

## FIRE FIGHTING SYSTEM PUNTA CATALINA



**Sector:** Oil&Gas

**Year:** 2015-2016

**Place:** Punta Catalina, Baní,  
Repubblica Dominicana

**Direct client:** Eusebi Impianti /  
Tecnimont Odebrecht Estrella

**Final client:** Corporación  
Dominicana de Empresas Eléctricas  
Estatales (CDEEE)

### OBJECTIVES

**Punta Catalina project comprises two identical 2×360 MWe Coal Fired Power Plant (CFPP) with a capacity of 2×360 MWe.**

The consortium Tecnimont – Odebrecht – Estrella was the general contractor for the EPC construction of the Coal Fired Power Plant for the final client CDEEE Corporación Dominicana de Empresas Eléctricas Estatales.

Eusebi Impianti was awarded a contract for the complete design, manufacturing, supply, inspection, tests, painting, insulation, packing, assembly, commissioning, start-up, site testing, technical assistance, guaranty and performance guaranty of the fire fighting systems of the Coal Fired Power Plants.

### MAIN ACTIVITIES

Trillini Engineering was in charge of Project Engineering Management and Engineering of the Fire Fighting Systems.

### SOLUTIONS

Especially Trillini Engineering was responsible for the design of the following systems:

- Clean Agent Fire Extinguishing Systems
- CO<sub>2</sub> Fire Extinguishing Systems
- Water Spray Deluge Systems
- Fire Sprinkler Systems

#### **Clean Agent Fire Extinguishing Systems**

The design of no. 22 Clean Agent System (Novec 1230) included the following activities and documentation: piping and instrument diagram, datasheet, general arrangement drawing, hydraulic calculation, isometric drawings, installation and operation manual, bill of material and spare part list, preservation procedure, piping supports design and seismic calculation, inspection and test plan, inspection and test procedure, manufacturing schedule, certification dossier, painting procedure, welding book.

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### **CO2 Fire Extinguishing Systems**

The design of no. 3 CO2 System included the following activities and documentation: piping and instrument diagram, datasheet, general arrangement drawing, hydraulic calculation, isometric drawings, installation and operation manual, bill of material and spare part list, preservation procedure, piping supports design and seismic calculation, inspection and test plan, inspection and test procedure, manufacturing schedule, certification dossier, painting procedure, welding book.

### **Water Spray Deluge Systems**

The design of no. 20 Water Spray Deluge Systems included the following activities and documentation: piping and instrument diagram, datasheet, general arrangement drawing, hydraulic calculation, isometric drawings, installation and operation manual, bill of material and spare part list, preservation procedure, piping supports design and seismic calculation, inspection and test plan, inspection and test procedure, manufacturing schedule, certification dossier, painting procedure, welding book.

### **Fire Sprinkler Systems**

The design of no. 3 Fire Sprinkler Systems included the following activities and documentation: piping and instrument diagram, datasheet, general arrangement drawing, hydraulic calculation, isometric drawings, installation and operation manual, bill of material and spare part list, preservation procedure, piping supports design and seismic calculation, inspection and test plan, inspection and test procedure, manufacturing schedule, certification dossier, painting procedure, welding book.