

# SINGAPORE CIVIL DEFENCE FORCE

Our Ref. : CD/FSSD/12/02/03/01

Your Ref :

Date : 12 August 2011



HQ Singapore Civil Defence Force  
91 Ubi Avenue 4  
Singapore 408827  
Tel : 68481407  
Fax : 68481486

Registrar, Board of Architects (BOA)  
Registrar, Professional Engineers Board (PEB)  
President, Singapore Institute of Architects (SIA)  
President, Institution of Engineers, Singapore (IES)  
President, Association of Consulting Engineers, Singapore (ACES)

Dear Sir/Mdm

## **AMENDMENTS TO THE FIRE CODE – AMENDMENT TO STANDARD FOR FIRE SAFETY IN RAPID TRANSIT SYSTEMS – FIRE SAFETY REQUIREMENTS FOR PERSONS WITH DISABILITIES IN THE STATIONS**

SCDF had issued a circular dated 21 January 2011 on the fire safety requirements for Persons with Disabilities (PWDs). These requirements are applicable to all buildings except residential developments.

2. Following the issuance of this circular, LTA had requested for a review of these requirements for application to rapid transit stations in view of their unique design considerations. The Review Committee of the Standard for Fire Safety in Rapid Transit Systems (SFSRTS) had thus deliberated on the fire safety requirements for the stations for PWDs and we are pleased to attach these requirements in FSR 9:2011.

3. The circular shall take effect on 1 November 2011. Any such projects that have obtained formal written permission from URA on or after the effective date must comply with the new requirements. Please convey the contents of this circular to members of your Institution/Association/Board. The circular is available in CORENET-e-Info: <http://www.corenet.gov.sg/einfo>.



4. For any inquiry or clarification, please contact: Mr Randy Tan at Tel: 68481461 or Email: Randy\_Tan@scdf.gov.sg.

Yours faithfully,

(transmitted via e-mail)  
Poon Keng Soon  
Secretary, FSSD Standing Committee  
for Commissioner  
Singapore Civil Defence Force

cc  
All members of FSSD Standing Committee  
President, REDAS  
President, IFE  
President, SISV  
CEO, BCA  
CEO, URA  
CEO, HDB  
CEO, PSA  
CEO, JTC  
CE, LTA  
CE, TUV SUD PSB – (Attn: Ms Emily Mok/ Mr Lau Keong Ong)  
CE, SPRING Singapore – (Attn: Mr Kenneth Lim)  
President, FSMAS  
Honorary Secretary, SPM



FIRE SAFETY AND SHELTER DEPARTMENT  
SINGAPORE CIVIL DEFENCE FORCE

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# FIRE SAFETY REQUIREMENTS FOR RAPID TRANSIT STATIONS FOR PERSONS WITH DISABILITIES

FSR 9:2011

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Effective Date: 1<sup>st</sup> Nov 2011

*Released by:*

Fire Safety Consultation Branch  
Fire Safety & Shelter Department

(Total 4 pages)

## **FSR 9:2011**

# **FIRE SAFETY REQUIREMENTS FOR RAPID TRANSIT STATIONS FOR PERSONS WITH DISABILITIES**

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## **APPENDIX J**

### **J.1 SCOPE**

J.1.1 The scope of these requirements on the design and management of RTS stations covers the public area of RTS Stations and excludes RTS depots, ancillary buildings, viaducts and tunnels.

J.1.2 These requirements are intended for the safe evacuation of PWDs during fire emergency.

### **J.2 PRINCIPLES OF EVACUATION**

J.2.1 RTS station public areas are designed with barrier-free accessibility under the Building Control Act. The ingress/egress routes for PWDs shall also be used as evacuation routes for PWDs.

J.2.2 RTS stations are of non-combustible construction. The station public areas are segregated from the ancillary areas by fire-rated construction, and are designed with emergency ventilation system to provide a tenable environment for evacuation in the event of fire emergency.

J.2.3 Passenger lifts in stations are primarily provided for use by PWDs. These lifts that are located in the public area shall be used for the evacuation of PWDs.

J.2.4 Management procedures and responsibilities shall be formulated for the evacuation of PWDs in the event of fire.

### **J.3 EVACUATION ROUTES**

J.3.1 The evacuation route for PWDs in the public areas shall comply with the general requirements of the BCA's Code on Accessibility in the Built Environment.

#### **J.4 PASSENGER LIFTS**

- J.4.1 All passenger lifts in RTS stations shall be used to evacuate PWDs in the event of fire emergency.
- J.4.2 Passenger lift shall have a clear platform size of minimum 1200mm width X 1400mm depth.
- J.4.3 Where passenger lifts in RTS stations are located within the public area and within one fire compartment, the lift shafts are not required to be fire-rated. It is also not required to provide fire-rated lift lobby at lift landings.
- J.4.4 From the platform level, PWDs shall use the passenger lift to reach the concourse level. Where concourse level is not the ground level, the PWDs shall be transferred to another lift that is connected to the ground level upon arrival at that concourse level. Directional signage shall be provided on the concourse level to direct PWDs to the lift(s) in accordance with the BCA's Code on Accessibility in the Built Environment.
- J.4.5 In the event of fire emergency, passenger lifts are not required to home to the designated floor. Passenger lifts are to be operated as in under normal conditions for use by PWDs to evacuate the station. Car call control within the lift car shall operate as per normal.
- J.4.6 Appropriate signage on the use of lift during emergency i.e. "In the Event of Emergency, Lift for Use by Persons with Disabilities Only" shall be displayed at the lift landing.
- J.4.7 Lifts in RTS stations shall be provided with electrical power supply from the RTS dual-feeder electrical power supply system for uninterrupted operation during fire emergency.
- J.4.8 Except on the designated floor as defined in SS 550, emergency fire phone shall be provided at each lift landing for PWDs to communicate with the Passenger Service Centre (PSC).

## **J.5 MANAGEMENT OF EVACUATION FOR PWDs**

- J.5.1 Management procedures to assist the evacuation of PWDs during fire emergency shall be pre-planned by the Transit Operator. Proper procedures and effective practices will ensure the safety of PWDs in the event of fire emergency.
- J.5.2 Transit Operator shall ensure that the staff designated to help PWDs in the event of fire emergency are fully trained to execute the following evacuation procedure.
- J.5.3 In the event of fire emergency:
- (a) Trained staff on duty shall check and provide necessary assistance to evacuate PWDs.
  - (b) SCDF takes control of the situation upon their arrival at the scene. Trained staff shall assist SCDF (if required) to evacuate PWDs.
  - (c) Procedures shall be tested at least once a year and involve both horizontal, if provided, and vertical evacuation.