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VISIT TO MOUND LABORATORY BY LRL
PLOWSHARE PERSONNEL

D. L. SCOTT

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- 10. F. M. Huddleston
- 11. W. B. Brown

65-3-158

On Thursday, March 4, 1965, Robert C. Rhoades, Leon L. Smith, Anders W. Lundberg and Bruce E. Brown visited Mound Laboratory to discuss Mound's estimate of the cost of the production of the devices required for the Canal Project. Mound personnel attending the meeting were C. H. H. Chong, G. L. Denniston, F. M. Huddleston, E. L. Murphy, B. C. Blanke, F. D. Lonadier and W. B. Brown.

Prior to discussion of the estimate prepared by Mound Bruce E. Brown reviewed the Plowshare Program. The revised Plowshare schedule is as follows:

- 1964 - The Retarc experiment was performed. This experiment was the opposite of a cratering experiment in that a large mound of loose dirt was built up over the area of the test.
- 1965 - A four (4) kiloton device called "Palanquin" will be fired at the Nevada Test Site as a debris entrapment experiment.
- 1966 - The Schooner device will be tested at the Idaho Site. This device will be fired in hard rock and will have a magnitude of one hundred (100) kilotons. The Schooner is expected to be of the Klickitat type. (It is possible that a device will be tested between the Palanquin and the Schooner experiments).
- 1967 - The Galley test will be performed in Idaho. This experiment will consist of firing seven (7) devices (each twenty (20) kilotons in magnitude) buried in a terrain of varying elevation. The Galley test is expected to demonstrate the ability to produce a level road bed by use of nuclear explosives. This is the first row charge experiment planned.

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1968 - The Carryall experiment will be performed. This program will consist of detonating twenty-five (25) devices each with a yield of twenty (20) to two hundred (200) kilotons. The resulting excavation will be used as a road bed for rail and highway construction between Needles and Barslow, California. The maximum excavation depth required will be three hundred (300) feet and the road bed produced will extend for two (2) miles.

If successful, all of these experiments will culminate in the Canal Project which will require three hundred (300) devices produced over a period of one year. The Canal Project is contemplated for 1969.

The tests scheduled through 1966 have Presidential approval.

Since the last visit of LRL personnel to Mound Laboratory, the design of the Canal devices has been revised and Mound's estimate is based upon these design changes. Bruce E. Brown and Anders W. Lundberg reviewed the design changes. Blueprints of the latest designs are available at Mound. LRL is now preparing model devices for environmental tests based on these latest designs. In addition, Plowshare personnel intend to incorporate any new WR design changes which arise from device testing.

Mound's estimate for the production of the Canal items was reviewed and the LRL personnel were satisfied with the format of the estimate. They requested that Mound personnel verify the numbers and present the estimate to LRL by the middle of March. A rough draft of the estimate will be circulated to the Department Directors by March 10 for their approval.

Plowshare personnel further requested that Mound estimate the time required to prepare the devices for the Galley experiment.



W. B. Brown, Project Coordinator
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