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Dear Sir/Madam

DEADLINES FOR PROJECTS REQUIRING MANDATORY BIM (BUILDING INFORMATION MODELLING) E-SUBMISSION FOR REGULATORY APPROVAL

Objective

This circular is to inform the industry of upcoming deadlines for projects requiring mandatory BIM e-submission for regulatory approvals by the relevant authorities.

Background

2 The use of BIM has been identified as a key driver under the construction productivity roadmap to improve the level of integration and collaboration across the various disciplines in the construction value chain. To kick-start BIM adoption early, CORENET started to accept architectural and engineering BIM e-submissions since January 2010 and April 2011 respectively.

3 Subsequently, we announced on 3 Jul 2012 the phased introduction of mandatory BIM e-Submission for certain types of projects.

Deadlines for projects requiring mandatory BIM e-submission for regulatory approval

4 Mandatory BIM e-submission has been introduced in phases since 2013, where architectural or engineering plans are required to be submitted in the BIM format for regulatory approval based on the following BIM e-submission guidelines:

	Gross Floor Area of New Developments		
	More than 20,000 m ²	More than 5,000 m ²	Less than or equal to 5,000m ²
Architecture	Require BIM e-submission if the first application for Planning Permission is made on or after 1 Jul 2013	Require BIM e-submission if the first application for Planning Permission is made on or after 1 Jul 2015	BIM e-submission is optional.
M&E Engineering	Require BIM e-submission if the first application for Planning Permission is made on or after 1 Jul 2014		
C&S Engineering			

- 5 New developments include:
- a) New building and infrastructure projects; and
 - b) A&A projects involving reconstruction or addition of any new building or infrastructure.



6 A list of Frequently Asked Questions on Mandatory BIM e-Submission is attached (please see **Annex A**).

7 To help the industry better understand Mandatory BIM e-Submission, BCA had been conducting free monthly briefing sessions to QPs since August 2012. For more details on BIM briefing session timings, BIM e-submission guidelines and software templates, please refer to the following link:

https://www.corenet.gov.sg/integrated_submission/bim/BIMe_submission.htm.

Clarification

8 We would appreciate if you could convey the contents of this circular to the members of your organization. For clarification, you may email to bca_enquiry@bca.gov.sg or contact the following officers:

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Architecture	Mary Ann Samaniego	DID: 6730 4539 Email: Mary_Ann_SAMANIEGO@bca.gov.sg
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Yours faithfully



TEO ORH HAI
DIRECTOR
BUILDING PLAN AND MANAGEMENT GROUP
For COMMISSIONER OF BUILDING CONTROL

FREQUENTLY ASKED QUESTIONS ON MANDATORY BIM E-SUBMISSION**1. Which engineering plans are subjected to mandatory BIM e-submission requirements?**

In general, BIM models are required to be submitted for all authority submissions in which the submission requirement applies under Paragraph 4. Only submissions involving the following structures are exempted from submitting the BIM models:

- Temporary ERSS submission (e.g. steel struts, sheetpile wall and other ERSS elements which do not form part of the permanent structure)
- Barriers
- Facades, cladding works

If in doubt, QPs are advised to make enquiry with the relevant approving authorities.

2. Are engineering plans of civil engineering works (e.g. rail projects, road works, cable tunnels) subjected to mandatory BIM e-submission requirements?

For civil engineering works, mandatory BIM e-submission requirements for engineering plans will apply if the structures are required to be submitted to BCA for approval and fall under the requirements in Paragraph 4.

3. Are amendment submissions subjected to mandatory BIM e-submission requirements?

Yes.

4. If the first application for Planning Permission is made to JTC for plan lodgement instead of URA, will it be subjected to mandatory BIM e-submission requirements?

Yes. Submission of plan lodgement to JTC is under URA's Lodgement scheme, where JTC acts as agent for URA to issue the acknowledgement for plan lodgement.

5. If a new development with GFA above 5,000m² is submitted for Planning approval in a non-BIM format before 1 July 2015, do subsequent submissions to all regulatory agencies need to be submitted in BIM format after 1 July 2015?

No.

6. If a new development with GFA above 5,000m² is submitted for Planning approval in BIM format after 1 July 2015 but its building plan submission is submitted in phases (with each phased submission having GFA below 5,000m²), would the BIM submission requirement apply to each phased submission?

Yes. The total GFA for the whole development should be considered when assessing whether the BIM submission requirement applies under Paragraph 4 of the circular.

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