

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCEGENERAL PURPOSES COMMITTEEBubble Chamber Plant Room

(Note by the Nuclear Equipment Project Committee)

1. The G.P.C. approved a sum of £55,000 for the construction of a building to house the plant associated with the hydrogen and heavy liquid bubble chambers in NI/GP/59/4. Earlier a sum of £200,000 was approved NI/GP/58/18 for the plant to be provided by the Rutherford Laboratory for the hydrogen bubble chamber.
2. When a more accurate cost of the building became available it was apparent that the sum of £55,000 would be exceeded. However it was not clear under which heading certain items such as generator ventilation, H.T. transformer and cabling should be charged and it was felt that the total for buildings and plant might still be covered by the £255,000 available.
3. It is now established that this total will be inadequate to complete the work and it is anticipated that an increase of £40,000 will be needed. The revised estimates are

Building	£110,000
Plant	<u>£185,000</u>
Total	<u>£295,000</u>

4. The following is an approximate analysis of the building cost.

Cost associated solely with the hydrogen bubble chamber.	£36,000
Cost associated solely with the heavy liquid bubble chamber.	£12,000
Cost associated equally with both bubble chambers	£42,000
Cost of the sub-station to serve the bubble chamber plant room and the lab. and office block extension.	<u>£20,000</u>
Total	<u>£110,000</u>

5. Although the building is nearing completion and a large part of the plant has been ordered actual payments amount to only a fraction of the total. In addition to the £40,000 a contingency of £15,000 is proposed to cover the final cost. This does not take into account any future wage increases which may give rise to claims under CVC 2.
6. Approval is therefore requested for a revised estimate of £295,000 plus £15,000 contingencies.

L. B. Mullett  
Chairman, N.E.P.C.