

27th January, 1961.

NI/GP/61/8

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

GENERAL PURPOSES COMMITTEE

'Heavy' Laboratory Buildings: Revised Programme

Note by T. G. Pickavance

1. Provision of additional 'heavy' laboratories at the Rutherford Laboratory was proposed in NI/GP/60/41 for two main purposes:-
 - (a) for the development and testing of nuclear equipment for NIMROD such as high voltage particle separators, quadrupoles and bending magnets. Provision for this laboratory has been included in our forecast estimates for the past two years under the heading 'high voltage test facility'.
 - (b) for accelerator research: a responsibility which has been taken over from the A.E.A. since estimates were prepared a year ago. Equipment for this work is at present occupying space which was provided for work on NIMROD, and is required for that purpose.

The nuclear equipment allocation will initially be about 60%, but some installed equipment will be applicable to both fields of work e.g. D.C. generators and cryogenic plant.

2. After consideration of the requirement by the Rutherford Laboratory Building Committee it was concluded that an ARCON type building, which already exists at the Rutherford Laboratory, is well suited to research and development work on large and (or) heavy equipment. It is largely a standardised prefabricated structure, which makes it economical, and quick to erect on the site.
3. The proposal in NI/GP/60/41 was to extend an existing Arcon-type building to give a further 17,000 sq. ft. of floor area. This scheme has just received Treasury approval at a total cost of £140,000. Subsequent study of this proposal in relation to overall planning of the Rutherford Laboratory made it clear that the new building should be re-sited as indicated on the attached drawing. The general structure and character of the building remain the same, but since it does not necessarily have to match architecturally with the existing Arcon building greater advantage can be taken of competitive tender action.
4. The estimate of £140,000 includes the cost of the building, the electrical and mechanical services (including two 10 ton cranes) and fees. In addition the proportion of associated road work and extension of site services for the building would cost approximately £30,000, approval for which will be sought separately out of the provision in estimates for these items.
5. Provision in estimates

Adequate provision for this item has been made in the 1961/62 estimates. In paper NI/GP/60/36 this provision was included under the general heading "future schemes", but in the final form as submitted to the Treasury it was extracted as a separate item.
6. With the advice of the Rutherford Laboratory Building Committee I request the Committee's approval for the revised scheme detailed above at the same approximate total cost of £140,000.

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Circulation: To Members of the G.P.C. and to Members of the Governing Board for information.

470.2
R 2.

470.1
R1.
R1. 421.50

EXTENSION TO RI

COMPUTOR
EXTENSION

EXTENSION TO 470.2

EXISTING ROAD LINE.

EXC. ROAD LEVEL 420.00

car parking area

NSW ROAD LEVEL 421.00

existing
road line

LEVEL 438.00

NEW ROAD
LEVEL 422.0

PROPOSED HEAVY
DUTY LABORATORY
F.L. 423-00
see drg. no. SW/56619/AK11.

PROPOSE
LINK
F.L. 423.00

PROPOSED
OFFICES
FL 423.00
See drg. no.
SW/56634/AK/1

NEW ROAD
LEVEL 422-C

470.15
R20.

car parking
area

F.L. 421.50

possible
extension

FRANCE LINE