



Captain Hesham El-Hamahmy

OUR GOAL IS YOUR SAFETY

Hazards must be identified as part of any successful SMS Programme

- Accidents still occur
- Need for more efficient operations
- Combined effort to improve Helicopter and Passenger Safety



Petroleum Air Services - Background

- Established 1982
- Egyptian Joint Stock Company
 - EGPC (75%) & Bristow Group (25%)
- Started with 8 Aircraft
- Now 48 Aircraft
- 1300 Employees
- > 30 Client Companies
- ~ 35,000 Flying Hours
- ~ 70,000 Flights
- ~ 400,000 Passenger Transfers





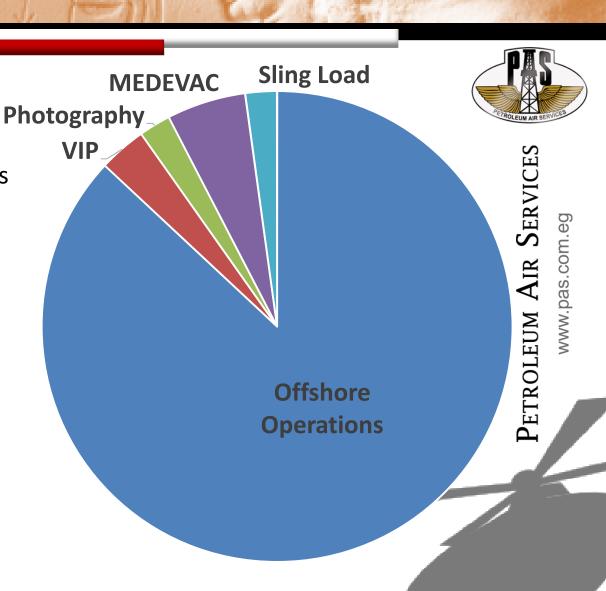
PAS is Egypt's leading provider of Helicopter Offshore Services

www.pas.com.eg

Our Exposure

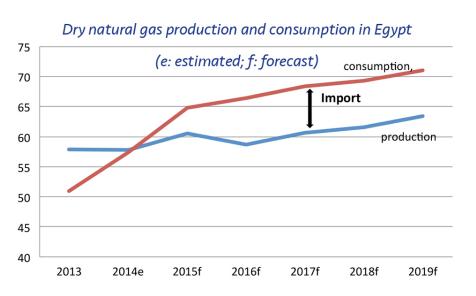
Statistics

- 85% Helicopter Operations
- > 150 Fixed Platforms
- > 30 Rigs / Vessels
- 15 Operating Heliports
- ~ 70 Helideck Inspections annually
- ~ 350 Findings
- ~ 25 Closed Helidecks



- Booming industry which attracts much foreign investment
 - Western Desert
 - Deep water Exploration
- "Discovery of the Decade" (MED Sea -80% of total GAS in Egypt)
- Continued Exploration in MED Sea and Red Sea





Petroleum Air Services

PAS Commitment

Our Vision

 Identify any possible hazards to the safety of our personnel or clients in order to prevent those hazards from appearing within the future our operations.

Our Goal

- To prevent any aviation incidents / accidents by eliminating or mitigating future hazards.
- Essential Element of SMS
- Mitigating hazards Reduces incidents Reducing Accident

Safety Pyramid

Accident

Serious Incident

Near Miss

Hazards



Hazards in Oil and Gas

- Undesired Events
 - Unstable Approaches / Loss of control
 - Operations outside aircraft limits
 - Hard landings
 - Overshooting the landing area
 - Injury or Health hazards



Approvals and Certification

- Lack of compliance by heliport/ helideck owners
- Expired approvals
- Equipment not compliant
- Limitations not documented





- Ensure approvals are gained
- Restrict operations
- Regulatory Oversight
- Limitations to be communicated



- Helideck size / D-Values
- Elevation
- Obstructions
 - OFS (Flare booms, cranes, foam monitors, lights)
 - FATO (Cranes, buildings, wires)

Remedy



- Payload
- Wind limits
- Aircraft type change





Environmental Issues

- High Winds
 - Loose items
- Turbulence
 - Air Gap
 - Existing Buildings (Hangar/ Terminal/ Structures)
- Hot/Cold emissions
- Sudden Gas release
- Lack /Incorrect
 Weather Reporting

Remedy



- Payload
- Wind limits
- Housekeeping
- Functioning Status Lights
- AWOS





- Bird Guano
 - Health effects
 - Engine congestion
- Water pooling
- Poor Friction / Glossy surface
- Objects above surface level
- Safety nets







- Paint properties (Silica)
- Operational Limitations



Lack /Unclear marking

- Non-standard marking
- Non-standard lights
- Flood Lights
 - Glare effect





Correct lighting specs





- Restricted Approach
 / Departure profile
- Obstructions / Obstacles
- Lack of Security
- Inadequate fencing

Remedy



- Stringent security procedures
- Passenger control





- Inadequate Fire fighting equipment
- Lack of rescue equipment
- No Emergency plan or practised drills

Remedy



- Regular inspections ໘
- Emergency respons
- Personnel training and awareness
- Improved design specifications
- Crashworthy and Survivability Issues

Heliport/Helideck Owners

- Joint Helideck / Heliport Inspections
- Highlighting operational restrictions
- Promote greater awareness
- Quarterly meetings
 - Address deficiencies
 - Action plans
- Relay regulatory requirements



PAS Enhanced Oversight

- Trained Inspectors
- Continuous Oversight and Monitoring
- Assessment and authorisation system for accepting and operating to helidecks
- Tracking discrepancies
- Imposing operational limitations
- Operational Risk Assessments



High Risk Industry

- Effective Mitigation Controls:
 - Improved design standards
 - Improved operating procedures
 - Ongoing regulatory oversight
 - Oil Companies commitment











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