

## Fire Safety Engineers (FSE) workshop

Date: 28 June 2024 (Friday)

Time: 10am to 12pm

Mode/Venue: Physical Workshop (HQ SCDF City Campus Classroom, level 3)

S/N	Agenda for discussion	Summary of discussion
01	<p>Update on</p> <ol style="list-style-type: none"><li>PB Regulatory System (Update)<ul style="list-style-type: none"><li>FSE Registration</li><li>Number of PB cases</li></ul></li><li>CPE Program (update)</li><li>Admin Requirements (update)</li></ol>	<p><b><u>Presentation</u></b> See <u>Annex A</u> for the presentation slides.</p> <p>The workshop was attended in person by 45 participants. Mr Nicholas Lee started by sharing with the FSEs on the number of registered FSEs and the number of performance-based (PB) and fire engineering waiver submissions.</p> <p><i><u>Revised CPE Program Framework</u></i></p> <p>Mr Looi Khai Chern (Khai) presented the revised framework for obtaining Continuing Professional Education (CPE) hours. The means of obtaining CPE hours now include (i) qualified formal study courses, (ii) qualified lectures, short courses, conferences, workshops &amp; seminar, (iii) online viewing of qualified lecturers, short courses, conferences, workshops (max 5 CPE hours per cycle), and (iv) conduct lectures, seminars, conferences that has been qualified for CPE, (for the first time) and writing or editing technical articles or papers published in distinguished publication, conference proceedings.</p> <p><i><u>Changes to Approved Waiver via Fire Engineering Assessment</u></i></p> <p>Mr Khai informed that for projects with further design changes which may affect previously approved waivers via fire engineering assessment, FSE shall submit a fresh waiver application and may either revise the performance-based (PB) study or provide explanation on why the design changes do not necessitate revising existing PB study. FSE's explanation shall be subject to SCDF's agreement.</p>

		<p><u>Submission of PB documents</u> Mr Nicholas informed FSEs to include email addresses in all report submissions.</p> <p>Mr Nicholas suggested FSEs to inform the PB team via email (with SCDF reference number) after submitting their FEDBs or Fire Engineering Reports through CORENET so that the PB team can keep a look out and review the fire engineering reports once they are transmitted.</p>
02	Fire Engineering Technical Requirements (update)	<p><b>Presentation</b> See <u>Annex A</u> for the presentation slides.</p> <p><u>Determination of ASET</u> Mr Khai shared that FSEs may provide appropriate justification when there is any observation of smoke logging in CFD result which FSE deems not affecting the Available Safe Egress Time (ASET). He further shared examples of acceptable smoke logging from past approved projects and examples of unacceptable results.</p> <p><u>Corridor Ventilation Assessment</u> Mr Khai shared that fire growth rate for all living unit fire scenarios including residential unit, staff quarter and worker's dorm shall be fast t<sup>2</sup>.</p> <p>He also presented the standardized corridor ventilation assessment method for non-PG II occupancies (such as staff quarter and worker's dorm).</p> <p><u>Report Standardization: Natural Ventilation Opening Sizing</u> Mr Khai reminded FSEs to document clearly the dimension of the openings used for means of natural ventilation and make-up air in FER and O&amp;M manual. FSEs can also help remind QP to indicate on BP drawings that such openings are used for PB natural ventilation.</p> <p><u>Examples of Markup Drawings</u> Mr Khai shared a few good and bad examples of markup drawings for reference.</p>
03	AOB	<p><b>Presentation</b> See <u>Annex A</u> for the presentation slides.</p>

		For future workshops, Mr. Nicholas advised all FSEs to register within the deadline (including payment) so that SCDF can process and finalize their registration before the workshop.
04	Q&A Session	<p>Mr Khai went through two queries previously raised by FSEs via email with the answers provided on the slides.</p> <p>Post deadline, Er. Siew Yee Cheong raised a query on visibility factor. The response is included in Annex A.</p> <p>FSEs who attended the workshop at HQ SCDF would be awarded 3 CPE hours.</p>

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Date: 20 August 2024