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**Pacific Northwest Laboratory
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by Battelle Memorial Institute**



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D. D. Straub
Design Engineering Division

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ADDITIONAL DESIGN ITEMS FOR G-100 PROJECT

After completion of the initial specifications of process and equipment requirements for the G-100 Project by the Technical Division, it was necessary from time to time to ask for additional or substitute facilities and equipment. In most of these cases it was found that completion of the newly specified item could not be expected in time for plant start-up and that installation could be finished as soon after starting as possible.

During the past two weeks you have collected these items into a group for the purpose of determining the magnitude of the design job and the probable cost, with the expectation of writing a project proposal (or Part II of Project G-100) requesting funds if the work could not be finished in Part III of G-100 or if the scope of the work was otherwise altered. Several meetings have been attended by yourself, J. B. Gray, F. E. Schilling, G. L. Cragger, E. A. Maulding and the writer in an attempt to plan this work.

At the last of these meetings, September 21, 1948, an agreement was reached that three of the nine previously requested items should be completed as soon as possible, three should be deferred indefinitely, and three should be cancelled in entirety. The table below lists these items, the date and document in which the item was requested, and the decision which was made in the September 21 meeting. The table also lists 12 additional items which were requested at the meeting.

Classification Cancelled and Changed To
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By Authority of CH Henagar,
CG-PR-2, 1-8-92
by DK Hanson, 2-12-92
Verified By DD Burk 2-21-92

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	SECRET	SECRET	SECRET	SECRET
1. Transfer container (for 22 collection)	7/5/46	HR-10681	SECRET	Completed
2. Loading system for 22 M4.	"	"	"	"
3. Requisite for 22 M4. (for 22 collection)	"	"	"	"
4. Fielding inventory equipment	2/10/46	HR-10176	HR-10176	Completed
5. Credits Ship development equipment	2/10/46	HR-10176	HR-10176	"
6. Documentation Field Change Units	7/10/46	HR-10176	HR-10176	"
7. Gas method for verification load	7/15/46	HR-10681	HR-10681	Completed
8. Maintenance loads	7/1/46	E.A. Moulton to P.M. Collins Verbal	"	"
9. Samples for dry chemistry load	8/1/46	"	"	"
10. Sample can loading facilities	8/15/46	"	"	"

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In regard to the disposition of the first three items in the list see the attached.

(1) No proposed change, elimination of the double end and substitution of the two ~~main~~ 231 Building evaporators (in cell and in sample tank) into one evaporator in the 231 Building, is an essential but not a proposed change. It was proposed prior to January of 1948, the incorporation into the rubber glove and remote lines would have been logical and desirable. It was this change at the present time, however, would waste the time and effort already expended in design of main and heating facilities in these two lines. The estimated expenditure (\$200,000) is not deemed justifiable at the present time.

(2) Great advantages of process simplification and improvement and (possibly) savings have been frequently mentioned as possible if the evaporation is eliminated completely. This requires process changes for which information is not now available. Studies in Los Alamos and in England may have shown that sample end evaporation may be eliminated in favor of (a) dilution or partial neutralization before outside precipitation or (b) destruction of nitric acid by such materials as ferrous oxide. These studies may show that both the still and sample end evaporation may be abandoned by circulating the second peroxide cell in 2-3 tank of the 231 Building in (a) low concentration of nitric acid (possibly with platinum catalyst or peroxide decomposition) or (d) burning sulfuric acid. There is also the possibility that (c) the second peroxide cell can be transferred directly to the 231 Building for hydrogenation. Thus, if the proposed change were made today, it might be necessary some months later to design and install a third set of equipment for a major process change.

The basis for the postponement of items 4, 5 and 6 in the above list is primarily one of economy. It is felt reasonable to wait until questions have been asked long enough to establish the need for these replacements or additional items more definitely. Funds for the necessary funds can then be made if required.

The remaining four items of the list have been considered of interest and have been indicated as necessary at first start-up or soon thereafter. It is suggested that these items be included as soon as possible, even if they are considered outside the scope of project 2-122 and it is necessary to bring a part of it into project 2-122 to obtain further funds.

J. Work
J. E. Work
District Engineer

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