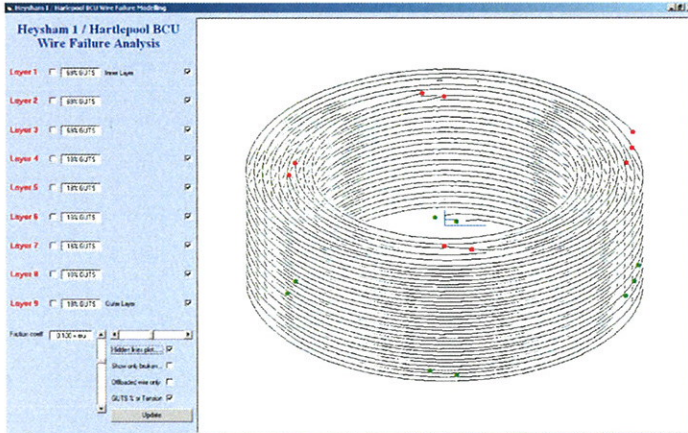




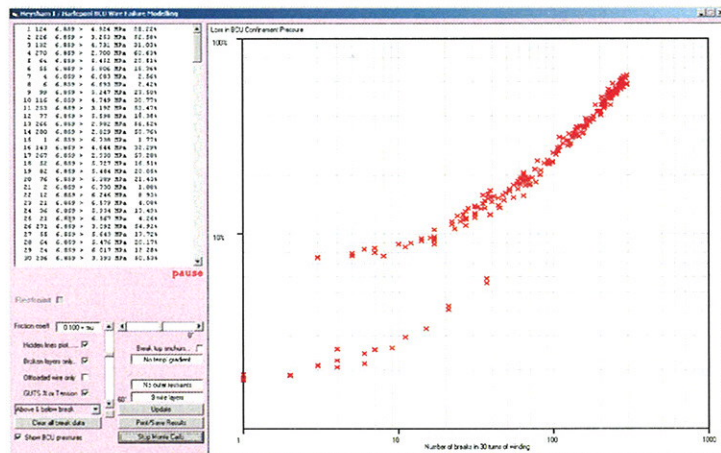
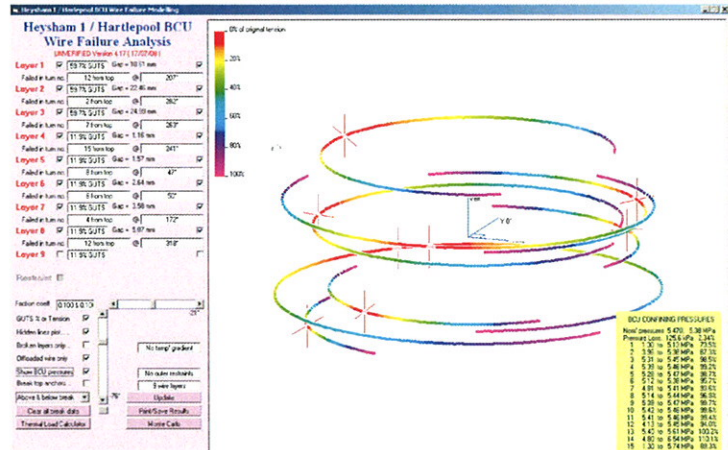
D. C. WHITE & PARTNERS

HEYSHAM 1 / HARTLEPOOL BCU'S - THEORETICAL STUDIES



After the discovery of failed wires in some of the BCU's concern was expressed that failure in one wire could lead to offloading, increased tension and failure of adjacent wire layers. D C White & Partners developed software to assess this possibility. The screen-shots here show some of its capabilities.

For basic investigation, the breaks could be set manually at any position in any wire and the effects, recovery of tension and the tensile offloading onto adjacent wires could be investigated and results displayed graphically.



To assess the hazards associated with large numbers of wire failures, the software could generate breaks at any number of random positions and compute the loss of BCU confining pressure. It was demonstrated that 100 breaks in 30 turns of wire (roughly a break each 2.5 turns of each layer) would lose 10% BCU confining pressure.

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