

## Jadel Limited

Jacques Francois Daubian

Houston Texas USA – London UK

<http://www.jadelltd.com>

[contact@jadelltd.com](mailto:contact@jadelltd.com)

Tel: +1(713)-259-3787

City, ST ZIP Code



### Site Survey - Documentation

Date	Services Performed By:	Document revision
1 – Feb - 2019	<b>Jadel Limited</b> Jacques Francois Daubian  Houston Texas USA – London UK <a href="http://www.jadelltd.com">http://www.jadelltd.com</a> <a href="mailto:contact@jadelltd.com">contact@jadelltd.com</a> Tel: +1(713)-259-3787	<b>1.01</b>

## Introduction

During the details engineering and construction of Oil and Gas Offshore Project you will need different site surveys like:

- Packages and Skids reviews of your vendors,
- Survey on existing site for location of new tie-ins,
- Survey on existing site to review the actual layout, arrangement,
- Discrepancies between engineering and construction during construction phase of your project,
- Etc.

All of the site survey need time, availability and competencies.

- You will find in this document all necessary information for the site survey I am able to do for you.

## Warning

How often did you have problems with the vendor when your package or skid arrive on site and do not match with the GA vendor drawings you received and approved?

During the detailed engineering of your project, it is indispensable to visit the vendors and confirm everything is correct and will follow your specifications. Without this survey, you may delay your project or installation on yard of your skids, packages, equipment or modules.

Installation offshore will be much expensive for client and contractor.

## Who is Jadel Limited

---

**Jadel Limited** is a company created in 2007 in UK. The meaning of my company's name is **Jacques Francois Daubian Engineering Leader Limited**.

Specialist of Offshore Projects with 32 years of experience I participated to many projects always working in/or using the 3D Model. I am multi-disciplines engineer with a background of Mechanical Engineer and with strong knowledge in Piping, Layout and Mechanical Handling and also know very well all other disciplines as Construction, Commissioning, E&I, HVAC, Mechanical, Structure and Telecom.

Writer of two technical books published in UK in 2017:





- The New 3D Layout for Oil & Gas Offshore Projects – How to ensure success,
- 3D Model Reviews Using Navisworks for Oil & Gas Offshore Projects – Best practice.


Multi-disciplines, I am:

- **Lead Piping Engineer,**
- **Lead Mechanical Handling Engineer,**
- **Lead Layout Engineer,**
- **Specialist of 3D Software.**

## Clients Reference

---

- 2018
  -  BP USA - Project MAD DOG Phase II – 3D Model Coordinator,
- 2017 to 2018
  -  Samsung Heavy Industry – Project MAD DOG Phase II – Layout Manager,
- 2013 to 2017
  -   
 INPEX Corporation Japan – Project ICHTHYS CPF – Lead Piping & Layout Engineer,

- 2011 to 2013
  -  Total Exploration and Production Myanmar – Project YADANA - Lead Mechanical and Piping Engineer (PVV),
- 2009 to 2011
  -  PTT Exploration and Production – Project BONGKOT – PDMS Coordinator,
- 2007 to 2009
  -  Worley Parsons Kazakhstan - Projects UNIT 800 & TCO SEP – Principal Piping Engineer,
- 2006 to 2007
  -  Bechtel UK, London – Project PIC Kuwait – Lead Piping Designer,
- 1987-2006
  -   Sofresid Engineering & Technip FMC Paris – Many Projects – as PDS Administrator, PDS Coordinators, Lead Piping Engineer,

## What are the advantage to work with Jadel Limited – Professional Review

---

I will provide to you a professional survey and will review all disciplines making comments, pictures, movies, explanation for each comments, report in Excel file and XML file if you have a 3D Model.

I will not just make the comment saying you need to modify but I will explain why is wrong, what you need to do and how you need to modify. **I will provide the resolution of the problems when it is possible.**

## What are the advantage to work with Jadel Limited – Respect the Schedule

---

Schedule depends of the size of your survey.

When I work for a client, I stay totally focused on my mission until the end and always respect the schedule and cost.

# What are the advantage to work with Jadel Limited – Less expensive for your Project(s)

---

Punctual contract, do not need to recruit specifically someone for this mission.

## Procedure – What will be review

---

Depending the Scope of Work requested the review: by disciplines will be about that you can see below:

- **E&I:**
  - Cable Ladder routing,
  - Cable Tray routing,
  - MCTs,
  - Supports of Cable Ladder and Trays,
  - Tubing Tray routing,
  - Support of Tubing Tray,
  - JBs location Accessibility/Maintenance,
  - Operation route,
  - Lighting,
  - Air Instrument Manifold location and Accessibility,
  - Power Socket location and Accessibility,
  - Technical Rooms and arrangement in the False Floor(s),
  - Structure for supports and equipment,
  - Etc.
- **HVAC:**
  - Tie-in point for equipment like Pumps, Air Handling Unit, Chillers, etc.
  - Ducting routing,
  - Ducting Supports,
  - Accessibility/Maintenance of component in line like Silencer, Damper, Fire Damper, etc.
  - Operation route,
  - Structure where the supports are attached,
  - Etc.
- **Mechanical:**
  - Tie-ins points of all equipment following the Vendor Drawings,
  - Structure supporting all of the equipment,
  - Mechanical Handling if clashing with something,
  - Drain of Skid Equipment,
  - Operation route,
  - Etc.
- **Piping:**
  - Routing,
  - Accessibility/Maintenance of the piping and instrument valves,
  - Accessibility/Maintenance of instrument in line,
  - Piping penetration,
  - Operation route,
  - Location Accessibility/Maintenance of Utility Station,
  - Valve handling if clashing with something,
  - Supports,
  - Deck structure for the piping supports,
  - Etc.
- **Safety:**

- Primary/Secondary Access Ways,
- Location Accessibility/Maintenance of Safety Equipment in particular Hydrants, Hose Cabinets, Extinguishers, Safety Showers,
- Inergen system if any,
- Fire and Gas system location Accessibility/Maintenance,
- Etc.
- **Structure:**
  - Monorail(s), Padeye(s) if clash with other disciplines,
  - Drain boxes location Accessibility/Maintenance,
  - Deck structure linked with any load,
  - Reinforcement on the deck if necessary (like trimmers or carling),
  - Bunding arrangement around equipment if necessary,
  - Etc.
- **Telecom:**
  - Location Accessibility/Maintenance of equipment,
  - Location of Camera Accessibility/Maintenance,
  - Location of Personal Localisation System (PLS),
  - Etc.

## Procedure – Necessary documents for an efficient Site Survey

---

As a minimum, I will need the documents below:

- Piping and Layout philosophy,
- PIDs
- Standard support E&I, HVAC, Piping,
- Lighting calculation,
- Equipment layout,
- Mechanical handling report,
- Valve handling report is available,
- Equipment and package vendor drawing arrangement,
- Information concerning the structure deck, thickness of the decks, type of grating, load capacity,
- HFE specification(s) if any,
- Safety philosophy,
- Etc.

## Procedure – Other Site Survey

---

It is possible to have the review below using the same system. Some reviews can be add to the general 3D review but will request more time and other documents:

- **Survey, using the 3D model of your vendor, can be on site with Tablet Panasonic FZ-G1 if you like this will be an option.**
- **Construction vs Engineering**, during the construction discrepancies between Shop Drawings and IFC Engineering documents,
- **Visual Inspection using a Drone DJI Spark** on site when the access is possible but difficult like under decks or external structures.

# Contact

---

Email: [contact@jadelltd.com](mailto:contact@jadelltd.com),

Website: <http://www.jadelltd.com>

Phone: +1(713)-259-3787

**Do not hesitate to contact me if you need more information**

**Thank you for your time**

**Jacques Francois Daubian**