

OFFICE MEMORANDUM

TO : Dean Meyer, Group Leader, H-1

FROM : John Enders, H-1

SUBJECT: Proposal for Sealing Disposal Shafts by H-1

SYMBOL :

DATE: 5/15/67

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Disposal shafts located in Area C and G are used for disposal of solid radioactive material which, for various reasons, is more adequately contained in shafts rather than in the Disposal Pits.

Often it is highly desirable for radiation safety and/or security reasons (or both) to seal items placed in the shafts immediately with concrete. It is now standard practice to seal filled disposal shafts with concrete.

The current procedure of obtaining Ready-Mix cement for the above operations is to (1) write a memo to Eng-4, through H-1 Group office, requesting the work to be done, (2) Eng-4, upon receiving the memo, may or may not issue a work order, apparently depending on whether Eng-4 thinks the request is necessary or not. There have been instances where the H-1 Group office has had to repeat the request and by the time the Ready-Mix finally arrives there has been a time lag of (in some cases) several months.

The simple logistics of the operation are also involved in that the Ready-Mix truck, Eng-4 representative, H-1 representative all need to be at the Area at the same time---and this has also been difficult at times. In the event of an "emergency delivery" it would be almost impossible to schedule delivery of Ready-Mix to a disposal shaft.

It is estimated that one trip by the Ready-Mix truck to Area G would cost about \$100.00 (Labor, Material and Overhead charges).



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Because of the expense involved and the very real time lag in obtaining Ready-Mix by the current procedure it is proposed that H-1 obtain the following equipment and use it to seal disposal shafts:

1. One small size cement mixer equipped with an electric motor.
2. Purchase through SP, 50# bags of Ready-Mix cement.
3. One wheelborrow.

The mixer can be operated by electricity currently available from the MG set located at Area G or by the MG set which is located at TA-50 (Jim Cox's). Water to be added to the Ready-Mix can be hauled in the H-1 pickup truck in a 55 gal. drum. The wheelborrow would be used to transport the cement from the mixer to the disposal shaft. The above equipment would cost about \$100.00 and would pay for themselves in one sealing job.

During the past year there have been two sealing operations and, in addition, had the equipment been available, at least a dozen deliveries would have been sealed with concrete (classified, contaminated material, and/or material with a high activity).

To illustrate the time lag involved between writing the requesting memo and having the work performed, on 6/29/66 a memo was written requesting sealing of disposal shafts. Again, on 4/5/67 a second memo was written and later I was informed that there was no money available to perform the work until the start of the new fiscal year!

