

Test Conclusion

Tanta CFA tests conducted by Marconi Research center

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Engineer Alan Boswell of Marconi Research Center, had made complete field measurements of the Egyptian – Tanta CFA for the near field and the far field . We pick up some paragraphs of his lengthy report related to Tanta CFA ONLY

The most important part of his report was confirming the near field full radiation of the CFA which is a good evidence of the synthesizing of the Poynting vector directly from the CFA with no extending induction field which is very new in antenna techniques; Alan reported that :

"The near-zone fields were found to be approximately at the values predicted from an inverse distance relationship".

Regarding the far field measurements of Tanta CFA, Alan Boswell reported:

"The Tanta Far-field measurements indicated that a large proportion of the 25 kW was being radiated. Allowing for the spread in the experimental data the results were consistent with high radiation efficiency"

Alan added also:

"The measurements indicate that the Tanta transmission on 1161 kHz functions efficiently and reaches its designated coverage area. Thus the Tanta CFA is viable on 1161 kHz"

From this report, *it is shown that Tanta CFA is working well in daily service since 1994 .*

Alan has put his conclusion as :

" In the view of the successful results obtained from the Tanta CFA on 1161 kHz...etc"

The rest of the last paragraph was concealed because it belongs to "IOMBC" company project .

Dr. Kabbary Said:

"Suggested height of the 500 kW CFA of IOMBC project is 27 m , to be located above a platform deck height above sea level is 27 m too , resulting into total height of the structure 54 m too " which is more advantages to radiate on sea water of high conductivity , so very high radiation efficiency from the near field upto far field , also height of the CFA above sea level will help to get it easy to control the radiation angle . "