

... for a safer Singapore

FIRE AND RESCUE MANAGEMENT SYSTEM (FRMS)

by MAJ Neo Jin Xiang Senior Staff Officer Amusement Rides Team

Scope

- Introduction
- What is FRMS?
- Contingency Planning
 - ✓ Emergency Response Plan
 - ✓ Emergency Response Team
 - ✓ Fire & Rescue Coordinator
- Collaboration with stakeholders
- Conclusion



Introduction

- Together with BCA, SCDF governs the operations of amusement rides (including cableways) in Singapore
- Focuses on the fire safety aspect and contingency planning in the event of an adverse incident
- When required, SCDF will deploy its resources to attend to emergencies





FRMS ensures that the amusement rides comply with fire safety requirements and are equipped with a

Maior ride need

certification by

Conformity

Assessment

Body(CAB)

(by Third Party)

Engagement of

Competent

robust fire & rescue

plan

Person(CP) Submission of Company Submit Submit Risk Emergency Emergency Plans on Fire Assessment Response **Response Plan** Report of Ride Safety Team(CERT) (ERP) (by Operator) (by CP) (by Operator) (by Operator)

Engagement of Fire and

Rescue Coordinator(FRC)

Framework



Contingency Planning

- In the event of any incident, the <u>ride</u> <u>operator</u> is <u>responsible</u> for <u>conducting</u> <u>effective</u> <u>recovery</u> <u>measures</u> to bring the situation back to normalcy.
- When there is a stoppage, system recovery will be the first option to bring passengers back to safety.
- Rescue conducted by SCDF will only take place after all system recovery options are exhausted



Contingency Planning

To ensure that ride operators are adequately prepared for emergencies, SCDF requires the following actions:

- 1) Formulation of an Emergency Response Plan
- 2) Formation of an Emergency Response Team
- 3) Appointment of a Fire & Rescue Coordinator



Why need an Emergency Response Plan?

- To prepare staff for emergencies or adverse incidents
- To ensure that everyone is aware of their specific roles in the conducting evacuation, etc.
- It acts as a review mechanism to ensure that ride operators are aware of the inherent risks associated with the ride



Emergency Response Team

- Formed by staff of the company (who are familiar with the ride operations)
- Emergency Response Team is responsible for mitigating any fires at the initial stage and conduct on-site rescue operations





9/17

Fire and Rescue Coordinator

ARSA Part IV: DUTIES OF FIRE ANDRESCUECOORDINATOROPERATOR

Appointment of fire and rescue coordinator

11.—(1) The operator of an amusement ride shall appoint a person who has undergone and successfully completed such 12

training as is required by the Commissioner of Civil Defence to be the fire and rescue coordinator for the amusement ride.



Fire and Rescue Coordinator

Role of FRC:

- ✓ Ensure that the fire safety and rescue equipment and apparatus provided under the emergency response plan for the amusement ride are maintained in good working condition at all times
- Ensure that the emergency response team is operationally ready to execute the emergency response plan for the amusement ride in the event of an adverse incident
- Conduct daily checks within the vicinity of the ride to ensure that there is no fire hazards and to remove any such item if found
- Conduct drills or exercise from time to time for the purpose of evaluating and validating the effectiveness of emergency response plan
- Notify the Commissioner of SCDF immediately of any adverse incident, and provide a full report on the adverse incident within 24 hours of its occurrence

Establishing working relationship with stakeholders

- Joint-drills and exercises are often conducted with stakeholders to establish a healthy working relationship
- It also provides SCDF an opportunity to understand various rides and the different terrains that they need to operate in



Establishing working relationship with stakeholders

Also provides an opportunity to exchange ideas and learning points

 Establish a presence amongst ride operators





Ground Deployment Exercise with MFLG

- Objective: To assess MFLG and multi-agencies competency in coordinating rescue operations
- Conducted several rounds of discussions with stakeholders on the possible scenarios and other operational issues

14/17



Ground Deployment Exercise with MFLG

Briefing to Crane Operator, CCS and SCDF's team Rigger man ensuring all lifting components is secured

Rescue-Cage being lifted up

Rescue-Cage being anchored to the cabin





15/17

Conclusion

- SCDF works closely with the various ride operators to ensure
 - \checkmark By design, the ride is fire-safe
 - ✓ The ride comes with a robust rescue and emergency system/plan
 - ✓ When required, SCDF is able to conduct efficient rescue when all other means are exhausted
- SCDF conducts checks and audits to ensure compliance, competency of operators in their contingency plans, incl. running of redundancy systems and rescue operations



Thank You



