

9th October, 1959

NI (GP)(59) 38

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

GENERAL PURPOSES COMMITTEE

Pulse Amplitude Analyser for the P. L. A.

(Note by Dr. T.G.Pickavance)

I endorse the request by Dr. Stafford, leader
of the P.L.A. Group, for approval of the purchase
of a 1024 channel pulse amplitude analyser. The
estimated cost is £12,000. Since this is not
part of an approved capital project, the
Committees' approval is necessary.

.....

Note for the General Purposes Committee

Request for the necessary financial approval to purchase
a 1024 channel pulse amplitude analyser

In many of the experiments which are planned on the proton linear accelerator (for example experiments of the type $A(p, 2p)B$) and also for experiments that will be done on Nimrod it is likely to be the practice to store on magnetic tape, complex information obtained from various photomultiplier arrays and then play back the stored information at a later time for final calculation and computation of the experimental results. It turns out that the time taken to play back the information is frequently much greater than the original time taken to accumulate the information and in many cases it is prohibitively long. This unprofitable bottleneck can be reduced by the use of a multi-channel pulse height analyser. A 1024 channel analyser suitable for this purpose has been developed by the Electronics Division A.E.R.E., to solve a similar problem in slow neutron time of flight experiments. It will be an invaluable addition to the nuclear physics equipment in the P.L.A. Group and will be used by University teams, the A.E.R.E. team and by Residents.

The estimated cost of the instrument as made by E.M.I. is £12,000.

The purpose of this note is to ask for the necessary financial approval. The delivery time is approximately 12 months.

G. H. Stafford
Proton Linear Accelerator Group

1st October, 1959.