

KAM rule 17 Removal of cadavers and bedding

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2	October 16, 2018	Put in the format of the Stichting-ALt and small textual amendments	St. AL site	Management
1	01 July 2016	Taken over from BBio (NVI)/RIVM version	St. AL site	Management
Rev.	Date	Description	Author	Approved by

Changes with respect to the previous version

The KAM rule has been put in the Stichting-ALt format. At the same time, a few updates were implemented:

- 'ALT' (Antonie van Leeuwenhoekterrein) has been changed into: USPB (Utrecht Science Park Bilthoven).
- 'FB-ALT-L&O Department' has been changed into: PSP (Poonawalla Science Park B.V.).
- List of abbreviations and references added.
- Dispose of chemically contaminated cadavers or bedding in accordance with ADR (KAM rule 07).

Introduction

Cadavers and bedding (manure/sawdust from animal cages) are potential sources of infections and decay. This KAM rule describes the requirements for dealing with cadavers and bedding, in order to restrict the exposure hazards to humans and the environment. This KAM rule describes very specific waste. The responsibilities are as described in [KAM rule 08](#).

Target group

This KAM rule is intended for all groups of employees at the Utrecht Science Park Bilthoven (USPB) who are involved with cadavers and residual materials from animal cages or rooms.

Procedure/measures

Procedure

- The organisations that produce cadavers and/or bedding ensure that this waste is collected in the correct waste containers, marked and submitted for disposal.
- The containers are placed in the designated collection points (see attachment) before 3 pm and only on working days.
- These containers are available via PSP; request them via SelfService.
- PSP will ensure that the waste containers are collected from the collection points and that new waste containers are supplied.
- A distinction is made between microbiologically contaminated waste and non microbiologically contaminated waste.
- If necessary, put enough absorbent material in the container (see appendix 4 of KAM 008); there should be enough absorbent material to absorb the adherent moisture.
- Full containers will be cleaned and disinfected on the outside before submitting them for transport. Containers will be marked in accordance with [KAM rule 08](#) (provided with a lead tag or sticker with a traceable 'tang' number, department code, and/or barcode).
- Full containers must be reported via SelfService.

Cadavers

1. Non-contaminated cadavers or parts thereof are collected in a 30-litre WIVA container and provided with a hermetically closable **yellow** lid.

Larger cadavers that do not fit in a 30-litre WIVA container, can (after consultation with the PSP Logistics Centre - logistiekcentrum@poonawallasciencepark.nl) be disposed of in a 60-litre WIVA container provided with a hermetically closable **yellow** lid.

For larger cadavers that do not fit in a 60-litre WIVA container, contact the PSP Logistics Centre (logistiekcentrum@poonawallasciencepark.nl).

2. Biologically contaminated cadavers

- 2.1 Cadavers that have been intentionally exposed to or infected with a low-risk pathogen of a category no higher than level 2 (DM-I/ DM-II and BSL-2, with the exception of the poliovirus and vaccinia virus) are

removed in WIVA containers with a **yellow** lid.

- 2.2 Cadavers that have been intentionally exposed to or infected with biological agents of level 3 (BSL-3, ML-III and DM-III) and the poliovirus and vaccinia virus, must be inactivated in accordance with a validated method at the end of an experiment [e.g. by means of autoclaving or steaming]. Afterwards the inactivated materials have to be removed via a WIVA container with a **yellow** lid.
- 2.3 Biologically contaminated cadavers, which do not fit in the waste container.
Large cadavers, or large parts thereof, are distributed so that they fit in 60-litre WIVA containers with a **yellow** lid. Absorbent material is put in the bottom of the container to absorb any adherent and released fluids. If these cadavers have been exposed to biological agents of level 3 (BSL-3, ML-III and DM-III), the poliovirus or vaccinia virus, then handle as described under 2.2.
3. Cadavers that have been exposed to chemical substances
These cadavers are collected in a 30 or 60-litre WIVA container and provided with a hermetically closable **yellow** lid. Contact ADR safety advisor or the PSP Logistics Centre (logistiekcentrum@poonawallasciencepark.nl) for any specific labels in accordance with ADR ([KAM rule 07 \(hazardous\) waste](#)).
4. Radioactive contaminated cadavers are always reported to the ACS [general and coordinating radiation expert]. Material with an unacceptably high radiation dosage for normal disposal is packaged in containers with a **red** lid, and stored deep-frozen in the cellar of A6 until disposal takes place via the approved collection service.

Bedding (manure/sawdust from animal cages)

1. The non-contaminated bedding of animals is collected via the suction containers for bedding that are located on the Utrecht Science Park Bilthoven (USPB).
2. Biologically contaminated bedding
 - 2.1 Biologically contaminated animal bedding that has been intentionally exposed to or infected with a low-risk pathogen of a category no higher than level 2 (DM-I/ DM-II and BSL-2, with the exception of the poliovirus and vaccinia virus) are removed in WIVA containers with a **yellow** lid, or after autoclaving collected in a suction container, which is marked with the text: 'contains inactivated material'.
 - 2.2 Biologically contaminated animal bedding that has been intentionally exposed to or infected with biological agents of level 3 (BSL-3, ML-III and DM-III) and the poliovirus and vaccinia virus are, at the end of the experiments, inactivated in accordance with a validated method, and subsequently disposed of in a suction container, which is marked with the text: 'contains inactivated material'.
3. Bedding that contains chemical substances is collected in a 60-litre WIVA container and provided with a hermetically closable **yellow** lid. Contact ADR safety advisor or the PSP Logistics Centre (logistiekcentrum@poonawallasciencepark.nl) for any specific labels in accordance with ADR ([KAM rule 07 \(hazardous\) waste](#)).
4. Radioactive contaminated bedding is always reported to the ACS (general and coordinating radiation expert). Material with an unacceptably high radiation dosage for normal disposal is packaged in containers with a **red** lid, and stored deep-frozen in the cellar of A6 until disposal takes place via the approved collection service.



X Waste containers collection point

Abbreviations and terminology

Abbreviations

ACS	General and coordinating radiation expert
PSP	Poonawalla Science Park B.V.
USPB	Utrecht Science Park Bilthoven

References

KAM rules Stichting AL site, <https://stichting-alt.nl/kam-regels/> :

- KAM rule 07 (hazardous) waste
- KAM rule 08 Waste from (micro) biological laboratories

If applicable:

- Radiation protection regulation of your organisation