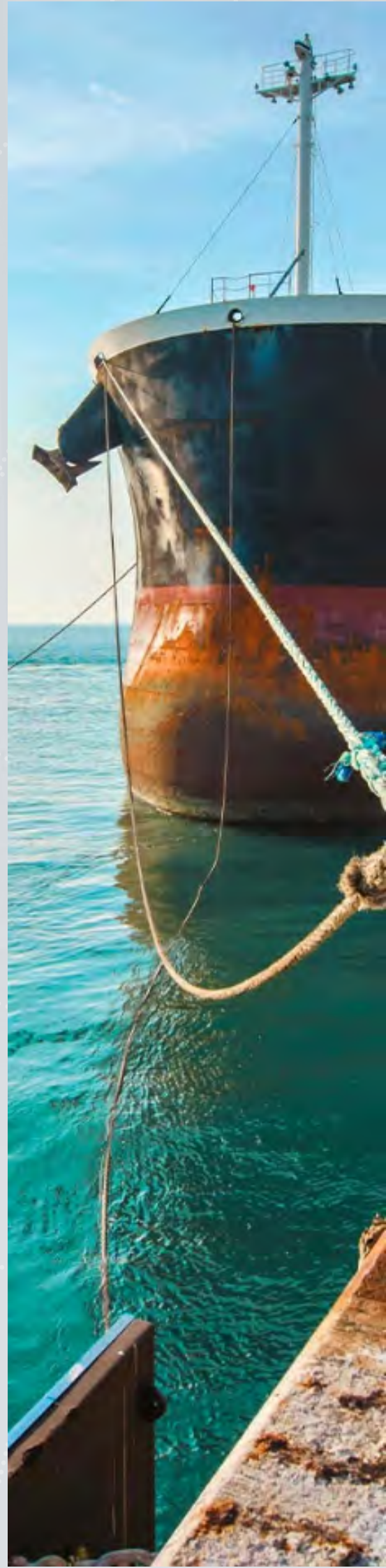


MARINE PORT WORKS PROJECTS





FIELDS OF EXPERTISE:

MARINE PORT WORKS PROJECTS

Design & construction of custom made solutions for upgrading existing Marine port installations & loading procedures.

- Detailed design and installation of port loading/off loading facilities, port electromechanical infrastructure, HV and MV Substations for permanent dry and floating docks
- Detailed Engineering and construction of mooring and anchorage systems, customized buoys and underwater pipelines.
- Shipyard's Infrastructure projects. Design and Construction of Workshops, Submarine Hangars, Shipbuilding berths.



CLIENT	INDUSTRIAL PROJECTS	YEAR
ONEX SYROS SHIPYARDS	Study and Engineering of M.V. Substations in Syros Shipyard.	2024-
ONEX ELEFSIS SHIPYARDS	Engineering, Procurement and Construction of M.V. Substations & OPS - Cold Ironing in Elefsis Shipyard.	2024-
CORAL	Multi buoy Mooring (MBM) for tanker ships - Vessels mooring analysis Kalochori-Thessaloniki	2024
GASTRADE	Study, Engineering and Installation of SPBM and LMB offshore Kalochori-Thessaloniki	2024
AVIN	Offshore Nitrogen Pigging System for submarine pipeline cleaning	2020
CORAL	Pier Upgrade in the Installation of RAPI Rhodes	2019
CORAL	Kavala Submarine pipelines Installation	2018
CORAL	Environmental Licencing for Kavala Submarine pipelines Installation	2018
CORAL	Kavala offshore Mooring Installation	2018
CORAL	Thessaloniki Submarine pipelines Installation	2017
CORAL	Environmental Licencing for Thessaloniki Submarine pipelines Installation	2017
CORAL	Thessaloniki offshore Mooring Installation	2017
PUBLIC POWER CORPORATION S.A. (ΔΕΗ)	Design, licensing, construction & installation of sea buoys at Power Station of Mykonos & Paros	2017
LAFARGE Group-AGET VOLOS Plant	Pier C' Modification	2013
THYSSENKRUPP MARINE SYSTEMS Hellenic Shipyards S.A.	Complete Electromechanical Installation of Heavy Machine Shop. Study, Design ,Procurement, Erection and Commissioning.	2007



MECHANICAL COMLETION CERTIFICATE

For the Single Point Mooring Buoy detailed Engineering Design, Supply and Offshore Installation Services of the Pipeline for Alexandroupolis INGS dated 13/12/2023

GASTRADE

certifies that

on the date of 04/11/2024

PARALOS SYSTEMS S.A.

has completed all works, in full accordance with the Contract

up to the point of MECHANICAL COMPLETION

Mechanical Completion certified by

Representative of PARALOS SYSTEMS S.A.




Name: GEORGE CHRISTOPOULOS

Certificate issued by

Representative of GASTRADE S.A.



Name: IOANNIS KARAMANLIS



Plankton First S.A.

PROJECT CERTIFICATE

Conceptual Engineering design, Licensing, Dredging, Equipment/ Materials Supply and Offshore Installation of a 400 m, 8" underwater pipeline for feeding of sea water at Skarfia Fthiotis production plan/Production of Nannochloropsis Oceanica, a single cell phytoplankton that is highly nutritious and safe to eat with the highest EPA content providing holistic health and wellbeing benefits

PARALOS SYSTEMS SA has successfully completed the project in accordance with the overall contract requirements and international marine standards, rules and regulations.

Ioannis Sterpis

COO

PLANKTON FIRST ΜΟΝΟΠΡΟΣΩΠΗ Α.Ε.
ΠΑΡΑΓΩΓΗ ΙΧΘΥΟΤΡΟΦΩΝ ΚΑΙ ΑΛΓΗΣ
ΛΕΩΦ. ΑΜΑΛΙΑΣ 38 - Τ.Κ. 105 58 - ΑΘΗΝΑ
ΤΗΛ. 693 6677106 - Γ.Ε.ΜΗ.: 152716501000
Α.Φ.Μ. 801250897 - Δ.Ο.Υ. Φ.Α.Ε. ΑΘΗΝΩΝ



19 - 11 - 2007

CERTIFICATE

We certify that PARALOS ENGINEERING S.A. has successfully and on time completed the erection works for the Heavy Machine Shop new Electrical Installation.

The project was executed on "turn key" basis (design, procurement, installation) and mainly included:

- Study & design of Heavy Machine Shop's new electrical installation.
- Design, construction & installation of LV Switchgears.
- Provision, installation, ~~termination~~ & commissioning of:
 - Main power supply cables from MV Substation.
 - Machinery power cables.
 - Indoor, outdoor & emergency lighting systems.
 - Lightning protection & grounding system.
 - LV & Data systems in HMS's offices.

L. WINTER
Infrastructure
Projects

G. VENTOURIS
Head
of Electrical

Volos Plant 14.04.2016

ΒΕΒΑΙΩΣΗ

Η ΑΝΩΝΥΜΟΣ ΕΤΑΙΡΙΑ ΤΣΙΜΕΝΤΩΝ ΑΓΕΤ ΗΡΑΚΛΗΣ - LAFARGE Group βεβαιώνει ότι η εταιρία PARALOS S.A. ολοκλήρωσε επιτυχώς το έργο της Μελέτης, Αδειοδότησης και Υλοποίησης του έργου πόντισης νέου ναυδέτου για το λιμάνι του εργοστασίου της εταιρίας μας στο ΒΟΛΟ.

Το έργο υλοποιήθηκε εξ ολοκλήρου από την ΠΑΡΑΛΟΣ ΑΕ κατά το έτος 2015 περιλαμβάνοντας :

1. Πλήρης Εκπόνηση των απαιτούμενων μελετών.
2. Συγκρότηση του φακέλου υποβολής και κατάθεση αυτού στις αρμόδιες αρχές.
3. Προώθηση και παρακολούθηση του θέματος και επικοινωνία με τις αρχές.
4. Μέριμνα για την έκδοση της άδειας.
5. Προμήθεια απαιτούμενου εξοπλισμού και υλικών.
6. Μελέτη και κατάστρωση σχεδίου πόντισης.
7. Εργασίες Πόντισης και αγκύρωσης του νέου ναυδέτου.



Nikolas Manolis
Expedition Manager & Port Facilities ISPS officer
Volos Cement Plant
Heracles-Lafarge Greece



Volos Plant 9.10.2012

CERTIFICATE

HERACLES GENERAL CEMENT COMPANY – LAFARGE Group hereby certifies that PARALOS Engineering S.A. has successfully completed and according to the contract requirements the EPC Project : “SLINGS TRANSPORTATION SYSTEM” for Volos Plant,

The Project was executed from July 2012 to September 2012 and mainly included:

- A. Complete Study, Detailed design, and Engineering of Mechanical, Electrical and Automation Processes.
- B. Fabrication of lifting equipment & hydraulics, rails, transportation cart, steel constructions, drive systems, etc.
- C. Development, Implementation and Installation of Automation Software
- D. Infrastructure Civil works (tunnel, access points, modifications and adaptation).
- E. Installation of all system components.
- F. Commissioning works, Performance tests & Personnel training.

For HERACLES G.C.C.

A handwritten signature in black ink, appearing to be 'A. KOTZAKOLIOS', written over a printed name.

A. KOTZAKOLIOS

New Projects Manager

Lafarge, Volos Plant



Memo - Σημείωμα

Skaramangas 20-11-08

Reference letter

We certify that PARALOS ENGINEERING S.A. has successfully and in time completed all project works for the Supply and Installation of Heating and Ventilation System of the Heavy Machine Shop.

The project was executed on "turn key" basis (design, procurement, installation) and mainly included:

- Study & Design of Heavy Machine Shop's Heating and Ventilation System
- Design & Construction of civil works for boiler and fuel tank facilities
- Installation & Commissioning of piping system
- Procurement, Installation & Commissioning of related equipment
- Procurement, Installation & Commissioning of related electrical and automation system

L. Winter

Head of Infrastructure Projects

A. Pappas

PM Infrastructure Projects



CERTIFICATE

We hereby certify that PARALOS ENGINEERING S.A. has been assigned as Subcontractor under the Main Contractor "Siemens S.A." and has successfully and on time completed the erection works for the upgrade of the electrical distribution system of the Shipyards.

The works mainly included:

- Erection of 17 Medium Voltage Substations
- Upgrade of High Voltage (150kV) Substation
 - Replacement of MV switchgear
 - Installation of LV and control circuits
 - Reinforcement of the grounding system
 - Installation of MV cables
 - Replacement and adjustments of two HV tap changers' controllers
- Implementation of Protection Selectivity Study
- Settings and adjustments of MV protection equipment
- Testing, commissioning and start-up of all MV installations
- Training of the Shipyards personnel

For Hellenic Shipyards S.A.

Lars Winter
Infrastructure Projects

George Ventouris
Head of Electrical Department



Memo - Σημείωμα

TO: Mr. G.Christopoulos
ΠΡΟΣ: PARALOS SA

FROM: Mr.J. Vogel
ΑΠΟ: Mr.A.Pappas

C.C.: Mr. L. Winter
ΚΟΙΝΟΠΟΙΗΣΗ:

DIVISION-DEPARTMENT: Yard Operations
ΔΙΕΥΘΥΝΣΗ – ΤΜΗΜΑ:

YOUR REFERENCE:
ΕΝΔΕΙΞΕΙΣ ΣΑΣ:
NUMBER OF PAGES: - 1 -
ΑΡΙΘΜΟΣ ΣΕΛΙΔΩΝ:

OUR REFERENCE: **No. HSY 015/07**
ΕΝΔΕΙΞΕΙΣ ΜΑΣ:

DATE: 23/01/2007
ΗΜΕΡΟΜΗΝΙΑ:

SUBJECT: **Medium Voltage Cable-Pulling Reference Letter**
ΘΕΜΑ:

Dear Mr. Christopoulos,

Answering to your request as per your fax no. 0426, dated 27-12-06 we would like to certify that Paralos Engineering S.A. has completed successfully and on time the medium voltage cable pulling works according to our specifications.

The works included:

- Facilitation of pulling machinery, related equipment and personnel
- New MV cable 1x120 mm² pulled, 15.000 m
- Old MV cables dismantling and reinstallation, 4.500 m
- Insulation and continuity measurements according to VDE 0276-HD620



J. Vogel
Director Yard Operations



A. Pappas
PM Infrastructure Projects



10 - 10 - 2006

CERTIFICATE

We certify that PARALOS ENGINEERING S.A. has completed successfully and on time repair works on No.1 Floating Dock Electrical Installation.

The works included:

- Replacement of Medium Voltage Circuit Breaker.
- Repair of Medium Voltage Cubicle.
- Supply and Installation of Low Voltage Switchgear.
- Power and Signal cables installation.
- Electrical Measurements of Power Transformer.



G. PYRPYLIS
Manager
Maintenance



G. VENTOURIS
Responsible for
Electrical Installations



25 - 10 - 2006

CERTIFICATE

We certify that PARALOS ENGINEERING S.A. has completed successfully and on time maintenance works of two (2) On Load Tap Changers of Shipyard's Voltage Transformers and repair works on 150 KV disconnecter switches.

The works included:

- Fully maintenance procedures and related works according manufacturer's directions (Machinenfabric Reinhausen).
- Supply and Installation of necessary spare parts.
- Inspection and Regulation of control parts.
- Inspection and Repair of 150 KV drive unit of the disconnecter switches.



G. PYRPYLIS
Manager
Maintenance



G. VENTOURIS
Responsible for
Electrical Installations




20 - 01 - 2006

CERTIFICATE

We certify that PARALOS ENGINEERING S.A. has completed successfully and on time maintenance works in High and Medium Voltage Electrical Substations for Hellenic Shipyards S.A., according to our specification.

The works included:

- Supply and replacement of transformers insulating oil.
(Shell Diala D, quantity $\approx 14\text{tn}$).
- Treatment (filtering/dehydration) of insulating oil with special purifying device.
(1 unit Transformer 150/20KV, 23 units Transformers 22/0,4 KV and 2 units Transformers 0,4/0,4KV).
- Disposal according to legal rules for the used insulating oil.
- Maintenance of Shipyard's High and Medium Voltage transformers.
(Transformer cleaning by using special liquids, replacement of the silica gel, sealing of oil leakages, vaporization from all possible points, general inspection of all electrical connections etc).


J. VOGEL
Director
Yard Operations


G. PYRPYLIS
Manager
Maintenance


G. VENTOURIS
Responsible for
Electrical Installations

Mobil Oil Hellas A. E. Petroleum Company

194 SYNGROU AVE.
ATHENS, GREECE

TELEPHONE 951-3111
951-4111

CABLE ADDRESS MOBILOIL - ATHENS
TELEX 215150
FAX No. 9501238

C E R T I F I C A T E

It is hereby certified that Mr. Apostolos Pappas (Mechanical Engineer B.Sc., Management Science/Operations Research M.Sc.) has executed successfully on behalf of Mobil Oil Hellas the following projects:

1992 - 1995

A. MOBIL OIL HELLAS SALONICA FUELS TERMINAL 2nd EXPANSION
(Budget: 1.900.000 U.S. Dollars 450.000.000 DRS)

- Three vertical cylindrical tanks:
2700 m3, 6900 m3, 2130 m3 correspondingly
- Fuel pipelines
- Product separation "pig" system/fuel receiving and discharging automations, valves motorization.
- Fuel level gauging automations
- Fuel additive injection systems
- Introduction of the new type "Super-Unleaded" Gasoline in the installation
- Railway through the installation
- New tanks dyke
- New fire fighting system
- Fire fighting tanks enlargement (using finite element analysis on the key structural points)

Mr. A. Pappas was responsible for the conception design as well as for the technical and financial Supervision of the project. (Project Manager)

./...

ΜΟΜΠΙΛ ΟΙΛ ΕΛΛΑΣ Α.Ε.
ΕΤΑΙΡΕΙΑ ΠΕΤΡΕΛΑΙΩΝ
ΛΕΩΦ. ΣΥΓΓΡΟΥ 194
176 71 ΚΑΛΛΙΘΕΑ



- 2 -

B. MOBIL OIL HELLAS KRETE (LINOPEAMATA) FUELS TERMINAL UNDERWATER RECEIVING PIPELINE (Budget: 330.000 U.S. Dollars 80.000.000 DRS).

Mr. A. Pappas was responsible for the conception design as well as for the technical and financial supervision of the project. (Project Manager)
MOBIL OIL appropriated for Mr. A. Pappas scuba diving training and he was therefore able to supervise and photograph the whole underwater installation.

1991-1992

A. LPG INSTALLATION AT "METAXA" DISTILLERS
(Budget 65.000 U.S. Dollars 16.000.000 DRS).

B. LPG INSTALLATION AT "YFADIS" SAUSAGE MAKERS
(Budget 60.000.000 U.S. Dollars 15.000.000 DRS)

Mr. Pappas was responsible for the conception design as well as for the technical and financial supervision (Project Manager) of the above mentioned projects.

E. MOBIL OIL HELLAS LUBES BLENDING PLANT RE-ORGANIZATION
(ISO CERTIFICATE ACQUISITION)
(Budget 2.500.000 U.S. dollars 600.000.000 DRS)

Mr. Pappas was responsible for the conception design of the project (1/3 of the Budget)

D. MOBIL OIL HELLAS KRETE LINOPEAMATA EXPANSION
(Budget: 500.000 U.S. dollars 120.000.000 DRS)

- Two cylindrical vertical fuel tanks: 2500 m3 1890 m3 correspondingly
- Fuel pipelines
- Automatic level gauging, level alarms
- Fire fighting system
- Valves motorization
- Product separation "pig" system/fuel receiving and discharging automations

Mr A. Pappas was responsible for the conception design of the project.

./...

ΜΟΜΠΙΛ ΟΤΑ ΕΛΛΑΣ Α.Ε.
ΕΤΑΙΡΕΙΑ ΠΕΤΡΕΛΑΙΩΝ
ΛΕΩΣ. ΣΥΓΓΡΟΥ 194
176 71 ΚΑΛΛΙΘΕΑ



- 3 -

E. MOBIL OIL HELLAS SALONICA FUELS TERMINAL 1st EXPANSION
(Budget 2.000.000 USD 480.000.000 DRS)

- 4 vertical cylindrical tanks 3000 m3, 3500 m3, 1500 m3, 2900 m3 correspondingly
- Fuel pipelines
- Fuel pump station
- Tank truck filling racks (bottom loading)
- Fire Fighting system

Mr A. Pappas was responsible for the conception design of the project. (1/3 of the Budget).

F. MOBIL OIL HELLAS LUBES BLENDING PLANT NEW BLENDING KETTLE
(Budget 40.000 U.S. dollars 10.000.000 DRS)

Mr. A. Pappas was responsible for the conception design as well as for the technical and financial supervision of the project.

G. MOBIL OIL HELLAS ASPROPYRGOS FUELS TERMINAL ELECTRICAL GENERATOR
INSTALLATION
(Budget 80.000 U.S. dollars 20.000.000 DRS)

Mr. A. Pappas was responsible for the conception design of the total electrical circuit as well as for the technical and financial supervision of the project.

D. Houndras
Technical Manager

ΜΟΜΒΙΛ ΟΤΑ ΕΛΛΑΣ Α.Ε.
ΕΤΑΙΡΕΙΑ ΠΕΤΡΕΛΑΙΩΝ
ΛΕΩΦ. ΣΥΓΓΡΟΥ 194
176 71 ΚΑΛΛΙΘΕΑ