

Internal Letter



Rockwell International

Date: January 18, 1978

No: .

TO: (Name, Organization, Internal Address)
R. J. Tuttle
071, 779-NB13

FROM: (Name, Organization, Internal Address, Phone)
F. E. Begley
071, 779-NB13
1320

Subject: Unconditional Release of Building T724 - *Now BLDG 133*
for Unrestricted Use

A review of the history of T724 prior to its release for unrestricted use revealed the following facts.

A smear survey of T724 was conducted July 13, 1977 by R. K. Owen. The survey covered the concrete floor and walls up to approximately 7' above the floor. An instrument survey (Nuclear Chicago 2650) of the floor indicated radiation levels to 0.4 mrad/hr $\beta\gamma$. The walls were not instrument surveyed due to background levels. The smears were counted on a Nuclear Chicago gas proportional counter at T143, and showed six areas, out of 106 smears, with removable contamination above the action limit of Table I in SRR-704-990-001, "Operational Safety Plan for the AI Decontamination and Disposition of Facilities Program."

Removable Contamination

20 dpm/100 cm² alpha

100 dpm/100 cm² beta

Total Contamination

100 dpm/100 cm² alpha

0.1 mrad/hr. beta-gamma measured
through 7 mg/cm² absorber at 1 cm

Decontamination was performed on the walls to bring them under the acceptable limits of Table I.

Detailed Working Procedure N704DWP990057 dated August 9, 1977, outlined the procedure for decontaminating and dismantling T724 which consisted of a 10'x22'x12' building, a drain pump, and an oil storage pit.

A review of the SRE (T143) log showed that on November 11, 1977, L. Johnson, D/779; F. Seward, D/731; and J. Bigger, D/720, toured T724 to discuss the status of the facility. On December 1, 1977, L. Johnson performed a smear survey (180 smears) of the inside and outside surfaces of the facility, including the ductwork. Contamination levels were <50 dpm/100 cm² β which is within the limits of Table I of SRR-704-990-001. The outside of the building was marked approximately 12" from the ground as a cutting guide for the AI weldors.

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On December 19, 1977, the building was cut away from the foundation leaving the boiler and heat exchanger. The building was moved down the road to a temporary location near the Box Shop T163. An instrument survey by R. K. Owen, D/779, and J. C. Guzman, D/731, using a Tracerlab PUG-I and Technical Associates CP6M "Cutie Pie" showed areas above the Table I limit. These areas were cut away by an AI weldor and the walls were resurveyed. It was then determined that the radiation level was below the limit of Table I, and the building was released for unrestricted use. The building was relocated to a site west of T143, and will be used as a sodium burn facility for the LMEC.

The concrete foundation remains at the original site, and will be disposed of as part of the D&D program.

F. E. Begley

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Radiation and Nuclear Safety

Now Blotky T133

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cc: R. K. Owen/T724 file