

IXIS MAIN PROJECTS REFERENCES

No	PROJECT TITLE / PROJECT LOCATION	CLIENT/COUNTRY	ACTIVITY / SCOPE OF WORK	PROJECT DESCRIPTION	YEAR OF COMPLETION	MANAGED with IXISCOM SOFTWARE	COMMENTS
1	TUXPAN- TULA Project MEXICO	TC ENERGY MEXICO	Commissioning Preparation & execution	1 Gas Compression Station 1 Gas Measurement Station	2017 - 2020	YES	
2	TULA – Villa de Reyes MEXICO	TC ENERGY MEXICO	Commissioning Preparation & execution	2 Gas Compression Stations 3 Gas Measurement Stations	2017 - 2020	YES	
3	TUXPAN- TULA Project TULA – Villa de Reyes MEXICO	TC ENERGY MEXICO	Preservation	3 Gas Compression Stations 4 Gas Measurement Stations	2019 - 2020	YES	

Main Projects References, Competencies and Experiences by IXIS

4	Aguas Someras MEXICO	PEMEX MEXICO	PreCommissioning Supervision Construction	Revamping planning follow up - 12 platforms	2018 - 2019	YES	
5	UJUNG PANKAH – phase 2 INDONESIA	HESS INDONESIA	Commissioning Preparation, PreCommissioning supervision, Commissioning Execution.	1 Wellhead platform, 1 Compression platform, 1 Accomodation platform	2010 - 2012	YES	
6	GAJAH BARU INDONESIA	PREMIER OIL INDONESIA	Commissioning Audit and supervision	1 Gas Wellhead platform 1 Gas Compression Platform	2010 - 2011	YES (partial)	

IXIS EXPERTISE			
Activity	Scope	Commissioning Software (IXISCOM is the IXIS commissioning software)	Comments
Pre-Commissioning and Commissioning Start-Up	Preparation and Execution Supervision	IXISCOM	
Software Customization to project	Ixiscom software customization to the Customer requirements	IXISCOM	
Project Management	Project GANTT Contractors Management Vendors Management Inspection Management Punch List management Site Work supervision	IXISCOM	

Main Projects References, Competencies and Experiences by IXIS

Commissioning TRAINING	Commissioning Methodology	IXIS Methodology, Total Opercom Methodology	
Commissioning Software TRAINING	Commissioning Software	IXISCOM ICAPS	
Inspection	FATs (Factory Acceptance Tests) Material inspection Dimensional inspection Welding Inspection Coating /insulation Inspection Integrity inspection Pre-shipment inspection Packing list Inspection and transportation inspection	IXISCOM	

IXIS COMPETENCIES

Project & Commissioning Management: Experiences

No	PROJECT TITLE / PROJECT LOCATION	CLIENT / COUNTRY	ACTIVITY / SCOPE OF WORK	PROJECT DESCRIPTION	YEAR OF COMPLETION	SOFTWARE IXISCOM is IXIS Commissioning Software	COMMENT
1	Istanbul City Metro	Istanbul City, Turkey	Commissioning Preparation, Supervision and Execution	Metro	2007	IXISCOM	
2	Cairo Water Treatment	Degrémont Cairo City, Egypt	Commissioning Preparation, Supervision and Execution	Water Treatment	2008	IXISCOM	
3	FPSO Pazflor	DSME (Daewoo Ship Marine) Paris, France and South Korea	Commissioning Preparation and Supervision	FPSO Pazflor Hull and Topside	2013 - 2014	TOTAL Commissioning Software (ICAPS)	

Main Projects References, Competencies and Experiences by IXIS

4	Los Ramones Project Phase 2 South	ENGIE Los Ramones, Mexico	Commissioning Management- Gas pipeline including compression and measuring plants Supervision and control executed by the EPCC Contractor, and the Hand Over to Operations	300 km long 42" gas pipeline One compression station (3 Turbo compressors, 4 Gas Generators) 4 Measuring stations	2015 - 2017		
5	OFON2 Project	Total Nigeria Nigeria	Commissioning management Liaising with the Start-Up team and the O&M Handing Over the platforms Supervising and controlling the Contractor activities,	Offshore platforms 1 LQ platform 1 Prod platform Wellheads platforms	2014 - 2015	ICAPS	

Main Projects References, Competencies and Experiences by IXIS

6	TKCSA Project	Air Liquide Brazil	<p>Project Management</p> <p>Construction</p> <p>Commissioning</p> <p>Punch lists clearance</p> <p>Contractor's claim resolution and Contract close-out</p> <p>Plant hand over to Client</p>	Extension of an existing ASU (Air Separation unit) Plant	2011 - 2013		
7	EPCM Pergen Project	Air Liquide Pernis, Netherlands	<p>Project Management</p> <p>Supervision and control of the CM</p> <p>Site safety</p> <p>Contractual issues</p> <p>Supervision and control of the Main Contractors Deltak and GE</p>	250 MW co-generation plant in the SHELL refinery	2006 - 2008		

Main Projects References, Competencies and Experiences by IXIS

8	Kharyaga Phase3 Project	Total Russia Nenets territory, Russia	Commissioning Management	Construction of 2 pads to be connected to the main Plant	2008 - 2010	Inhouse software Opercom methodology	
9	Priolo and Lavéra Projects,	Air Liquide Italy France	Project Management Call for bids Contract writing and management Supervision of the engineering Procurement Construction Commissioning and start-up of plants	SMR plants for CO2/H2 Production	2001 - 2006		

Main Projects References, Competencies and Experiences by IXIS

10	Upstream Development Project (3rd Train)	Qatargas Qatar	Commissioning Management Company representative for the offshore works in Qatar, in charge of hook- up, commissioning Operators training during the commissioning phase	Remote unmanned wellhead platform and a production platform	1997 - 1999		
11	NKOSSA Project	ELF (Total) Congo	Commissioning Management Head of Commissioning for the Living Quarters module Deputy Commissioning Manager for the entire barge installed by Bouygues / Ponticelli	Floating concrete barge accommodating 6 platforms (LQ, process water facilities, electrical generation, gas compression, process platform, production of C3/C4)	1995 - 1996		

Main Projects References, Competencies and Experiences by IXIS

12	MLN Project Development in Algeria in association with SONATRACH	Burlington Resources (US company)	Project Management : New Production Plant (40000 BOPD) in the Sahara desert	Scope: -Building of a Project team . -Preparation of the FEED call for bids; FEED contractor selection (ABB Lummus - The Hague, Holland). Supervision of the ABB FEED studies. -Preparation of the EPCC call for tender package; Clarifications meetings; selection of the EPCC Contractor. -Preparation of Maintenance and Operations Contracts.	2000-2001		
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