

Your Ref :

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

Date : 19 January 2018

Registrar, Board of Architects  
Registrar, Professional Engineers Board  
President, Singapore Institute of Architects  
President, Institution of Engineers, Singapore  
President, Association of Consulting Engineers, Singapore

Dear Sir/Mdm

## **AMENDMENT TO TECHNICAL REQUIREMENTS FOR STOREY SHELTERS (TR SS) 2015: REMOVAL OF PROVISION OF RADIO OUTLETS**

Under Clause 2.6.1 “General” of the current Technical Requirements for Storey Shelter (TR SS) 2015, radio outlets are required to be provided in compliance with the relevant local Codes of Practice for Info-communication Facilities in Building (COPIF) and statutory requirements for the specified peacetime usage. With the implementation of COPIF 2013, radio outlets are no longer required to be provided in residential dwelling units.

2. To align the telecommunication requirements for TR SS 2015 with COPIF 2013, this circular is to inform the building industry on the removal of radio outlets within the SS. This is also consistent with the issuance of the Technical Requirements for Household Shelters (TRHS) 2017 in November 2017 where radio outlets are no longer required in the HS. Hence, Clause 2.6.1, together with other relevant clauses, of the TR SS 2015 will be amended as shown in Annex A. This shall take immediate effect from the date of this circular.

3. Please convey the contents of this circular to members of your Institution/Association/ Board. The circular is also available in CORENET-e-Info: <http://www.corenet.gov.sg/einfo>. For any inquiry or clarification, please contact the undersigned at 6848 1478.



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SINGAPORE CIVIL DEFENCE FORCE

Yours faithfully,

(transmitted via e-mail)

MAJ Andy Tan  
Fire Safety & Shelter Department  
*for* Commissioner  
Singapore Civil Defence Force

cc

CEO, BCA  
CEO, URA  
CEO, HDB  
President, IFE  
President, SISV  
SCDF Fire Safety Standing Committee  
Fire Code Review Committee  
Shelter Codes Review Committee



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**Annex A**

<b><u>Existing</u></b>	<b><u>Revised</u></b>
<p><b><u>Clause 2.6.1: General</u></b></p> <p>“The following electrical and communication fixtures (Refer to Figure 2.6.1, Figure 2.12.2(a), Figure 2.12.2(d) &amp; Figure 2.12.2(f)) in steel or PVC conduit system shall be provided inside each SS, S/C SS or scissor S/C SS compartment to provide adequate basic stay-in and/or communication facilities:</p> <ul style="list-style-type: none"> <li>(a) 13A switch socket outlets;</li> <li>(b) Switch and lighting points;</li> <li>(c) TV and radio outlets;</li> <li>(d) Communication line for telephony outlet.</li> </ul> <p>The electrical and communication fixtures shall be designed.....”</p>	<p><b><u>Clause 2.6.1: General</u></b></p> <p>“The following electrical and communication fixtures (Refer to Figure 2.6.1, Figure 2.12.2(a), Figure 2.12.2(d) &amp; Figure 2.12.2(f)) in steel or PVC conduit system shall be provided inside each SS, S/C SS or scissor S/C SS compartment to provide adequate basic stay-in and/or communication facilities:</p> <ul style="list-style-type: none"> <li>(a) 13A switch socket outlets;</li> <li>(b) Switch and lighting points;</li> <li>(c) TV outlets;</li> <li>(d) Communication line for telephony outlet.</li> </ul> <p>The electrical and communication fixtures shall be designed.....”</p>



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Clause 2.6.2: Switch Socket Outlets

(a) For SS

Three (3) 13A switch socket outlets shall be provided inside each SS. Two switch socket outlets shall be in the vicinity of the **TV and radio outlets** and communication for telephony outlet located away from the SS door. The third switch socket outlet shall be located near the ventilation sleeve opening. Refer to FIGURE 2.6.1.

(b) For S/C SS

Three (3) 13A switch socket outlets shall be provided inside each S/C SS compartment. At least one switch socket outlet shall be provided at the main landing. The other two switch socket outlets shall be provided at the intermediate landing together with the **TV and radio outlets** and communication for telephony outlet. Refer to FIGURE 2.12.2 (a) and 2.12.2(d) for details.

(c) For Scissor S/C SS

Three (3) 13A switch socket outlets shall be provided inside each scissor S/C SS compartment. At least one switch socket outlet shall be provided at the main landing at the upper floor of the SS compartment. The other two switch socket outlets shall be provided at the main landing, together with the **TV and radio outlets** and communication for telephony outlet at lower floor of the SS compartment. Refer to FIGURE 2.12.2(f) for details.

Clause 2.6.2: Switch Socket Outlets

(a) For SS

Three (3) 13A switch socket outlets shall be provided inside each SS. Two switch socket outlets shall be in the vicinity of the **TV outlets** and communication for telephony outlet located away from the SS door. The third switch socket outlet shall be located near the ventilation sleeve opening. Refer to FIGURE 2.6.1.

(b) For S/C SS

Three (3) 13A switch socket outlets shall be provided inside each S/C SS compartment. At least one switch socket outlet shall be provided at the main landing. The other two switch socket outlets shall be provided at the intermediate landing together with the **TV outlets** and communication for telephony outlet. Refer to FIGURE 2.12.2 (a) and 2.12.2(d) for details.

(c) For Scissor S/C SS

Three (3) 13A switch socket outlets shall be provided inside each scissor S/C SS compartment. At least one switch socket outlet shall be provided at the main landing at the upper floor of the SS compartment. The other two switch socket outlets shall be provided at the main landing, together with the **TV outlets** and communication for telephony outlet at lower floor of the SS compartment. Refer to FIGURE 2.12.2(f) for details.



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Clause 3.6.1 Electrical Services:

“..... Where fixture in the SS are exposed on internal walls and slab, non-metallic inserts are to be used for their mounting. For embedded service cables and fixtures serving the SS, the details shall be as shown in FIGURE 3.5.4(e). The encasement of switch socket outlets, **TV and radio outlets**, communication line for telephony outlet and switches of Clause 2.6 shall be galvanised steel. Refer to FIGURE 3.6.1(b).....”

Clause 6.4 Commissioning Requirements:

“All electrical and communication fixtures such as switch and lighting point, switched socket outlets, **TV and radio outlets** and communication line for telephony outlet, including SS door notice, rescue hatch (applicable to SS), blast hatch (applicable to S/C SS and scissor S/C SS) shall be provided inside the completed SS. The service conduits with electrical cables serving the SS shall be provided prior to commissioning.....”

Clause 3.6.1 Electrical Services:

“.....Where fixture in the SS are exposed on internal walls and slab, non-metallic inserts are to be used for their mounting. For embedded service cables and fixtures serving the SS, the details shall be as shown in FIGURE 3.5.4(e). The encasement of switch socket outlets, **TV outlets**, communication line for telephony outlet and switches of Clause 2.6 shall be galvanised steel. Refer to FIGURE 3.6.1(b).....”

Clause 6.4 Commissioning Requirements:

“All electrical and communication fixtures such as switch and lighting point, switched socket outlets, **TV outlets** and communication line for telephony outlet, including SS door notice, rescue hatch (applicable to SS), blast hatch (applicable to S/C SS and scissor S/C SS) shall be provided inside the completed SS. The service conduits with electrical cables serving the SS shall be provided prior to commissioning.....”



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