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Function of OCC and Zonal Concept of OCC operation

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AMENDMENT HISTORY RECORD

Rev No.	Effective Date of Change	Section & Sub- Section Amended	Amendments/ References	Party Requesting for Change
1	XX Oct 2013	Whole Document	Due to organization change of division name from ITSC to ITSO.	DOM, ITSO OCC
2	XX Dec 2020	Whole Document	Due to change of Staff Designations in ITSO OCC. Delete SOE, insert DM Delete DySOE, insert DyAM	Mgr, ITSO OCC

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Section 1. Introduction

1.1.1 This document gives an account of ITSO OCC function and role in managing the Singapore road network and the zonal concept developed to carry out this function.

1.1.2 To effectively manage high traffic flow in a network, it is no longer sufficient to consider only expressways as the major corridors. The focus now must also include the major arterial road corridors.

1.1.3 The focus of operations is to keep corridors and their associated exits and entrances free from congestion as far as practicable.

1.1.4 Singapore road network is made up of many these corridors. To effectively manage the road network, a zone-based operational concept was developed.

1.1.5 The use of zone-based operations is expected to improve traffic control through integrated management of both the arterial roads and portions of expressways major corridors in a particular area by an OE. Thus, effectively dividing the entire road network into manageable portions for the OE.

1.1.6 In addition, it not only allows the OEs to have a overall view of the zone under his/her charge but also to have an overall view of other zones if required, as the OEs will be working closely in coordinating with each other.

Section 2. ITSO OCC Function In Singapore Road Network Management

Sub-Section 2.1 Core Functions of ITSO OCC

2.1.1 To keep Road Corridors and its associated entrances and exits free of congestion

2.1.2 To manage incidents and assist in the clearance of incidents on the roads in the shortest possible time.

2.1.3 To provide quality customer service to the general public with regards to road and vehicular matters.

Section 3. Operational Zonal Division of Singapore Road Network

3.1 ITSO OCC Operational Zoning

3.1.1 Entire road network is divided into 5 Zones and Tunnel zone:

- a) Zone 1--Central
- b) Zone 2 --East
- c) Zone 3 – Northeast
- d) Zone 4 – Northwest
- e) Zone 5 -- West
- f) Zone 6--Southwest
- g) Zone 7—Northcentral
- h) Zone 8—Southeast
- i) CTE Tunnel, FCT, WVT and SGT.

3.1.2 A zone map of the Singapore road network can be referred to in Attachments 1& 2 and the Zone working position layout in ITSO OCC can be found in Attachment 3

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Section 4 Abbreviations

BT	Bukit Timah
GLIDE	Green Link Determining System
ITSO	Intelligent Transport Systems Operations
J-eye	Junction eye
LTA	Land Transport Authority
LTM	Land Transport Authority Traffic Marshal
TB	Telok Blangah
OE	Operations Executive
OCC	Operations Control Center
PP	Pasir Panjang
VRS	Vehicle Recovery Service

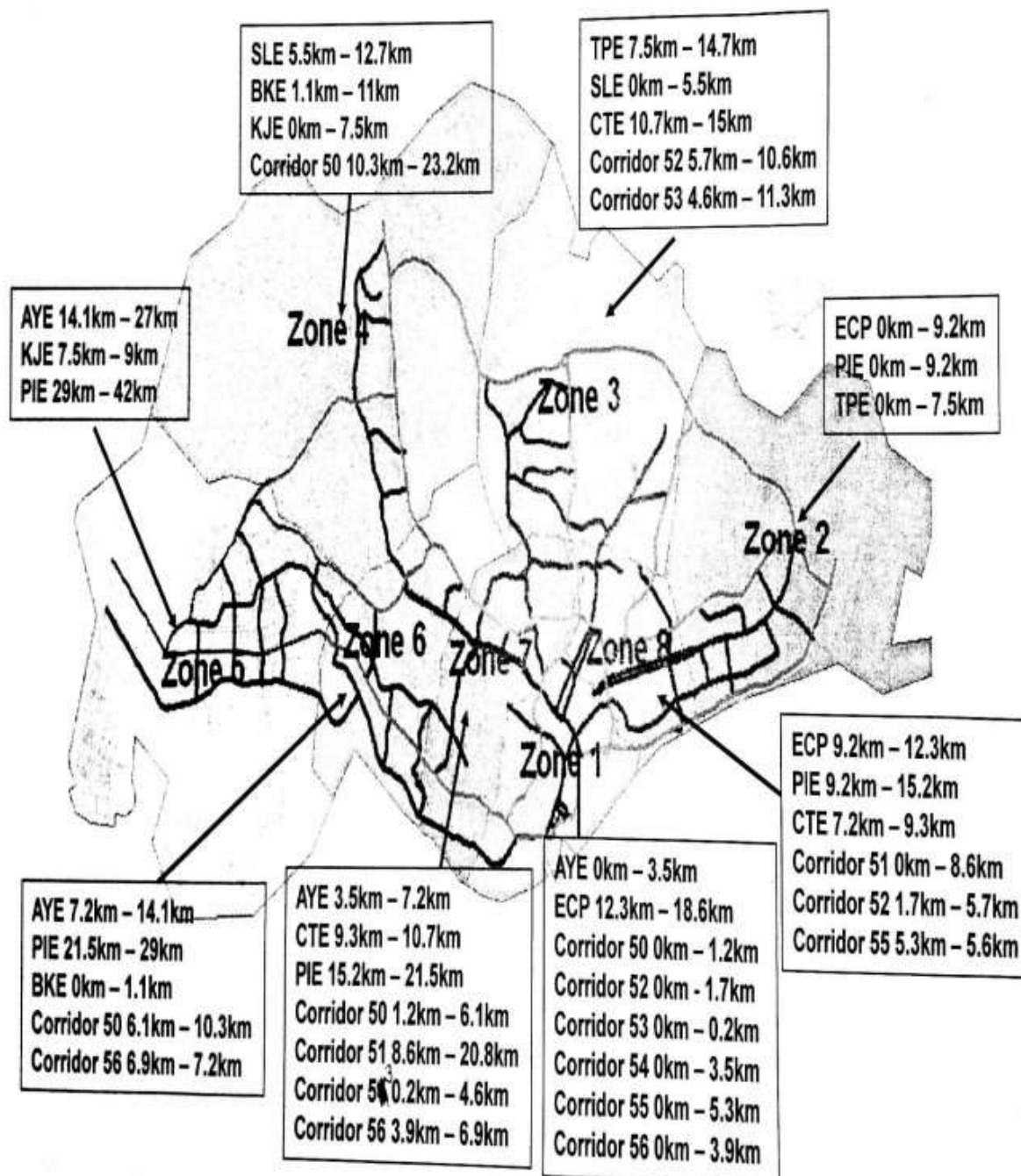
Section 5 References & Attachments

1. Intelligent Transport Systems Center (Operations), Integrated Standard Operating Procedures

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ATTACHMENT 1

EMAS Arterial



ATTACHMENT 2- Zone Breakdown of Singapore Road Network

i-transport zone boundary

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
CTE	0km - 7.2 km		10.7km - 15.2km				9.3km - 10.7km	7.2km - 9.3km
AYE	0km - 3.50 km				14.1km - 27km	7.2km - 14.1km	3.5km - 7.2km	
ECP	12.30km - 18.60 km	0km - 9.2km						9.2km - 12.3km
PIE		0km - 9.2km			29km - 42km	21.5km - 29km	15.2km - 21.5km	9.2km - 15.2km
TPE		0km - 7.5km	7.5km - 14.7km					
SLE			0km - 5.5km	5.5km - 12.7km				
BKE				1.1km - 11km		0km - 1.1km		
KJE				0km - 7.5km	7.5km - 9km			
Corridor 50 (Woodlands)	0km - 1.2km			10.3km - 23.2km		6.1km - 10.3km	1.2km - 6.1km	
Corridor 51 (ORR)							6.6km - 20.8km	0km - 6.6km
Corridor 52 (Serangoon)	0km - 1.7km		5.7km - 10.6km					1.7km - 5.7km
Corridor 53 (Thomson)	0km - 0.2km		4.6km - 11.3km				0.2km - 4.6km	
Corridor 54 (Orchard)	0km - 3.5km							
Corridor 55 (Nicoll Highway)	0km - 5.3km							5.3km - 5.6km
Corridor 56 (Keppel)	0km - 3.9km					6.9km - 7.2km	3.9km - 6.9km	

Note: Zone 1 exclude Tunnel (0.95 - 6.00 km)

0.1km-7.2km(CTE) inclusive of FCT, WVT & SGT-Tunnel Zone

TB/PP viaduct (Sector 1:Keppel Rd till Harbour Front Ave)

TB/PP viaduct (Sector 2: Harbour Front Ave till Alexandra Rd)

TB/PP viaduct (Sector 3: Alexandra Rd till Pasir Panjang Rd)-

BT/Dunearn Rd (Sector 1: From BT /Kg Java junction till BT/Stevens Rd junction)

BT/Dunearn Rd (Sector 2: BT/Stevens Rd junction till BT/Adam Rd junction)

ATTACHMENT 3-ITSO OCC Zone Layout

