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**Environmental Sustainability Group** 

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Dear Sir/ Madam

# CIRCULAR TO PROFESSIONAL INSTITUTES/ ASSOCIATIONS

# AMENDMENTS TO THE CODE ON PERIODIC ENERGY AUDIT OF BUILDING COOLING SYSTEM

# <u>Aim</u>

This circular is to inform the industry on the amendments to the Code on Periodic Energy Audit of Building Cooling System.

# **Background**

- 2 Under 22FH (1) of the Building Control Act, building owners will be served a Notice to conduct an energy audit on their building cooling systems. The three-yearly energy audit shall be carried out by a PE (mechanical) or an energy auditor registered with BCA and conducted in the manner prescribed and specified in the Code on Periodic Energy Audit of Building Cooling System ("Code").
- In the revised Code, additional building performance metrics including indoor air quality measurements (under normal operating room condition), permanent temperature sensors verification by the appointed PE (Mech)/ EA (Appendix B, Code) and total cooling system efficiency (including air-side) (Appendix C, Code) will be required in the energy audit report. The above amendments are detailed in Annex A.

# **Implementation Timeline**

4 Energy Audit report submitted on and after 1 Sep 2020 will have to comply with the revised Code (PEA Code 3.0).

# For Clarification

We would appreciate it if you could convey the contents of this circular to members of your organisation. For clarification, please submit your enquiry through BCA's Online Feedback Form at <a href="https://www.bca.gov.sg/feedbackform/">https://www.bca.gov.sg/feedbackform/</a> or call us at 1800 342 5222.

Yours faithfully

ANG KIAN SENG GROUP DIRECTOR

ENVIRONMENTAL SUSTAINABILITY GROUP for COMMISSIONER OF BUILDING CONTROL

**BUILDING AND CONSTRUCTION AUTHORITY** 

Annex A – Amendments to the Energy Audit Code

Items		Requirements						
0	Permanent temperature sensor verification	Before any data extraction for analysis and computation of performance data, the PE(Mech) /EA shall check the accuracy of permanent temperature sensors and attach the measured results to the audit report (in Appendix B).						
			Main Header CHWST					
		7.3 7.25 7.2 9 7.15 17.05 7.1 7.05 6.9 6.9 6.85 8MS						
		20:1.2	2, 42, 42, 42, 43, 43, 43, 43	Time	Dig Dig Dig A	Dig		
		Main Header CHWRT  13 12.8 12.6 20 12.4 12.2 11.8 11.6 BMS						
		Time						
0	Total building cooling system efficiency to		Average reading	Per	iod	Uni	t	
	include airside.			Daytime^	Night- time~			
			Overall airside efficiency**			kW/RT		
			Overall waterside efficiency			kW/RT		
			Total cooling system efficiency			kW/RT		
		** applic	able for projects certifie	d wader NDD	001E o f	1 D = = 001/		

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