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FROM LOCATION : Research Department, Mound Laboratory
DATE : August 30, 1965
SUBJECT : Changes to Fissile Material Handling Procedures in SW-142
REFERENCE : MLM-CF-63-8-54

MOUND LABORATORY-MONSANTO
CENTRAL FILE NO. 65-8-545

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TO : Mr. John B. Kahle, Chairman
Criticality Committee

REVIEWED AND NOT DECLASSIFIED

~~SECRET~~
DATE 8/3/65

By [Signature]
For the U. S. Energy Research and Development Administration
DATE 4/75

As presented to a meeting of the Criticality Committee, August 3, 1965, the following changes to fissile material handling procedures in SW-142 are proposed (Reference: MLM-CF-63-8-54).

1. Uranium-233 as metal or alloy in amounts of less than a critical unit (3.21 kg uranium-233) may be permitted in SW-142. The total fissile material present in the room in SW-142 shall not exceed 6 maximum value units for the total of uranium-233, uranium-235 and/or plutonium-239.
2. Uranium-233 parts in amounts less than a critical unit will be kept in birdcages when not being used.
3. The maximum of 6 birdcages permitted in SW-142 at one time will not be changed.
4. Only one or less unit of fissionable material of any type will be permitted in either the Machine box line or the Assembly box line at any time. Current usage of uranium-233 in the Metallographic lines is not contemplated. Each line log will be maintained on the uranium-233, in addition to logging the uranium-235 and plutonium-239, noting entry, loss and exit of fissionable material.
5. Handling procedures for movement, assembly, x-ray, and leak checking of the uranium-233 parts or device sub-assemblies will be those used for the greater than 93% uranium-235 or plutonium-239 outlined in MLM-CF-63-8-54.

GROUP 1
Excluded from automatic downgrading and declassification

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REFERENCE: 6/6/60 AUTHORITY: [Signature] NAME: [Signature]	1. CLASSIFICATION 2. CLASSIFICATION CHANGED TO 3. CONTAINS NO DOE CLASSIFIED INFO 4. COORDINATE WITH 5. CLASSIFICATION CANCELLED 6. CLASSIFIED INFO BRACKETED 7. OTHER (SPECIFY)
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Changes to Fissile Material Handling Procedures in SW-142, August 30, 1965

6. Uranium-233 in the amount of 2.485 kg with the configuration shown on LRL drawing AAA65-112060-0B, having a core of $\text{Li}^6\text{D/T}$ and a shell of tungsten will not exceed limits of criticality under conditions of assembly as described at the August 3, 1965, meeting of the committee.

Bertram C. Blanke

Bertram C. Blanke

BCB:lg

~~SECRET~~