University of Texas's Department of Electrical Engineering presented results from evaluating the cost of various technologies to increase transmission transfer capabilities. The paper creates an "apples-to-apples" economic comparison by producing results on a \$/MW-mile basis. Although the study considered smaller ampacity increase (15%) from the device than can be expected, it showed that SLiM compares very favorably and in many situations is the most economic solution. According to Roger Gray, PTS CEO, SLiM is intended as a direct competitor of traditional approaches for lines which have sag limitations during hot days. *"If a utility needs a lot more capacity (say 100% or more) at all times, it would probably make sense to go with a larger investment such as a new line or reconductoring with an advanced low-sag conductor such as ACCC."* However, he continued, *"if the need is for a capacity increase during peak hours of operation, the SLiM device provides a more economic solution without paying for the capacity you don't need."* Additionally, SLiM can be installed easily and quickly using a relatively simple maintenance-like activity.

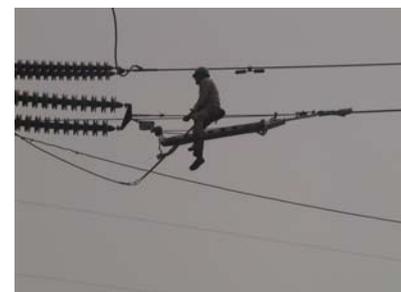
(Nov. 2008): Eskom/TAP Completes First Phase of SLiM Evaluation

Advanced AC Systems of Trans Africa Projects on behalf of Eskom has completed 1st phase of laboratory testing of the SLiM device and is planning to start their 2nd phase of evaluation activities. According to TAP's test leader, Kevin Lussi, *"Phase 2 will hopefully be field testing of the device on a critical span of a heavily loaded 132kV line. It will be monitored, with automated data capture."* PTS has communicated their full support for the testing and is providing Eskom with additional technical and financial and costing information for their future commercial consideration.



(2007): Sichuan Electric Power Company (SEPC) Installs SLiM on a 220kV Line

SEPC purchased a standard SLiM device and installed it on a 220kV line in Sichuan in 2007. The installation was completed without a hitch in about half a day using mainly manual methods. SEPC's plans are to *"monitor and evaluate the performance and reliability of the SLiM device over a long period (multiple years) before making commercial decisions on large scale field implementation."* The device is being intermittently monitored by SEPC crew for its condition.



(2006): PTS Establishes SLiM Field Trial with Eskom/TAP

PTS and Eskom/TAP are establishing another SLiM field trial in the TAP 132kV system. PTS CEO, Roger Gray, said, *“this is a great opportunity for PTS to further prove the capabilities of the SLiM device and PTS welcomes the opportunity to work with Eskom/TAP because they are known as a leader in evaluating and deploying transmission technologies like SLiM.”*

(2006): PTS Announces First International Sale of SLiM to Eskom/TAP

PTS made its first international sale of the SLiM device recently to Trans Africa Project on behalf of Eskom. TAP is a joint venture between Fluor Daniel and Eskom-South Africa, one of the largest utilities in the world. Eskom/TAP purchased a custom-made SLiM device to deploy in its transmission system. This custom SLiM device purchase is in addition to the SLiM device that Eskom/TAP is planning to test in its 132kV system. PTS believes that its standard SLiM device (the one used in the TAP field trial) will continue to prove the viability of SLiM device for use with 115 to 230kV class systems and that the custom SLiM, which is a lighter-duty version of the standard SLiM, will prove the application of the SLiM device in lower transmission voltages. Roger Gray, CEO of PTS mentioned that *“in addition to domestic marketing of SLiM, PTS is actively exploring additional sales to Eskom/TAP as well as to other utilities around the world.”*

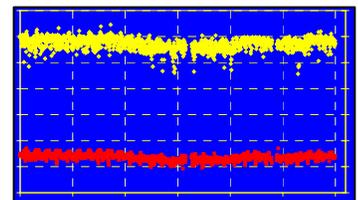


(2006): PTS is formed to Commercialize its First Product - SLiM

Power Transmission Solutions, Inc. is officially launched as a C-Corp with the mission to *“Identify high-pain problems in the electric transmission industry, create high-return and IP-protected solutions/products, & market and sell to the industry worldwide.”* PTS first objective is to commercialize a new product to combat transmission lines excess sag (developed by MIS) as its first product. During the PTS’ inauguration, its CEO, Roger Gray, said *“commercialization of a new product for the utility/transmission industry is a long process which needs to start with a utility-acceptance phase.”* Concurrently, PTS will be identifying and developing future products for the electric transmission industry.

(Dec. 2005): SLiM Successfully Completes Field Trials

After about 5 years of research, design, development, and testing by Material Integrity Solutions (MIS), in December 2005, field demonstration of a SLiM device placed into SDG&E’s 69kV system was successfully completed. The overall development of SLiM and this field trial was the result of collaborative research efforts sponsored by the California Energy Commission, the Electric Power Research Institute as well as several utilities including SDG&E, PG&E, PNM, BCH, SCE, and others. The field trial started in May 2004 after a *“straightforward installation,”* according to SDG&E line personnel. SLiM’s flawless, incident free and maintenance free performance over the 18 month field demonstration followed exactly design specifications. At the end of this trial, the SLiM device was removed for further rigorous material testing and evaluations by PTS, which confirmed that SLiM maintained full functionality and material integrity. SLiM inventor, MIS’ CEO, and PTS’ CTO, Manuchehr Shirmohamadi, said: *“this important field trial proves that SLiM can safely and effectively work in a utility environment to mitigate line sag thus providing for additional reliability and increasing transmission line capacity.”*



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