

EXHIBIT 1. SUMMUM PROJECTS EXPERIENCE AND QUALIFICATIONS

Lazaro Cardenas Refinery - Fluid Catalytic Cracking (FCC) Unit 1 Upgrade
Minatitlan, Veracruz, Mexico

Sector of activity:
Downstream - Refinery

Client:
PEMEX – Petroleos Mexicanos

Year of completion:
2016



Mandate:
SUMMUM (Petrotiger Services de Mexico), Arendal and Hostotipaquillo under a Joint Venture, were awarded by PEMEX for the engineering, procurement, construction scope of work for the Fluid Catalytic Cracking (FCC) Unit 1 Upgrade at the Lazaro Cardenas Refinery.
SUMMUM scope of work includes basic and detail engineering, 3D model, as-built drawings, squad check - vendor deliverables review technical assistance during commissioning and testing.

Description:
Engineering, procurement, construction, precommissioning and commissioning of the fractioning section, vapor recovery, treatment unit to sweet dry gas and LPG with diethanolamine (DEA) and caustics, fines separation for heat recovery from combustion gases and wet gas compressor change, in order to comply with the second and third phase of the Fluid Catalytic Cracking (FCC) Unit 1 Upgrade.

The project included more than 220.100 man-hours for SUMMUM scope of services.

Challenges associated with the project included:

- Accelerated completion to support crude processing;
- Resources availability and constraints;
- Completion of engineering package in a short span of time;
- Procurement of long-lead items;
- Brown field environment posing construction challenges.

Schedule **Start date:** 2013 **Final date:** 2016. On schedule.

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