Leading Helicopter Services in West Africa
At International Aircraft Services (IAS) and Volta River Aviation (VRAL) we are proud of our excellent reputation for providing rotary wing services in West Africa in support of our clients’ industries in fields as diverse as:

- Off and onshore Oil and Gas
- Agriculture
- Emergency medical institutions
- Wild Life protection institutions
- Non Governmental Institutions
- Mining
- Energy Providers
- Geophysical exploration
- UN and EU Organizations
- Tourism, Cinema, Television

In all our missions, we are committed to providing first rate quality and service, thanks to our teams of highly qualified professionals. Our mission is to provide the safest and most efficient helicopter services and we achieve this by focusing on:

- Working in innovative partnerships with our customers,
- Developing our highly professional workforce.

The very competitive environment in which we operate does not affect the priorities of the Organization that are safety of operations, respect of regulations, full satisfaction of our Customers, a no compromise attitude towards our values which symbolize our core beliefs about how we must conduct our business:

- SAFETY FIRST,
- Set and achieve high standards in everything we do,
- Reliability,
- Transparency, honesty and respect,

As the Accountable Manager of IAS and VRAL, I commit myself to providing safe and healthy working conditions and attitudes within our Organization, with the ultimate goal of providing an accident-free workplace while meeting all relevant legal and regulatory requirements, including safety and environmental legislations. All dispositions will be taken and all necessary means provided for the implementation of sound policies and Quality and Safety systems and to control their efficiency.

Each and everyone within the Organization are individually implicated in this approach, for the motivation and action of all, are key to the success of the whole Organization.

Hugues Moreau
CEO & Accountable Manager of IAS & VRAL
Overview

International Aircraft Services

Based in Felix Houphouët Boigny Airport in Abidjan (Côte d’Ivoire), and with a subsidiary in Monrovia (Liberia), International Aircraft Services (IAS) is a privately owned company specialized in rotary wing services in support of the off and onshore Oil and Gas industry in the West Africa region. The company started operating in 1990 under the name Afrique Helicoptères and became IAS in 2003.

IAS helicopter operations and maintenance of helicopters are performed under the rules and regulations of:

- RC OPS3-CI (based on and compliant with EASA OPS 3)
- RCI 145 (based on and compliant with EASA Part 145)

The fleet of IAS features twin-engine aircrafts of the Eurocopter makes Dolphin-types. All aircrafts are configured for offshore operations in compliance with international regulations and in order to meet our customers’ requirements.

Volta River Aviation

Based in Kotoka International Airport – Accra, Volta River Aviation Ltd (VRAL) is a privately owned company which started its operations in Ghana in January 2003. Both IAS and Volta River Aviation belong to the same Group. Volta River Aviation Ltd. is specialized in Helicopter transport and aerial work.

Although Volta River Aviation Ltd. is a relatively new company, it benefits from the experience and success of International Aircraft Services Limited.

VRAL has met the requirements of the Ghana Civil Aviation Regulations and related operating regulations and rules and is authorized to conduct commercial air transport operations under its Air Operator Certificate.

VRAL performs its own line maintenance of the aircrafts, observing PART 145 requirements. The main maintenance is performed within IAS Air Maintenance Organization which observes PART 145 requirements and is approved by the Ghana Civil Aviation Authority under its Air Maintenance Organization Certificate.

The fleet of VRAL is sized to its operations in Ghana and is composed of Alouette III and Dolphin SA 365 helicopters.
IAS and VRAL form the West Africa leading provider of rotary wing services, own a fleet of 25 light and medium aircrafts, and employ approximately 100 professionals through its operating divisions. By focusing on West Africa, the organization ensures better control of quality, safety and continuity of the services provided to its customer base, at all levels, while building on local content.

**Operating Principles**

IAS and VRAL are committed to providing quality service and safety. They operate with strict adherence to the following principles that make the strengths of the Organization and provide reliance and greater value to our customers:

1. Safety is first and foremost in everything we do.
2. Our customers must receive value through our quality service.
3. Our workplace sponsors teamwork.

IAS and VRAL form an experienced helicopter operator, with thousands of flight hours safely logged in the West Africa Region. Bringing this experience to each and every contract, IAS & VRAL has acquired a high level of recognition in the Oil and Gas Industry and the Mining Industry.

**Offshore Operations**

IAS supports offshore exploration and production projects off the coasts of West Africa. Our experience in offshore support has enabled us to develop the necessary expertise to work in a challenging operating environment. Our business includes crews and equipment transportation to production platforms, seismic vessels and drill rigs.

**Onshore Operations**

IAS and VRAL provide rotary wing support to geophysical exploration programs in search of ore and oil and gas in the region. IAS also provides support during the planning, construction and operation phases of pipelines. IAS and VRAL perform humanitarian and medical evacuation helicopter support services throughout the region.

**Helicopter Maintenance**

With the growth of IAS and VRAL helicopter operations, the Organization has developed significant know-how and experience in maintenance, overhaul operations and assistance to helicopter operators. Our Engineers meet the Part 66 level and IAS is a CI 145 (PART 145) certified maintenance organization.
Safety, Health & Environment

IAS & VRAL Safety, Health & Environment Management System (SHE) is an inter-related collection of processes, programs, procedures, responsibilities and activities that provide the foundation for effective safety and health management.

The system consists of five standards:
1. Policy, Planning & Processes,
2. Hazard Management,
3. People
4. Environmental Management,
5. Measure, Review & Improve.

Each standard contains one or more functional elements. These elements provide an overview of the structures, processes, programs and procedures required to effectively implement the system. All IAS & VRAL Bases are expected to implement and manage the SHE Management System and to exercise sound judgment in developing best practices. It is our goal to integrate the SHE Management System into our day-to-day business activities regardless of geographical location, size of operations or local regulatory requirements.

Safety Management System

In all their operations IAS and VRAL maintain an Integrated Safety Management System for the identification of hazards, assessment of risk, management of controls and the development of appropriate response plans.

The Health Safety and Environment and the Quality Management systems summarize our commitment to meet all legislative, Customers and Companies standards and Industries standards – such as the OGP.

All operations of our companies comply with the standards defined in the applicable Labour and Aviation regulations, Company Operations Manuals, Maintenance Control Manual, Safety Management System Manual, and the Quality Management Manuals.

The Group operates a stringent Risk Assessment System which appraises all Safety Activities, threats, controls, escalation procedures, improvement and corrective actions.

We also welcome regular customers’ audits. A wide-ranging internal and external auditing system is also in place. Lastly, renewal of their Air Operator Licenses, Air Maintenance Organization certificates, Aircraft Airworthiness certificates are subject to Civil Aviation Authorities rigorous inspections.

IAS and VRAL maintain Reporting Systems and Databases for management review and analysis of all incidents and risk occurrences. Employees are encouraged to report all incidents and potential risk at any rate of sternness. Reports are also circulated in compliance with our regulatory requirements. Occurrence Reports are reviewed by Management and followed up on by the Flight Safety Committee. The Accountable Manager sits at this Committee so as all Heads of Departments. Reports of the Flight Safety Committee are circulated to all operating bases of IAS and VRAL so as to keep employees aware of the safety improvements of the whole Operations. Lastly, safety indicators are set and closely monitored in order to ensure improved performance of the Organization and its Management Systems.
The greatest asset of the Group is its staff. The provision of resources to enable work to be completed safely, using training and competent staff at all levels is considered essential.

**Competence Assurance**

Resources that the management provides include competent staff, adequate time, facilities, equipment and support staff. Feedback on perceived problems in achieving the workload is encouraged with either targets changed or efforts made to provide additional support.

**Training Policy and Plans**

IAS and VRAL each raise a training plan, which is supported by a policy to train staff adequately to gain and maintain the competencies that the various roles in the company require. Recruitment of staff is based on the principle that experienced and capable staff are sought and selected and then additional training will be allocated as required. All flight crews and technical crews are required to undergo recurrent training to enable the maintenance of core skills, competency and experience levels to a highly professional level and retain currency of qualifications.

**Assurance**

Job descriptions exist for the principle posts and are controlled documents. These are outlined in the respective Operations and Maintenance Manuals. At the outset from recruitment throughout his/her career, any crew member is subjected to professional assessment during periodic training. This with any professional testing, such as that undertaken by the pilots and additional considerations that may be required when individuals are assessed for new positions or promotions ensure that the competence of the staff is assured. Competence standards for pilots, technical staff and managers are set out in the IAS and VRAL Operations and Maintenance Control Manuals.
Health/Medical Services/Hygiene

IAS and VRAL observe the provisions of the Ivorian, Liberian and/or Ghanaian law pertaining to hygiene and health at work. These provisions cover pre-hiring physical exams, sanitary and hygienic installations on the work site, access and emergency exits, locker rooms and disposal of scrap and other wastes. In the particular case regarding pilots, depending on their age, pilots undergo a semi-annual or annual physical examination and receive a medical fitness certificate issued by a physician certified by the relevant Civil Aviation authorities.

Local Content

The Group’s pilots, engineers and professional support staff hold a wealth of experience in the helicopter field and have years of practice in the region. They are recruited on permanent basis. IAS & VRAL privilege employment of citizens of the countries where the Organization operates so far as they possess the required competences and experience. The work climate reigning within the enterprise encourages open-mindedness and the multi-cultural diversity of the staff constitutes additional strength to the outfit.

Protecting the Environment

IAS and VRAL are fully committed to adopting sustainable environmental business practices. In that, IAS & VRAL work in close conformity with local legislation (the Environmental Code of Côte d’Ivoire, the Environmental Laws of Ghana), especially with regards to issues such as surface and groundwater contamination by aviation fuel and greases, spills of chemicals, consumption of water and energy, generation of waste, etc. The environmental component of the SHE Management System helps identify and manage potential environmental risks. Operations are assessed against the requirements of our standards as well as external regulatory requirements and improvements made. Environmental incidents are also based on progressive levels of severity from minor to extreme.
Quality Assurance Management

The Quality Management System relies on the following elements:

- The Quality Assurance Manual, including all quality-related procedures,
- The procedures and work documents of the Operations Manuals,
- The procedures and work documents of the Air Maintenance Organization Manual,
- The procedures and work documents of the Safety Management Manual,
- Records relating to quality,
- Personnel Quality System information and training.

The object of the Quality Assurance Program aims at defining and achieving the proactive and systematic actions necessary to ensure that training, operations and maintenance are in compliance with regulatory requirements, standards and applicable operational procedures.

Essentially the program is geared to ensuring the following:

- Instituting management reviews of the quality system and demonstrating its efficiency to the managers (consciousness rising). Management’s review of the system constitutes the occasion to check the efficiency and adequateness of the Quality System in accordance with the Company quality assurance policy and objectives.

- Regular quality controls, the results of which if negative are immediately reported to the concerned Department head and the Quality Officer.

- Inspections or internal and / or subcontractor quality audits, accomplished both by qualified internal and external persons. Internal Quality Audits are conducted by competent independent auditors. The Quality Management System is audited annual to ensure compliance.

- Base Inspections are performed by qualified auditors. The overall operations of all bases are evaluated before the start of operations, within 3 months from start of operations and again on a regular basis (at least once annually).

- Strict deficiency corrective actions and follow-up.

- IAS and VRAL welcome audits performed by external auditors - Clients and Prospects, Regulatory Organizations Inspectors -, and commits to implement all needed corrective actions.
### Fleet of Aircrafts

<table>
<thead>
<tr>
<th>Aircraft Type</th>
<th>Seating Capacity</th>
<th>Medical Evacuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alouette SE 316 B</td>
<td>1+6</td>
<td>1+2+2</td>
</tr>
<tr>
<td>Ecureil AS 355</td>
<td>1+5</td>
<td>1+2+2</td>
</tr>
<tr>
<td>Dauphin SA 365</td>
<td>2+8</td>
<td>2+2+4</td>
</tr>
<tr>
<td>Dauphin SA 365 N</td>
<td>2+11/12</td>
<td>2+2+4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight Details</th>
<th>Alouette SE 316 B</th>
<th>Ecureil AS 355</th>
<th>Dauphin SA 365</th>
<th>Dauphin SA 365 N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipped Empty Weight (EEW)</td>
<td>1450</td>
<td>1335</td>
<td>2350</td>
<td>2610</td>
</tr>
<tr>
<td>Maximum Take-off Weight (MTOW) Kg</td>
<td>2150</td>
<td>2250</td>
<td>3500</td>
<td>4000</td>
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</table>

<table>
<thead>
<tr>
<th>Main Dimensions</th>
<th>Alouette SE 316 B</th>
<th>Ecureil AS 355</th>
<th>Dauphin SA 365</th>
<th>Dauphin SA 365 N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (m)</td>
<td>12.84</td>
<td>10.93</td>
<td>13.32</td>
<td>13.46</td>
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<tr>
<td>Height (m)</td>
<td>3.09</td>
<td>3.14</td>
<td>3.49</td>
<td>4.01</td>
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<tr>
<td>Width (m)</td>
<td>2.65</td>
<td>2.17</td>
<td>2.40</td>
<td>2.03</td>
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<tr>
<td>Blades (m)</td>
<td>11.00</td>
<td>10.69</td>
<td>11.68</td>
<td>11.93</td>
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</table>

<table>
<thead>
<tr>
<th>Main Performances (at MTOW)</th>
<th>Alouette SE 316 B</th>
<th>Ecureil AS 355</th>
<th>Dauphin SA 365</th>
<th>Dauphin SA 365 N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Cruise Speed (RCS, Km/h)</td>
<td>180</td>
<td>225</td>
<td>213</td>
<td>250</td>
</tr>
<tr>
<td>Fuel Consumption (RCS) @ (Km/h)</td>
<td>210</td>
<td>240</td>
<td>250</td>
<td>285</td>
</tr>
<tr>
<td>Maximum range @ RCS (standard tanks &amp; no reserve)</td>
<td>450 Km</td>
<td>650 Km</td>
<td>550 Km</td>
<td>850 Km</td>
</tr>
<tr>
<td>Maximum endurance (standard tanks &amp; no reserve)</td>
<td>2H30</td>
<td>3H15</td>
<td>2H50</td>
<td>4H20</td>
</tr>
</tbody>
</table>
Our expertise makes us a partner of choice in meeting the high level of requirements in servicing corporate in various industries

### Oil & Gas Industry
- AFREN
- Canadian Natural
- GLobalSante Fe
- VANCO
- LUKOIL
- devon
- FoXTrot International
- HESS
- TULLO
- EDISON Oil
- KOSMOS Energy
- Anadarko
- Transocean

### Mining Industry
- bhp billiton
- GOLDFIELDS
- NEWMONT
- RIO TINTO
- De Beers
- CLuff
- TATA Steel
- NEWCREST MINES LIMITED
- DE Beers
- ArcelorMittal
- WesternGeco

### Geophysical Exploration
- CGG Veritas
- FUGRO
- PGS
- Technip

### Other
- WWF
- Electricité d’Ivoire
- Volta River Authority