



International Northern Latin America

Client

Telecarrier

Location

Panama City, Panama



*Computer Rendering of Network
Operating Center*

Electrical and Security Systems Design for Telecarrier's Data Center

Project Description

Paramount to the success of a data center, or any critical environment, are the reliability, durability, and hardness of the electrical and security systems. The innovation design solutions provided by CH2M HILL IDC for these systems were not only cost effective, but provide for the anticipated future facility expansion and the challenges of changing technology.

An innovative air circulation system locates the recirculation fans on the first floor with cool air supplied into a plenum below the second floor data room. The cool air circulates to the electronic equipment through the perforated floor tiles of the raised access floor system. The air rises as it is warmed and is returned through ducts above the suspended ceiling to chases located at the perimeter of the building.

The first floor houses the electrical rooms, mechanical equipment, employee areas, offices, shipping, and receiving, while the second floor accommodates the network operations center, communication room, meet-me room, secure suites, and co-location area. The facility also utilizes state-of-the-art egress, security, and intrusion control devices.

The two story, 80,000 SF data center was designed to respond to the vernacular of Central American buildings. Clay roof tile and projected eaves provide a local flavor to the concrete data vault.

Building Statistics:

- 30,000 SF
- Concrete Exterior Wall and Structure

Program Requirements:

- Critical Electrical Systems Redundancy
- Security
- Future Expansion

Functional Areas:

- Co-location Floor
- Secure Suites
- Lease Labs
- Networking Operational Center
- Communication Room
- Meet-Me Room
- Offices



- HVAC and Electrical Systems

