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Our Ref: OM-LA/043

6 June 1997

MEMORANDUM

To : Members of Staff

From : Tan L S

Subject: Revised Code of Practice on Lightning Protection CP33 : 1996

I am pleased to attach a self-explanatory BCD's letter to ACES dated 31 May 1997 concerning the implementation of the revised Code of Practice on Lightning Protection CP33 : 1996 for your information.

For projects which are affected by the revised Code (i.e. BP submissions to BCD by the Architect after 1st July 1997), we should immediately advise the Owners and Architects on the implications on additional cost, building aesthetic etc.

TAN L S

Distribution:

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enc:

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PUBLIC WORKS DEPARTMENT
MINISTRY OF NATIONAL DEVELOPMENT
5 Maxwell Road #19-00, #20-00, Tower Block MND Complex, Singapore 0106.
Tel: 2221211 Telefax: 3258585 Cable: Works Singapore
Correspondence Address

PLEASE QUOTE OUR REF IN YOUR REPLY

Your Ref :
Our Ref : PWD BCD 056/27 Vol 4
Date : 31 May 97

Building Control Division
Public Works Department
5 Maxwell Road #04-00
Tower Block, MND Complex
Singapore 069110

Tel : 3258632
Fax : 3258671

ALPHA
-4 JUN 1997
FAX RECEIVED

ACES
President
Vice-Pres
Hon
Hon
Date 4 JUN 1997
Remarks/Action
Total - 4 pages

President
Association of Consulting Engineers
Singapore
51 Anson Road #02-65
Anson Centre
Singapore 079904

→ FAX To ACES MEMBERS (4.6.97)

Dear Sir

REVISED CODE OF PRACTICE ON LIGHTNING PROTECTION CP 33: 1996

The revised Singapore Standard Code of Practice CP33:1996 was officially launched by the Singapore Productivity and Standards Board on 16th May 1997. In this revised code, most of the technical sections have been updated and expanded.

2 Of all the changes in the code, the most significant and critical one is the change in respect of the way the 'zone of protection' is determined. From the simple 'protective angle' concept prescribed in the old CP33:1985, the zone of protection is now determined by the 'rolling sphere' method which has been embraced by the revised CP33:1996. This new method is meant to enhance the degree of protection for tall structures. The implication is that, based on the rolling sphere method, any building more than 45m high will require air termination to be provided to its external wall surfaces which are above 45m from the ground.

3 As the revised code requirement has significant impact on the envelope design of buildings, it is important that the professional engineer responsible for designing the lightning protection system be consulted early to avoid costly changes to be made to the building facade later on.

4 To minimise possible delay to on-going projects, the Building Control Division of PWD has decided to apply the revised code to only new projects, the building plans of which are submitted to the Division for approval on or after 1st July 1997. For new projects which are designed to the revised code, the professional engineer will certify that the lightning protection system has been designed and installed in accordance to SS CP33:1996 using the new form BCD BPN C3-02. As for on-going projects which are designed to the old code, the professional engineer will certify accordingly using the old form BCD BPN C3-01. A copy each of the two forms BCD BPN C3-01 & 02 is attached for your ease of reference.

5 I would appreciate it if you could bring the contents of this letter to the attention of your members. Thank you.

Yours faithfully

WONG WAI CHING
HEAD, BUILDING PLAN
for DIRECTOR-GENERAL OF PUBLIC WORKS
as BUILDING AUTHORITY
SINGAPORE

ENCs

Form BCD BPN C3-01
(One copy to be submitted)
[2nd June 1997]

THE BUILDING CONTROL ACT (CAP 29)

CERTIFICATE OF SUPERVISION OF LIGHTNING PROTECTION SYSTEM
[Regulation 51(2) of the Building Control Regulations (Cap 29, Rg 5)]

Director-General of Public Works
Building Control Division
5 Maxwell Road #04-00
Tower Block, MND Complex
Singapore 069110

This Certificate is for the lightning protection system(s) for the building works approved under:-

Project Ref. No.: _____

*Lot/Plot _____ *TS/MK _____

Address/Road: _____

Building Name (if any): _____

Remarks: _____

_____

_____

_____

I certify that -

(a) I have supervised the installation of the lightning protection system; and

(b) the design and installation of the lightning protection system are in accordance with the Code of Practice on Lightning Protection in Buildings - SS.CP 33:1985.

Address of Professional Engineer	Name & Signature of Professional Engineer
Tel No.	Date:

[Ver 01.1997]

*Delete accordingly

Form BCD BPN C3-02
(One copy to be submitted)
[2nd June 1997]

THE BUILDING CONTROL ACT (CAP 29)

CERTIFICATE OF SUPERVISION OF LIGHTNING PROTECTION SYSTEM
[Regulation 51(2) of the Building Control Regulations (Cap 29, Rg 5)]

Director-General of Public Works
Building Control Division
5 Maxwell Road #04-00
Tower Block, MND Complex
Singapore 069110

This Certificate is for the lightning protection system(s) for the building works approved under:-

Project Ref. No.: _____

*Lot/Plot _____ *TS/MK _____

Address/Road: _____

Building Name (if any): _____

Remarks: _____

_____

_____

_____

I certify that -

(a) I have supervised the installation of the lightning protection system; and

(b) the design and installation of the lightning protection system are in accordance with the Code of Practice on Lightning Protection in Buildings - SS.CP 33:1996.

Address of Professional Engineer	Name & Signature of Professional Engineer
Tel No.	Date:

[Ver 02.1997]

*Delete accordingly