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Dosage Limitations for Aircrews Flying for Hal Plank

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1. Hal Plank stopped in today to discuss with Dr. Shipman and me the amount of radiation exposure that his aircrews would be allowed during Operation Redwing.

2. Hal Plank explained the general principles of operation of these aircrews' presented his information as to the dosage that could reasonably be expected on various missions, and what variations could possibly result from "pilots error". As in the case of Col. Pinson's request for excessive dosage, Dr. Shipman took the approach that the limitation should be zoned rather than fixed at one definite figure. The lower limit of the zone was defined as the "authorized dosage"; within reason, the dosage accumulated by the aircrews should remain below this level. The upper limit of the zone was defined as the "limiting dosage."

3. As a result of the discussions, the following limitations were established:

a. The authorized dosage for the aircrews is to be a 10 roentgen total. All efforts will be made by Hal Plank to limit crew participation in such a manner that no aircrew member is knowingly given a total dose in excess of the 10 roentgen level.

b. The limiting dosage for the aircrews is to be a 20 roentgen total. This limiting dosage should provide an adequate cushion to allow for such things as the pilot turning the wrong way and ending up where he shouldn't be. In addition, if operational necessity so demands, it will allow Hal Plank sufficient latitude in scheduling his aircrews as to permit the aircrews to accumulate a dose in the zone limited by 10 and 20 roentgens. Any deliberate planned exposure in excess of 10 roentgens but less than 20 is only to be considered in an emergency operational basis, after discussion with and approval by CTC 7.1.

c. Any dosage in excess of 20 roentgens is to be considered as an over-exposure that must be properly accounted for and explained.

4. Dr. Shipman has concurred in these limitations. It is requested that these be considered final in the case of Hal Plank's aircrews. In the event that you have any objections, we can all get together and resolve the matter

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Per DEBYS H. DUNNING GORDON L. JACKS  
(Person authorizing change in classification and date) Commander, TU-7

CM:deb *Eric L. Shipman* 10/2/57  
(Signature of person making the change and date)

- DISTRIBUTION
- 1A & 2A - William E. Ogle
- 3A - Dr. Shipman
- 4A - Hal Plank
- 5A - TU-7 File

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