



ABA

Oil & Gas Services

ABA OGS

www.aba-ogs.com



ABA OGS, Your Partner for Operations Excellence



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Field Of Expertise

ABA Oil & Gas Services (ABA OGS) offers Construction, Commissioning, Start-up & Operation Management & Services of all Oil & Gas onshore and offshore Installation, Brownfield & Greenfield projects, Upstream & Downstream facilities, such as:

- ☞ Production & Utilities Platforms.
- ☞ Topsides Modules.
- ☞ FSO & FPSO
- ☞ Process Modules.
- ☞ Oil & Gas Treatment Plants
- ☞ Onshore / Offshore Gas & Oil Recovery Facilities
- ☞ Condensate Stabilization
- ☞ LNG Plant, LPG plant
- ☞ Power Plant
- ☞ Refineries & Petrochemical Plants
- ☞ Gas Compression
- ☞ Pumping Station & Metering
- ☞ Pipelines, Sea-lines
- ☞ Water Treatment plant



This includes all aspects from Bidding, Stage, Engineering Phase through Procurement, Construction, Mechanical Completion, Pre-Commissioning, Commissioning, Start-Up and normal routine Production / Operation of the installation including all related procedures , planning, sequences, execution, and handover documentation.





ABA Oil & Gas Services (ABA OGS) offers Management & Services during the following project phases and during Routine Operation:

- ☞ Construction, Preservation, Mechanical Completion
- ☞ Pre-commissioning & Commissioning,
- ☞ Start-up
- ☞ Operation , Inspection & Integrity
- ☞ Planned Shutdown
- ☞ Decommissioning, Dismantling & Relocation

Our Scope of services covers the following tasks:

1. Preparation (Procedures, Manuals, Deliverables; dossiers; Execution Plans; Planning, sequences, budge estimation, etc
2. Management & Supervision
3. Execution & Handover

For Specific Execution Mechanical Completion, Pre-commissioning & Commissioning Activities (Such as Chemical Cleaning operation, Flanges Management, N₂ / N₂He Leak test; etc....) which require materials, equipment, etc ... **ABA OGS** has an official Partnership / Joint Venture with International Specialist Contractor

ABA OGS proposes some additional services to his customers, such as:

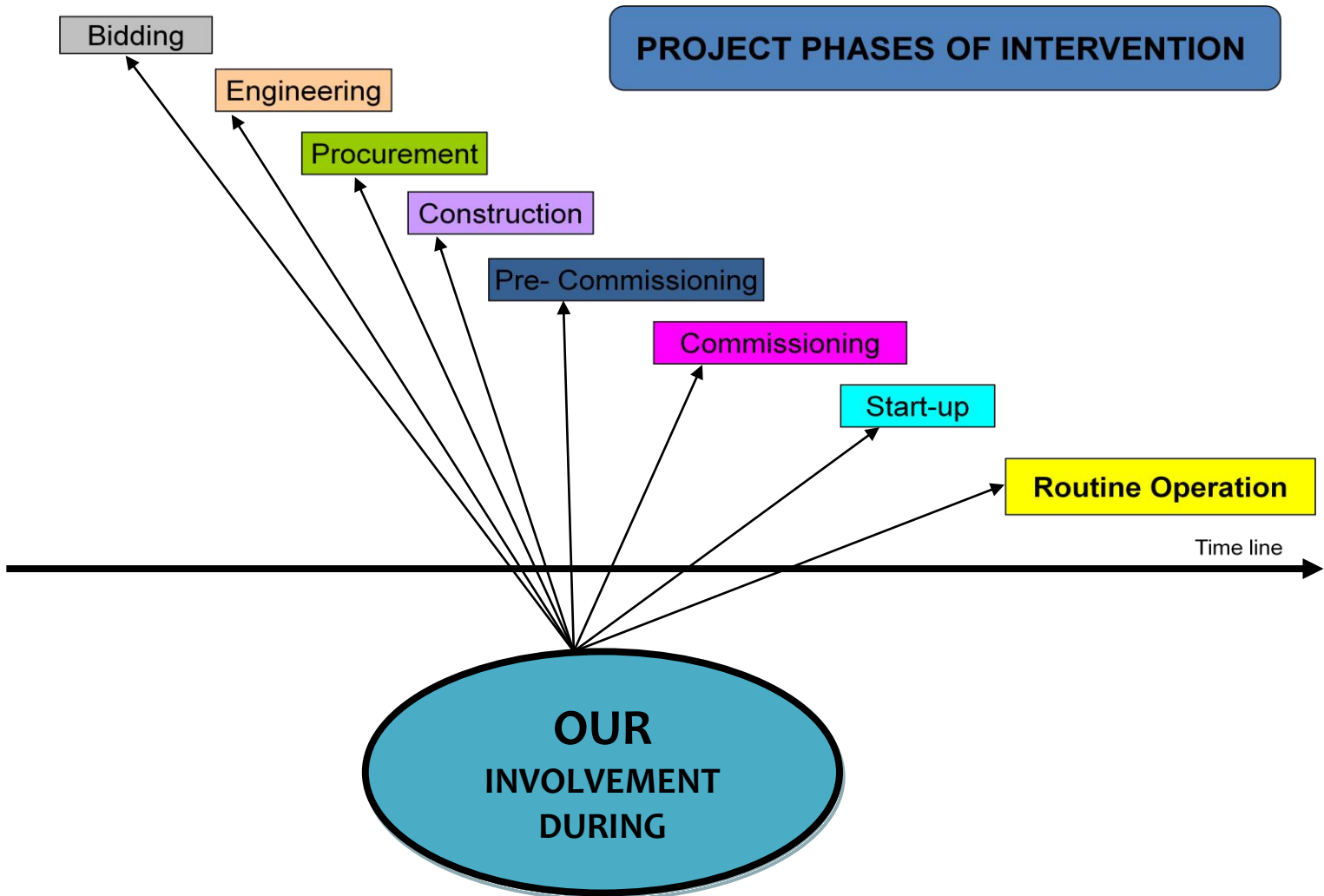
- ☞ QAQC & certification
- ☞ Safety Engineering & Operation Services
- ☞ Training & Coaching of Personnel's,
- ☞ Seminars Presentation
- ☞ Audits & Evaluation
- ☞ Budget Estimation
- ☞ Staffing support & hiring of Qualified personnel local & Expatriate

ABA Oil & Gas Services Could Provides dedicated Commissioning software for the Monitoring & Management of the Mechanical Completion, Pre-commissioning & Commissioning activities including the punch list management. There are few Commissioning software which can be used such as ICAPS, Win PCS, Petro PCS, ZENATOR





Project Phases Of Intervention





Health – Safety – Environment Policy

Our avowed policy at ABA OGS is to remain committed to health, safety, environment prior to commercial gain. Our objective is to be a world class company through strong belief in people and a desire to make the difference real in the world by providing quality services commensurate with the applicable legal and other requirements and in consonance with the core values of integrity, fairness, accountability and social responsibility. Our statement of policy is:

- ❖ To provide adequate control of the health and safety risks created by our work activities
- ❖ To consult with our personnel(including contracted personnel's)on all matters affecting their health and safety
- ❖ To construct and Commission & Startup Safely the new installation with applicable national and international HSE Standards.
- ❖ To ensure safe handling and use of substances
- ❖ To provide information, instruction and supervision for employees and contractors
- ❖ To ensure that all employees and contractors are competent to their tasks
- ❖ To prevent accidents and causes of work related ill health
- ❖ To ensure safe and healthy working conditions;
- ❖ To protect the environment & dedicate efforts to prevent pollution;
- ❖ To review and revise this policy for continual improvement at regular intervals
- ❖ To ensure that standards of Safety, Health and Welfare must be maintained at the highest level
- ❖ To ensure Contract staff will be expected to comply fully with all health and safety regulations at the clients' offices, sites or offshore installations.
- ❖ That Safety on site is fundamental to operational efficiency.
- ❖ Those Statutory obligations are the minimum standard for which all employees of the Company are responsible and the aim must be to attain higher standards.
- ❖ That an integral part of effective management in the industry is an awareness that high standards of Safety, Health and Welfare are required.
- ❖ Should any employee be found to have been culpably negligent in the matter of health and safety, or to have contributed to an accident through personal negligence, then that person will be subject to Disciplinary Procedure, which could result in dismissal.
- ❖ That employees at all levels, wherever employed, should receive sufficient training in the Safety, Health and Welfare aspects of their work to ensure that they are aware of potential hazards and the action required reducing risk to a minimum.

It is only with the active co-operation of all employees that good health and safety conditions may be attained.

Ahmed BEN AMOR

Managing Director



ABA OGS's HSE GOLDEN RULES

1. **Before Starting any job/Task/Activity** - Think **HIRA**

- ☞ **Hazard** ➔ **Must be aware of Hazard**
- ☞ **Identify** ➔ **Identify the Hazard**
- ☞ **Risk** ➔ **Is there any Risk**
- ☞ **Assess** ➔ **Assess the Risk**
 - **What could go wrong**
 - **Think of the worst**

2. **Evaluate & Decide How to Reduce the Risk**

- ☞ **Do I have adequate skills and training**
- ☞ **Do I have proper PPE's and tools**

3. **Implement Safe Operations**

- ☞ **Ensure job is done Safely**
- ☞ **Ask for Assistance if needed**
- ☞ **Do Not Proceed unless everything is safe**

4. **Permit To Work (PTW)**

- ☞ **Do Not Perform work without a valid work permit including Job Risk Assessment; hazards Assessment, Safe Work procedures**

5. **Personnel Protective equipment (PPE)**

- ☞ **Do Not access installations or perform work without waering general or task specific PPE**

6. **Lockout / Tagout**

- ☞ **Ensure hazardous energy is isolated before the start of any work**



7. *Confined Space*

- ☞ *Do Not Enter a confined space until isolation has been verified and the atmosphere checked*

8. *Stop Unsafe Act / Situation*

- ☞ *Discuss*
- ☞ *Correct*
- ☞ *Anomaly Report*

9. *Chemical handling*

- ☞ *Read the MSDS and follow recommendations for chemical handling*

10. *Change Management*

- ☞ *Do Not make any technical or organizational changes without prior authorization*

Safety:

For me, for you....., for All..... Everyday....., All the time

An intense focus on doing the job right has led to our impression Zero LTI record coupled with our Zero Environmental Incidents,

ABA OGS will provide our clients an elite service



CONSTRUCTION-COMMISSIONING-STARTUP-OPERATION MANAGEMENT & SERVICES

Commissioning of a new plant facility is a high risk. Engineers have to work under time constraints and have to simultaneously execute many complex processes which could go wrong. One of the biggest challenges is commissioning brown field projects where a new facility has to be integrated with existing facilities.

Commissioning & Start-Up is the last visible step of a project execution process. It moves the project from the “end of construction” to the “commercial operation” status. This phase covers initial and primary dynamic tests, including guarantee performance tests.

Initiated right from the beginning of design phase, Commissioning & Start-Up activity aims to validate the construction integrity and confirms that the facilities are delivered in a safe, reliable and operational condition for a complete customer satisfaction.

Our approach to commercial readiness encompasses a support system to take a facility from construction to production. Start-up requires trained personnel, functional equipment and fully tested systems. Our commissioning team, partnering with client personnel, builds valuable skills that remain on-site following the transfer of care, custody and control.

ABA OGS provides all tests necessary to transfer a plant from construction to operations, in the areas of instrumentation, electrical, mechanical/HVAC, safety, telecommunication and piping/process;

The Objectives of the commissioning and Start-up phase are to:

- ✓ Confirm that the system has been constructed as designed
- ✓ Check that the equipment operates as specified
- ✓ Facilitate making any necessary modifications in the system based on observations of Site conditions that are different than expected during system installation
- ✓ Gather and evaluate initial operational data

Execution in a planned and controlled manner

ABA OGS executes the Commissioning and Start-Up services in a planned, controlled and quantified manner with the safety of his employees, customers, suppliers and subcontractors as a primary objective

ABA OGS has the tools needed to ensure the proper installation and operation of systems prior to the handover to the end user. Our successful track record of testing and commissioning procedures helps develop a steadfast facility commissioning plan and comprehensive schedule to meet our client needs.

Establishing milestones and identifying critical paths to accomplish the successful integration of commissioning activities have helped us become an industry leader in construction projects. With a company-wide focus on safety and quality, our capabilities include design, procurement and construction execution in addition to the start-up required to create a thriving project.

ABA OGS provides expertise and support in the areas of Pre-Commissioning, Commissioning and Start-up Preparation, Planning and Execution



Definition of Acceptance

The completion Activities are separated into different phases called: Mechanical Completion, Pre-commissioning,

Commissioning, Start-up, Test Run, Provisional Acceptance and final Acceptance.

This split roughly corresponding to static and dynamic tests phases respectively, However, Prior to start evaluating and developing the Pre-commissioning, Commissioning and Start-up Strategy, Execution Plan, Manuals & Procedures, Planning, etc..., we need to clearly understand from the Client "COMPANY" the Definition of Acceptance of:

- Mechanical Completion & Mechanical Completion Certificate.
- Pre-commissioning & Ready For commissioning
- Commissioning
- Start-up and Test Run & Performance Tests
- Provisional Acceptance
- Final Acceptance



Definition of Acceptance of above Terms is different From Company (Client) to other. However, there are only two (2) Main Scenarios of Definitions of Acceptance which are summarized on the following diagrammatic

Definition Of Acceptance: completion activities (ABA OGS could propose to the Client 2 types of Diagrammatic Definition of Acceptance which the most used in Oil & Gas industry)

Commissioning methodology

- **4 Phases:** Main Completion activities, Sorted by Sub-systems in-line with Start-up Sequence to reach Ready For Star-up (RFSU)
 - Preparation (definition of commissioning strategy, Documentation, Schedule)
 - Mechanical Completion Execution
 - Pre-commissioning Execution
 - Commissioning Execution
- **System approach:** Integrating all constraints (construction work progress, multidiscipline, start-up sequence, safety, safety...), splitting the installation into systems with their start-up sequence.
- **Commissioning Tool:** Commissioning Software (ICAPS, Win PCS, Zenator,)
 - ☞ Integrated Documentation (Check and test sheets)
 - ☞ Punch-list management
 - ☞ Dossiers and certificates





Commissioning critical issues

- Commissioning is “seasonal”
 - ⇒ Permanent Commissioning personnel can be difficult to justify for an Engineering Contractors, or an operator
- Operator / EPCC personnel are frequently over-allocated at that time.
 - ⇒ Problems with recruitment, management, consistency, commitment
- Many contractor companies & end users have little experience of commissioning database which is necessary on commissioning projects.
- Respect of commissioning is a specialized area of a project
- Respect of Commissioning and related activities milestones is key to project completions
 - ⇒ Mechanical completion, Ready for Start-up, Handover
- Short timescale with respect to other project phases
- Happens towards the end of a project, usually when delays are short and budgets reduced
- Deals with a lot of short timescale activities: large quantities of documentation
- Many players interaction: Engineering companies, PMC, EPCC Contractors, Vendors, Operations & Maintenance Contractors, Client.
- Importance to the successful start-up of the plant in due time

Key factors of success

1. **Effective preparation and planning** - to start early in the project
2. **Management** of activities and documentation
3. **Experienced** personnel





ABA Oil & Gas Services capabilities

- ☞ Commissioning & Startup is our core business
- ☞ Familiar with commissioning methodology and software of most operating companies and EPC Contractors: Total, Shell, BP, Bechtel, Technip, etc...
- ☞ Involved in upstream and downstream operation
- ☞ Specialized commissioning personnel / teams,
- ☞ Partner with Specialist Contractors for Specific Operations & Tests (Weatherford, TDW, Forequest Energy, Halliburton)
- ☞ Commissioning software:
 - Large library (documentation, procedures, test sheet, etc)
 - Structured database, interactive functions including reporting punch list, planning, resource, logistic

Commissioning & Startup of facilities at reduced costs without jeopardizing Schedule, Health, Safety & Environmental, Quality targets

Commissioning software

Commissioning software is a tool for the development, management and documentation of a Commissioning project.

The Commissioning software combines a database of points to be commissioned with libraries of standard forms and project documents under a suite of software programs.

ABA Oil & Gas Services Could Provides dedicated Commissioning software for the Monitoring & Management of the Mechanical Completion, Pre-commissioning & Commissioning activities including the punch list management.

There are few Commissioning software which can be used such as ICAPS, Win PCS, Petro PCS, Falcon Global ZENATOR





ABA Oil & Gas Services value Proposal

Human Resources

- ☞ Permanent specialized personnel in Commissioning
- ☞ Commissioning career path development
- ☞ Team mobilization aligned with project schedule

Technical Support

- ☞ Scheduling and management of manpower and logistics
- ☞ Commissioning software: preparation, management, control and documentation of the Pre-Commissioning & Commissioning
- ☞ Technical library of test sheets, procedures, specifications and associated documents

Extended Capabilities

- ☞ Interactive operating manuals
- ☞ Operation and Inspection Engineering
- ☞ Operation and Inspection contracts





Client's Benefits:

- **Optimization of the project duration between installation and start-up**
 - ⇒ **SHORT PLANNING**
 - ⇒ **LOW COST**

- **Traceability with associated documentation**
 - ⇒ **HIGHER EFFICIENCY**
 - ⇒ **RELIABLE OUTCOME**

- **Smooth transfer of the plant from the construction to the operations, in full confidence with all the required safety**
 - ⇒ **SAFETY**





Detailed Scope Of Service

During Project Enquiry / Tendering & Bidding Stage

- ☛ **ABA Oil & Gas Services (ABA OGS)** will prepare the Pre-commissioning & Commissioning & Start-up Commercial input during tender stage:
- ☛ Estimated Man-hours for the preparation & Execution.
- ☛ Estimated Man-power for the preparation & Execution.
- ☛ Requirement, tools, consumables, Spares parts, temporaries,
- ☛ Requirement for Vendor assistance and duration
- ☛ Requirement (scope of services) i.e N2 or N2He Leak testing, Chemical cleaning, Drying-out, etc....
- ☛ Requirement for pipeline Pigging & testing & dewatering, etc...
- ☛ Establish detail Commissioning & Start-up Execution Plan including Sequence & Planning.
- ☛ Prepare the Complete Scope Of Work (SOW) for each related Services for Call For Tender
- ☛ Contributor in evaluation of bids and supplier / Contractor or sub-contractors proposals.
- ☛ Assists Services Purchasing & Subcontracting Department for the definition of subcontractors scope of work;
- ☛ Prepares the Purchase Requisitions and Technical Evaluation falling within his sphere of responsibility.





Detailed Scope Of Service

During Project Detailed Engineering Stage

ABA Oil & Gas Services (ABA OGS) will review and comments the following Engineering Deliverables.

- ☞ P&ID's, PFD's, UFD's,
- ☞ Equipment data sheets and specification.
- ☞ Review Safety Concept & HSE Manual / procedures.
- ☞ Reviews the 3D Model for compliance with the pre-commissioning, commissioning, start up and Operation requirements and for accessibility & operability.
- ☞ Provide technical and operational input during Detailed Engineering to improve the effectiveness of the start-up period.
- ☞ Attend HAZOP meeting & Participate to HAZOP review meeting where deemed necessary;
- ☞ Recommended changes to P&IDs are for commissioning & Start-up & Operation requirement.
- ☞ Review Vendor's IOM Procedures / Manuals.





Detailed Scope Of Service

During Mechanical Completion Engineering Phase

Brownfield or Greenfield, Team Management's Construction & Mechanical Completion procedures and processes are the blueprint for safe and efficient execution of any construction work on your site. We accomplish this complex task by breaking the entire project into manageable sections and developing detailed procedures for each installation segment.

Particular attention is paid to the logical flow of your work, detailed asset allocation makes efficient use of available labor, lifting or hoisting equipment and simultaneous operations.

The professional onsite, hands-on installation supervisors at Team Management and Consulting have managed installation crews from every discipline found in the energy industry with outstanding results.

Safety first is not a buzz phrase at Team Management; it is our lifestyle. Job safety environmental analysis, complete scope of work limits, permit to work and ongoing situational awareness processes are a critical part of our management plan each day.

This integrated approach ensures that work is executed according to your company's requirements, after careful consideration is given to the hazards associated with construction work and the specific challenges found on an individual job site.

ABA Oil & Gas Services (ABA OGS) will review; approve & establish the following Construction Engineering Deliverables:

- **Systems / Sub-Systems List & Boundary limits (Process, Electrical, Instrument & Control, HVAC)**
- **Input into construction and Mechanical Completion schedules (to fit with commissioning sequence)**
- **Review & Approve the construction / Mechanical Completion schedule Review.**
- **Review & Approve the Inspection & Test Plan (ITP)**
- **Establish Review, Approve, General & Specific procedures the following Operations:**
 - ☞ **Piping Hydrotest & Pressure test procedure and the test packages.**
 - ☞ **Water Cleaning, Flushing**
 - ☞ **Air & Steam Blowing**
 - ☞ **Air Gross Leak test procedure & test packages.**
 - ☞ **Electrical & Instrument Mechanical Completion test procedures**
 - ☞ **Sealines / Pipeline testing & Pigging procedures.**
 - ☞ **Project Safety practices (JSA, JRA,) related to construction & lifting operation**
 - ☞ **Chemical Cleaning operation**
 - ☞ **Flanges Management & Bolts Torquing**
 - ☞ **Hot Bolting Operation**
 - ☞ **Etc**





Detailed Scope Of Service

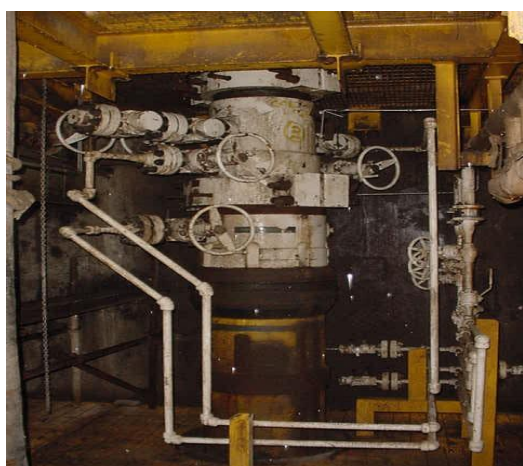
During Commissioning Engineering Phase

ABA Oil & Gas Services (ABA OGS) will prepare also during Engineering Stage all following Commissioning Deliverables:

- ☞ Responsible for performing technically correct commissioning procedures safely and within the deadlines, including the Q-records, as defined in the I&T program and I&T plans and within the defined time and cost frame.
- ☞ Prepare Pre-commissioning & Commissioning Manual/Strategy and guidelines for the project.
- ☞ Establish Pre-commissioning / Commissioning & Start up Execution plan.
- ☞ Develop Commissioning Organization & Job Description for Commissioning team members.
- ☞ Prepare & Approve the Split of Pre-commissioning and Commissioning scope for both onshore and offshore
- ☞ Prepare & Develop Commissioning HSE Manuals.
- ☞ Work with project HSE leadership to develop appropriate Job Safety Analysis (JSA's for commissioning their assigned team's activities. (These JSA's shall be part of developed commissioning procedures)
- ☞ Prepare and update Commissioning SIMOPS dossiers/procedures (in case in SIMOPS)
- ☞ Prepare & Approve the Pre-commissioning & commissioning coordination, witnessing, punch list and management procedures.
- ☞ Prepare & Approve of the marked-up P&ID's, TSLD & SLD (color) including the limit of sub systems.& Definition of sub-system boundary limits and commissioning packages within sub-systems.
- ☞ Establish & Approve the Systems / Sub-systems List.
- ☞ Deep knowledge of Opercom & ICAPS Software.
- ☞ Prepare & Approve Pre-commissioning / Commissioning Technical Database (ICAPS population).
- ☞ Prepare Pre-commissioning/Commissioning Dossiers/Procedures per subsystem including job cards.
- ☞ Definition of process systems pre-commissioning and commissioning scope within the sub-systems.



- ☞ **Prepare the initial start up procedure / sequence.**
- ☞ **Prepare & Develop Commissioning Planning (level 1, 2, 3), Sequence, logic, etc...**
- ☞ **Establish, Develop & Approve the Operational Test Procedures (OTP's)**
- ☞ **Establish, Develop & Approve the Energized Test Procedures (ETP's).**
- ☞ **Establish & approve the pre-start up activities procedures. (i.e leak test, drying, inerting.).**
- ☞ **Establish & Approve the chemical loading & Chemical Cleaning procedures**
- ☞ **Establish & Approve Steam Blowing procedures**
- ☞ **Develop & Approve Pre-commissioning/Commissioning requirements/tools/materials/consumables.**
- ☞ **Establish & Approve vendors mobilization plan / schedule.**
- ☞ **Develop & Approve Pre-commissioning/Commissioning planning/schedules/sequence/priority.**
- ☞ **Establish the spading plan when required**
- ☞ **Review the commissioning spare parts list.**
- ☞ **Prepare Commissioning Work Permit Procedure.**
- ☞ **Process / Mechanical / Electrical Isolation & de-isolation procedures (LOTO procedures).**
- ☞ **Inhibits & Overrides Procedures**
- ☞ **Develop & Establish Systems Hand-over procedures & Strategy.**





Detailed Scope Of Service

During Start-up Engineering Phase

ABA Oil & Gas Services (ABA OGS) will prepare also during Engineering Stage all following Start-up Deliverables:

- ☞ Develop Start-up Strategy / Guidelines / Execution plan.
- ☞ Develop Start-up Organization & Job Description for Start-up team members.
- ☞ Establish Start up Execution plan & Start-up dossier.
- ☞ Establish Start up Safety dossier.
- ☞ Define the Safety requirements of facilities start up
- ☞ Prepare / Write / Approve the start-up procedures of the different system/equipment of the new facilities
- ☞ Develop OPERGUID procedures (individual units start up procedures)
- ☞ Develop Operating Philosophy & Operating Manuals,
- ☞ Develop initial Start-up procedures & guidelines.
- ☞ Establish Sealines / Pipeline Dewatering & Pigging procedures
- ☞ Prepare and update SIMOPS dossiers/procedures (in case in SIMOPS)
- ☞ Prepare & develop Start-up Planning, Sequence, logic, etc....
- ☞ Approve all commissioning procedures & deliverables.
- ☞ Review the Start-up & 2 years spare parts list.
- ☞ Start-up consumables, tools, & requirement list.
- ☞ Develop Start-up Risk assessment.
- ☞ Develop new process tie-ins procedures (Hot, cold and hot tap tie-ins).
- ☞ Develop Shutdown testing procedures (Different level).
- ☞ Develop Start-up procedures after Shutdown (Different level).
- ☞ Process / Mechanical / Electrical Isolation & de-isolation procedures./plan
- ☞ Establish & Approve vendors mobilization plan / schedule.
- ☞ Prepare the test run (performance test procedures)
- ☞ Prepare preservation plans and procedures.
- ☞ Establish / Prepare Production ramp-up scheduling
- ☞ Master plant operational planning





Detailed Scope Of Service

During Equipment Factory Stage

ABA Oil & Gas Services (ABA OGS) will attend the Equipment's Factory Acceptance Test (FAT)

- Review / Comments the Factory Acceptance Test procedures.
- Inspection and conformity check of equipment @ vendor shop
- Witnessing of the equipment performance test at Vendor shop.
- Issue FAT punch list (if any).
- Initial FAT report.





Detailed Scope Of Service

During Mechanical Completion Execution Phase

MANAGEMENT / SUPERVISION SERVICES

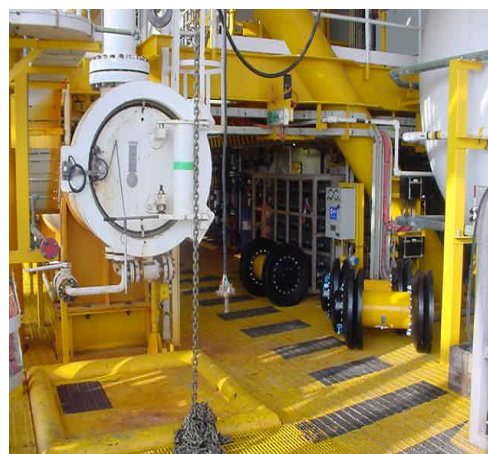
ABA Oil & Gas Services (ABA OGS) will manage & supervise the following Construction Execution (Mechanical Completion) Activities:

- ☞ Ensure Construction & Mechanical Completion activities are in line with the approved schedule
- ☞ Accept & Approve the Construction to achieve Mechanical Completion (MC)
- ☞ Approve Mechanical Completion Certificate (MCC) on a sub-system basis.
- ☞ Ensuring Execution Contractors fulfill their contractual obligations regarding Mechanical Completion (MC) and Pre-commissioning in order the Commissioning schedule will meet the target.
- ☞ Monitor progress of the Mechanical Completion activities and advise Construction team the correcting actions.
- ☞ Monitor the Categorization of the Mechanical Completion punch list items and Monitor the PL clearance.
- ☞ Responsible person to accept the Mechanical Completion of the various Plant systems / subsystems
- ☞ Witnessing & Approving the critical Mechanical Completion Activities

EXECUTION SERVICES

ABA Oil & Gas Services (ABA OGS) Have an Official International Partner, to assist us to execute the following specific services/ operations:

- ☞ Chemical Cleaning operation
- ☞ Lube Oil Flushing
- ☞ Pipeline Pigging & Testing
- ☞ Piping hydro-testing
- ☞ Flanges Management & Bolts Torquing
- ☞ Hot Bolting Operation
- ☞ Air & Steam Blowing
- ☞ Retro jetting operation
- ☞ Water Flushing & Cleaning Operation
- ☞ PSV calibration





Detailed Scope Of Service

During Pre-com & Commissioning Execution Phase

ABA Oil & Gas Services (ABA OGS) will Execute & Manage & Supervise the following Commissioning Activities:

- ☞ **Set up, Organize, Control and Manage Commissioning activities.**
- ☞ **Manage the site safety program including LockOut and TagOut**
- ☞ **Manage and track the project budget to earned values**
- ☞ **Manage subcontractors to meet project goals and milestones**
- ☞ **Manage the commissioning and startup budget**
- ☞ **Drive construction activities to meet project milestones**
- ☞ **Manage engineering issues & modification related to the RFI process**
- ☞ **Develop a comprehensive turnover package index package**
- ☞ **Develop, administer and track the site punch-list**
- ☞ **Coordinate third party testing and performance testing**
- ☞ **Assure necessary commissioning resources are identified and provided (Domestic, Vendor etc).**
- ☞ **Management, supervision and coordination of the Commissioning personnel (including Vendor specialists) during Commissioning.**
- ☞ **Checking and signing the work reports of the commissioning staff.**
- ☞ **Responsible for generating Commissioning Scripts of Process and Utility systems.**
- ☞ **Perform / Supervise / Manage all pre-commissioning & commissioning activities (E&I Testing, OTP execution, N2 or N2He high pressure Leak Test, Chemical loading, chemical cleaning etc...).**
- ☞ **Ensure all Pre-commissioning & Commissioning execution activities are carried out safely and in accordance with the project HSE plan**
- ☞ **Responsible for all the safety rules and regulations application during pre-commissioning & Commissioning Execution.**
- ☞ **Ensure that pre-commissioning & Commissioning and start up are carried out in accordance with Basis of Design, Company HSE and quality standards and relevant codes and specifications, and that reliability and operability are given priority.**
- ☞ **Primary contributor to HAZID, HAZOP, and other safety, regulatory, peer and operations reviews.**
- ☞ **Plant Commissioning & start up -TOTAL Specs and OPERCOM (ICAPS).**
- ☞ **Organize the daily commissioning meeting.**
- ☞ **Scheduling site pre-commissioning & commissioning works (planning, implementation and monitoring).**



- ☞ **Monitor commissioning team performance and assist commissioning support contractors in meeting objectives, to ensure that overall project cost and schedule milestones are achieved.**
- ☞ **Monitor and Manage Pre-commissioning & Commissioning activities performed / conducted in SIMOPS.**
- ☞ **Bring the systems – sub-system up to RFSU (Ready For Startup)**
- ☞ **Approve the Pre-Commissioning / RFC dossiers**
- ☞ **Approve the Commissioning / RFSU dossiers**
- ☞ **Assist & Perform with operations startup & test run.**
- ☞ **Hand over to field operations department fully documented and commissioned Installation.**
- ☞ **Follow up the progress according to the planning**
- ☞ **Assistance & follow-up of the offshore hook-up and commissioning and production start-up.**
- ☞ **Subcontractors interface and coordination.**
- ☞ **Ensure that the transition from construction to operations is carried out in accordance with all relevant procedures and guidelines and in line with the project safety and operational objectives.**
- ☞ **Co-ordinate with Operations team to meet their requirements of Plant operability, plant start up, pre-commissioning, commissioning, start up and safe operations.**
- ☞ **Responsible person to issue Test-runs results and testing / performance reports within the framework of the relevant Engineering processes.**
- ☞ **Indicate whether the work can be safely executed under the circumstances that coinciding events take place in vicinity of the work location, which may add risk. Propose segregation in time or place to eliminate the risk identified (“SIMOPS”).**
- ☞ **Ensure that commissioning is properly addressed during all stages of the project life cycle.**
- ☞ **Ensure that JRA's are conducted before work commences**
- ☞ **Ensure safe execution of all commissioning activities through the application of the work permit procedure;**
- ☞ **Sign / Approve work permits.**
- ☞ **HSE responsible for PTW system and interface issues.**
- ☞ **Organize Regular Commissioning PTW Meeting (Daily and Weekly).**
- ☞ **Conduct Commissioning PTW Surveillance with assistance of QS/HSE**
- ☞ **Ensure Com PTW organization is adequately resources for the work at hand ensuring smooth and safe progress to take place.**



- ☞ Work with project's Lock-Out/Tag-Out Coordinator to develop the appropriate lock-out and tag-out details necessary to ensure personnel and equipment safety during commissioning activities.
- ☞ Manage the Spading & De-spading plan for Safe Commissioning.
- ☞ Prepare Daily / Weekly / Monthly Commissioning report.
- ☞ Progress Reporting, Monitoring, etc...
- ☞ Provide routine reporting on commissioning activities, including immediate reporting of urgent issues.
- ☞ Manage Daily Commissioning Meeting inline with Commissioning Schedule and Progress.
- ☞ Prioritization of works requested by various applicants and instruct proper timing of the works as per Commissioning Schedule & Progress on a by area basis.
- ☞ Resolve complex problems to assist the project between internal and external organizations.
- ☞ Review / approve punch list items.
- ☞ Manage the punch list clearance.
- ☞ Approval the punch list activities and control of punch list items including clearance of punch list items.
- ☞ In case of non-conformance, coordinate with the base organization immediately and for planning and implementing appropriate corrective action together with the Site Manager and Project Management.
- ☞ Organize and coordinate activities with COMPANY.
- ☞ Interface with engineering disciplines, licensors, vendors and subcontractors.
- ☞ Coordinate with all vendor representatives.
- ☞ Liaise with specialist vendors to ensure timely mobilization, clarity of scope and safety requirements/expectations

EXECUTION SERVICES

ABA Oil & Gas Services (ABA OGS) Have an Official International Partner, to assist us to execute the following specific services/ operations:

- ☞ Degreasing Operation
- ☞ Lube Oil Flushing
- ☞ N2 or N2He leak testing / Inerting
- ☞ Drying-out Operation (N2, vacuum)
- ☞ Pipeline Dewatering Operation
- ☞ Load bank testing





Detailed Scope Of Service

During Start-up Execution Phase

ABA Oil & Gas Services (ABA OGS) will Execute & Manage the following Start-up Activities.

- ☞ Approve all Commissioning RFSU dossiers & installation from project.
- ☞ Acknowledge and sign handover certificate from Project commissioning.
- ☞ Approve and witness the OTP's prepared by the Commissioning team, system by system.
- ☞ Receive new installations, check that new installations are in line with statement of requirement and meet requirements of operations division in terms of safety and operability
- ☞ Smooth hand-over from the project team to the operations team.
- ☞ Contribute in planning and coordination for smooth integration of various activities phase.
- ☞ Day to day management of interfaces between Project and production on operational and safety issues
- ☞ Interface / Focal point between Operations and Construction to ensure a smooth transition at the critical time frame of construction completion and initiation of operations
- ☞ Focus point and main interface between construction, commissioning and operations.
- ☞ Liaise with commissioning and equipment vendors on providing adequate training.
- ☞ Identify with concerned site staff the training for operation/maintenance site personnel.
- ☞ Direct and Manage the Start-up of the new facilities
- ☞ Coordinate / Manage interfaces with existing live" facilities.
- ☞ Safe start-up of the new installation. and trouble shooting.
- ☞ Sea-lines / Pipelines Dewatering & Pigging operation
- ☞ Monitor Start-up activities performed / conducted in SIMOPS.
- ☞ Manage the Spading & De-spading plan for Safe Star-up (Oil-in, Gas-in, Hydrocarbon – in)
- ☞ Manage Vendors support requirements during initial operations
- ☞ Manage the start-up of new facilities.
- ☞ Test run / Performance test & guarantee.
- ☞ Responsible person to issue Test-runs results and testing / performance reports within the framework of the relevant Engineering processes.
- ☞ Prepare of the acceptance requirements of facilities hand over both for interim and final Operations
- ☞ Bring the new Facilities systems – sub-system up to PAC (Provisional Acceptance Certificate)



Detailed Scope Of Service

During Routine Production & Operation Phase

ABA Oil & Gas Services (ABA OGS) will Develop, Execute & Manage the following Operation & Production Activities

- ☞ Operating Philosophy & Operating Manuals,
- ☞ Operating procedures of the different system/equipment of the new facilities
- ☞ Develop OPERGUID procedures (individual units start up procedures)
- ☞ Opercap / Opersafe
- ☞ Safety requirements of facilities operation





During Plant Planned Shutdown Phase

ABA Oil & Gas Services (ABA OGS) will Prepare, Execute & Manage the following planned Plant Shutdown Activities

- ☞ Shutdown preparation (procedures, planning, work permits, etc...).
- ☞ Major overhaul & shutdown planning and management
- ☞ Prepare the detailed shut down planning.
- ☞ Manage Shutdown activities
- ☞ Prepare the method statements and procedures to be used.
- ☞ Co-ordinate with the Site Construction / Maintenance Team
- ☞ Manage the commissioning & Start-up at site after shutdown.
- ☞ Overall coordination for all shutdown activities.
- ☞ Ensures all scope changes are documented, planned and approved as per process.
- ☞ Monitor shutdown progress to schedule and communicate if shut down duration changes.
- ☞ Coordinate daily shutdown review meetings.
- ☞ Communicate to operations when shutdown work is complete.
- ☞ Establish and lead the Shutdown team for the SD planning and execution phases.
- ☞ Develop and maintain shutdown risk register.





During Inspection & Integrity Phase

ABA Oil & Gas Services (ABA OGS) will assure the asset owners of the integrity of the plant & equipment so as to avoid unplanned maintenance & repair activities, with subsequent loss of production earnings.

Inspection Services is vital in gathering data required by an Integrity Management System. We provide teams comprising of experience Inspection Engineers, Corrosion Engineers, NDT Specialists & other specialist as required.

OBJECTIVES

- ☞ Contribute to the control of the industrial risks, to insure the safety of the staff and the population as well as the protection of the environment and asset facilities.
- ☞ To ensure Asset integrity.
- ☞ To insure that the installation are operated permanently in the same condition of use as per their design and for their remaining life.
- ☞ Demonstrate that all the possible precautionary measures were taken in order to avoid any accident.
- ☞ Development, implementation and continuous improvement of a quality.

INSPECTION POLICY

- Maintain the register of all equipment along the exploitation duration.
- Identify systematically the possible failure mode and their consequence to draw up the inspection plans (major visits and certifications statutory) issues from Risk Based Inspection and maintenance principle, whenever applicable in complement of the prescriptive approach.
- According to analyses of the inspection results, recommend the corresponding actions (restoration, modification of inspection plans, limitations of the operating parameter...) and ensure their application in planned delay.
- Maintain up-to-date QA/QC documentation of all equipment according to their evolution during exploitation.



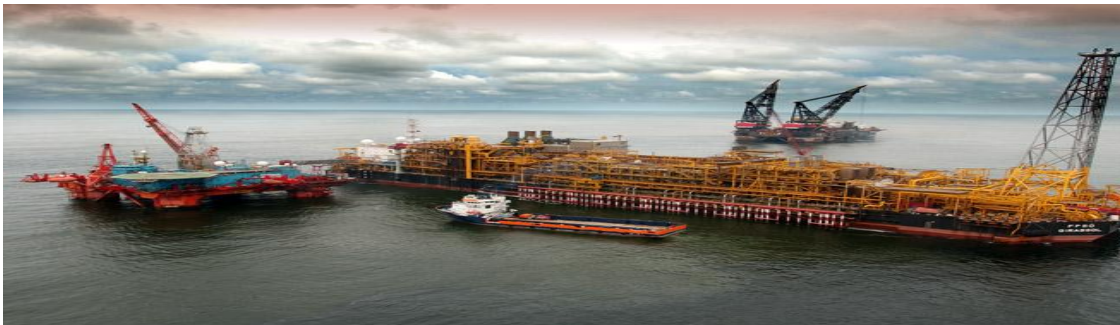


During Inspection & Integrity Phase

SCOPE OF SERVICE

ABA Oil & Gas Services (ABA OGS) will provide the following base line inspection services:

- ☞ Pressure Vessel base-line Survey (External & Internal check)
- ☞ Piping baseline survey / inspection
- ☞ Structure baseline survey / inspection
- ☞ Lifting equipment baseline survey / inspection
- ☞ PSV calibration survey / inspection
- ☞ Equipment Factory acceptance testing inspection and verification services
- ☞ Fabrication process and dimensional controls inspectors
- ☞ Equipment and component technical compliance inspection services
- ☞ Inline inspection





QAQC & Certification Services

ABA Oil & Gas Services (ABA OGS) Provides Quality Assurance & Quality Control (QAQC) services as part of the full range of projects & construction management services that we can offer. We establish Quality Assurance plans & procedures at the program-level that flow through to multiple projects within a program.

Our QA/QC services help control quality through the life of a project & installation, from Detailed Engineering, through Vendor Factory Assembly & testing, Construction, Commissioning, Startup up & Operation.

We provide teams comprising of experience Qualified & Certified QA/QC Engineers & Specialist who could be seconded to various clients worldwide.

- Develop Inspection & Test Plan (ITP)
- Quality Control Procedures (QCP)
- Method Statements (MS)

ABA Oil & Gas Services is committed to enhance client satisfaction by meeting customer requirements & expectations in supplying a service with required quality and complying with applicable codes, standards & regulations requirement

The system provides full traceability through the design, construction and commissioning phases to start-up of plant operations.

The system is an effective means of project control which will ensure:

- ☞ Correct sequencing of works which means that all certification for each stage must be in place before the next stage can progress.
- ☞ A permanent record of the project, including design modifications, which will remain with the plant throughout its effective life
- ☞ A reliable design, construction and commissioning record in the event of dispute between Client(s) and Contractor(s)
- ☞ A reliable audit trail for the Client and Certifying Authority to facilitate acceptance of Work Packages.
- ☞ The system can be computerised or hard copy as required.





Other Scope Of Service

Safety Engineering & Operation Services

ABA Oil & Gas Services (ABA OGS) provides the following Safety Engineering & Operation Services

- ☞ **Job Safety Analysis**
- ☞ **Risk Assessment Analysis**
- ☞ **Incident Analysis**
- ☞ **Dedicated HSE Training Courses**
- ☞ **Permit To Work System**
- ☞ **Safety Audit & Inspection**
- ☞ **Observation / Anomaly / Near Miss Reporting Management**
- ☞ **Lockout- Tag out Procedure & Management**
- ☞ **Simops Procedures , Matrix & Management**
- ☞ **Specific Safety Execution Plan**
- ☞ **Defining Operational Constraints**





Other Scope Of Service

Operational Technical Support (OTS)

ABA Oil & Gas Services (ABA OGS) provides technical support in the areas of Operational Assurance (OA), Reliability, and all the regulatory compliance elements that ensure your asset meets its Safely Early Start-up, Production, Safety, and Reliability Targets.

ABA OGS focuses on providing technical expertise, best practices, technology management, and project management to support our clients

We can assemble a project team of consultants with diverse technical expertise and backgrounds to support implementation of Operational Assurance Projects

ABA OGS Operational Technical Support (OTS) addresses / provides the following Services & Products with a focus on the delivery of workforce operational readiness for large, complex, CAPEX projects.

- Start-up, commissioning and operations readiness training
- Health, Safety, Security and Environment during Projects & Operations Phases
- Audits & Evaluation
- Recruiting & Training Strategy & Plans Development
- Personnel Competency Assessment Program Development
- Seminars Presentation
- Budget Estimation & Development
- Providing & Hiring of Qualified & Experienced Manpower / Personnel's





Other Scope Of Service

ABA OGS Project Staffing Support (PSS)

Project Staffing Support (PSS)

ABA Oil & Gas Services (ABA OGS) Project Staffing Support (PSS) is a service unit oriented to comply with our clients' increasing demand for top talent professionals to pursue their oil & gas high profile projects. Our management staff has extensive experience in this industry to allow us to assemble a project team of oilfield consultants with diverse technical expertise and backgrounds to support different project implementations from Exploration Development to Upstream and Downstream Commissioning and Start up.

Areas of Support

- Recruitment Strategy
- Competency Assessment — Technical & Psychological Evaluation
- Placement
- Mobilization and Demobilization Logistics
- Health, Safety, and Environmental Training

Tools to meet our clients' critical staffing needs

- On line recruitment system and job posting opportunities
- Over 5,000-candidates database (CV-WEB)
- Worldwide network of experienced and competent consultants
- Strategic alliances with international recruitment specialists





ABA OGS Quality, Standards & Certification

*As a leading international consultancy, **ABA Oil & Gas Services (ABA OGS)** is continually striving to identify and follow international best practices.*

***ABA Oil & Gas Services (ABA OGS)** Integrated management system has been developed and implemented in accordance with the best practices of following standards.*

International Third Party Certification audits are under processing to ensure that the Integrated Management System is maintained in accordance with these international standards, and also that the required continuous improvement is being achieved.

ISO 9001, ISO 14001, ISO 18001 is under development; it will be ready by Mid of 2015





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