



Wednesday, September 22, 2004
8:00 AM– 12:00 Noon

(11) PORTABLE POWER FOR TELECOMMUNICATIONS

Tutorial Description

This tutorial will provide insight into the engineering rationale behind portable power solutions. In today's rapidly changing environment, there is a need for portable power solutions. With today's available technology, there is a real drive to provide economical, unique power solutions in DC power plants and batteries. These solutions will address space, capacity, and size considerations for the container, AC service entrance, DC plant, and associated batteries.

There are four viable solutions to providing portable power and each of these solutions will be discussed in this presentation. From smallest to most complex, the four solutions are:

- 1) A single "short" bay temporary power plant;
- 2) A permanent, distributed architecture power bay¹;
- 3) A "container" to be positioned outside a site; and
- 4) A full DC plant located in a trailer for temporary or emergency use.

This presentation will discuss two aspects of each of the above solutions. The first aspect is the application and the second aspect will address design and sizing.

Tutorial Level and Benefits

This is an intermediate level course and is a tutorial on the design of a power plant from the AC service entrance through the rectifier plant and batteries to the distribution.

About the Presenter

Mr. Jimmy Godby is President of Telecom Power Consultants, a consulting firm and holds a BS degree in Electronics Engineering Technology. He interfaces between the Regional Bell Operating Companies (RBOC) and power equipment manufacturers to define customer requirements to the manufacturer and equipment realities to the RBOC.

Prior to his current position, Mr. Godby worked in various positions in the old Bell System. He completed his career as the headquarters Power Staff Maintenance Engineer for U S WEST where he wrote Tech PUBs, investigated outages and unusual situations, and was an active member of T1E1 and IEEE standards groups.