

FUTURE ENGINEERING AND COMMUNICATION

JL40 tower

SITE SPECIFIC DESIGN REVIEW

Cell No.:

Site Name: Port Kembla

Job No: J244-396

Tower Height: 40m

Client: Comsite Services

Steel code: AS4100

Wind code: AS1170.2 (2002)

Site parameters	
Region =	A2
Terrain Category =	2
Wind return period =	500yrs
Topographic multiplier, M_t =	1.00
Directional multiplier, M_d =	1.00

Antenna Data:

Antenna	EL	Azi-muth	Sta-tus	Cable	Carrier
3 x CPX310R Panels	40		E		
2 x 600Ø M/W	35		E		
3 x CNPX310R Panels	30		E		
8 x UHF SMD4	18-28		E		
4 x 9-Element Yagi	20		E		

Access : Internal ladder

Cable arrangement : feeder brackets on ladder

: Full feeder cables are assumed effective

: UNO, all antennas are assumed to have 1x7/8" feeder

Tower : JL40 Triangular S.S. Tower General Arrangement JL40/1/1

Foundation : Shallow Slab Foundation Details J244-396/3/1

Maximum stress:

Tower = 97%

Foundation = 80%

Deflection @ 27m/s:

Rotation = 0.13 °

Translation = 69 mm

Recommendation: The tower and foundation are adequate for this loading.

- The recommendation given here is valid only for the site conditions, antenna data and tower type shown here. subject to any new antenna mounting steelwork being either supplied or reviewed by FEC for suitability.
- Analysis assumes no upgrade work has been done on the tower without FEC's being notified.
- Unless stated otherwise, microwave dishes are assumed to be planar shielded.
- Data supplied in this report is in support of the recommendations only and is not suitable for any other use whatsoever.
- It is assumed that the tower is not carrying any redundant steelwork or other items which will increase the wind load.
- It is assumed that the physical condition of the structure and foundations remains as built and has been verified by inspection.

Issued By: Alex Chai

Date: 11/06/2010



FUTURE ENGINEERING & COMMUNICATION PTY LTD

29 Spencer Street, Jandakot, Western Australia 6164
Telephone: +61 8 9417 4999
Facsimile: +61 8 9417 5666

FE045

Engineering Design Certificate

We, Future Engineering & Communication PTY LTD state that the design work as described below has been based on current Engineering practice contained in but not limited to the following Codes of Practice: AS4100, AS3600 and AS1170

Project Description: 40m self-supporting tower

Address of site: Lot 1, Old Port Roads,
Port Kembla, NSW

Name of Owner: Comsite Services Pty Limited

Work Covered by this Certificate:

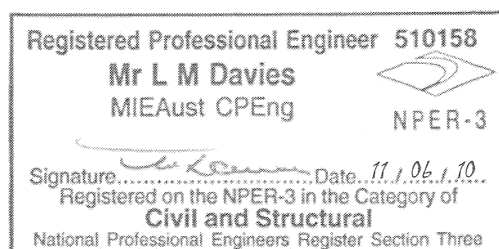
Structural assessment of existing 40m tower

Work Specified on the following drawings and Documents:

FEC structural design review J244-396 dated 11/06/10
JL40 Triangular S.S. Tower General Arrangement JL40/1/1
Shallow Slab Foundation Details J244-396/3/1

I certify that the foregoing particulars are correct.

Signature of Engineer



RPEQ No. 3176, Division: Civil

On behalf of: Future Engineering & Communication Pty Ltd.