



CLARK COUNTY FIRE DEPARTMENT

Fire Prevention Bureau

575 E. Flamingo Road, Las Vegas, NV 89119

(702) 455-7316 FAX (702) 455-7347



105.8.r.1

TITLE: RADIOACTIVE MATERIALS REQUIREMENT GUIDELINES

SCOPE: Storage of radioactive materials shall comply with Article 80 of the 2005 Clark County Fire Code.

PURPOSE: To standardize Clark County Fire Department requirements relating to the classification and permitting of storage of radioactive materials.

SPECIFICATIONS AND REQUIREMENTS:

At the time of permit application, three (3) sets of plans, drawn to an indicated scale, must be submitted for review and approval. The standard permit fee is due upon submittal. Please see the **Clark County Fire Department Permit and Service Fee Schedule** for specific information. Please check our website for plan status. Any additional fees will be indicated on the website. Once the plans have been approved and any outstanding fees have been paid, an inspection can be scheduled.

A permit shall be obtained from the Clark County Fire Department (CCFD), Fire Prevention Bureau, to handle or store at any installation more than 1 microcurie (37000 becquerel) of radioactive material not contained in a sealed source or more than 1 millicurie (37000 000) of radioactive material in a sealed source or sources, or any amount of radioactive material for which a specific license from the Nuclear Regulatory Commission is required. A CCFD permit fee will be collected upon submittal of the permit. Expedited reviews are available for an additional fee. If plans are approved, an inspection will need to be scheduled.

Submitted packages shall include the following:

PLANS:

- Provide copy of Nuclear Regulatory Commission License
- Plans showing the name and address of the building and contact name and phone number
- A building floor plan drawn to an indicated scale shall include type of storage areas or cabinets within the building. Indicate doorways, corridors, means of egress, evacuation routes, and type of flooring.
- Type of container and whether it is sealed or non-sealed, the storage arrangement and quantity of materials in container.
- Type and location of detection equipment for determining surface level contamination.
- Fire protection systems (if any) in building.

- Storage area for contaminated combustible materials

Storage			Use – Closed Systems			Use – Open Systems		
Material	Solid Pounds	Liquid Gallons	Gas Cubic Feet	Solid Pounds	Liquid Gallons	Gas Cubic Feet	Solid Pounds	Liquid Gallons
Alpha emitters	2 mCi	2 mCi	0.2 mCi (x6)	2 mCi	2 mCi	0.2 mCi	1 mCi	1 mCi
Beta emitters	200 Ci	200 Ci	20 Ci (x6)	200 Ci	200 Ci	20 Ci	100 Ci	100 Ci
Gamma emitters	14 Ci	14 Ci	1.4 Ci (x6)	14 Ci	14 Ci	1.4 Ci	0.1 Ci	0.1 Ci

Note:

1. Quantities shown above are maximum amount per control area. Control areas shall be separated from each other by not less than a one-hour fire-resistive occupancy separation.
2. Maximum number of control areas in a building shall not exceed four
3. Information above is taken from the 2005 Clark County Fire Code Article 80.

INSPECTIONS THAT MAY BE REQUIRED AND SCHEDULING INSTRUCTIONS:

If approved, an inspection will need to be scheduled. To schedule an inspection, go to: www.accessclarkcounty.com/fire. A fire inspector will review your site in accordance with the approved plans and this guideline.

The CCFD Fire Prevention Bureau may perform testing, acceptance, and maintenance of fire & life safety systems as required by and within the scope and authority of the Clark County Fire Code.

This Guideline does not take the place of the 2005 Clark County Fire Code and does not take precedence over any Clark County Fire Code requirement or position taken by the Fire Chief. When a conflict exists between the requirements of this Guideline and the 2005 Clark County Fire Code or the opinion of the Fire Chief, the Clark County Fire Code or opinion of the Fire Chief prevails.

Technical Assistance, when required by the Fire Chief, will require a Technical Opinion and Report prepared by a State of Nevada licensed: qualified engineer, specialist, laboratory, or fire safety specialty organization acceptable to the Fire Chief and the

property owner. The Fire Chief is authorized to require design submittals bearing the Wet Stamp and Signature of a professional engineer.

Acceptance of Alternative Materials and Methods requires a Technical Opinion and Report prepared by a State of Nevada licensed: qualified engineer, specialist, laboratory, or fire safety specialty organization acceptable to the Fire Chief and the owner. The Fire Chief is authorized to require design submittals bearing the Wet Stamp and Signature of a professional engineer.