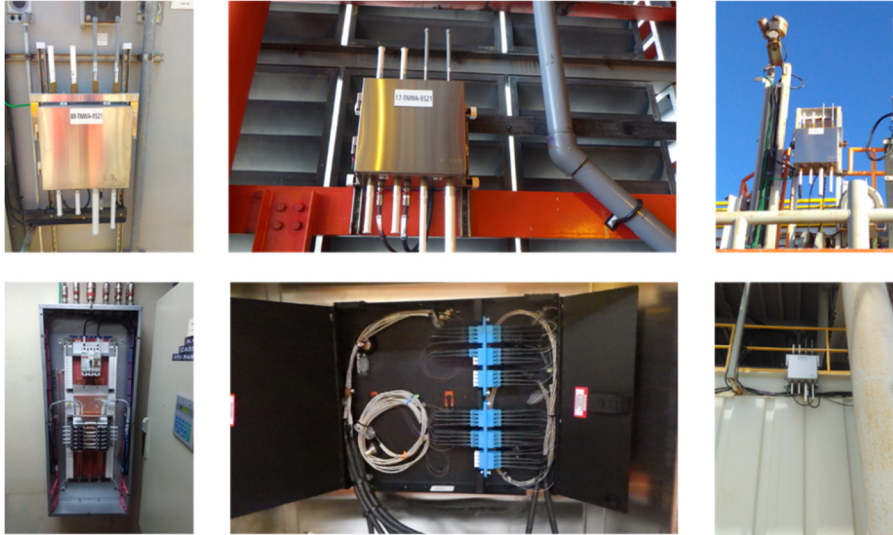


Team Success Story



Images showing new equipment installed during the Industrial Wi-Fi project.
Top Row (L-R): Juniper Access Point, Amherstia Access Point (Production Deck), Angelin Access Point
Bottom Row (L-R): Cassia B Termination of Power Cables, Amherstia Fiber Optic Splice connected in Junction Box (Production Deck), Kapok Access Point

Industrial Wi-Fi Project

Project Highlights:

- Output exceeded client expectations; cost savings of USD 66,359.47
- Massy Wood and BPTT personnel incorporated Agile ways of working to achieve project within given timeline

Project Overview:

BP Upstream has an aggressive agenda to roll out technologies to support its Modernisation and Transformation (M&T) agenda. One application / tool planned for deployment is Operator Workbench (OWB) using handheld electronic communications (eCOM) devices. This project involved engineering design to deploy industrial Wi-Fi across bpTT field / operating sites to support the OWB under the M&T agenda, as well as other current and future initiatives needing connectivity across production assets.

Industrial Wi-Fi will:

- deliver wireless infrastructure outdoors along with network gear such as routers, switches and device controllers in the communications rooms of each asset which, in turn, will integrate with the offshore network.
- enable operational tools and wireless instrumentation across BPTT facilities.

Team Kudos:

The following members of the Massy Wood engineering and construction teams were instrumental in achieving this success. Special commendations are extended to:

- | | |
|-----------------------------|------------------|
| • Rhonda Ramsaran | • Sarmad Yaseen |
| • Damien Thomas | • Jayanta Saha |
| • Mark Mohammed | • Jean Odriozola |
| • Provindranath Esareesingh | • Juan Hernandez |
| • Keron Richardson | • Brandon Kailah |
| • Anitra Birbal | • Larissa Chong |
| • Kavida Reyes | • Kavan Ramnath |
| • Imran Hosein | • Adrian Balraj |

Customer:

- BP Trinidad & Tobago LLC

Location:

- Selected BPTT offshore facilities and Terminal onshore facility

Project scope:

- Installation of Industrial Wi-Fi on all bpTT assets

Project duration:

- 4 weeks

Nature of project:

- Completion of Industrial Wi-Fi engineering design inclusive of:
 - Performing site visits on all applicable assets
 - Developing engineering design per asset
 - Specifying and procuring all relevant materials and equipment
 - Executing construction on all applicable assets

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