

**INDT CONGO**

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## Integrated NDT S.A.

### Introduction :

**Integrated NDT S.A** starts his activities in Port Gentil in 2013 to provide NDT Services and all sort of industrial controls on site and at our Port Gentil facilities,



**Integrated** operates in the following sectors of industry: Oil, industrial, chemical, hydroelectric..etc, proposing the services listed here below:

### 1) Non Destructif Tests (NDT) :

- ✓ Industrial Radiography.
- ✓ Magnetoscopy.
- ✓ Dye penetrant.
- ✓ Ultrasons.
- ✓ Thicknesses measures.

Our qualified technicians are Level 2 certified  
All procedures are validated by a Level 3 certified supervisor

### 2) Inspection :

- ✓ Tanks, pressure vessels inspection.
- ✓ Hardness measure.
- ✓ Welder qualification and follow up.
- ✓ Welding procedure qualification record (WPQR).
- ✓ Advices in welding operations

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### 3) Lifting :

- ✓ Lifting equipments control and certifications at our Port Gentil facilities or on site

### 4) Pressure Tests :

- ✓ Certified tests on pipes, piping, pressure vessels, etc....
- ✓ Integrated NDT has got the agreement of Gabonese Minister of Mines for carry on inspections and receptions of pressure tests

### Our Port Gentil facilities:

One bunker (14m x8m) allowing to perform radio inspections 24 hours a day, 7 days a week.  
This bunker has been built following the international standards

A contiguous second bunker to perform pressure tests, immediately after NDT operations, allowing time savings for our clients



- ✓ As option, we can propose pick up & delivery of spools with our trucks
- ✓ Rental of welding machine to allow for eventual reparations by client welders, if required



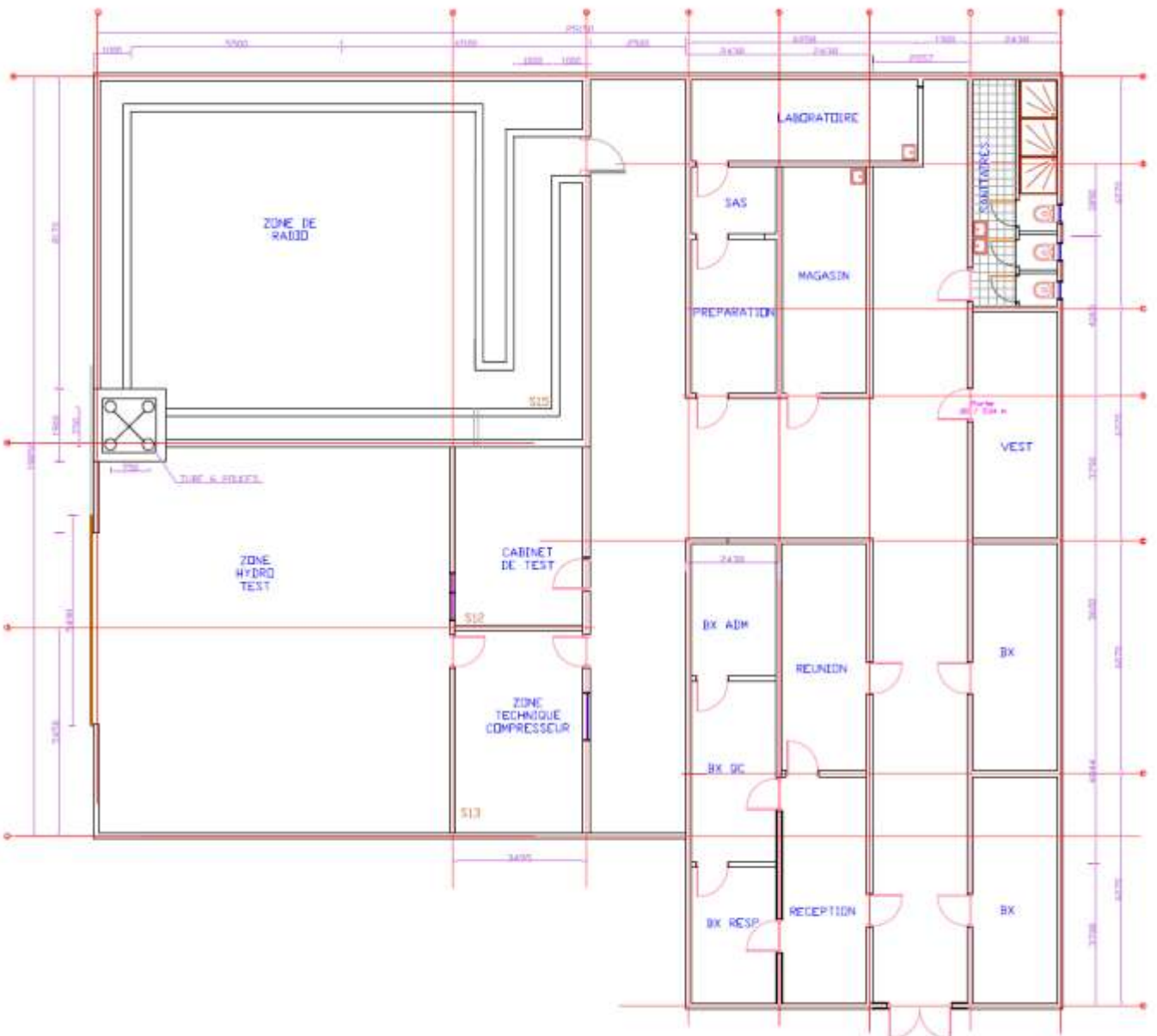
# INTEGRATED NDT

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## Integrated NDT Gabon yard implantation plan:



ISO 9001:2008

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## INDUSTRIAL GAMMAGRAPHY

### 1) Gammagraphy intervention in Port Gentil.

#### a) Spread including :

- A radio protective bunker (size : 12m x 8m), built following international norms, fitted with a fixed crane slewing at 360° for the manipulation of the pieces to be controlled (piping, capacities, etc...).



- storage area for piping
- Development laboratory close to the bunker.
- Gammagraphic projectors type EXERDUAL 120 with Ir192 and Se75 isotopes. The quality of the radiograms obtained with a Se75 spring is very near of this of a X-rays generator, giving a better frame quality.
- Gammagraphic projectors accessories.
- Staff and people's security and radio protective equipments.
- Consommables.

#### b) Personnel :

- A team composed by a level 2 ASNT or COFREND technician and an assistant; both holding the CAMARI or similar qualification.

Radiograms interpretation and the reports signature are ensured by a level 2 ASNT-COFREND-CSWIP-PCN technician.



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## **2) Gammagraphic operations on shore/offshore client sites.**

### **a) Spread :**

- Gammagraphic projectors type EXERDUAL120 with a Ir192 and Se75 isotope.
- Gammagraphic projectors and accessories.
- Staff and people's security and radio protective equipment.
- Consommables.
- Mobile laboratory fitted inside ISO 20' + development and interpretation accessories for long term works.
- Mobile laboratory fitted inside 10' container + development and interpretation accessories for short stay works.
- 4 x 4 vehicles if necessary

### **b) Personnel :**

- A team composed by a level 2 ASNT or COFREND technician and an assistant; both holding the CAMARI or similar qualification.
- The radiograms interpretation and the reports signature are ensured by a level 2 ASNT-COFREND-CSWIP-PCN technician.



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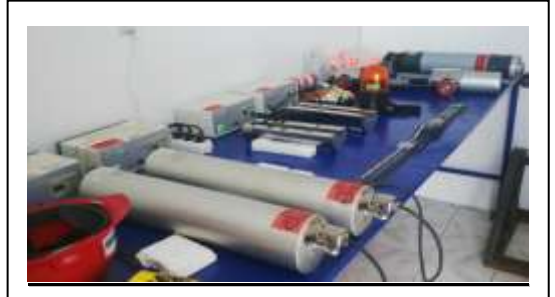
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### 3) Operations with generator X-Ray for pipeline control (crawler).

#### a) Spread :

- A type Iris 6 or Iris 10 crawler associated with an order ICM unity.
- Crawler accessoires (batteries, remote control, ...).
- Crawler spares and accesories.
- Staff and people's security and radio protective equipment.
- Consommables.
  
- Mobile laboratory (container 20' or 10') + development and interpretation accessories for long term on site works.
- 4 x 4 vehicle if necessary



#### b) personnel :

- A team composed of a level 2 ASNT or COFREND technician and an assistant; both with CAMARI or similar qualification.
- The radiograms interpretation and the reports signature are ensured by a level 2 ASNT-COFREND-CSWIP-PCN technician.

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## SURFACES EXAMINATIONS BY DYE PENETRANT OR MAGNETOSCOPY

### Dye penetrant or Magnetoscopy intervention in Port Gentil or client's sites

#### a) Spread

- Electromagnetic yoke or permanent magnetic yoke.
- Consommables.
- Magnetic particles field indicator (magnetization indicator)
- Measured field (Tangential field probe)

#### b) Personnel :

- A team composed by a level 2 ASNT or COFREND technician and an assistant and an assistant if necessary.

## ULTRASONS tests

### Thicknesses measurements in Port Gentil or onshore/offshore.

#### a) Spread including :

- A thickness measure device.
- A calibration bloc.
- Consommables.
- EPI.

#### b) Personnel :

- A team composed by a level 2 ASNT or COFREND technician and an assistant if necessary.

### Ultrason measurements in Port Gentil and Onshore/ Offshore.

#### a) Spread including :

- A ultrason device and accessoires.
- Calibration block.
- Consommables.

#### b) Personnel :

- A certified level 2 ASNT or COFREND technician and an assistant if necessary.

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## INSPECTION ACTIVITIES

**a) INDT can assist on below requests:**

- Approval of welding procedure specification
- Welding procedure qualification
- Welder's performance qualification
- Welding supervision
- Verification of welding machines
- LFET inspection/ MFL inspection
- Ultrasonic inspection with scorpion B-Scan
- Leak test
- Dimensional check
- Painting and coating inspection
- Vacuum testing
- Witness to mechanical tests and chemical analysis
- Hardness inspection
- Positive material Identification Inspection (PMI)
- Corrosion detection
- Controle Quality / Assurance Quality : QA/QC
- Fitness for service (FFS)
- Design calculation approval
- Technical assistance
- Infrared Thermography
- Eddy Curent
- Phased Array
- Time Of Flight Diffraction (TOFD)
- Acoustic Emission

Inspector having minimum 2 years of experience and certified level 2 ASNT or COFREND



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## LIFTING inspections

INDT can perform inspections and controls on client's lifting and handling accessories: periodic controls and mandatory examinations.

Our technicians can also recertify cranes, fork lifts and all lifting machines

*Potences pour test des treuils ou palans*



*Test bench 100 tons*



Available at our Gabon and Congo yards:

- 100 tons test bench
- 15 tons SWL test frame
- Certified weights
- Load cells
- Water load bags

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## PRESSURE TESTS



Hydraulic tests performed on I-NDT yard or on client's site

**a) Spread including :**

- A bunker 10m x 10m for pressure tests, equipped with a 1.5 tons fixed crane and a 4 meters wide door to allow entrance of heavy and voluminous equipments.
- A storage area of referenced spools.
- An independent and isolated tests cabin, situated in the bunker.
- Pressure spread available : 0-50 bars ; 0-150 bars ; 0-250 bars ; 0-400 bars ; 0-1000bars et 0-1500 bars (pumps and instrumentations)
- Pneumatic torque wrenches
- Full set of flanges, bolts, nuts, flexible and any other items to perform hydrotest.
- Chart recording devices



**b) Personnel**

- A team formed by a supervisor and operator technicians qualified for the manipulation as well as pumps and instrumentation using.