



TRAVEL GUIDE

ASIA SITE VISIT

JUNE 27, 2018

EVERYONE
EVERYWHERE
EVERY DAY
HOME SAFE



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Itinerary

JUNE 25

Kuala Lumpur

All Day Pickup at KUL Airport, travel to hotel

6:30PM Dinner with leadership team

JUNE 26

Office session

All Day Day in office, NMB/JDA presentations

6:30PM Dinner with Asia management team

JUNE 27

NMB and JDA Platforms

6:15AM Depart hotel to Subang Airport

7:00AM Travel from Subang Airport to Kota Bharu helibase

10:00AM Visit NMB (Bergading) Platform (CPP)

12:00PM Lunch at NMB CPP

1:00PM Visit JDA (Cakerawala) Platform (CKP)

4:00PM Debrief at Kota Bharu helibase

4:30PM Depart for Subang Airport

5:30PM Travel from Subang Airport to hotel

JUNE 28

Kuala Lumpur

Depart KUL



Hess Travel Groups

EHS SUB-COMMITTEE



Rodney Chase
Former Deputy
Group Chief
Executive, BP



David McManus
Former Executive
Vice President
and Head of
Int'l Operations,
Pioneer Natural
Resources



Kevin Meyers
Chair of the
EHS Subcom-
mittee, Former
Senior Vice
President of
E&P for the
Americas,
ConocoPhillips

LEADERSHIP TEAM



Greg Hill
Chief Operating
Officer



Mike Turner
SVP Production



Richard Lynch
SVP Technology
& Services



**Gerbert
Schoonman**
Vice President
Offshore



Alex Sagebien
Vice President EHS

ASIA TEAM



Zhiyong Zhao
Vice President
Asia



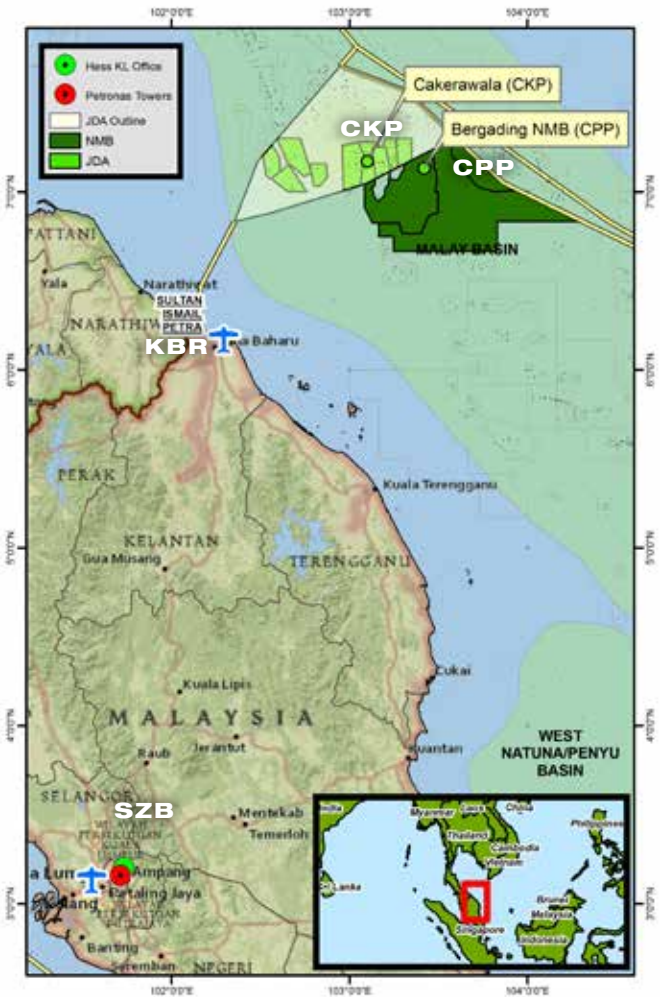
Floyd Peterson
Director NMB



**Joaquin
Martinez**
General
Manager
CHOC (JDA)

Travel Itinerary

- ▶ Depart hotel to Subang Airport
- ▶ Travel from Subang Airport to Kota Bharu helibase
- ▶ Visit NMB (Bergading) Platform (CPP)
- ▶ Lunch at NMB CPP
- ▶ Visit JDA (Cakerawala) Platform (CKP)
- ▶ Debrief at Kota Bharu helibase
- ▶ Depart for Subang Airport
- ▶ Travel from Subang Airport to hotel



Safety Do's & Don'ts

GENERAL

- ▶ If you see a hazard, point it out
- ▶ If you see anything unsafe, stop the job
- ▶ Report any incident / injury to your assigned "buddy"
- ▶ Stay with your assigned "buddy"
- ▶ **Don't:** Let an unsafe act go unnoticed

HELICOPTER

- ▶ Follow pilot's instructions
- ▶ Hearing protection must be worn at all times
- ▶ Wear closed toe shoes
- ▶ Turn your phone off before boarding helicopter
- ▶ Approach helicopter from side to avoid rotors
- ▶ **Don't: Approach helicopter from front or rear**
- ▶ **Don't: Wear loose items that could fly off near the helicopter**

FACILITY

- ▶ Know your muster station and life capsule
- ▶ Know your alarms and safe areas
- ▶ Turn your phone off before going outside of quarters
- ▶ Be aware of hazards, e.g., overhead lifts
- ▶ Listen for safety announcements
- ▶ Always use handrails on stairs

EVERYONE
EVERYWHERE
EVERY DAY
HOME SAFE

Hess Safety Rules



Energy Isolation

Stored energy sources shall be identified, isolated, tested and communicated to appropriate personnel before work shall proceed



Lifting and Hoisting

Use only locally qualified operators and appropriate equipment for all mechanical lifting, hoisting and rigging operations



Working at Heights

Personal fall protection equipment must be worn when working 6 feet (1.8 meters) or higher above ground



Confined Space Entry

Confined spaces shall not be entered unless authorized by written permit



Hot Work

A written work permit is required for all hot work outside of designated safe areas



Excavation and Trenching

All excavation and trenching work greater than 4 feet (1.2 meters) deep requires written approval



Land Transportation

Identify all driving threats associated with motor vehicle activity prior to putting motor vehicle in motion

STOP Work Authority

You have the authority and indeed the obligation to **STOP THE JOB** if you see an unsafe act or condition.

Stopping an operation for safety or environmental reasons will receive the full backing and support of Hess management.

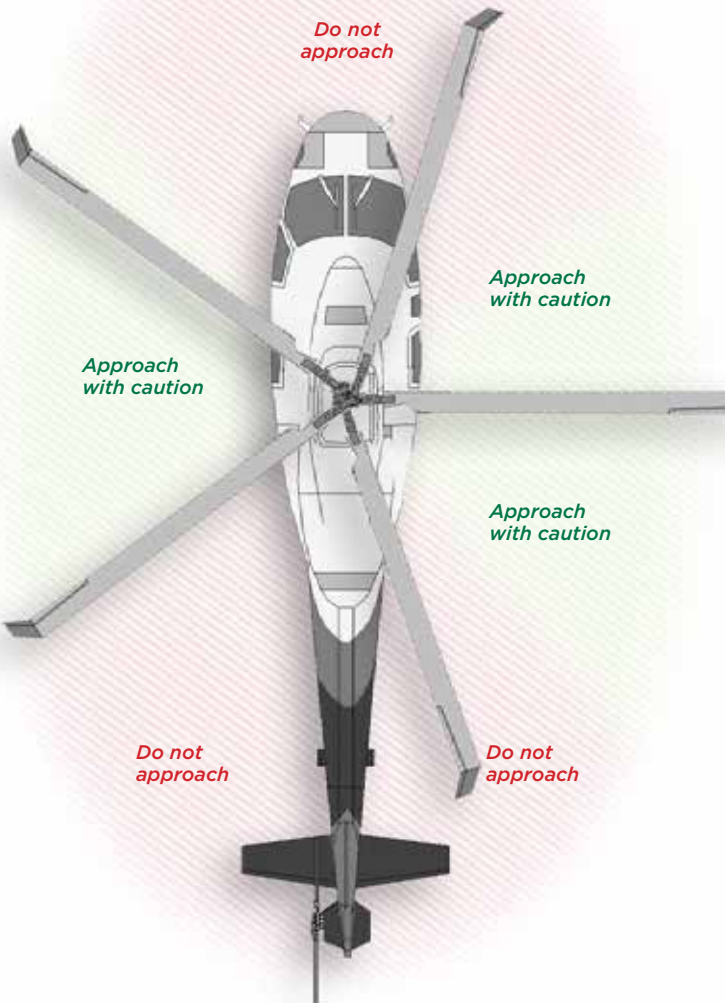


Helicopter Safety and Seating Positions

AGUSTA WESTLAND AW139 OFFSHORE



SAFETY AND SEATING POSITIONS



The AW139 provides Offshore operators best-in-class performance with a cruise speed of 165 knots / 306 kph, a range of 400 nm / 741 km, and superior hover and engine performance. With its engine power reserve, the AW139 assures Category “A” performance from offshore helidecks at maximum takeoff weight with best-in-class safety margins in the rare case of a single engine failure.

CHOPPER ONE

Kevin Meyers
Chair of EHS Subcommittee

Seat position: 1

Rodney Chase
Former Deputy Group Chief Executive, BP

Seat position: 2

Mike Turner
SVP Production

Seat position: 3

David McManus
Former EVP, Pioneer Natural Resources

Seat position: 4

Zhiyong Zhao
Vice President Asia

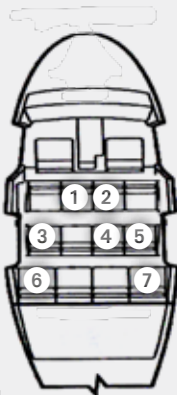
Seat position: 5

Krishna Bala
EHS Director Asia

Seat position: 6

Jan Hoejer
Senior Operations Manager

Seat position: 7



CHOPPER TWO

Greg Hill
Chief Operating Officer

Seat position: 1

Richard Lynch
SVP Technology & Services

Seat position: 2

Floyd Peterson
Director NMB

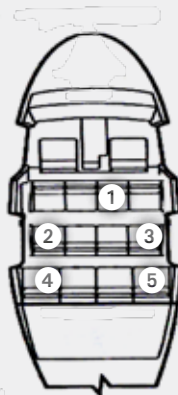
Seat position: 3

Alex Sagebien
Vice President EHS

Seat position: 4

Gerbert Schoonman
Vice President Offshore

Seat position: 5



Flight Path

FLIGHT PATH 1



FLIGHT PATH 2

BERGADING NMB (CPP)

POSITION:

Deg N 07° 07.95'

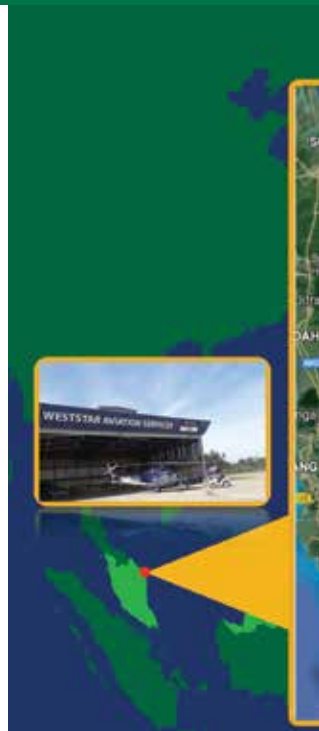
Deg E 103° 25.25'

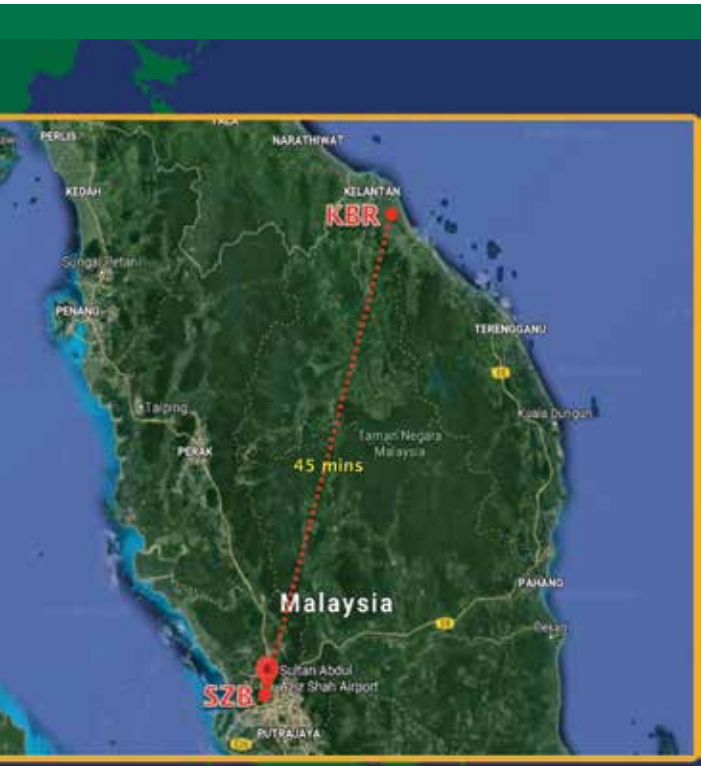
CAKERAWALA (CKP)

POSITION:

Deg N 07° 10' 00 N

Deg E 103° 39' 05.50" E





Hess Asia Overview



KEY FACTS

- ▶ Presence in Malaysia/Thailand since 1998
- ▶ Hess a significant investor
- ▶ Significant contributor to secure gas supply:
 - 25% of gas to Peninsular Malaysia
 - Key supplier to South / Central Thailand
- ▶ Successful partnership with PETRONAS:
 - Key assets with 50% W.I.
 - JDA: Operator Carigali Hess Operating Company (CHOC)
 - NMB: Operator Hess
- ▶ Asia: ~25% of Hess production
- ▶ Achieved start-up of NMB Full Field Development in 2017



North Malay Basin Fact Sheet



2012

Production
Sharing
Contract
signed



2013

year of first
gas for early
production
system

North Malay Basin (NMB) in Block PM302 is a long-life natural gas asset comprised of nine discovered fields with an estimated gross recoverable resource of more than 1.5 TCF of natural gas and more than 20 million barrels of condensate. It is located approximately 186 miles (300 km) offshore the Terengganu Gas Terminal with a water depth of approximately 180 feet (55 m) and multiple gas bearing zones located at depths of 3,500 - 10,000 feet (1,000 - 3,000 m). NMB also includes the Terengganu Gas Terminal, a new gas gathering infrastructure comprised of 300 km of pipeline, a new onshore slug catcher and gas treatment system that integrates membrane technology for acid gas removal.

ASSET DETAILS

- ▶ Hess holds a 50% working interest and is the operator. PETRONAS Carigali, Hess' partner, owns the remaining 50%.
- ▶ First gas from FFD Phase 1 was introduced on July 10, 2017 only 3 years after project sanction and 5 years from PSC signing. It was executed with an industry-leading safety record involving over 20-million man-hours worked.



2017

First gas
production
from Phase 1
FFD



2020

First gas
production from
Phase 2 FFD

- ▶ NMB benefits from a strong and long-term PETRONAS-Hess relationship and experience gained from the jointly-owned and operated asset in the Malaysia-Thailand JDA.
- ▶ Significant source of new gas supply for Peninsular Malaysia.

Full Field Development (FFD)

- ▶ The FFD project establishes a key hub for Hess in Peninsular Malaysia with 400 mmscfd capacity. It is a multi-phase project with gas processing tied back to the Bergading Central Processing Platform (CPP).
- ▶ Phase 1 of the FFD includes the Bergading CPP with a bridge linked wellhead platform and 3 remote wellhead platforms; Bergading C, Bergading D and Kesumba. Phase 1 also includes a floating storage and offloading vessel (FSO) for condensate.
- ▶ Hess sanctioned Phase 2 in 2017, which will bring 2 additional fields onstream in Q1 2020. Phase 3 will be sanctioned in 2019 with first gas from Bergading B wellhead platform in 2021. Subsequent phases will be developed as required to maintain the gas delivery plateau.

NMB CPP Team & Tour Outline

TEAM

JAN HOEJER

Senior Operations Manager (NMB)

HISHAM ADNAN

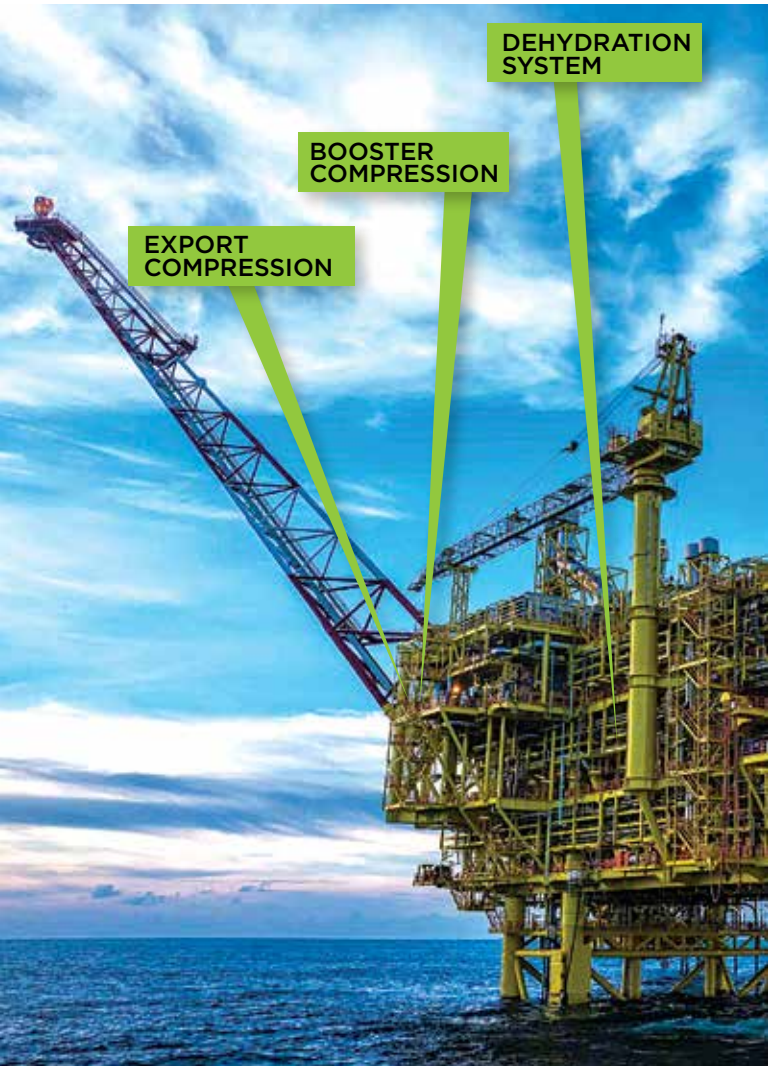
CHEN SIEW KONG

Offshore Installation Manager (CPP)

MOHD IQBAL HAFIZ ABD MANAN

RAVI NACHIAPPEN

Offshore Installation Manager (FSO)



TOUR OUTLINE

- ▶ Site Safety Induction
- ▶ Operational Briefing
- ▶ Site Tour (focus on control of work)
- ▶ Debrief



Malaysia-Thailand Joint Development Area



2005

First gas production



1 bcf/d

gas production capacity

The Malaysia-Thailand Joint Development Area (JDA) is an area of overlapping continental shelf claimed by both Malaysia and the Kingdom of Thailand. The wedge-shaped JDA covers an area of about 7,250 sq. km. JDA consists of blocks A-18, B-17 & C-19, B-17-01 and 2 open blocks. Block A-18 is located in the Gulf of Thailand about 150 km from Kota Bharu, Malaysia and 260 km from Songkhla, Thailand. Hess holds a 50% working interest in Block A-18 which is operated by Carigali Hess Operating Company, a joint venture company formed by PETRONAS Carigali and Hess.

JDA Agreement

- ▶ The Malaysia-Thailand Joint Authority (MTJA) was established as a juristic entity to assume the rights and responsibilities of both countries in exploration and exploitation of non-living natural resources, particularly petroleum, in JDA under the Malaysia-Thailand Joint Authority Act 1990/B.E.2533.
- ▶ Memorandum of Understanding (MOU) signed between Thailand and Malaysia, 1979.
- ▶ Malaysia & Thailand Government agreed to 50 year allowance of exploration & exploitation of non-living natural resources from 1979 to 2029.

Fact Sheet



2017

Cumulative 3 TCF gas and 30 MMBBLS condensate achieved

- ▶ MOU extended by both Governments beyond 2029 in 2017, as it was agreed that there will not be delimitation of the boundary of the continental shelf between Thailand and Malaysia by 2029.

ASSET DETAILS

- ▶ Gas discovered in 1971
- ▶ Production began in 2005
- ▶ 2017 Production: 785 MMscfd of gas, 8000 bpd of condensate
- ▶ 50% JDA gas is supplied to Chana power plants and NGV in southern Thailand and the balance is to Rayong
- ▶ 50% JDA gas is supplied to a gas separation plant that feeds gas to Peninsular Malaysia
- ▶ 25+ years remaining field life



- ◻ A-18
- ◻ B-17 & C-19
- ◻ B-17-01
- ◻ B-17-02 (Open Block)
- ◻ A-18-01 (Open Block)
- ◻ Joining Development Area (JDA)
- ◻ Tripartite Overlapping Claim Area (TOCA)

JDA CKP Team & Tour Outline

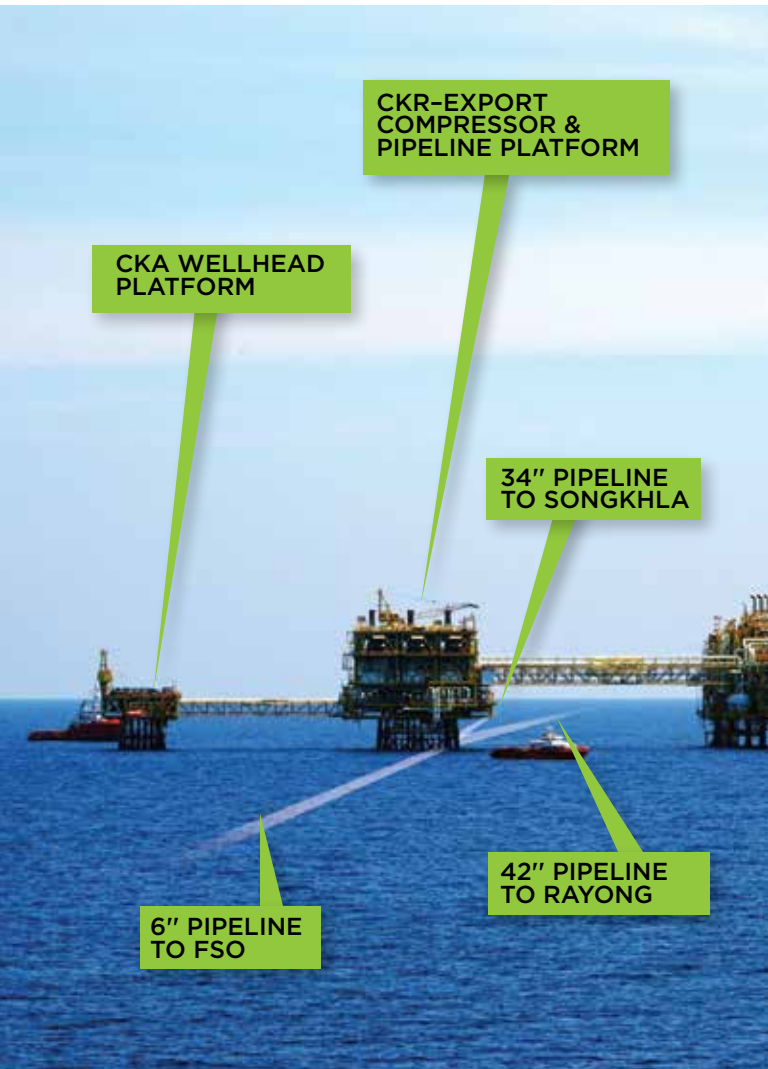
TEAM

JOAQUIN MARTINEZ
General Manager CHOC (JDA)

GRAHAM WILSON
Senior Operations Manager (JDA)

HO WEE KEE
Offshore Installation Manager (JDA)

SOMSAK CHOMBON
Production Supervisor (JDA)



TOUR OUTLINE

- ▶ Site Safety Induction
- ▶ Operational Briefing
- ▶ Site Tour (focus on Process Safety findings)
- ▶ Debrief



**CKP-PROCESSING
PLATFORM AND LIVING
ACCOMMODATION**

**CKX-BOOSTER
COMPRESSOR
PLATFORM**

Contact Information

HESS CONTACT

ZHIYONG ZHAO (VP ASIA)

+603 2788 7198/ +6012 998 7689

KRISHNA BALA (EHS DIRECTOR, ASIA)

+603 2788 7178/ +6012 878 7328

HESS RECEPTION

+603 2788 7000

HESS SECURITY GUARD

+6012 639 0236

EMT INCIDENT COMMANDER

+6012 651 1708 / +6012 273 4914

SHIRLEY WONG

(HESS EXECUTIVE ASSISTANT)

+603 2788 7041 / +6012 201 8636

ZOE MOKHTAR (HESS OFFICE MANAGER)

+603 2788 7277 / +6012 607 7549

EMERGENCY CONTACT

AMBULANCE

999

FIRE/BOMBA

994

POLICE CRIME HOTLINE (24 HRS)

+603 2115 9999

US EMBASSY

+603 2168 5000

BRITISH EMBASSY

+603 2170 2200

MEDICAL CONTACT

TWIN TOWER MEDICAL CENTRE

+603 2382 3500

PRINCE COURT MEDICAL CENTER

+603 2160 0000

GLENEAGLES HOSPITAL

+603 4257 1300

HOTEL & CAR CONTACT

MANDARIN ORIENTAL KUALA LUMPUR

+603 2179 8888

MANN (CAR)

+603 4252 7468

