

RESTRICTED

REPUBLIC OF SINGAPORE MINISTRY OF DEFENCE

CONTRACT NO. 9021203762

PROJECT D2019-00162
CONSTRUCTION OF 9 BUILDINGS AND
ADDITIONS & ALTERATIONS WORKS TO 2
BUILDINGS ALONG SEMBAWANG ROAD

OPERATION AND MAINTENANCE MANUAL
FOR
FIRE PROTECTION SYSTEM
AT DIEPPE BARRACKS, BLK 2

VOLUME 1 OF 1

CONSULTANT	: PDC CONSULTANTS PTE LTD
MAIN CONTRACTOR	: DEENN ENGINEERING PTE LTD
SUB-CONTRACTOR	: NORTHWAY FIRE PROTECTION PTE LTD

RESTRICTED

PROJECT D2019-00162

OPERATION AND MAINTENANCE MANUAL
FOR

FIRE PROTECTION SYSTEM
AT DIEPPE BARRACKS, BLK 2

VOLUME 1 OF 1

RESTRICTED

Contents

1	SECTION 1 – DESIGN AND OPERATION.....	3
1.1	INTRODUCTION.....	3
1.1.1	Project Team.....	4
1.1.2	Emergency Contact Number During DLP Period.....	5
1.2	SYSTEM DESCRIPTION	6
1.2.1	Fire Alarm System	6
1.2.2	Clean Agent Fire Extinguishing System	7
1.2.3	Wet Sprinkler System.....	8
1.2.4	Dry Riser System	9
1.2.5	Hosereel System.....	10
1.2.6	Fire Extinguisher System	11
1.3	SYSTEM OPERATION.....	12
1.3.1	Fire Alarm System Operation	12
1.3.2	Clean Agent Fire Extinguishing System (FM200) Operation.....	17
1.3.3	Wet Sprinkler System Operation	20
1.3.4	Fire Hosereel System Operation	22
1.3.5	Fire Extinguisher System Operation	23
1.4	OPERATING FLOW CHARTS	24
1.4.1	Fire Alarm Operating Flow Chart.....	24
1.4.2	Fault Operating Flow Chart	25
1.4.3	CAFES (FM 200) Flow Chart	26
1.5	OPERATOR ROUTINE CHECKS	27
1.5.1	Operator Responsibilities	27
1.5.2	Regular Procedures	27
1.5.3	Routine Checks.....	28
2	SECTION 2 - MAINTENANCE	29
2.1	EQUIPMENT SCHEDULE AND CATALOGUE	29
2.1.1	Equipment Schedule	29
2.1.2	Equipment Warranty	30
2.1.3	Certificate Of Compliance / Conformity	31
2.1.4	Product Catalogue	32
2.2	MAINTENANCE REQUIREMENT AND SERVICING SCHEDULE	33
2.2.1	Maintenance Procedure	33
2.2.2	DLP Servicing Schedule	34

RESTRICTED

2.2.3 Servicing Check List..... 35

3 SECTION 3 – DOCUMENTATION 36

3.1 TESTING AND COMMISSIONING REPORT 36

3.2 FIRE ALARM PROGRAMMED DEVICE LIST 37

4 SECTION 4 – AS BUILT DRAWING..... 38

4.1 DRAWING LIST 38

4.2 PLAN AND SCHEMATIC DRAWING 39