



CASE STUDY

The submarine cable industry is experiencing high growth with 93,000 miles of cable to be laid by year end, which is more than the last five years combined. Because most intercontinental Internet traffic travels by submarine cables, organizations depend on them for instant connectivity to people, locations, clouds and data worldwide. To gain more access, cable landing stations (CLS) are increasingly popping up all over the globe.

CABLE LANDING STATION

With their proven experience in the global submarine fiber optic cable industry, American Manufactured Systems and Services (AMSS) got the call to oversee permits, design and installation of two new cable landing stations in Newfoundland. As their strategic partner for modular mechanical enclosures, AMSS worked directly with Whitley Manufacturing to build and test the structure in Leola, Pennsylvania.

Some of the key challenges were the shoreline location and its harsh, caustic environment. The inside temperature would need to be well regulated with redundant HVAC systems. Because of the rugged, remote location, getting material and equipment on site would be limited. So, building and testing as much off-site as possible was vital.

To address these issues, Whitley Manufacturing provided the following:

- A coastal corrosion package, including stainless steel doors and hardware
- 4" reinforced concrete floor
- Only non-combustible materials in construction were used
- Fiber Cement or Exposed Aggregate siding for strength & durability
- Wall mounted HVAC equipment
- FRP wall & ceiling panels
- A complete back-up generator system was installed at the factory in Leola and performance tested

Once the modules arrived on site, AMSS was able to have everything in place and functioning within seven days.

KEY ACHIEVEMENTS

Built to withstand harsh environment of the shoreline

Clean agent fire suppression system installed

Back up generator installed and tested in the Whitley factory

Steel wall/roof framing and 4" concrete floors for high strength

Wall mounted HVAC equipment

Closed cell polyurethane insulation

