

PROCEDURE FOR THE LIMITS FOR DECONTAMINATION AND RELEASE
OF
PEOPLE AND PERSONAL EFFECTS FROM THE LIMITED ACCESS AREA

PROCEDURE R 1011

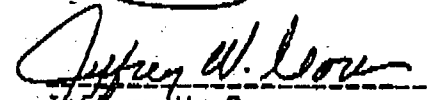
REVISION 0

MAY 18, 1989

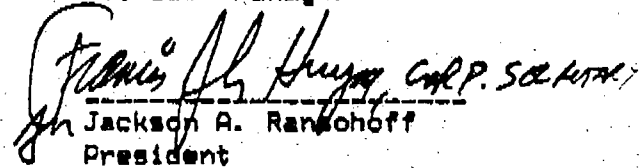
Reviewed for Radiation Safety
and Approved


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Intended Purpose and Approved


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A/21

PROCEDURE FOR THE LIMITS FOR DECONTAMINATION AND RELEASE
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PROCEDURE R 1011

REVISION 0

MAY 10, 1989

SCOPE

This procedure sets forth the decontamination procedures and release limits for people and personal effects from the Limited Access Area. This procedure does not apply to transportation of radioactive materials from the Limited Access Area which are covered by DOT regulations and other internal Neutron Products' procedures.

1. REFERENCES

- Manufacturer's data for the gas proportional monitor;
- NPI Procedure R 2031, Revision 0.

2. GENERAL CONSIDERATIONS

To control the amount of cobalt-60 fixed contamination on personnel, personal effects and materials leaving the Limited Access Area.

3. PERSONNEL AND SUPERVISION REQUIREMENTS

- Personnel trained in frisking with the Ludlum Geiger Mueller Pancake Probe;
- Personnel trained in the use of the Helgeson Mini-HECM Booth Counter;
- Supervision by the Radiation Safety Officer.

4. EQUIPMENT

- Ludlum 177 monitors equipped with a Ludlum Model 44-9 Geiger Mueller Pancake Probe, or equal;
- A Helgeson Mini-HECM gas proportional booth monitor.

5. DETECTED CONTAMINATION

Level (dpm)

greater than 2500 hands
greater than 5000 body

greater than 10,000

greater than 22,000

greater than 50,000

Action

Document and Decontaminate.

Report to the RSO.

RSO must evaluate for monthly report to CRH.

Notify CRH within two hours.

6. FIXED CONTAMINATION RELEASE LEVELS

The levels and actions subsequent to decontamination

Level

Below 10,000 dpm (4.5 nCi)

Between 10,000 dpm (4.5 nCi)
and 55,000 dpm (25 nCi)

Between 55,000 dpm (25 nCi)
and 220,000 dpm (100 nCi)

Over 220,000 dpm (100 nCi)

Action

Documented release is permitted without further monitoring.

Documented release is permitted and documented monthly monitoring is required.

Release, modification or confiscation will be considered and decided on a case-by-case basis. Any release will be documented and monitored monthly.

Released only after consultation with CRH.

7. DISCRETE PARTICLE ACTION LEVELS

Level

75 μ Ci-hr

Action

Document and report any event that exceeds the action level in accordance with overexposure reporting requirements.

The location of the calculated exposure will be documented. In order to assure against a recurrence, the overexposed area will be physically protected, e.g., with heavy tape for the balance of the calendar quarter.