

Overview of IEEE Std. 3006.7-2013 Recommended Practice for Determining the Reliability of "7 x 24" Continuous Power Systems

Speaker Robert Schuerger, PE, Harris Corporation

Wed November 2nd, 2016 at 6:30 pm

Location: California Lutheran University, Gilbert Sports and Fitness Center

Meetings are free and open to the public

RSVP at [this link](#)

Reliability engineering is a very effective tool for data center assessment, upgrading existing facilities and in evaluating new designs. In the data center/critical facility world, much has been written about reliability, but only a small amount of it could really be considered "engineering."

IEEE Std. 3006.7-2013 Recommended Practice for the Determining the Reliability of "7 x 24" Continuous Power Systems in Industrial and Commercial Facilities has been created to provide real reliability engineering solutions for powering and cooling of critical solutions.

The overview will:

1. Review the basic concepts and terminology of reliability engineering
2. Provide an overview of the draft standard
3. Present typical designs and show reliability analysis for:
 - a. Critical electrical distribution systems
 - b. Critical mechanical cooling systems
 - c. Electrical power for the mechanical system

The origin of IEEE Std. 3006.7 – 2013 was Chapter 8, "7 x 24" Continuous Power Systems, of the IEEE Gold Book, Std. 493-2007 Recommended Practice for Design of Reliable Industrial and Commercial Power Systems. With the reorganization of the whole IEEE Color Book series, what was chapter 8 is now a standalone standard. It has also been greatly expanded.

Robert Schuerger, PE



Robert Schuerger is a Senior Member of the IEEE and has been an officer for the LA Metro Section of the IAS multiple times. He was the Chair and primary author for Chapter 8 of IEEE Gold Book and the Chair of IEEE Std. 3006.7 – 2013. He was also the Chapter 4 Chair for the IEEE Emerald Book, Std. 1100-2005 Recommended Practice for Powering and Grounding Electronic Equipment and the Chair for Standard 3007.2 – 2010 Recommended Practice for Maintenance of Industrial and Commercial Power Systems.

Robert Schuerger received the BSEE degree from the University of Akron, in Ohio. He is a registered Professional

Engineer in multiple states and has over 35 years of experience in power engineering, specializing in electrical testing and maintenance, power quality and the design, commissioning and reliability analysis of mission critical facilities.

In 2015 he joined Harris Corporation as the Power Cognizant Development Engineer for NASA's Deep Space Network (DSN). The DSN consists of three sites, Goldstone Deep Space Communication Complex on Fort Irwin north of Barstow, CA. Canberra Deep Space Communication Complex, Australia and Madrid Deep Space Communication Complex, Spain.

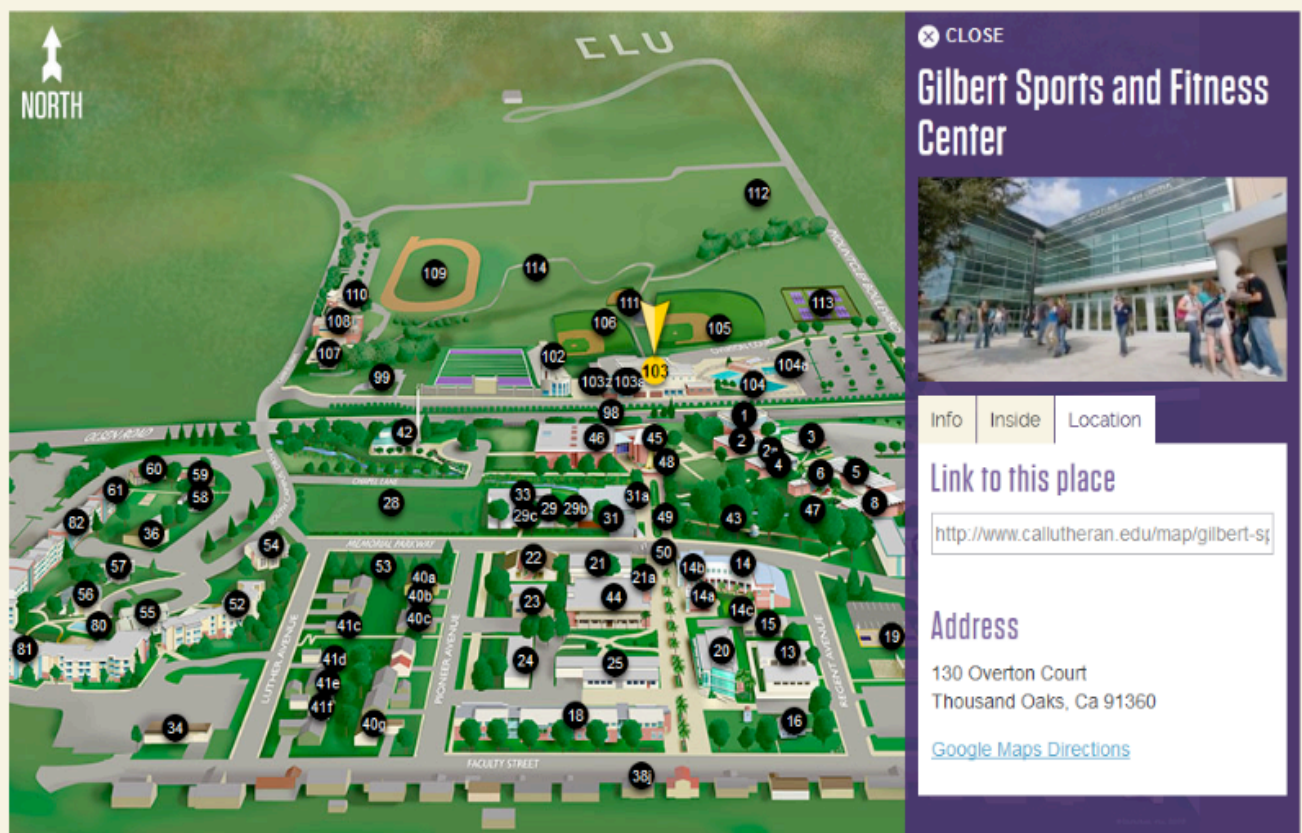
Location: : California Lutheran University
Gilbert Sports and Fitness Center, 2nd floor, Rooms 253/254.
130 Overton Court, Thousand Oaks, CA 91360.
Pizza/networking starts at 6:30 pm
Talk starts at 7:00 pm

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California Lutheran University
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You might have to enter through the west lobby after 6 PM ([Map](#))

There is an adjacent large parking with no permit required.

You can also park in the G lot on the southwest corner of Olsen and MountClef and walk to the Gilbert Sports and Fitness Center ([Map](#)).



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