



**A thorough and effective contribution to our customers...**

Fire Fighting Project Supervision  
& Commissioning s.a.r.l



**FFPS&Com** offers engineering services from conceptual design through commissioning and operation. We are active from the both offices in Tunis and in Milano. We provide full range of services including consulting, engineering and project management by highly qualified world class professionals experienced in large and complex projects. Our goal is to deliver projects on-time, according to international standards and clients specifications.

We provide up-to-date software and new technologies aiming in order to give the best practice. These new technologies affect the efficiency and the accuracy of our schedules and provide the best quality of reports to our clients. Besides these tools, FFPS&COM is counting on the benefits of the team's shared expertise in order to push the innovation envelope to a better state which will maintain our leadership and invent new horizons.

We are particularly active in various fire protection systems: We respond to all our customers fire protection needs from on-site surveys, design, engineering, installation, monitoring service, inspection and maintenance, to the performance tests required in order to assure compliance with NFPA and local codes.

## What We Offer To You:

*Our team is composed of certified-field-service-specialists who work side-by-side on site with our customers during the different steps of the project to ensure to ensure the correct practices and deliver the project in a safe, reliable and operational condition with a complete customer satisfaction.*

### This service includes:

- > Inspection, control and validation of the construction integrity
- > Commissioning activities
- > Site acceptance tests
- > Performance tests
- > Reporting
- > Training
- > Maintenance
- > Management and coordination
- > Technical advising
- > Fire and gas detection



### Field of expertise:

- > Fire control panels and PLC
- > HMI
- > Communication between F&G system with PLC, DCS and SCADA systems
- > Industrial telecommunication systems
- > Fire pump station
- > Water system: deluge system, pre-action system, sprinkler system...
- > Foam system
- > Clean agent fire suppression systems
- > Door fan test (DFT)
- > Concentration test
- > Hydrants and fire monitors
- > Fire extinguishers
- > Working in ATEX and confined areas

## → Engineering service:

### SYSTEM DESIGN

*After a careful analysis and in accordance with the international rules, FFPS&Com fire-skilled engineers work out detailed designs including I&C and electrical and mechanical systems.*

### ADVANCED STUDIES

*We offer a professional analysis, study and conceptual design to find the correct solutions for consulting engineers and end users. FFPS&COM is working on different kinds of projects related to fire-fighting covering these different fields.*

#### ANALYSES:

- > Consulting and advising
- > Fire protection risk analysis

#### MECHANICS and I&C :

- > Piping and instrumentation diagram (P&ID).
- > Drawing for equipment positioning and piping (Lay-out).
- > Detail and construction drawing.
- > Piping isometric drawing (Sketch).
- > Support collection.
- > Line list.



- > Hydraulic calculation for pipe sizing and verification, using the latest software (PIPENET, HYDRONICS).
- > Material list, in according to customer standards.
- > Mechanical design of tanks according to international codes
- > Data sheets for special equipment.
- > Installation manual.
- > Commissioning manual.
- > Maintenance manual.
- > Mechanical Structural Calculation (skid, supports, etc...).



### **ELECTRICAL:**

- > Flow and instrument (P&ID)
- > Wiring diagram
- > Block diagram.
- > Interconnection diagram.



### **SITE ENGINEERING:**

- > Fabrication drawings.
- > Work packs preparation & material tracking.
- > Drawings mark-ups for as built.



### **USED CODES:**

*Plants and equipment designed in accordance to the following codes:*

- > NFPA (National Fire Protection Association, USA)
- > UNI-EN (Italian Standardisation Organisation)
- > (European Standardisation)
- > FM (Factory Mutual)
- > ISO (International Standardisation Organisation)



### **BASIC DESIGN:**

- > Fire-fighting System Simulation.
- > Fire-fighting Equipment Sizing.
- > Fire-fighting Equipment specifications.
- > Mechanical equipment specifications.
- > Piping design specifications and arrangement drawings.
- > E&I specifications & guide drawings.



### **DETAILED DESIGN:**

- > All detailed drawings and data sheets.
- > Piping installation, Isometrics and P&ID.
- > Mechanical design calculations & drawings.
- > E&I calculations & drawings
- > IOM manuals

- > As built drawings
- > Civil specifications & guide drawings



### **CONCEPTUAL DESIGN:**

- > Fire-fighting system dimensioning & Calculations.
- > Fire-fighting skid conception.
- > Structure dimensioning & stress analysis for fire-fighting skid.
- > E&I design philosophies.
- > Mechanical & layout design.
- > Stress analysis (Piping, Structure...).
- > Hydraulic calculation.
- > Tank storage design & calculation.
- > 3D conception.



### **USED SOFTWARE:**

- > AutoCAD 2D/3D
- > Intergraph CAESAR II
- > Intergraph TANK
- > NavisWork 3D
- > Hydronics, hydraulic calculation
- > AVEVA Everything 3D
- > SIMULA ABAQUS
- > Intergraph CADWorx
- > Intergraph PV Elite
- > Microstation
- > PIPENET, hydraulic calculation
- > AVEVA PLANT PDMS
- > SOLIDWORKS
- > CATIA V5



### **USED LANGUAGES:**

*English / Italian / French / Portuguese / Arabic*

### **STAFFING SERVICE:**

*We believe that human resources are the best asset in any company, regardless the business size and industry. We provide the best professionals, backed with solid years of expertise, experience and knowledge, who can integrate solutions for your business needs. We guarantee that we can provide the best match for your staffing requirements for the needed on the field and for the technical offices:*

- > Project managers
- > Electrical engineers
- > Process engineers
- > Welders
- > Electricians
- > I&C engineers
- > Mechanical engineers
- > Piping engineers
- > Pipefitters







#### **FFPS&COM**

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