ECOM Engineering Inc.
ELECTRICAL & TELECOMMUNICATIONS ENGINEERING

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E-News

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Project Spotlights: Fortune Data Center and Adobe Greenfield Data Center

Dave Smith, Principal

ECOM Engineering, Inc. has entered the “Silicon Forest”! ECOM will serve as the Owner’s Engineering Representative and will perform peer review, construction administration and project management for the Fortune Data Center’s Oregon-1 Data Center in Hillsboro. The project includes 8 MVA of critical Data Center load with an ultimate capacity of 28 MVA. The facility is scheduled to be commissioned in March of 2012.

ECOM has also been selected as the Owner’s Electrical Engineering representative to perform peer review services for the new Adobe Greenfield Data Center DC-1 that is currently under design and will start construction in March 2012. The Adobe DC-1 project includes 8 MVA of critical data center load.

Hillsboro is a hotbed….

Hillsboro Oregon is a hotbed of high tech construction activity that currently boasts one of the largest private construction projects in the United States. The 3 billion dollar Intel Fab Dx1 project is currently being constructed as an expansion to the existing Intel Hillsboro facility. With Oregon’s developer friendly enterprise zone and zero state tax, this is a market to watch for continued high tech expansion.

Mark Schlenker, Principal

Technology Corner:

ELECTRICAL SAFETY IN HEALTH CARE FACILITIES - WET PROCEDURE LOCATIONS

The 2010 California Building Code defines a wet procedure location as “those spaces within patient care areas where a procedure is performed and that are normally subject to wet conditions while patients are present. These include standing fluids on the floor or drenching of the work area, either of which condition is in close proximity to the patient or staff. Routine housekeeping procedures and incidental spillage of liquids do not define a wet location”.

Article 517.20 allows two methods for the protection of patients and staff in these areas. Method one is the use of ground fault circuit interrupters where the interruption of power under fault conditions can be tolerated or method two, be served by an Isolated Power System. An operating room is one such area where the interruption of power cannot be tolerated.

In the past when flammable anesthetics were employed, it was required to install wiring within these rooms with isolated power systems. Because hospitals no longer use these types of gasses, it was assumed that these types of systems were no longer required. While many operating rooms may not perform procedures that classify the area as a wet or flammable location, those that do will require the additional safety provided by an isolation power system. It is important early in the design process to identify the proposed usage of the room.

eNology University:

ECOM hosted its 4th “eNology Seminar” on October 5th regarding **Distributed Antenna Systems “DAS”.** The course discussed design and performance of cellular enabled devices for voice/data and Fire/Life/Safety (FLS). Also discussed, were the advantages and disadvantages of putting Wi-Fi and WMTS on the DAS and how a DAS System can solve in-building cellular issues. For more information please contact “Pat Kirby” at 916 641-5600.

ECOM Staff News:

Marc Riggs, Auxiliary System

Marc brings over 20 years of Low Voltage experience to ECOM Engineering including; Engineering & Design, System Installation, Project Management, Estimating, Project/ System Documentation, Testing and Certification. Marc has an extensive background in Fire Alarm, Access Control Systems, Intrusion Systems, CCTV and the Integration of multiple systems in Enterprise level applications.

Glenn Shojinaga, Project Manager

Glenn has been a Project Manager for the last 30 years. He has extensive experience in site investigation, design development, construction documents, and construction support of projects. His experiences include new and remodel projects with designs in lighting, power, emergency power distribution, signal, and fire alarm systems.