

Requirements for Facilities in the Disposal Site and Dose Limit

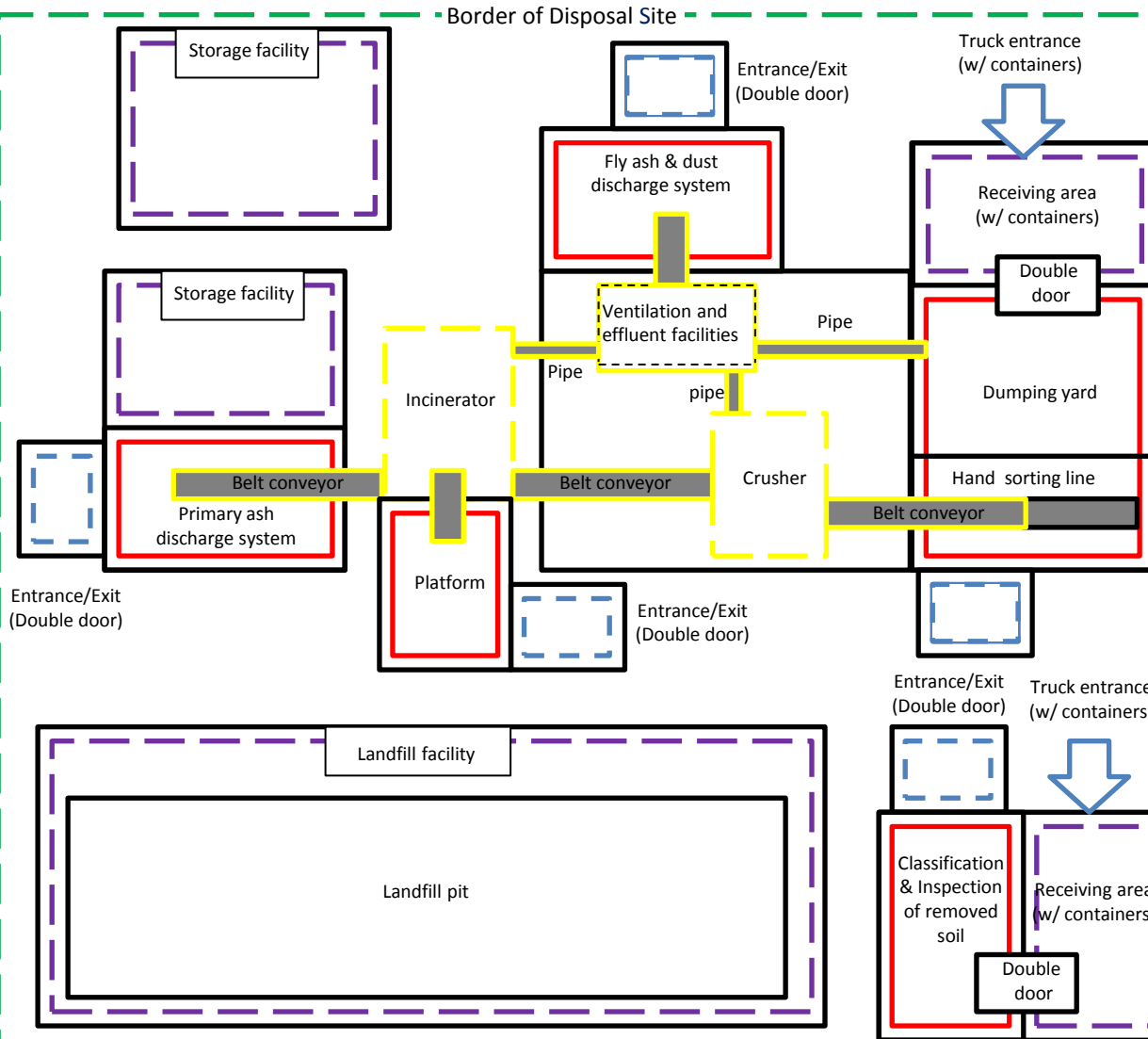
The disposal facilities for accident-derived waste are controlled by both the structures to prevent leakage of internal gases and liquids (requirements for facilities) and the ambient dose rate and surface contamination limit (dose limit).

Areas under the Ionizing Radiation Ordinance

- Facility requirements
 - Construct fences at borders
 - Clear indication of radiation controlled areas and measures for prohibiting entrance
 - $> 1.3 \text{ mSv}/3 \text{ months}$
 - $> 4 \text{ Bq}/\text{cm}^2$
 - Does limits (except in radiation controlled areas)
 - $\leq 4 \text{ Bq}/\text{cm}^2$
 - $\leq 1/10$ of airborne concentration limit (approx. $5 \text{ mSv}/\text{y}$) or less
 - Monitoring of work environment (controlled area)
 - Ambient dose rate

Storage and landfilling facilities (using containers)

- Facility requirements
 - Isolation from outside
 - Posting signs
- Dose limit
 - $\leq 1 \text{ mSv}/\text{week}$



Facilities for handling accident-derived waste (handling unsealed wastes)

- Facility requirements
 - Minimum clearance gaps between ceilings, walls, and floors
 - Easy to decontaminate
 - Leakage proof structure and materials
 - Double door at entrance/exit
 - Post warning signs and enforce measures for prohibiting entrance
- Dose limits
 - $\leq 1 \text{ mSv}/\text{week}$ (\leq airborne concentration limit ($50 \text{ mSv}/\text{y}$))
 - $\leq 40 \text{ Bq}/\text{cm}^2$
- Monitoring of work environment
 - Airborne radioactivity concentrations
 - Surface contamination on ceilings, floors, walls, and facilities

Contamination inspection area

- Contamination limit $4 \text{ Bq}/\text{cm}^2$

Incinerator, effluent and ventilation facilities, crushing system, belt conveyors, etc. (workers can not enter during operation)

- Facility requirements
 - Leakage proof structure and materials
 - Posting signs

Requirements for Facilities in the Disposal Site and Dose Limit <Exemptions>

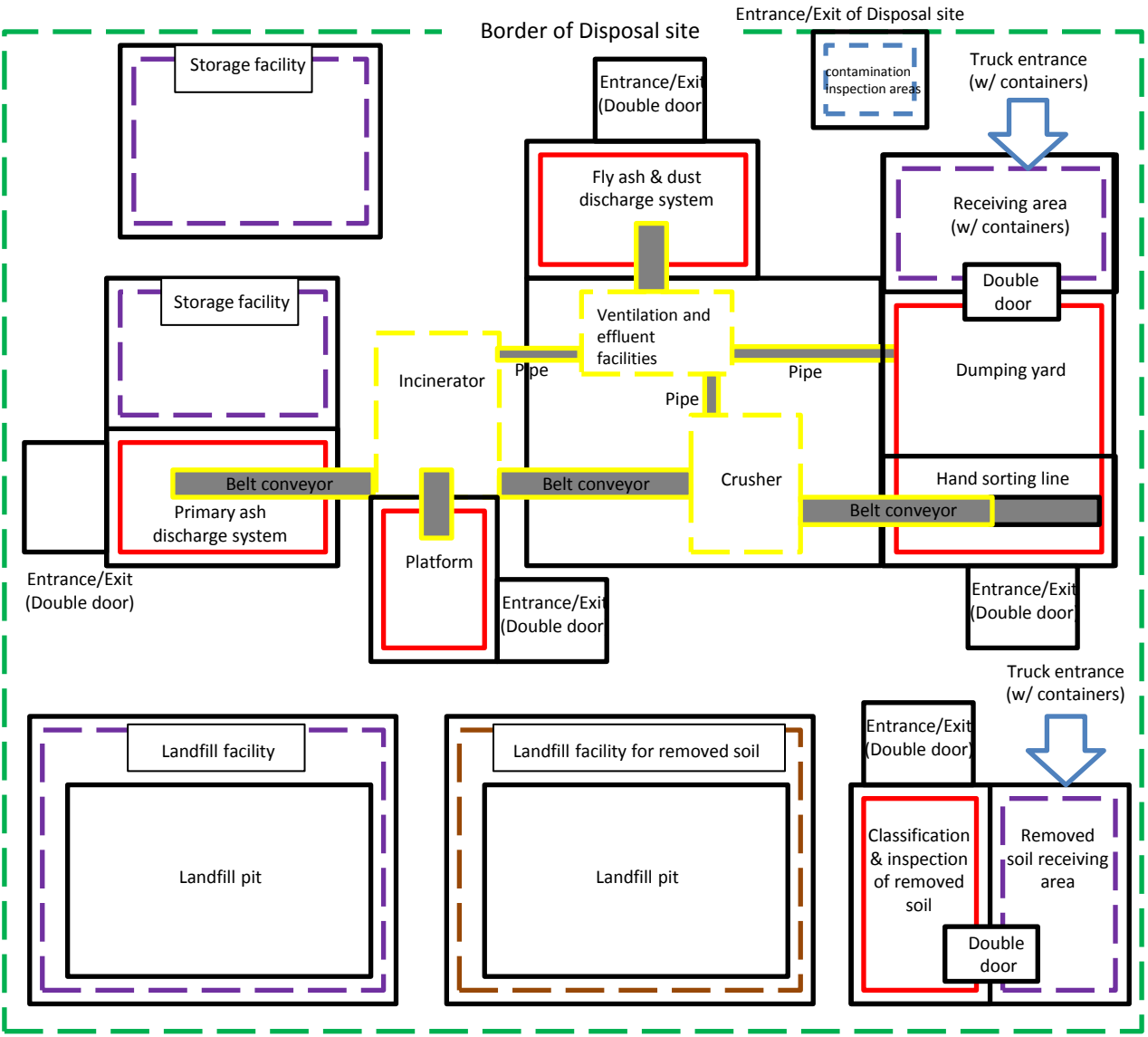
In the case that a disposal site is set up in the special decontamination areas, some exceptions will be made because soil in and around the site has already been contaminated by accident-derived radioactive material.

Areas under the Ionizing Radiation Ordinance

- Special case for the surface contamination limit when accident-derived waste is spilled (except in radiation controlled areas)
 - Sufficient to decontaminate to the level that falls within the average surface contamination (background) around the disposal site.

Landfill facility (removed soil only)

- Special case in the use of containers
 - Use of containers will be exempted if all of the following measures are taken.
 - Limited to landfill or storage of removed soil.
 - Ensure no risk of contamination to workers by employing measures such as remote operation.
 - Prevent propagation of contamination to the surroundings of the landfill facility by spraying water, and providing an isolation distance, etc.
 - Inspect surface contamination at the border of the landfill facility more than once per month. Decontaminate, if necessary.



Contamination Inspection
Application *mutatis mutandis* of the Ionizing Radiation Ordinance for Decontamination

- Contamination inspection areas Can be consolidated and located near the border of the disposal site.
- Contamination limit 40 Bq/cm²

Accident-derived waste handling facilities (removed soil only)

Use of containers is exempted if the soil handling method meets the conditions for the exemption.