



On The Leading Edge



LEADING EDGE AVIATION PLANNING PROFESSIONALS

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LEAPP opens its Australian Office on Queensland's Sunshine Coast!!!



Sunshine Coast, Queensland, Australia

LEAPP has recently commenced operation of its office in Australia, based on Queensland's Sunshine Coast at the Innovation Centre of the University of the Sunshine Coast near Maroochydore.

With this office, LEAPP now has four operating offices around the world with the other three being in Kuala Lumpur, Malaysia, Dubai, United Arab Emirates and Dublin, Ireland.

In this our latest edition of the company newsletter we are pleased to present to with news of our various activities around the world.

We welcome feedback and comment on any of the topics discussed. Please feel free to contact us at info@leapp.aero.

Victor Craig,
Managing Director
(victor.craig@leapp.aero)

LEAPP's Ongoing Projects:

AUSTRALIA

- Goondiwindi Airport Planning Appraisal
- Whitsunday Coast Regional Airport Planning

BHUTAN

- Strengthening Air Transport Regulatory and Operational Performance
- Domestic Airport Design and Supervision

DUBAI

- Dubai Aviation Engineering Projects
- Operational Compliance Assistance

IRELAND

- Waterford Regional Airport - Runway Development Project

MALAYSIA

- KLIA Apron Redesign
- Kuching Airport Development Review
- Subang Airport General Aviation MRO Study
- Subang Airport Helicopter Centre
- New Low Cost Carrier Terminal Baseline Drawing Audit

PHILIPPINES

- Mactan Cebu Terminal Development PPP Study

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Bhutan Upgrades Domestic Airports with ADB Assistance



Yongphula Airport Runway, Bhutan

“GOVERNMENT HAD CONSTRUCTED THREE DOMESTIC AIRPORTS AT YONGPHULA, BUMTHANG, AND AT GELEPHU”

LEAPP was contracted by the Asian Development Bank to investigate opportunities to enhance air transport connectivity within the country and between Bhutan and its regional neighbors. Bhutan has only one international airport at Paro in western Bhutan, and its Government had constructed three domestic airports at Yongphula in eastern Bhutan, Bumthang in the central part

of the country, and at Gelephu in the south close to the Indian state of Assam. LEAPP assessed the air transport services serving Bhutan, prepared a forecast of future international and domestic air traffic and determined the requirements for upgrading Paro International Airport and the three domestic airports. Inspections were carried out at all of the airports in Bhutan to identify deficiencies

and non-compliance with ICAO SARPs. LEAPP prepared master plans for all of the airports and developed a costed and prioritized listing of improvement projects required either for safety compliance or for capacity enhancement. LEAPPs recommendations for the upgrading of the three domestic airports are currently in the process of being implemented under funding from the ADB.

Abu Dhabi Sheikh Khalifa Medical Centre Plans For Two Helipads



Sheikh Khalifa Medical Centre Second Helipad Temporary Roof Helipad Layout Plan

LEAPP was selected to study and design helicopter facilities for the SKMC in the centre of Abu Dhabi city. Helipad location options for elevated and surface helipads at SKMC, were assessed on the basis of their suitability in terms of aeronautical factors, approach and take-off flight paths, location of obstacles, access to the main hospital building for patient transfer, and noise disturbance to local residents.

LEAPP prepared the layout plans for the helipads at the selected sites, and developed approach and take-off surfaces in compliance with ICAO Standards and UAE General Civil Aviation Authority (GCAA) standards. The design work included all physical and operational requirements for helipads such as the required lighting, navigation equipment, fire suppression systems, and helipad markings.

Philippines Mactan Cebu Airport Studies Prospects For PPP

Under contract to the Government of Philippines (National Economic Development Agency) LEAPP as part of the Deloitte Team, was commissioned to study, analyse and evaluate the prospects for developing a new international passenger terminal at the Mactan-Cebu International Airport under a Public-Private Partnership arrangement.

Based on forecasts of both domestic and international passenger traffic, LEAPP developed the requirements for expansion and renovation of the existing domestic passenger terminal and for a new international terminal to serve exclusively international passengers for a 25 year period. A comprehensive space programme was also created for the interna-

tional passenger terminal, along with the aircraft parking requirements to support the international traffic. LEAPP also developed a plan to convert the existing passenger terminal building into a domestic passenger terminal facility.

The development plans proposed as a result of this project include the construction of a new international terminal to serve 2.7 million international passengers and renovation and upgrade to facilities in the existing terminal to meet the forecast passenger demand of 9.7 million domestic passengers by the year 2025. LEAPP provided the client with costing for the new terminal development and costs for expansion of the aprons and for provision access and frontage roads.



Mactan Cebu Airport, Philippines

“A NEW INTERNATIONAL TERMINAL TO SERVE 2.7 MILLION INTERNATIONAL PASSENGERS AND UPGRADE EXISTING TERMINAL TO MEET DEMAND OF 9.7 MILLION DOMESTIC PASSENGERS “

Malaysia Airports Redesigns KLIA Aprons To Accommodate 737-800W and A380 Aircraft

Malaysia Airports has selected LEAPP to develop options for re-configuring the aprons at the Main Contact Pier and part of the midfield Concourse C to accommodate the Malaysia Airlines' fleet of B737-800W aircraft as well as 6 new A380 aircraft that are in process of being delivered to the airline. The need for the re-configuration arose because the original design of the aprons was based on the B737-400 aircraft in service at the time the airport opened in 1998, whereas the new fleet acquisition now requires park-

ing for the much wider B737-800W. Redesign of the apron markings for full Code C clearances was therefore necessary, and these new markings are in process of being applied. For the midfield Concourse C, it has become necessary to accommodate a greater number of A380 aircraft than had originally been assumed in the Master Plan of the 1990's, and conversion of a number of Code E stands to accommodate Code F aircraft has now become necessary to accommodate the parking requirements of Malaysia Airlines as well as other visiting airlines operating A380

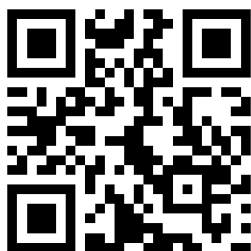


MAS aircraft parked at KLIA Apron, Malaysia

aircraft into Kuala Lumpur. LEAPP has prepared planning concepts and designs for reconfiguring the NE quadrant of Concourse C to increase the number of available Code F parking positions.

LEAPP is an international Aviation Planning and Management Consulting Firm. We offer a range of services in the following areas:

- *National & Strategic Planning for Air Transport, Aviation Systems & Infrastructure*
- *Aviation Management Consulting and Corporate Restructuring*
- *Aviation Capacity Building & Training*
- *Airport Operational Readiness Management*
- *Aeronautical Studies, Operational Analysis and Planning*
- *Aviation Safety Audits*
- *ICAO Airport Compliance Inspections, & Certification, Safety Management System*
- *Aviation Demand Forecasting*
- *Air Transport Route & Service Planning and Analysis*
- *Airport Capacity Analysis*
- *Airport Site Evaluation*
- *Airport Master Planning*
- *Airside Engineering Design (Runways, Taxiways and Aprons)*
- *Airside Pavements Structural Design*
- *Airfield Grading and Drainage Design*
- *Airspace Planning and Flight Procedures Design*
- *Air Navigation Systems Planning (CNS/ATM)*
- *Passenger Terminal Planning and Operations Analysis*
- *Passenger and Cargo Terminal Capacity Assessment*
- *Airport Operations and Procedures Development*
- *Simulation of Airside, Airspace and Passenger Terminals*
- *Airport Commercial Planning and Business Evaluation*
- *Business Planning for Airports & Civil Aviation Agencies*
- *Financial and Economic Analysis of Infrastructure Programmes*
- *Value Management for Airport Project Development*
- *Facility Management and Commissioning*



We're on the Web!
www.leapp.aero

Contact Us:

Asia:

Solaris Mont Kiara, K-3A-6
2 Jalan Solaris, Mont Kiara
50480 Kuala Lumpur, Malaysia
Tel +60-3-6203 0903
Fax +6-03-6204 0216

Dubai:

Dubai Logistics City, DWC - Head Quarters,
Room 205
Jebel Ali
P O Box 75608, Dubai, UAE

Australia:

Innovation Centre Sunshine Coast
90 Sippy Downs Drive
Queensland 4556
Australia
Tel +61 7 5430 2220

Europe:

19A Martello Court, Portmarnock
Dublin, Republic of Ireland
Tel +353-1-846-2368