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10 December 1957

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MEMORANDUM FOR: Chief, Technical Services Staff

SUBJECT : Request for Extension of Test and Evaluation, and for Redesign and Modification of a TSS Hydrogen Generator

REFERENCE : Memorandum dated 21 August 1957 for C/TSS, Subject: Request for Initiation of Test and Evaluation of Hydrogen Generator

1. Description of the Project

Redesign, modification and proof testing of the TSS Hydrogen Generator developed by [redacted] This work was necessitated by failure of a basic generator retort section in the test and evaluation work described in the referenced memorandum. A section of the retort will be tested to obtain temperature time data involved in the heating and cooling of this piece during intermittent operation of the generator. From this data a stress analysis of this part will be made and a new piece designed. The generator retorts will then be modified and proof tested.

25X1

2. Purpose of the Project

The purpose of this project is to eliminate the one problem area remaining in the operation of the generator and to insure its satisfactory performance to meet an area division need. Two area divisions are concerned: SR and EE and they are currently in need of a supply of lifting gas for propaganda balloon purposes [redacted] Should the subject generator performance prove reliable it would satisfy all the lifting gas requirements of these two area divisions in this area.

25X1

3. Recommended Contractor

The recommended contractor for this work will be the Industrial Gas Branch of the Mechanical Division, ERDL, Fort Belvoir, Virginia. Assis-

25X1

[redacted]

4. Total Cost

The total cost of this work at ERDL is estimated at \$18,000.00. [redacted] will incur some costs also in support of this program, and these funds will be requested separately.

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5. Support Requirements

[Redacted]

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6. Project Engineer

The project engineer for this program will be [Redacted] Room
210 West Outbuilding, extension [Redacted]

Room

25X1

25X1

7. Security Information

[Redacted]

25X1

Chief
TSS/Engineering Division

DD/P/TSS/ED [Redacted]

25X1

Distribution:

Orig - Proj File when ret'd from C/TSS

1 - [Redacted]

25X1

1 - ED Chrono

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