- (1) F VIII Assay calibrated with plasma standard. Concentrate standard introduced in December 1976.
- (2) Estimates based on first 9 months of 1983/84.
- (3) Assuming F VIII issued according to pro rata input of plasma (current procedure).
- (4) Exclusive production of heat-treated F VIII.
- (5) High batch rejection in these years. This material is awaiting rework and is equivalent to 1.2  $\times$  10  $^6$  IU F VIII.

endix VI

Appendix VI (Cont'd)

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## Comments and Conclusions

- 1. The figures and estimates overleaf (1983 onwards) are based on 1 kg plasma  $\equiv$  270 IU F VIII and one vial  $\equiv$  238 IU. (Data presented on P2 is calculated on 200 IU per kg plasma or per vial).
- 2. Improvements since 1977 can be summarised:
  - (i) Plasma into process has increased 3.7 fold.
  - (ii) Process yield has improved by 67%.
  - (iii) QA losses have been reduced from 17% to 8.7% per batch.
- 3. F VIII production levels in 1983/84 are likely to be artificially high as a result of a substantial reduction in the fresh plasma stockpile (7 647 kg 4 000 kg). It is anticipated that the remaining stock of fresh plasma will be reduced by a further 2 000 kg before April 1984. This will provide an additional 0.5 x  $10^6$  IU F VIII.
- 4. At the current estimated demand of PFC F VIII in Scotland (5.83 x  $10^6$  IU) the projected output from PFC in 1984/85 will exceed demand by approximately 6.32 x  $10^6$  IU.
  - 5. It can be calculated from the above figures that when added to the present PFC stock of F VIII, total stocks in 1985 will be approximately  $10.9 \times 10^6$  IU which is equivalent to two years stock at present rates of usage. This forecast does not take account of substantial stocks of F VIII at Regional Transfusion Centres.
  - 6. Work is in progress aimed at the exclusive production of heated treated F VIII by 1985/86. It is anticipated that this process will initially reduce the process yield to 225 IU F VIII/litre providing 11.25 x 10° from an estimated 50 000 kg plasma.