

DRAFT NO. 1
Gilfillan-Welt
2/5/58

1. file Curtiss Wright.

COMMENTS ON CURTISS-WRIGHT RESEARCH REACTOR FINAL HAZARDS EVALUATION REPORT

1. It is not clear whether or not there is a shielding problem on the three sides of the pool wall which have no penetrations. The walls are made of concrete 1 ft. thick and the reactor can be moved within 4 ft. of the pool wall. This is probably not sufficient shielding if there are rooms on the other side of the wall.

2. It is not clear whether or not there is any mechanism to prevent the insertion of reflector elements into the grid plate holes provided for the fuel elements.

3. The reflector can be light water, graphite or beryllium oxide. The report discusses the worth of the control rods when the reflector is water or graphite but not when beryllium oxide is the reflector.

4. The dimensions of the beam tubes are known only by inference; no actual dimensions are given.

5. An evaporator will be used in conjunction with laboratory operations for concentrating highly radioactive waste. There is no discussion of any off gas monitoring system for the evaporation^{OR}. Presumably most of the highly radioactive waste will come from the hot labs.

6. They expect to bury low level solid waste on the site but state none will be buried containing more activity than can be buried under existing Federal and State Regulations. It might be advisable to check to see if they have discussed this waste handling procedure with the proper State authorities and if both parties are in agreement on the interpretation of the State Regulations.

7. No mention is made of the void coefficient, and temperature coefficient is by our calculation $(-1 \times 10^{-4} \text{ k/k/}^{\circ}\text{F})$.

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