

Dear Rebecca

With regard to your request for further information on the proposed radar mast please find the following:

- Please see attached drawings of both north and south elevation of the towers with scale bars etc.
- With regard to location, the mast has been located here because it is positioned over the structural columns inside Alexandra House. This is required as the roof slab does not have the capacity to take the load from the tower, therefore it needs to be directly applied to the columns and there are no columns available further to the east due to the additional floor and cantilever on Alexandra House. The height of the tower has been determined to be as close to the existing tower as possible to maintain line of sight to existing other radar sites along the river which is an essential requirement as part of our Vessel Traffic Service (VTS). As a result the proposed mast will be situated further away from the pier than the existing tower is, which will be removed. The closest part of the PCC tower to the apex of the roof is 11.5m compared to 19.8m for the proposed Alex House tower.
- With regard to design, the tower has been designed to be as slender as possible while maintaining structural integrity for the intended load – which is less than the existing PCC tower which also has a radar scanner which is no longer required. The was intended to reduce possible visual impact of the tower compared to a wider structure. Anything more slender would have necessitated the need for guy wires which require maintenance every 6 months involving climbing along them and greasing them – a design hazard that should be reduced according to CDM regulations.

I hope the above information is sufficient – if you have any other questions please let me know

Regards

Michael

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