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Date August 14, 1947

File _____

Subject Study Request # 16 - Con-
taminated Air Systems - 1100 Area-Initial Contact.

Those Eligible
To Read The
Attached

By M. E. Ramsey

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To M. C. Leverett

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ChemRisk Document No. 1649

To: M. C. Leverett

August 14, 1947

From: M. E. Ramsey

In Re: Study Request No. 16 - Contaminated Air Systems - 1100
Area-Initial Contact

The contact with Kellex was held on August 14, 1947. Those present: C. Young, A. Baietti - Kellex; J. R. Huffman, A. G. Erdman, and M. E. Ramsey - Technical Division.

1. The scope of Study Request No. 16 was defined as:
 - a. Exhaust of the air from the hoods in basement of Bldg. 1105 beginning at point where individual lines have been combined to form the main header.
 - b. Exhaust of the air from the hot laboratory in Bldg. 1105-A beginning at start of main duct.
 - c. Exhaust of the air from the experimental rooms in basement of 1105-A beginning at start of main header for this system.
 - d. Exhaust of the ventilation air from the header at the base of the process water seal tank, header at base of process water flash tanks, header on process water sump, and header on process purge water retention basin.
 - e. Exhaust of the graphite cooling air from the header at wall of Bldg. 1105-A.

2. Kellex asked what materials would be in the various sources of contaminated air that were to make up the intake for the exhaust system to be studied in Study Request No. 16 and were informed of the following general conditions:

- a. Graphite cooling air from pile would be filtered outside air made radioactive due to its passage through the pile.
- b. The air from the hoods in buildings may or may not be scrubbed - present idea is to have an individual exhaust on each hood.
- c. The air from collection tanks and storage tanks at tank farm will not be filtered (probably will have coarse screen in line) conditioned, or neutralized.
- d. The air from the process purge water retention basin will be a sweep of outside air drawn over the basin.

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documents was authorized by DOE OIG of
Department of Energy on August 22, 1994

To: A. C. Leverett

August 14, 1947

3. Since Study Request No. 16 is dependent on many other study requests, it is very important that such information as the quantity of air, static pressure, humidity, acidity, activity of the contaminated air, and any additional information of value on the air at the points indicated as the outer limit of the scope of Study Request No. 16 be secured. Ramsey is to request such information by letter from the Technical Division contact man on the affected study requests. Kellex will obtain the pertinent information available in their own organization.

4. Kellex was referred to the memo to file by A. C. Leverett dated 5-20-47 entitled Tentative Dimensions of Graphite Cooling Systems and a letter Stockdale to Leverett dated 6-20-47 entitled Graphite Cooling System Requirements, for a general survey of the graphite cooling air.

5. Kellex was asked to provide individual seals on inlet and exhaust of each fan in the exhaust system so that they could be isolated for decontamination and repair work. The water seal pits in the present 115 Bldg. were used as an example.

6. Construction of the system is to be such that it will handle the small amounts of corrosive gases in the contaminated air system.

7. The Kellex men were taken to Bldg. 115 to inspect the present fans at their request. The poor performance, of bearings and dampers of this installation, was discussed and emphasis put on the need for the fan installation under study to be very free of mechanical troubles and to be designed for easy access to take care of any repairs or decontamination.

M. E. Ramsey
M. E. Ramsey
Technical Division

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