

15th December, 1961.

NI/GP/62/4

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

GENERAL PURPOSES COMMITTEE

Extension to Building R.12

Note by G. H. Stafford

1. A meeting of the General Purposes Committee held on 20th July, 1961, gave approval for the total cost (including fees) of the P.L.A. extensions to R.12 including the radio-chemistry building to be increased from £230,000 to £268,000 (see Paper NI/GP/61/35).
2. The purpose of this note is to inform the committee that the cost of the building has been reviewed and that although the architects believe that they will be able to keep within the existing sum this has only been possible by the omission of certain items some of which will be required at a later date.
3. The most important omissions are as follows:-
 - (a) It was intended originally to replace the existing temporary hutting in the P.L.A. complex by a more permanent structure. This work will not now be carried out, resulting in a saving of £5,000.
 - (b) The radio-chemistry wing originally contained 4 laboratory suites. For the present only 3 of these suites are to be completely fitted out, the remaining room being used for more conventional laboratory work and converted later. The saving here will be approximately £2,500.
4. The temporary hutting is only of a very limited use for laboratory work and is considered by the Fire Committee to be a fire hazard. The removal of this building is, therefore, desirable but will now be made part of a wider scheme for accommodation in the P.L.A. area which will be presented to the Committee for consideration at a later date.
5. Full details of the savings are given in the Appendix prepared by Mr. Choate.

Rutherford High Energy Laboratory,
HARWELL, Didcot, Berks.

Copy of a minute from Mr. Choate to Dr. Stafford

Dr. G. H. Stafford,
Building R.12,
Rutherford Laboratory,
NIRNS, HARWELL.

N.I.R.N.S. - P.L.A. Extension, R.12

With reference to our joint review of the estimate for P.L.A. Extension I have now received figures from our Quantity Surveyors for the proposed omissions which will enable us to keep within the present ITP subject to additional funds required for the C.V.C. October 1961 rise and already reported to Mr. Miller by Mr. Flook on 2nd November.

The estimate is still therefore:-

	£
Architect	154,000
Engineer	71,000
Furniture	8,500
	<u>£233,500</u>
C.V.C. October rise	4,500
Total excluding fees -	<u><u>£238,000</u></u>

The omissions on the Architects work are:-

	<u>Estimated Saving</u>
	£
1. Painted softwood cills in lieu of quarry tiles in single storey laboratories.	40
2. Thermoplastic tiles in lieu of line except in Active Laboratories.	220
3. 'Spatterdash' finish on fair faced brickwork in toilets in lieu of plaster and paint.	50
4. Thermoplastic tiles in entrance hall in lieu of concrete paving slabs.	20
5. Universal tiles on low level roof adjacent to Plant Room, reduced to 10' width.	65
6. Reduce 'Road B' from concrete paving slabs 8' 0" wide to 3" in situ concrete 6' 0" wide with concrete edging strip.	150
7. Reduce the concrete paving slabs outside main entrance hall to 10' 0" wide	65
8. Reduce all internal asphalt skirtings to 3" high in lieu of 6" high.	160
9. Fair faced brickwork, unpainted, in Cleaners Room in lieu of plaster and emulsion paint.	15

		£
	Brought forward	785
10.	Revisions to Active Ducts as 'marked up' drawing including savings on polythene pipework and chlorinated rubber paint in lieu of asphalt linings.	1,400
11.	Omission of provisional sum included in original estimate for demolition etc. of temporary hutting.	5,000
		7,185
	say	<u>£7,000</u>

We have also managed to reduce the building work in our final detailing for the Delay Tank and its associated Pump House, but as this was referred to at a previous meeting, I have not included it in the above list.

The omissions on the Engineers work are as follows, but it is not possible to give figures against every item.

1. Experimental Area Extension

- (a) Omission of the installation of the bus bar trunking and supports in the existing Experimental Area.
- (b) Re-use of existing lighting fittings and circuits in existing Experimental Area instead of installation of new lighting fittings as used in the new extension.

2. P.L.A. Mechanical Services Installation

- (a) Partial installation only of vacuum system.
- (b) " " " " distilled water system.
- (c) Omit installation of unit heater in plant room.
- (d) Partial installation only of mechanical services in Radio Chemistry Wing Suite 3.

Saving approx. £1,000

3. Ventilation Plant - Radio Chemistry Wing

		£
(a)	Plenum supply duct specification change (i.e. Galvanised duct without all welded flanges).	Saving 700
(b)	Cheaper form of duct supports.	" 57
(c)	Single inlet instead of double inlet plenum fan.	" 306
(d)	Use of a cheaper form of anti-vibration mounting for plant.	" 140
(e)	Omission of M/V air flow indicators.	" 448
		£1,651

4. Fume Cupboards

The supply of three sets of fume cupboards instead of four (i.e. omitted from suite 3). Saving £1,820

5. P.L.A. Electrical Services Installation

- (a) Omission of electrical services in suite 3.
 - (b) Modified type of lighting installation in plant room.
 - (c) Minor omissions of electrical services in workshop.
6. The duplicate plenum fan motor and starter is also being omitted.

We are retaining the furniture estimate at its present level, although with your agreement the benches for the fourth laboratory could be omitted for the time being.

I trust you now have sufficient information to take any necessary action on your side, but if I can assist further, please let me know and I will endeavour to answer any further queries.

(signed) K. H. CHOATE
Assistant Chief Architect

Southern Works Organisation,
Tadley, Hants.

1st December, 1961.