

COMPANY PROFILE

Dear Sirs,


ICE was established in 2001. ICE provides its clients with services in the following areas of expertise:

1. Engineering Services for the Oil and Gas
2. Assets Integrity Management Services
3. Cathodic Protection Services
4. Training and Development
5. General Trading

Throughout the years, ICE has developed a strong relation with all its customers. The vast majority of its customers and recurring clients.

ICE has delivered an excess of 400 successful projects in the MENA region. Our staff are fully dedicated to provide an authentic added value that would serve the customer in achieving their operational excellence.

Attached are ICE's detailed company profile. In case of any clarifications, please don't hesitate to contact us.

Best Regards
Eng. Houssam Sabry
PP 
Managing Director



COMPANY INFORMATION

INTERNATIONAL CONSULTANT ENGINEERS-Egypt

HQ: Villa 67 El-Nargess 3, El-Tes'een Road, New Cairo, Egypt
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Contents

1. Introduction
2. Company's Information
3. Vision
4. Mission
5. Services
6. Reference List
7. Major Clients



1. Introduction

ICE was established in 2001 by a group of highly Oil and Gas experts in the areas of Engineering, Assets Integrity Management, Corrosion and Inspection Engineering Management.

Throughout the years ICE has gained the trust of its customers. An excess of 300 successful projects in the MENA region were delivered.

ICE has five main Divisions; Engineering Division, Assets Integrity Management Division; Cathodic Protection Division, General Trading Division and Technical Training Division.

ICE services cover many industrial sectors including; Oil and Gas, Power Generation, Infra Structure and Industry.

2. Company's Information

Name of Company: International Consultant Engineers (ICE)
Date of Establishment: Oct 2001
Company Head Office: Villa 67, El-Nargess 3, El-Teseen Road, New Cairo
Tel: +202-26781211/ Fax: 26781213

Mobile: +20122-1616824
E-Mail: ice_co@link.net
info@ice-corrosion.com
assist@ice-corrosion.com
www.ice-corrosion.com

Factory: 119, New Cairo Industrial Zone, New Cairo, Egypt

Company's legal system: Simple advisory

Staff:

Permanent Staff: 18

Contracted Staff: 40

Company's Registration:

Company is registered under the laws of the Arab Republic of Egypt.

Owner: Eng. Houssam Sabry

Reg. No: 1810

Tax card: 723-176-280

EGPC reg. no: 26/2020

3. ICE Vision

ICE shall bring innovative solutions for the safe and profitable operation of its customers. The welfare of its clients and the community is our ultimate goal.

4. ICE Mission

Provide the end users with innovative proven engineered solutions to maintain the safety, integrity, reliability and the availability of the assets. We aim at providing solutions for the end users to establish a safe and sustainable production and achieve operational excellence.



5. ICE's Services

As mentioned earlier, ICE has the following Divisions:

- I. Engineering Solutions Division
- II. Assets Integrity Management Division
- III. Cathodic Protection Services Division
- IV. People Development and Training Division
- V. General Trading Division

5.1. Engineering Solutions

ICE supports its clients for specialized engineering services, we have already supported the major engineering Oil and Gas projects. ICE together with its partners delivers state of the art engineering solutions to cover the following project stages:

- PREFEED
- FEED
- Basic Engineering
- Detailed Engineering

Some specific deliverables and specialized services are as follows:

Process Engineering

- Basis of Design
- Process Description Reports
- Heat and Material Balance
- Process Simulation
- Process Flow Diagrams
- Piping and Instrumentation Diagrams
- Cause and Effect Diagrams
- Equipment sizing calculations
- Process Data sheets

Materials and Corrosion Engineering

- Materials Selection Philosophy Reports
- Materials Selection Guides
- Corrosion Control Documents
- Corrosion Monitoring Drawings
- Coatings Specifications
- Insulation Specifications
- Risk Based Inspection Exercises
- Remnant Life Assessments
- Fitness for Service Studies

- Cathodic Protection Engineering
- Pipelines Assets Integrity Studies

Loss Prevention

- Fire Protection Design Basis
- Fire and Gas Detection and Mapping
- Fire Water Network Layout
- Fire Water System P&ID's and Hydraulic Calculation
- Fire Zone Layouts
- Hazardous Area Classification Layouts
- Fire Alarm Cause and Effects
- Safety Studies
- HAZOP, HAZID and SIL Studies
- QRAs

Piping Engineering

- Piping Material Specifications.
- Piping bulk material estimation.
- Material Requisitions, Technical bid evaluation & Vendor drawing review.
- Pipe Stress analysis (Dynamic & Static)
- Piping design specifications
- Piping Supports Design
- 3D Modelling
- Plant / Piping Layouts & isometrics extraction from 3D models.
- Post Detail Engineering, Field engineering support and construction assistance.
- Pipe wall thickness calculations as per ASME B31.1, ASME B31.3, ASME B31.4 & ASME B 31.8
- Pipelines full engineering spectrum inclusive of pipelines stress analysis and alignment sheets
- Piping Systems Materials Requisitions

Civil Engineering

- Structural Design- AISC, BS, EURO, & API codes
- Developing Design criteria, Specifications and Standard drawings
- Structural GA Drawings & MTO
- Structural Fabrication drawings
- Foundation Design or Reaction forces on foundations
- 3D Modelling
- Lifting, Transportation, Seismic, Wind, Fatigue, Vibration and In-place analysis reports for Modular constructions

Electrical Engineering

- Electrical Bulk MTO
- Earthing Systems Designs
- Electrical Material Requisitions
- Preparation of Datasheets and Material Requisitions
- Single line diagrams
- Electrical layouts (Lighting / Cable routing / Earthing)
- Schematics and wiring / interconnection wiring diagrams
- 3D Modelling.

Mechanical Engineering

- Mechanical Equipment Data Sheets (inclusive of static and machinery)
- Rotating Equipment Specs
- Static Equipment Specs
- Rotating and Static Equipment Material Requisition
- Technical Bid Evaluation (based on both CAPEX vs OPEX for Rotating Equipment)
- Static equipment Fabrication Drawings.

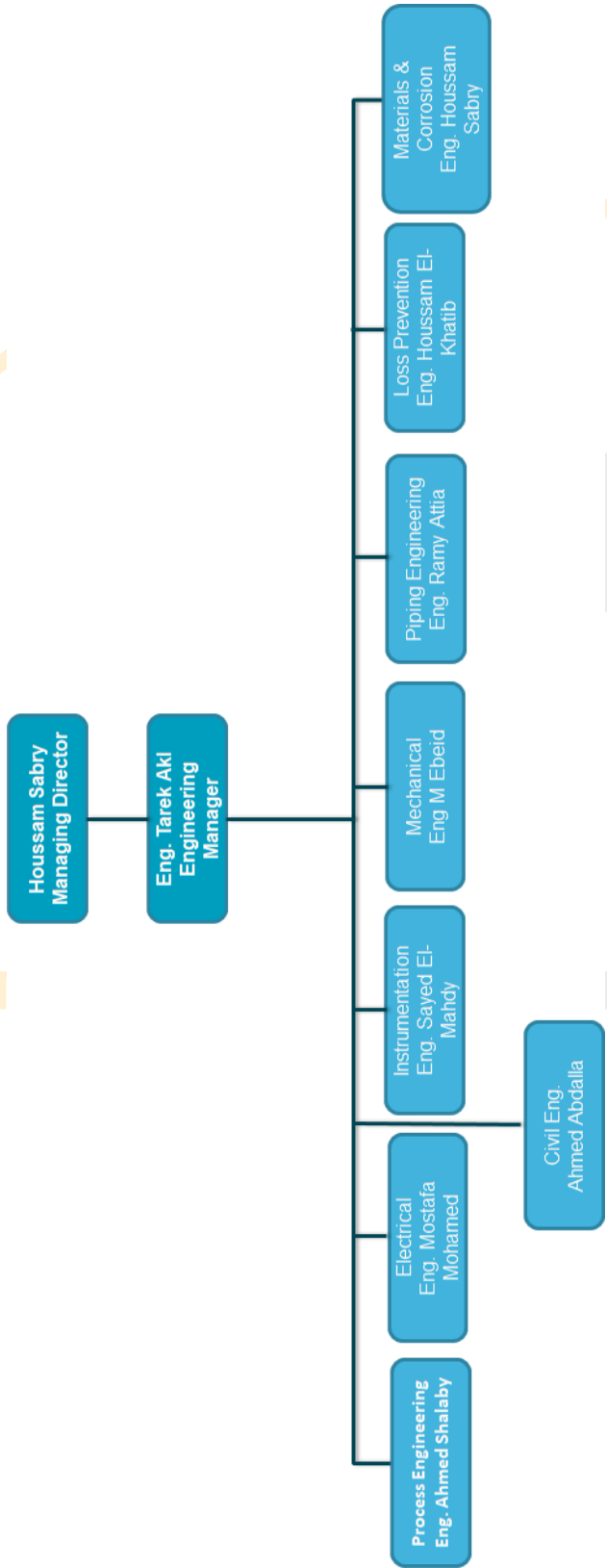
Instruments and Control

- I&Cs Bulk MTO
- Specification for Field and Online instruments
- DCS, PLC, ESD Engineering
- Preparation of Datasheets and Material Requisitions
- Cable Tray Layouts
- 3D Modelling of Instrument, Junction box, Cable trays etc.

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Engineering Organization

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5.2. Assets Integrity Management

ICE provides high expertise with wealth of experience in the following areas:

1. Assets Integrity Management Systems Development
2. Assets Integrity Management Gap Analysis
3. Assets Integrity Risk Assessments
4. Assets Integrity Management Audits
5. Risk Based Inspection
6. Corrosion Engineering
7. Corrosion Control Documents preparation
8. Corrosion Risk Assessment Studies
9. Corrosion Rate Modelling
10. Materials and Corrosion Audits
11. Integrity Operating Windows
12. Deadleg Studies
13. Corrosion Circuits/Loops studies
14. Failure Investigation Exercises
15. Materials Selection for the Oil and Gas Industry- Issuance of Materials Selection Reports and Materials Selection Drawings/Guides
16. Corrosion Monitoring systems design, site surveys and analysis
17. Vibration Dynamics and Noise Analysis
18. Corrosion Under Insulation Assessment and Control Services
19. Atmospheric Corrosion Surveys and Control Services
20. Coatings and Painting Consultancy
21. Remnant Life Assessment/ Assets Life Extension Studies
22. Fitness for Service (Levels I,II and III)
23. Pipeline Integrity Management Solutions
24. Preservation, mothballing and Chemical Injection Studies and Services
25. Boilers Integrity Management Studies and Assessment
26. Inspection Planning and Management
27. People Development and Training:
 - a. Assets Integrity Management Training
 - b. Corrosion Control Training
 - c. Materials Selection Training
 - d. Inspection Engineering Training
 - e. Corrosion Under Insulation Training
 - f. Cathodic Protection Training
 - g. CIPS and DCVG Training
 - h. Coatings and Painting Training
 - i. Corrosion Inhibition and Monitoring Training
 - j. Corrosion Management Training
 - k. RBI Training

28. Technical Competence assessment, gap analysis and Personnel Development plan

Further information on specific Assets Integrity Management Services are as follows:

5.2.1. Assets Integrity Management Systems Development

Assets Integrity Management is universally defined as management of resources and activities that would ensure the safe and functional operation of an asset as per its intended function and during its design life.

Assets Integrity Management (AIM) includes the resources and activities starting from the design till the decommissioning of an asset. AIM includes design integrity, technical integrity and operational integrity. Establishing an effective Assets Integrity Management System is a must to ensure a safe and efficient operation of any facility.

ICE helps its customers establish an effective Assets Integrity Management that would meet the end user's objectives. ICE establishes an AIM that would be compatible with the organisation size and would be in line with the company's values and culture. More importantly ICE would focus on profitability while establishing an effective Assets Integrity Management System.

5.2.2. Assets Integrity Gap Analysis

ICE reviews the end user's established Assets Integrity Management System and would identify the gaps in the Company's AIM through reviewing the three AIM pillars; namely Design Integrity, Technical Integrity and Operational Integrity. Gaps are identified and recommended actions to bridge those gaps are prioritized into short term and long term actions. ICE can also assist in the bridging of those gaps or assisting the client in closing the actions.

5.2.3. Assets Integrity Risk Assessment

ICE through its wealth of experience can assist its customers assess the risk of a certain assets integrity damage mechanisms or even define the criticality of the equipment and the assets integrity risk in general. ICE would establish a clear and concise risk mitigation and management plan. Risk can be related to a certain degradation mechanism for instance

- Internal stress cracking of pipework
- Dead leg damage mechanism
- Flow lines degradation
- Risk of Atmospheric Corrosion
- Risk of Corrosion Under Insulation (CUI)
- Etc

Or else, ICE can identify the assets integrity risk for the end user.

5.2.4. Risk Based Inspection

Risk-based inspection methodology (RBI) evolved in mid-90's and within two decades it has gained significant acceptance and application across industry. Many organizations have benefited from the risk-based approach for optimizing their inspection resources and getting maximum availability of their assets.

Some of the benefits from RBI may include:

- Increased facility availability, improved reliability
- Focused inspection on high risk equipment
- Increased intervals between inspections
- Shorter and fewer facility shutdowns
- Clearer understanding of high-risk equipment and ability to implement mitigation measures
- Identified deterioration modes and mechanisms
- Significant reduction in total cost of inspection
- Regulatory compliance/acceptance
- Improved Turnaround planning
- Better-informed, documented, defensible decisions

There are a handful of standards and recommended practices covering RBI such as API 580/581, ASME PCC3, DNV-RP-G101, & RIMAP. Most of these guidelines provide either oversimplified or complex explanations. For starters, it is difficult to learn all the aspects that are critical to the successful implementation of RBI. The purpose of this article is to discuss the fundamental elements of effective RBI system implementation in a simplified manner.

An effective RBI system implementation results in, not only safeguarding your assets & people, but can also reduce unnecessary inspection activities that may be required due to conventional & non-systematic approaches. However, some essential elements are required to accomplish this, including:

- Solid commitment from the management and stake holders
- A team of knowledgeable, qualified specialists and engineers from departments such as corrosion, inspection, maintenance/reliability, process, production and operation etc.
- Availability of design, construction, historical records and inspection data
- Suitable methodology and software for the assessments
- Utilization of latest technologies for inspection

RBI programs may suffer in delivering desired results due to lack of understanding regarding the effective implementation strategy and these essential elements. A general misconception regarding RBI is “the reduction of inspection cost”, which may not necessarily be true all of the time as the focus of RBI is to understand and reduce the risk associated with operation of an asset or facility, not just the inspection costs. However, cost reduction can be an attribute of a well-implemented RBI program, which is achievable long

term. Therefore, a better understanding of inputs and outputs is required before and after implementation.

ICE provides a step by step approach to assist the end user in establishing a state of the art fully functional and sustainable RBI that would match the company's needs. More importantly, ICE shall realistically identify and plan for managing the degradation risks at the plant.

ICE shall offer the following in its RBI program:

- Establishing the Specification/Standard Operating Procedure for RBI
- Develop the Key data input for RBI ranging from Corrosion Control Documents, Corrosion Circuits, Integrity Operating Windows, Assets Data Base, Inspection and Maintenance History
- Choosing the best RBI tool/solution that would meet the client's needs and requirements
- Facilitating the RBI workshops
- Issuance of RBI reports, inspection and monitoring plans
- Provide RBI training

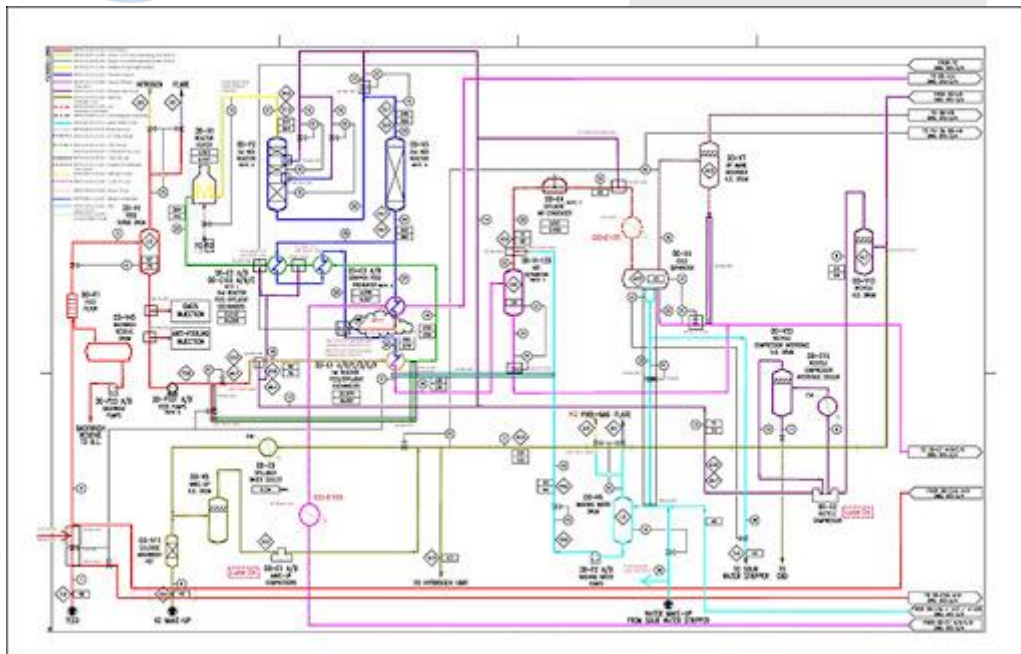
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5.2.5. Corrosion Engineering

Corrosion is defined as the reaction between a material and its environment. At least two thirds of the corrosion mechanisms can be controlled through application of sound corrosion engineering. Corrosion engineering includes the following, which ICE is ready to deliver during the design stage:

- Materials Selection
- Coatings and Painting Specifications
- Corrosion Under Insulation Best Practices
- Cathodic Protection Engineering
- Designing for Corrosion Inhibition and Monitoring

5.2.6. Corrosion Control Documents



API 950 defines Corrosion Control Documents as A Corrosion Control Document (CCD) is a document or other repository or system that contains all the necessary information required to understand materials damage susceptibility issues in a specific type of operating process unit at a plant site. CCDs are a valuable addition to an effective Mechanical Integrity Program. They help to identify the damage mechanism susceptibilities of pressure-containing piping and equipment, factors that influence damage mechanism susceptibilities, and recommended actions to mitigate the risk of loss of containment or unplanned outages. ICE delivers state of the art Corrosion Control Documents.

5.2.7. Corrosion Rate Modelling

ICE is highly experienced in performing corrosion modelling for surface facilities or for downhole equipment. ICE utilised the industry models for calculating realistic corrosion rates. It can also create the logic required for specific environments through corrosion rate modelling. Furthermore, ICE can utilise any industry model that the end user would recommend.

5.2.8. Corrosion Risk Assessment (CRAS) & Materials Selection Audit (MSA)

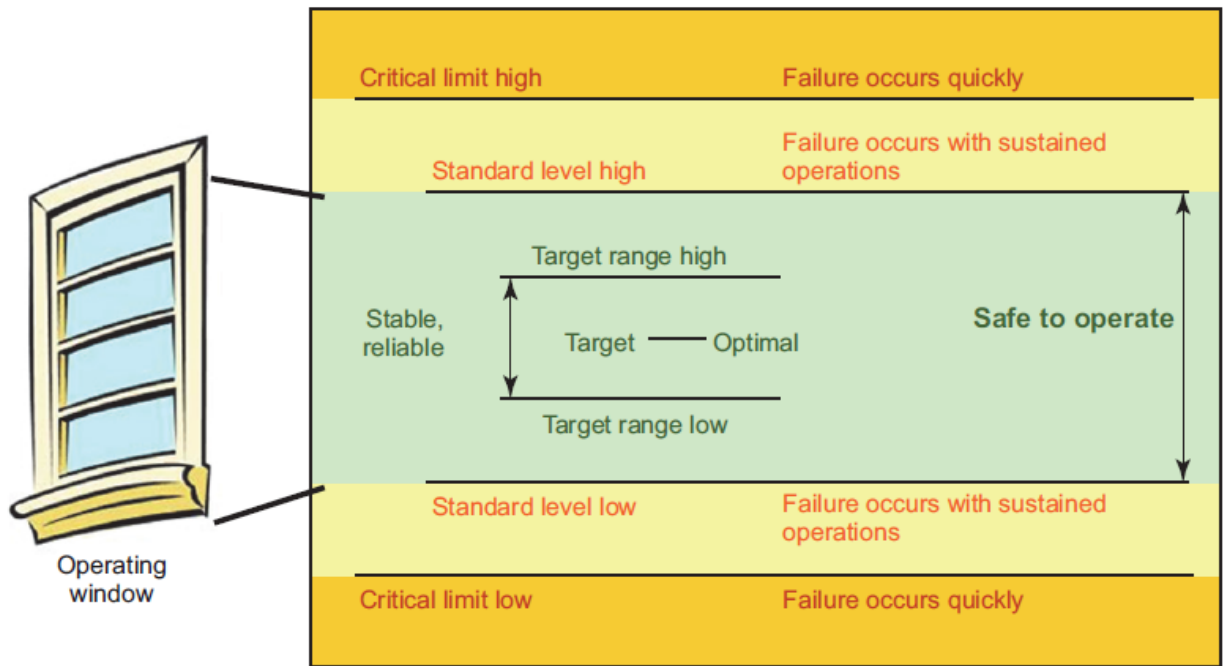
TABLE 1: EXTERNAL CORROSION LIKELIHOOD ASSESSMENT MATRIX

		Coating Condition			
		Small Indication of Coating Defect	Medium Indication of Coating Defect	Large Indication of Coating Defect	No Coating Data
Cathodic protection (CP)	No CP survey data	Severe ^(A)	Severe	Severe	Severe
	High CP potential (more electronegative of $-1,150 \text{ mV}_{\text{Cu,CuSO}_4}$)	Moderate ^(B)	Moderate	Severe	Severe
	Low CP potential (more electropositive than $-850 \text{ mV}_{\text{Cu,CuSO}_4}$)	Minor ^(C)	Moderate	Severe	Severe
	Normal (potential within -850 mV to $-1,150 \text{ mV}_{\text{Cu,CuSO}_4}$)	Minor	Minor ^(D)	Moderate	Moderate

^(A)Severe: Indicates that the pipeline operator considers as having the highest likelihood of corrosion activity.
^(B)Moderate: Indicates that the pipeline operator considers as having possible corrosion activity.
^(C)Minor: Indicates that the pipeline operator considers inactive or as having lowest likelihood of corrosion activity.
^(D)100% CP system availability is recommended.
 Definition of severe, moderate, and minor is in accordance with ANSI/NACE SP0502-2010.²

ICE has performed hundreds of materials selection engineering for upstream, downstream and downhole equipment. It has developed over 300 materials selection diagrams and reports, not only this but ICE has also vast experience in the Technical Integrity and hence is very conversant with the issues related to operating plants and the drawbacks of materials selection if not done properly. Hence it has a wealth of experience to perform Corrosion Risk Assessment exercise followed by Materials and Corrosion Audit. ICE would deliver exercises of extreme value for the end user. ICE will deliver a CRAS exercise that would scrutinise the materials selection done by the Engineering firm/contractor and would provide insurance for the Process Safety while delivering an optimum life cycle cost (LCC). During these exercises, ICE would review the soundness of corrosion loops, design corrosion rates, design life expectancy, process safety aspects related to the materials selection, CAPEX versus OPEX analysis for the selection and furthermore the risk inherent in some specific cases in addition to the final recommendations to render the plant under design safe and economic both for CAPEX and OPEX.

5.2.9. Integrity Operating Windows

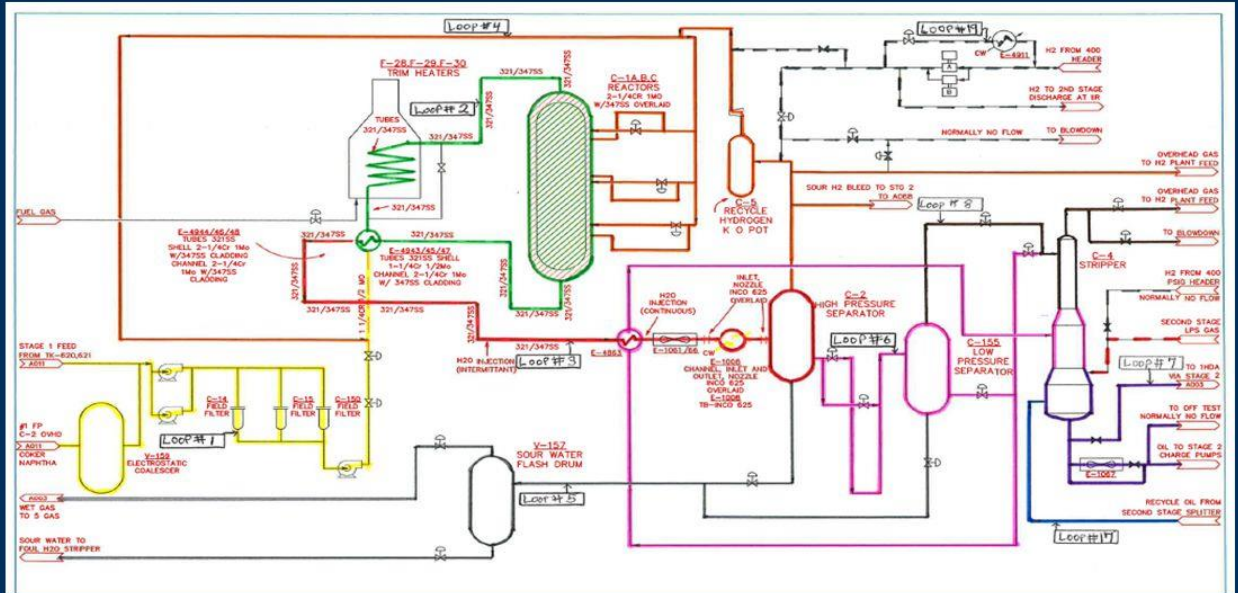


Integrity Operating Windows (IOWs) are sets of limits used to determine the different variables that could affect the integrity and reliability of a process unit. Put simply, IOWs are the limits under which a machine can operate safely. Working outside of IOWs may cause otherwise preventable damage or failure. ICE shall deliver state of the art Integrity Operating Windows (IOW). Furthermore, ICE can also set the requirements for alarms settings for better operations control.

5.2.10. Corrosion Circuits

Create Corrosion Loops / Circuits

Areas that have similar operating conditions, corrosion mechanisms, and materials



Corrosion Circuits (loop(s)) are systematized analysis "loops" used during Risk-based inspection analysis. Both terms "RBI **Corrosion loops**" or "RBI **corrosion** circuits" are generic terms used to indicate the systematization of piping systems into usable and understandable parts associated with **corrosion**. ICE can draft the corrosion loops for existing and new plants (under design). Corrosion loops shall be delivered on the PFD, PID level. ICE also issues data sheets for each corrosion loop, this is coupled with the damage mechanisms and the assets under each corrosion loop together with the optimum monitoring (effective inspection technique) for each corrosion loop and the monitoring technique coverage for each asset

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5.2.11. Failure Investigation



ICE is highly experienced in Failure Investigations, it can reach to the very root cause of the failure. ICE has participated in hundreds of failure investigations in both upstream and downstream oil and gas and utilities sectors. Through the effective failure investigation that ICE does, not only the end user will save from avoidance of recurrent failures but will ensure the process safety of their plants. ICE on request can provide examples of failure investigation exercises.

5.2.12. Materials Selection

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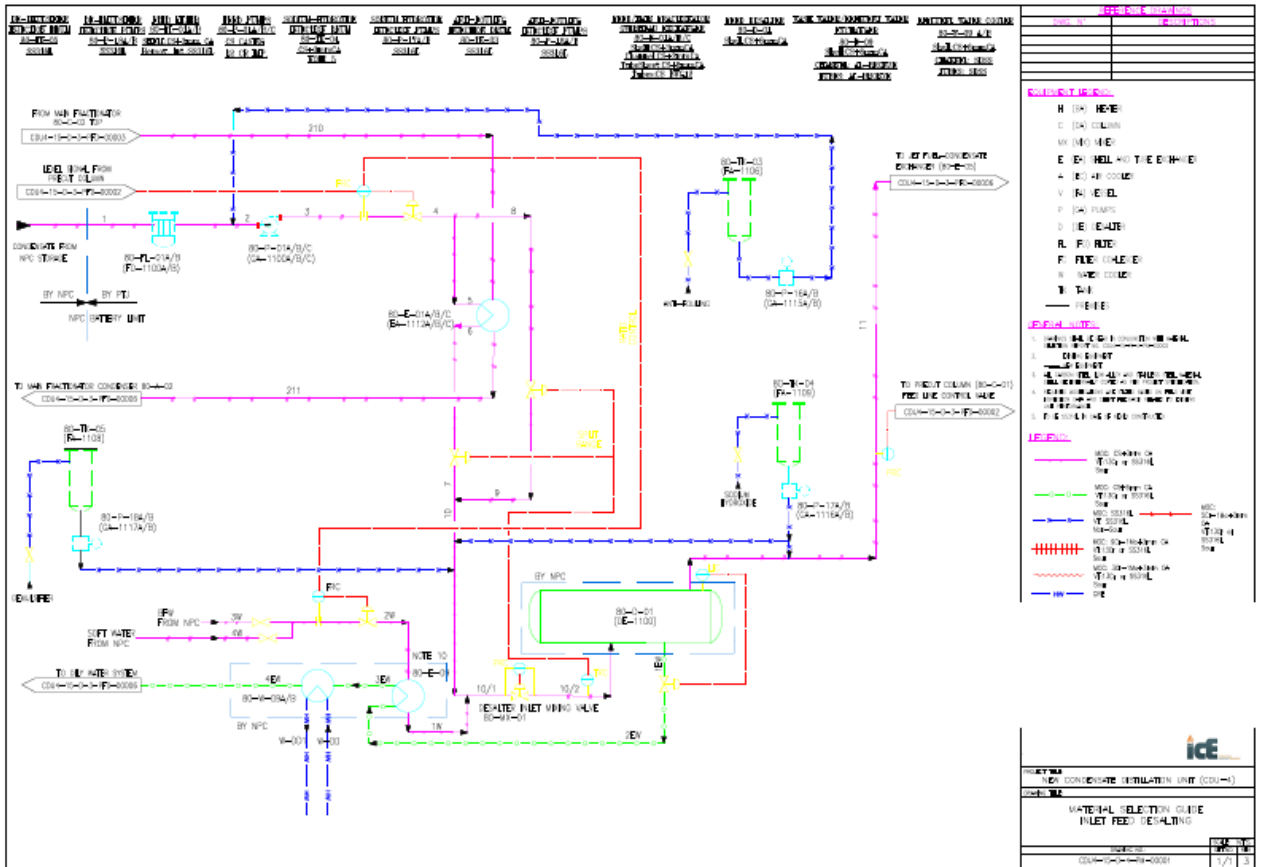
NASR PETROLEUM COMPANY

EPC Work for New Crude Distillation Unit
Materials Selection Philosophy



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Materials selection is an art and a science. It is based on degradation models coupled with operating experience and numerous failure investigations and case histories. Through ICE you will guarantee that the materials selection exercise shall deliver:

- Best OPEX and CAPEX combination hence ensuring the most optimum Life Cycle Costing
- Process Safety of the Plant
- A fully monitored and maintained plant
- Preventive Maintenance is optimised

5.3. Technical Competence Assessment, Gap Analysis and Personnel Development Plans

People element in Assets Integrity management is the most challenging element in Assets Integrity. It is people who operate the plant, so inspection, design and manage the technical integrity and provide the final assurance.

This activity is of prime importance to assess the Technical Competence of the personnel who are directly engaged in Assets Integrity Management. ICE starts the competence review through establishing a clear Technical Competence Matrices for each job group and function, then technical competence gap exercise is done. Bridging those gaps both short term and long term is provided as a very effective solution.

Furthermore, ICE can bridge the gaps in people's competence. ICE through its training arm can put a detailed plan for the development of human capital both technically and in terms of management.

Vision:

In a world of digitalisation, artificial intelligence constituting the fourth industrial revolution, the human capital must be equipped with the knowledge & tools to cope & manage these extremely fast-paced progresses in all business aspects.

ICE shall develop the human capital & shall be among the world leaders to provide the authentic, efficient & continuous human capital development & training.

Mission:

The new training institute shall customise the development that every individual would need utilising the artificial intelligence & we shall also not to forget the classical classroom training where the face-to-face interaction & human aspects cannot be beaten. We shall also provide E learning for those who considered as digital nerds.

Strategy:

The beginning will be with 21 training and development modules as phase 1. This constitutes the available training material & content, those training programs are limited to:

A. Materials and Corrosion Engineering

1. Basics of Cathodic protection
2. Introduction to Material Selection for Oil and Gas
3. Introduction to CIPS & DCVG
4. Introduction to paintings, coatings & insulation
5. Introduction to corrosion inhibitors & corrosion monitoring
6. Assets Integrity Management
7. Corrosion Under Insulation
8. Cathodic Protection Design

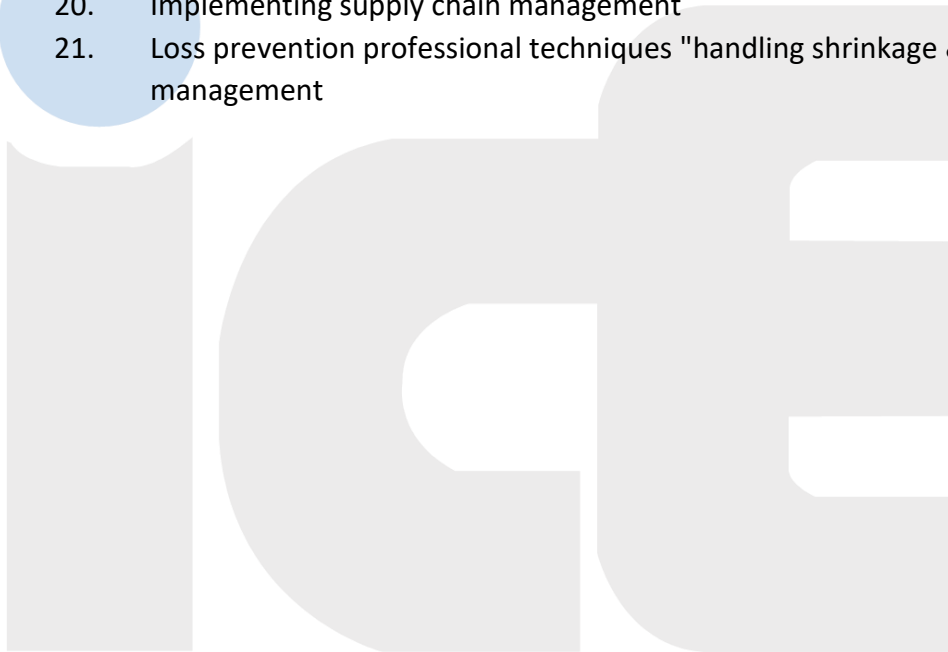
B. E learning & E commerce

9. Build E-commerce business "Basic – Intermediate – Advanced"

10. How to create your online courses

C. Security & Loss Prevention

11. Investigation techniques "Wicklender - Zulawski "
12. Crises management
13. Create your business plan
14. Security management
15. TSR "transportation security requirements"
16. FSR "Facility security requirement" certified from TAPA
17. Developing your Emotional intelligence
18. Critical thinking
19. Negotiating your leadership success
20. Implementing supply chain management
21. Loss prevention professional techniques "handling shrinkage & waste management"



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5.4. Cathodic Protection

Cathodic Protection is ICE's historic division. During 20 years of market presence, ICE became Egypt's market leader in Cathodic Protection.

ICE has delivered an excess of 300 cathodic protection projects, this covers the following

1. Offshore and On-shore Oil and Gas Facilities
2. Power Plants
3. Pipelines
4. Tank Farms
5. Export Jetties
6. Fertiliser Plants
7. Steel Industry
8. Shipping Industries

ICE has certified NACE CP4 staff members and delivers full cathodic protection services.

ICE manufactures and supplies the following CP Materials worldwide:

1. Transformer Rectifiers
2. Sacrificial Anodes
3. Reference Electrodes
4. Impressed Current Anodes
5. Test Stations
6. Petroleum and Metallurgical Coke Breeze
7. Junction Boxes
8. CAD welding consumables and equipment
9. Pin Brazing Equipment and consumables
10. Handycaps
11. Splicing Kits
12. Insulating Kits
13. Monolithic Joints
14. Cables

ICE is also specialised in Close Interval Potential Surveys and has delivered an excess of 10000Km of such surveys for Oil and Gas majors.

5.5. General Trading

ICE works hand-in hand with International partners to complement its services, ICE is hence the sole representative in the Arab Republic of Egypt for the following companies:

1. Metegrity- Assets Integrity Management Software Providers- Canada
2. Polcor- Greece, Manufacturer of Marine Anodes
3. CEPAL, the largest valves, field instruments and control valves supplier in China with superior quality and supplies mainly for the US, Canada and the MENA region major International Oil Companies
4. Ozler, which is a world leader in the manufacture of scaffolding and formwork systems
5. H2O Biofouling Services, based in the Netherlands. H2O is specialised in the solutions of fouling control of all seawater intake industrial systems
6. Corect, a world leader in corrosion control through volatile inhibitor, ICE is the service provider for the Corrologic systems
7. Stone Oil and Gas Engineering Company- Canada, where through a collaboration agreement, ICE shall provide Engineering support services to jointly execute the engineering projects

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6. Reference List:

The following is a sample of some projects, ICE has delivered an excess of 300 projects to major clients representing all Industrial sectors:

No.	Client	Job Description	Year	Location
1	SNC	Engineering, supply, installation and commissioning of a complete CP system for potable water lifting station no.3	2002	Egypt
2	ABB	Engineering, supply of materials, installation and commissioning of CP system for 8", 22 Km Gas Pipeline	2002	Egypt
3	BV	Inspection for ductile iron pipes covering all sorts of NDT	2002	Egypt
4	BV	Obayied Field Integrity Project	2002	Egypt
5	SMNC	CP retrofit of an existing cathodic protection system	2002	Egypt
6	SMNC	Engineering, supply, installation and commissioning of a complete CP system for potable water lifting station No.1	2002	Egypt
7	SMNC	Engineering, supply, installation and commissioning of a complete CP system for potable water Suez Road Crossing	2002	Egypt
8	ABB	Engineering, supply of materials, installation and commissioning of CP system for closed drain, open drain & firefighting piping system for the plant.	2002	Egypt
9	MI	Soil Resistivity Survey	2002	Egypt
10	GUPCO	Engineering, supply of materials, installation and commissioning of CP system for 12" 52 KM pipeline from Abu El Ghardig to Alamein, Western Desert	March 2003	Egypt
11	COOP/ Nilcon	Minya airport Jet P/L Impressed Current CP System	Dec, 203	Egypt
12	ECG/GPC	Crude Storage Tanks CP System Engineering	Jan 2003	Egypt
13	Envirocivic	New Cairo Potable Water Network Corrosion Survey Study	2003	Egypt
14	OPC	Supply of CP Materials and Survey Services	Jan, 2003	Egypt
15	KPC	CP Service for Crude Storage Tanks, Water Tanks & 8" Khalda-Salam, 6" inch Khahraman-Khalda & Salam Production Manifold piping	May,2003	Egypt
16	CCC	Sacrificial CP System for North Cairo Power Station Under Ground Piping	May,2003	Egypt
17	AOI	Sacrificial CP System for Sewage Treatment Storage Tanks for UGDC	Nov,2002	Egypt
18	AOI	Sacrificial CP System for Sewage Treatment Storage Tanks for Burrullus	Jun, 2003	Egypt
19	GASCO	Design and Supply of Unidirectional Interference Stations	Sep, 2003	Egypt
20	KPC	Design, supply and installation of Khepri Storage Tanks CP System	Sep, 2003	Egypt
21	KPC	Design, supply and installation of Kalabsha Storage Tanks CP System	Sep, 2003	Egypt
22	First	CP Engineering Services	Sep, 2003	Egypt
23	BAPETCO	Supply of CP Materials-Indium Activated Aluminum Anodes	Oct, 2003	Egypt
24	PETROJET	Installation of 8 groundbeds for storage tank External CP System	Oct, 2003	Egypt

No.	Client	Job Description	Year	Location
25	PSEW	Internal CP System for BAPETCO tanks T-101/102/103	Nov, 2003	Egypt
26	PSEW	Int. & Ext. CP System for on-grade water storage tanks for Gemsa Petr. Co.	Nov, 2003	Egypt
27	GPC	Supply of CP Aluminum Anodes	Nov, 2003	Egypt
28	NSF/Bechtel	BECHTEL Egyptian LNG Project-IDKU ICCP for water storage tanks	Dec, 2003	Egypt
29	PETROJET	Supply of CP test station & variable resistors	Dec, 2003	Egypt
30	AMAPETCO	Supply of Galvalum III Aluminum Anodes	Dec, 2003	Egypt
31	AGIBA	Design and fabrication of Bracelet Aluminum Anodes system	Dec, 2003	Egypt
32	GASCO	Supply of Unidirectional bonding stations	Dec 2003	Egypt
33	Petroline	Supply of internal tanks cathodic protection anodes	Dec 2003	Syria
34	Maridive	Supply of on-shore CP System for 8" Pipeline	Jan, 2004	Egypt
35	GASCO	Supply of CP material for LPG plant	Feb, 2004	Egypt
36	GUPCO	Supply of galvanic anodes	Feb, 2004	Egypt
37	First	Khalda Khepri CP Engineering	Mar, 2004	Egypt
38	Petrojet	Manufacture and supply of Karama Tanks CP material	April, 2004	Egypt
39	ESHPETCO	In-plant CP system, engineering, supply of material, installation, commissioning and startup	Dec, 2004	Egypt
40	Petromaint	CP system EPC contract for Qena 80 Km P/L	Aug, 2004	Egypt
41	Petromaint	Mallaha storage tanks CP system	July, 2004	Egypt
42	Petrojet	PPL Portsaid P/L CP materials supply	June, 2004	Egypt
43	GUPCO/BP	Survey and engineering of A/G-Dahshour 24", 267 Km P/L	Sep, 2004	Egypt
44	Orascom	Nubariya Power Station Screen Bars CP system	Sep, 2004	Egypt
45	MSD	Nubariya Power Station U/G CP system EPC contract	2004	Egypt
46	Petrojet	Qantara Petroleum P/L CP materials supply	June, 2004	Egypt
47	Petrojet	Centurion P/L CP materials supply	June, 2004	Egypt
49	GPC/EMC	Design/Manufacture/Installation of spherical vessels anodes	Aug, 2004	Egypt
50	GASCO	Supply of CP Equipment	Sep, 2004	Egypt
51	GASCO	Supply of CP Equipment	Sep, 2004	Egypt
52	ACI	Abu Zaabal Military Plant CP system EPC Contract	Dec, 2004	Egypt
53	AOI	Sacrificial CP System for Sewage Treatment Storage Tanks for Petrobel	Dec, 2004	Egypt
54	GASCO	Supply of CP Equipment	Dec, 2004	Egypt
55	AMAPETCO	Supply of CP Equipment	Dec, 2004	Egypt
56	GASCO	Supply of CP material	Jan, 2005	Egypt

No.	Client	Job Description	Year	Location
57	ECG	Engineering for Sweidieh Project	Jan, 2005	Syria
58	Petrojet	Jordanian P/L CP material	Feb, 2005	Jordan
59	Petrojet	Centurion P/L CP system	Mech, 2005	Egypt
60	Petrojet/ PPL	Supply of CP material	Apr, 2005	Egypt
61	EMC	EPC project for cathodic protection of crude tanks farm	Apr, 2005	Egypt
62	Petromaint	Engineering, manufacture and design of GPC vessels anodes	May, 2005	Egypt
63	MSD	Cairo North Phase II Power Station Corrosion Control Services	June, 2005	Egypt
64	Agiba	Meleia El-Hamra 16" pipeline CP survey and repair	July, 2005	Egypt
65	ABB	6"and 4" gas pipeline CP system- EPC project	July, 2005	Egypt
66	Bechtel	E-LNG Corrosion Control Consultancy	Aug, 2005	Egypt
67	GPC	Supply of CP materials	Sep, 2005	Egypt
68	MSD/CCC	CP system for U/G piping	Nov. 2005	Egypt
69	ELNG	Training and site services	Dec, 2005	Egypt
70	Petrojet	Karama Pipeline Survey	Jan, 2006	Egypt
71	Petrojet	EPC project for internal cathodic protection for Karama tank farm	2006	Egypt
72	Petrojet	Karama Pipeline Cathodic Protection Materials Supply	March, 2006	Egypt
73	Petrojet	Khalda project cathodic protection materials	April, 2006	Egypt
74	Rashpetco	Supply and design of internal anodes system	May, 2006	Egypt
75	Petrojet	Aqaba Pipeline Cathodic Protection	May, 2006	Jordan
76	Agiba	El-Hamra pipeline CP survey	Dec, 2006	Egypt
77	GASCO	Hurghada/Shukeir Pipeline cathodic protection material supply	On-going	Egypt
78	GASCO	Taba/Sharm pipeline cathodic protection materials supply	Dec 2006	Egypt
79	PPC	Supply of cathodic protection material	2006	Egypt
80	Petrojet	Centurion tanks internal cathodic protection	Nov 2006	Egypt
81	EMC	Manufacture and supply of GPC internal anodes	Nov 2006	Egypt
82	Petrojet	South Dabaa cathodic protection material	Dec 2006	Egypt
83	IETOS	NOSPCO Internal Cathodic Protection System	Dec 2006	Egypt
84	Petrojet	Khalda cathodic protection material supply	Jan 2007	Egypt
85	Petrojet	GPC pipeline cathodic protection	Jan 2007	Egypt
86	ICB	Fareskoor water intake plant cathodic protection design	Jan 2007	Egypt
87	Petrojet	Sacrificial anodes supply	Feb 07	Egypt

No.	Client	Job Description	Year	Location
88	Petrojet	CP for Qarun P/L	March 2007	Egypt
89	GPC	Design, Manufacture and Supply of 20 transformer rectifiers	April 2007	Egypt
90	GPC	Supply of 120 sacrificial and impressed current anodes	May 07	Egypt
91	TAKREER	Survey, design, supply of materials, installation, commissioning and startup of Abu-Dhabiu Refinery CP System	June 07	UAE
92	FANOY Gas	Impressed current CP for five gas pipelines	July 07	UAE
93	TAKREER	Al-Ain tank CP	Aug 07	UAE
94	Fanoy Gas	Guradian Factory Gas Pipeline System	March 2008	UAE
95	Jannah-Hunt	Complete corrosion control for Jannah-Hunt sites	Apr 08	Yemen
96	Sidi Krir	Sidi Krir 3&4 CP system for underground piping and storage tanks	Dec 08	Egypt
97	CHP	Damietta Tug Kay CP System	Jan 09	Egypt
98	ELNG	CP survey and restudy	Nov 08	Egypt
99	Rashpecto	DCVG/CIPS for cross country pipelines	Mar 09	Egypt
100	HA	Nubariyya II Power Plant Cathodic Protection System	Feb 09	Egypt
101	Petrojet	Sonatrach CP systems	Jan 09	Algeria
102	Eshpetco	Tank 23 CP system	Jan 09	Egypt
103	MFO	Sharm gasoline pipeline CP	Feb 09	Egypt
104	Petrogulf	Platforms WPA-WPB Cathodic Protection Systems	Mar 09	Egypt
105	GASCO	Abu-Hommos Pipeline CP	Jan 09	Egypt
106	GASCO	Abu-Sultan CP	Jan 09	Egypt
107	Orascom	El-Tebbin Power Plant CP System	Jan 09	Egypt
108	Archirodon	West Cairo Power Plant CP System	Feb 09	Egypt
109	TECNET	El-Atf Power Plant CP System	Feb 09	Egypt
110	PTB/PTMT	Wadi Feiran CP Upgrade	Mar 09	Egypt
111	SIDPEC	CP Material	Mar 09	Egypt
112	Mansoura Petroleum	CP Material	Mar 09	Egypt
113	PPC	CP Material Supply	Feb 09	Egypt
114	Orascom	Sidi Krir Power Plant	Mar 09	Egypt
115	EMC	Burj el-Arab Airport	Apr 09	Egypt
116	MSD	Museum of civilization	May 09	Egypt
117	GASCO	Sharm P/L CP Materials	June 09	Egypt
118	Petrojet	Khalda P/Ls CP Materials	July 09	Egypt
119	Petromaint	WEPCO El-Hamra P/L	Aug 09	Egypt

No.	Client	Job Description	Year	Location
120	EMC	GPC Slender Offshore Anodes	Sep 09	Egypt
121	Towngas	CP Materials	Oct 09	Egypt
122	Al-Husam	Al-Muneira Island CP	Nov 09	UAE
123	GPC	CP Materials	Dec 09	Egypt
124	EMC	GPC Anodes Supply	Jan 10	Egypt
125	Sidpec	Supply of TRs	Feb 10	Egypt
126	GPC	Supply of 170 anodes Al-In-Zn	Mar 10	Egypt
127	Petrojet	Khalda CP Systems	Apr 10	Egypt
128	MSD	Museum of Civilization CP System	May 10	Egypt
129	MSD	National Theatre CP System	June 10	Egypt
130	West Bakr	TR Supply	July 10	Egypt
131	East Delta Electrical	CP & Paint System for Tanks	Aug 10	Egypt
132	Petromaint	WEPCO Terminal	Aug 10	Egypt
133	AMANCO Steel	5 th Settlement Emarat Masr Fuel Station	Sep 10	Egypt
134	Arab Contractors	El-Saff Water Station CP System	Oct 10	Egypt
135	Burullus Petr Co	Pipelines Coating Survey and Repair	Nov 10	Egypt
136	Intergen	CP System Revamp	Dec 10	Egypt
137	Intergen	4" SS P/L CP System	Jan 11	Egypt
138	ECG	Qatar Petroleum Corrosion Control Study for Concrete Rebar	Feb 11	Qatar
139	Al-Jazeera	Total-Yemen, Downhole Corrosion Control Study	Feb 11	Yemen
140	ECG	Sweidieh Corrosion Control Engineering Package	March 11	Syria
141	ARCHO	Cairo West Corrosion Control Services	April 11	Egypt
142	ECG	Heglig Tanks Cathodic Protection Consultancy	April 11	Sudan
143	Al-Jazeera	Total-Yemen, CP installation services	April 11	Yemen
144	MSD/HA	Mohamed Aly Palace (Manial) underground piping cathodic protection system	May 11	Egypt
145	MSD/HS	Al-Sokhna PP cathodic Protection System	June 11	Egypt
146	Khalda Petroleum	Supply of Strategic Cathodic Protection Inventory	July 11	Egypt
147	DIG	E-Lab Cathodic Protection for Firewater ring components	Aug 11	Egypt
148	Pirelli	Supply of cathodic protection system for gas lines	Sept 11	Egypt
149	Intergen	Port Said PP, Supply of CP system for water intake	Sep 11	Egypt
150	Intergen	Gulf of Suez Supply of CP system for water intake	Sep 11	Egypt
151	Oyoun Moussa	Cathodic Protection Survey and Recommendations for Repair	Sep 11	Egypt

No.	Client	Job Description	Year	Location
152	GPC	CP Materials supply for wellheads	Oct 11	Egypt
153	Petrojet	KPC facilities CP materials Supply	Nov 11	Egypt
154	EMC	Supply of 9 ton CP aluminum anodes	Dec 11	Egypt
155	EMC	Mansoura Petroleum Corrosion Monitoring Services	Jan 12	Egypt
156	Petrojet	Sumed CP System supply	Jan 12	Egypt
157	Misr-Consult	New Cairo water intake P/L CP Study	Jan 12	Egypt
158	East Delta	Abu-Sultan Power Plant CP Retrofit	Feb 12	Egypt
159	MSD/CCC	Al-Sokhna Power Plant Cathodic Protection	March 12	Egypt
160	Orascom CI	North Giza PP Cathodic Protection	March 12	Egypt
161	Archirodon	Cairo West Cathodic Protection Retrofit	March 12	Egypt
162	Orascom CI	Sidi Krir PP CP Retrofit	March 12	Egypt
163	Pirelli	Supply of gas line CP Materials	April 12	Egypt
154	EMC	Design, supply and installation for COOP El-Max Line	May 12	Egypt
155	Archo	Design, supply and installation of Benha Power Plant CP System	June 12	Egypt
156	PMS	Design, supply and installation of PMS 12 CP System	July 12	Egypt
157	GPC	Design, manufacture and supply of GPC marine anodes	Aug 12	Egypt
158	East Delta Electr.	Cathodic protection systems revamp at Abu-Sultan Power Plant	Sept 12	Egypt
159	KPC	Manufacture and Supply of CP Systems	Oct 12	Egypt
160	SUCO	DCVG/CIPS services for Ras Badran Pipelines	Oct 12	Egypt
161	Dana Gas	Down hole equipment materials Selection and corrosion study for UAE Dubai fields	Oct 12	UAE
162	MIC	Supply of CP Equipment	Nov 12	Egypt
163	Concord	New Cairo Pump Stations CP System design, supply and installation	Dec 12	Egypt
164	SUCO	DCVG/CIPS of Hurghada Fields pipelines	Jan 13	Egypt
165	Mansoura Petroleum	CP Revamp of Mansoura Fields Pipelines	Feb 13	Egypt
166	Petrojet	Supply of CP Materials	March 13	Egypt
167	MIC	Design, supply and installation of a sacrificial CP system for 6 th of October water supply crossings	Apr 13	Egypt
168	Petrojet	Supply of CP materials	May 13	Egypt
169	PMS	Barge 12 CP	June 13	Egypt
170	PMS	Barge 14 CP	July 13	Egypt
171	PMS	Barge 5 CP	August 13	Egypt
172	PMS	Barge 11 CP	Sep 13	Egypt
173	Petrojet	Various CP supplies	Oct 13	Egypt

No.	Client	Job Description	Year	Location
174	GPC	Various CP Marine Anodes	Nov 13	Egypt
175	PMS	Barge 46 CP	Dec 13	Egypt
176	EMC	Petrobel Offshore Risers CRAS	Jan 14	Egypt
177	West Bakr	Various CP Supplies	2014	Egypt
178	Suez Gulf Power	Various CP Supplies	2014	Egypt
179	PPC	Supply of CP Materials	2014	Egypt
180	PMS	Barge 42 CP	2014	Egypt
181	HA	Hurghada Tanks CP PP	2015	Egypt
182	HA	Sharm El-Sheikh PP Tank CP	2015	Egypt
183	OCI	Assiut PP Cathodic Protection	2015	Egypt
184	Suez Steel	Plant underground piping CP	2015	Egypt
185	PSP	Al-Dewaniyyah PP CP	2015	Iraq
186	PSP	Attaqa PP CP	2015	Egypt
187	PSP	Mahmoudiyya PP CP	2015	Egypt
188	HA/OCI	6 th October Raw Water Pipeline CP	2015	Egypt
189	Chevron	Engineering Services	2015	Egypt
190	Towngas	Supply of CP Anodes	2015	Egypt
191	Towngas	Supply of CP Materials	2015	Egypt
192	Petrojet	Supply of CP Materials	2015	Egypt
193	GASCO	CIPS/DCVG Training	2015	Egypt
194	Orascom and Hassan Allam JV	Impressed Current Cathodic Protection System For 6th Of October Water Intake Pipeline	2016	Egypt
195	Orascom	New Assiut Simple Cycle Power Plant1000 Mw Plant Cathodic Protection System	2016	Egypt
196	Archirodon	Banha Power Plant Cathodic Protection System	2016	Egypt
197	Orascom	Burullus Power Plant Cathodic Protection System	2016	Egypt
198	Hassan Allam	Hurghada and Sharm El-Sheikh Power Plants - Break Water Tanks Internal Cathodic Protection System	2016	Egypt
199	Orascom	Giza North Cathodic Protection System	2016	Egypt
200	PSP	Al- Mahmoudiyyah Power Plant Cathodic Protection System	2016	Egypt
201	PSP	Ataqa Power Plant Cathodic Protection System	2016	Egypt
202	Orascom	West Damietta Power Station Cathodic Protection System For Underground Piping	2016	Egypt
203	Archirodon	Al-Shabab Power Plant Cathodic Protection System For Underground Piping	2016	Egypt
204	Archirodon	Cairo west Power Station Cathodic Protection System	2016	Egypt

No.	Client	Job Description	Year	Location
205	EMC	Sacrificial Anodes Sleds Construction & Installation For NAQ PID Platform (Abou Qir Company)	2016	Egypt
206	CHEVRON	Engineering Services	2016	Egypt
207	Suez Steel	Underground Pipelines Cathodic Protection Route Survey	2016	Egypt
208	PSP	Beni Suef Power Plant Cathodic Protection System	2016	Egypt
209	CONCORD	Cathodic Protection system for a 1000mm Water Pipeline located in New Cairo	2016	Egypt
210	CONCORD	6th of October CS Segment 830m Length	2016	Egypt
211	WEST BAKR	Cathodic Protection System	2017	Egypt
212	Mansoura Petroleum	facilities CP revamp	2017	Egypt
213	BAPETCO	Obayied Pipeline CIPS & DCVG	2017	Egypt
214	TOWNGAS	Different Materials Supply	2017	Egypt
215	PETROJET	Different Materials Supply	2017	Egypt
216	PPC	Different Materials Supply	2017	Egypt
217	KHALDA	Different Materials Supply	2017	Egypt
218	GASCO	Different Materials Supply	2017	Egypt
219	PMS	Different Materials Supply	2017	Egypt
220	Bapetco	Bed3 CP Survey	2017	Egypt
221	Orascom	Assiut Power Plant Sheet Piling CP	2018	Egypt
222	UGDC	Port Said & Damietta Plants CP Surveys	2018	Egypt
223	UGDC	Export Pipelines CIPS &DCVG	2018	Egypt
224	Orascom	Assiut PP U/G Piping CP	2018	Egypt
225	ELNG	FW Tank Internal CP	2018	Egypt
226	ELNG	External CP System Revamp for FW tank	2018	Egypt
227	Enerdyn/GPC	Corrosion Monitoring System Supply	2018	Egypt
228	Towngas	CP system revamp for East Cairo Pipelines	2018	Egypt
229	Towngas	Supply and Training of Pin Brazing Systems	2018	Egypt
230	Archirodon	MIDTAP Jetty CP for Mooring Dolphin and Intermediate Structure	2018	Egypt
231	Petrojet	Numerous materials orders	2018	Egypt
232	GPC	Material Orders	2018	Egypt
233	OCA	Cairo Airport Terminal 2 Pipeline CIPS&DCVG	2018	Egypt
234	Total/Misr Petroleum	Cairo Airport CP Survey	2018	Egypt
235	EMC	GUPCO Antifouling System	2018	Egypt

No.	Client	Job Description	Year	Location
236	EMC	West Bakr CP System Revamp	2018	Egypt
237	EMC	Petrobel Abu Rdeis Pipelines CISP & DCVG Survey	2018	Egypt
238	Petrosafe/Petrojet	Sonker Pipelines AC survey and Study	2018	Egypt
239	PPC	AC Study for New Cairo Pipelines	2019	Egypt
240	BAPETCO	Bed3 Cathodic Protection Upgrade EPC Project	2019	Egypt
241	Orascom	Assiut Power Plant Cathodic Protection System for the Sheet Piling	2019	Egypt
242	Misr Petroleum	Asswan and Luxor Cathodic Protection Services	2019	Egypt
243	Concord	6 th October Treated Water Pipelines Cathodic Protection	2019	Egypt
244	Concord	New Capital Treated Water Pipeline Cathodic Protection	2019	Egypt
245	Khatib and Alami	Advanced Cathodic Protection Training	2019	Egypt
246	ABB/Petrobel	Feiran Storage Tanks CP Systems	2019	Egypt
247	Petrojet-COOP	Rubeiky Pipelines Cathodic Protection System	2019	Egypt
248	Mansoura Petroleum	Corrosion Monitoring Survey	2019	Egypt
249	Ethydco	Corrosion Monitoring Services	2019	Egypt
250	Solvay	Corrosion and NDT services for Gas Pipelines	2019	Egypt
261	Rashpetco	CIPS and DCVG Survey for all Rashpetco and Burullus Pipelines	2019	Egypt
262	Towngas	Supply of Towngas strategic Inventory of Cathodic Protection Materials Requirement	2019	Egypt
262	Mokhtar Ibrahim	Cathodic protection for the 6 th October Water Treatment Plant	2019	Egypt
263	Petromaint	Cathodic Protection Consultancy- El-Hamra Terminal	2019	Egypt
264	EMC	Gupco Anti-fouling Unit Repair	2019	Egypt
265	PPC	Supply of CP Materials	2019	Egypt
266	GUPCO	Supply of CP Materials	2019	Egypt
267	West Bakr	Supply of CP Materials	2019	Egypt
268	EPRM	MIDTAP Jetty Cathodic Protection Retrofitting	2020	Egypt
269	Rashpetco	Pipelines Coating Defects Repair	2020	Egypt
270	Petrojet	NPC Engineering Services	2020	Egypt
271	Bapetco	CIPS and DCVG for Western Desert 1440 Km Pipelines	2020	Egypt
272	Bapetco	Karam Test Separator Advanced NDT	2020	Egypt
273	KPC	Supply of CP Materials	2020	Egypt
273	Petrojet	Supply of CP Materials	2020	Egypt
274	Petrojet	Ameriya Strategic Tanks CP	2020	Egypt
275	Petrojet	New Admin Capital CP System	2020	Egypt

No.	Client	Job Description	Year	Location
276	Alarabiya CO.	Cairo Ring Road Water Pipeline CP	2020	Cairo
277	Al-Basmala	Air Liquide Dual Pipelines	2020	Sokhna

Engineering Projects

No.	Client	Scope	Year	Location
1	Petrojet/Nasr Petroleum	New Crude Distillation Unit Materials and Corrosion Engineering Scope	2020	Egypt
2	Petrojet/Nasr Petroleum	New Crude Distillation Unit Loss Prevention Engineering Scope	2020	Egypt
3	Petrojet/Nasr Petroleum	New Crude Distillation Unit Fired Equipment Engineering Scope	2020	Egypt
4	Petrojet/Nasr Petroleum	New Crude Distillation Unit Materials Piping inclusive of: - Piping Design - Piping Stress Analysis - 3D Modelling Engineering Scope	2020	Egypt
5	Petrojet/Nasr Petroleum	Provision of 90 Engineering Consultants to work as part of Petrojet's EPC team	2020	Egypt
6	Petrojet/Midor	Hot Box Drum (pressure vessel), Finite Element Analysis	2020	Egypt
7	Petrojet/MDF	Structural Steel Engineering	2020	Egypt

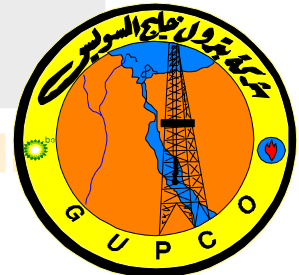
Assets Integrity Management

No.	Client	Scope	Year	Location
1	EMC/Petobel	Corrosion Risk Assessment for all Petrobel Riser	2017	Egypt
2	Petrojet/NPC	Risk Based Inspection (RBI)	2020	Egypt
3	Dana Gas	Materials Selection for Downhole Casings and Equipment	2018	UAE
4	On-Spec	Materials Selection for Wastani Fields	2020	Egypt
5	Mansoura Petroleum	Corrosion Monitoring for Mansoura Fields	2020	Egypt
6	UGDC	Pipeline Integrity Survey Campaigns	2020	Egypt
7	BAPETCO	Advanced NDT for Assil and Karam Separators	2019	Egypt
8	BAPETCO	On-Line Lead Arrest for 20" BVS	2020	Egypt
9	BAPETCO	Advanced NDT Bed-3	2020	Egypt
10	PPC	AC Interference Study	2020	Egypt
11	Petrojet	MDF Materials Selection Development	20520	Egypt

10	EDRA	Port Said East Power Plant- Seawater Intake Integrity Assessment and Blockage RCA	2020	Egypt
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7. Major Clients:



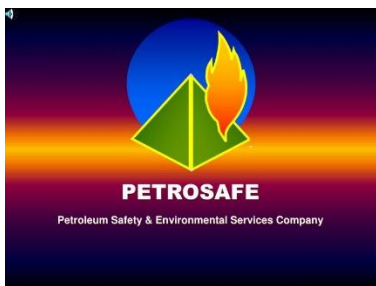


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