



**State of Connecticut Department of Energy and Environmental Protection
Radioactive Materials Program**

RCP-900.3

License Termination/Revocation

Prepared By: _____ **Date:** _____

Reviewed By: _____ **Date:** _____

Approved By: _____ **Date:** _____

Revision	Date	Description of Changes

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1.0 PURPOSE

1.1 Applicability

- 1.1.1 The purpose of this procedure is to define the process for terminating a license granted by the Connecticut Department of Energy and Environmental Protection (Department) to possess, use, store and, dispose of licensed radioactive material.
- 1.1.2 This procedure applies to the disposal of licensed material, decommissioning of the site and facilities, and surveys adequate to demonstrate that the premises are suitable for release in accordance with the criteria for decommissioning in the section 22a-153-20 of the Regulations of Connecticut State Agencies, Chapter 446a of the Connecticut General Statutes, and 10 CFR part 20, subpart E.
- 1.1.2 For the purpose of this procedure, qualification of the license reviewer for a specific license type is verified by the Radiation Division Director (RDD) prior to determining the reviewer.

2.0 SCOPE

- 2.1 This document applies to the Radioactive Materials Program under Connecticut's Agreement State with the Nuclear Regulatory Commission (NRC).

3.0 REFERENCES

- 3.1 Sections 22a-153-1 through 22a-153-150, inclusive, of the Regulations of Connecticut State Agencies and Chapter 446a of the Connecticut General Statutes.
- 3.2 Title 10 Code of Federal Regulations, Part 20, Subpart E - Radiological Criteria for License Termination.
- 3.3 NUREG-1575, "Multi-Department Radiation Survey and Site Investigation Manual" (MARSSIM).
- 3.4 NUREG-1757, "Consolidated Decommissioning Guidance" Volumes 1, 2 and 3 Revision 2.

- 3.5 The various RESRAD programs: (e.g., Dose Modeling Code (Soil Concentration Levels); RESRAD-Build, Dose Modeling Code (Buildings); RESRAD-OFFSITE).
- 3.6 The DandD Code for screening analyses for license termination and decommissioning. It automates the definition and development of the scenarios, exposure pathways, models, mathematical formulations, assumptions, and justifications of parameter selections documented in Volumes 1 and 3 of NUREG/CR-5512.

4.0 DEFINITIONS & ABBREVIATIONS

- 4.1 Department: The Connecticut Department of Energy and Environmental Protection (CT-DEEP)
- 4.2 Certification Amount of Financial Assurance. See prescribed amount of financial assurance.
- 4.3 Certification of Financial Assurance. The document submitted to certify that financial assurance has been provided as required by regulation.
- 4.4 Characterization survey. A type of survey that includes facility or site sampling, monitoring, and analysis activities to determine the extent and nature of residual radioactivity. Characterization surveys provide the basis for acquiring necessary technical information to develop, analyze, and select appropriate cleanup techniques.
- 4.5 Cleanup. See decontamination.
- 4.6 Closeout Inspection. An inspection performed by the Department, or its contractor, to determine if a licensee has adequately decommissioned its facility. Typically, a closeout inspection is performed after the licensee has demonstrated that its facility is suitable for release in accordance with the Department requirements.
- 4.7 Confirmatory Survey. A survey conducted by Department, or its contractor, to verify the results of the licensee's final status survey. Typically, confirmatory surveys consist of measurements at a fraction of the locations previously surveyed by the licensee, to determine whether the licensee's results are valid and reproducible.

- 4.8 Critical Group: The group of individuals reasonably expected to receive the greatest exposure to radiation for any applicable set of circumstances.
- 4.9 DandD code. The Decontamination and Decommissioning (DandD) software package, developed by NRC, that addresses compliance with the dose criteria of 10 CFR 20, Subpart E. Specifically, DandD embodies NRC's guidance on screening dose assessments to allow licensees to perform simple estimates of the annual dose from residual radioactivity in soils and on building surfaces.
- 4.10 Decommission: To remove a facility or site safely from service and reduce residual radioactivity to a level that permits release of the property for unrestricted use and termination of the license.
- 4.11 Decommission Funding Plan (DFP). A document that contains a site-specific cost estimate for decommissioning, describes the method for assuring funds for decommissioning, describes the means for adjusting both the cost estimate and funding level over the life of the facility, and contains the certification of financial assurance and the signed originals of the financial instruments provided as financial assurance.
- 4.12 Decommissioning Groups. For the purposes of this guidance document, the categories of decommissioning activities that depend on the type of operation and the residual radioactivity.
- 4.13 Decommissioning Plan (DP). A detailed description of the activities that the licensee intends to use to assess the radiological status of its facility, to remove radioactivity attributable to licensed operations at its facility to levels that permit release of the site in accordance with the department's regulations and termination of the license, and to demonstrate that the facility meets the Department's requirements for release. A DP typically consists of several interrelated components, including (1) site characterization information; (2) a remediation plan that has several components, including a description of remediation tasks, a health and safety plan, and a quality assurance plan; (3) site-specific cost estimates for the decommissioning; and (4) a final status survey plan (see 10 CFR 30.36(g)(4)).
- 4.14 Decontamination. The removal of undesired residual radioactivity from facilities, soils, or equipment prior to the release of a site or facility and termination of a license. Also

known as remediation, remedial action, and cleanup.

- 4.15 Derived Concentration Guideline Levels (DCGLs). Radionuclide-specific concentration limits used by the licensee during decommissioning to achieve the regulatory dose standard that permits the release of the property and termination of the license. The DCGL applicable to the average concentration over a survey unit is called the DCGLW. The DCGL applicable to limited areas of elevated concentrations within a survey unit is called the DCGLEMC.
- 4.16 Distinguishable from Background: The detectable concentration of a radionuclide is statistically different from the background concentration of that radionuclide in the vicinity of the site, or in the case of structures, in similar materials using adequate measurement technology, survey, and statistical techniques.
- 4.17 Dose (or radiation dose). A generic term that means absorbed dose, dose equivalent, effective dose equivalent, committed dose equivalent, committed effective dose equivalent, or total effective dose equivalent, as defined in other paragraphs of 10 CFR 20.1003 (see 10 CFR 20.1003). In this NUREG report, dose generally refers to total effective dose equivalent (TEDE).
- 4.18 Effluent. Material discharged into the environment from licensed operations.
- 4.19 Environmental Monitoring. The process of sampling and analyzing environmental media in and around a facility (1) to confirm compliance with performance objectives and (2) to detect radioactive material entering the environment to facilitate timely remedial action.
- 4.20 Exposure Pathway. The route by which radioactivity travels through the environment to eventually cause radiation exposure to a person or group.
- 4.21 Exposure Scenario. A description of the future land uses, human activities, and behavior of the natural system as related to a future human receptor's interaction with (and therefore exposure to) residual radioactivity. In particular, the exposure scenario describes where humans may be exposed to residual radioactivity in the environment, what exposure group habits determine exposure, and how residual radioactivity moves through the environment.

- 4.22 External Dose. That portion of the dose equivalent received from radiation sources outside the body (see 10 CFR 20.1003).
- 4.23 Final Status Survey (FSS). Measurements and sampling to describe the radiological conditions of a site or facility, following completion of decontamination activities (if any) and in preparation for release of the site or facility.
- 4.24 Final Status Survey Plan (FSSP). The description of the final status survey design.
- 4.25 Final Status Survey Report (FSSR). The results of the final status survey conducted by a licensee to demonstrate the radiological status of its facility. The FSSR is submitted to the Department for review and approval.
- 4.26 Financial Assurance. A guarantee or other financial arrangement provided by a licensee that funds for decommissioning will be available when needed. This is in addition to the licensee's regulatory obligation to decommission its facilities.
- 4.27 Financial Assurance Mechanism. Financial instruments used to provide financial assurance for decommissioning.
- 4.28 Ground Water. Water contained in pores or fractures in either the unsaturated or saturated zones below ground level.
- 4.29 Hydraulic Conductivity. The volume of water that will move through a medium in a unit of time under a unit hydraulic gradient through a unit area measured perpendicular to the direction of flow.
- 4.30 Hydrology. Study of the properties, distribution, and circulation of water on the surface of the land, in the soil and underlying rocks, and in the atmosphere.
- 4.31 Impact. The positive or negative effect of an action (past, present, or future) on the natural environment (land use, air quality, water resources, geological resources, ecological resources, aesthetic and scenic resources) and the human environment (infrastructure, economics, social, and cultural).
- 4.32 Impacted Areas. The areas with some reasonable potential for residual radioactivity in

excess of natural background or fallout levels (see 10 CFR 50.2).

- 4.33 Inactive Outdoor Area. The outdoor portion of a site not used for licensed activities or materials for 24 months or more.
- 4.34 Infiltration. The process of water entering the soil at the ground surface. Infiltration becomes percolation when water has moved below the depth at which it can be removed (to return to the atmosphere) by evaporation or transpiration.
- 4.35 Institutional Controls. Measures to control access to a site and minimize disturbances to engineered measures established by the licensee to control the residual radioactivity.
- 4.36 Institutional controls include administrative mechanisms (e.g., land use restrictions) and may include, but are not limited to, physical controls (e.g., signs, markers, landscaping, and fences).
- 4.37 Karst. A type of topography that is formed over limestone, dolomite, or gypsum by dissolution, characterized by sinkholes, caves, and underground drainage.
- 4.38 Leak Test. A test for leakage of radioactivity from sealed radioactive sources. These tests are made when the sealed source is received and on a regular schedule thereafter. The frequency is usually specified in the sealed source and device registration certificate and/or license.
- 4.39 License Termination Rule (LTR). The License Termination Rule refers to the final rule on “Radiological Criteria for License Termination,” published by NRC as Subpart E to 10 CFR 20 on July 21, 1997 (62 FR 39058).
- 4.40 Licensee. A person who possesses a license, or a person who possesses licensable material, who the Department could require to obtain a license.
- 4.41 License Review: The processing of any licensing action (i.e., new application, amendment, renewal, termination) and serves two capacities – primary review and secondary review.
- 4.42 License Reviewer: A Radiologic Health Specialist or other Radioactive Materials Program staff member qualified to review, process, and document a specific category

of licensing action. A license reviewer shall not perform a review for any category of license for which they are not qualified.

- 4.43 License Revocation: A license is revoked during its effective validity period for cause, usually for failure to comply with licensing requirements and applicable regulations. NOTE: The Department must take formal action in order to revoke a license under section 22a-155 of the Connecticut General Statutes.
- 4.44 License Expiration: When the licensee has allowed the license to expire, did not respond after being informed that the license had expired, and/or did not request that the license be renewed, then the Department will issue a possession-only license.
- 4.45 MARSSIM. The Multi-Department Radiation Site Survey and Investigation Manual (NUREG-1575) is a multi-Department consensus manual that provides information on planning, conducting, evaluating, and documenting building surface and surface soil final status radiological surveys for demonstrating compliance with dose- or risk-based regulations or standards.
- 4.46 Model. A simplified representation of an object or natural phenomenon. The model can be in many possible forms, such as a set of equations or a physical, miniature version of an object or system constructed to allow estimates of the behavior of the actual object or phenomenon when the values of certain variables are changed. Important environmental models include those estimating the transport, dispersion, and fate of chemicals in the environment.
- 4.47 Monitoring. Monitoring (radiation monitoring, radiation protection monitoring) is the measurement of radiation levels, concentrations, surface area concentrations, or quantities of radioactive material and the use of the results of these measurements to evaluate potential exposures and doses (see 10 CFR 20.1003).
- 4.48 mrem/y (millirem per year). One one-thousandth (0.001) of a rem per year. (See also sievert.).
- 4.49 Naturally Occurring Radioactive Material (NORM). The natural radioactivity in rocks, soils, air and water. NORM generally refers to materials in which the radionuclide concentrations have not been enhanced by or as a result of human practices. NORM

does not include uranium or thorium in source material.

- 4.50 Non-impacted Areas. The areas with no reasonable potential for residual radioactivity in excess of natural background or fallout levels.
- 4.51 Pathway. See exposure pathway.
- 4.52 Performance-Based Approach. Regulatory decision-making that relies upon measurable or calculable outcomes (i.e., performance results) to be met, but provides more flexibility to the licensee as to the means of meeting those outcomes.
- 4.53 Permeability. The ability of a material to transmit fluid through its pores when subjected to a difference in head (pressure gradient). Permeability depends on the substance transmitted (oil, air, water, and so forth) and on the size and shape of the pores, joints, and fractures in the medium and the manner in which they are interconnected.
- 4.54 Porosity. The ratio of openings, or voids, to the total volume of a soil or rock expressed as a decimal fraction or as a percentage.
- 4.55 Potentiometric Surface. The two-dimensional surface that describes the elevation of the water table. In an unconfined aquifer, the potentiometric surface is at the top of the water level. In a confined aquifer, the potentiometric surface is above the top of the water level because the water is under confining pressure.
- 4.56 Prescribed Amount of Financial Assurance. An amount of financial assurance based on the authorized possession limits of the Connecticut Radioactive Materials license, as specified in 10 CFR 30.35(d), 40.36(b), or 70.25(d).
- 4.57 Principal Activities. Activities authorized by the license which are essential to achieving the purpose(s) for which the license was issued or amended. Storage during which no licensed material is accessed for use or disposal and activities incidental to decontamination or decommissioning are not principal activities (see 10 CFR 30.4).
- 4.58 Probabilistic. Refers to computer codes or analyses that use a random sampling method to select parameter values from a distribution. Results of the calculations are also in the form of a distribution of values. The results of the calculation do not typically include

the probability of the scenario occurring.

- 4.59 Reasonable Alternatives. Those alternatives that are practical or feasible from a technical and economic standpoint.
- 4.60 Reasonably foreseeable land use. Land use scenarios that are likely within 100 years, considering advice from land use planners and stakeholders on land use plans and trends.
- 4.61 rem. The special unit of any of the quantities expressed as dose equivalent. The dose equivalent in rems is equal to the absorbed dose in rads multiplied by the quality factor (1 rem = 0.01 sievert) (see 10 CFR 20.1004).
- 4.62 Remedial Action. See decontamination.
- 4.63 Remediation. See decontamination.
- 4.64 Residual Radioactivity: Radioactivity in structures, materials, soils, groundwater, and other media at a site resulting from activities under the licensee's control. This includes radioactivity from all licensed and unlicensed sources used by the licensee but excludes background radiation. It also includes radioactive materials remaining at the site as a result of routine or accidental release of radioactive material at the site and previous burials at the site, even if those burials were made in accordance with the provisions of 10 CFR 20.2001.
- 4.65 RESRAD Code. A computer code developed by the U.S. Department of Energy and designed to estimate radiation doses and risks from RESidual RADioactive materials in soils.
- 4.66 RESRAD-BUILD Code. A computer code developed by the U.S. Department of Energy and designed to estimate radiation doses and risks from RESidual RADioactive materials in BUILDings.
- 4.67 Restricted Area. Any area to which access is limited by a licensee for the purpose of protecting individuals against undue risks from exposure to radiation and radioactive

materials (see 10 CFR 20.1003).

- 4.68 Risk. Defined by the “risk triplet” of a scenario (a combination of events and/or conditions that could occur) or set of scenarios, the probability that the scenario could occur, and the consequence (e.g., dose to an individual) if the scenario were to occur.
- 4.69 Risk-Based Approach. Regulatory decision making that is based solely on the numerical results of a risk assessment. (Note that the Commission does not endorse a risk-based regulatory approach.)
- 4.70 Risk-Informed Approach. Regulatory decision making that represents a philosophy whereby risk insights are considered together with other factors to establish requirements that better focus licensee and regulatory attention on design and operational issues commensurate with their importance to public health and safety.
- 4.71 Risk Insights. Results and findings that come from risk assessments.
- 4.72 Robust engineered barrier. A man-made structure that is designed to mitigate the effect of natural processes or human uses that may initiate or accelerate release of residual radioactivity through environmental pathways. The structure is designed so that the radiological criteria for license termination (10 CFR 20, Subpart E) can be met. Robust engineered barriers are designed to be more substantial, reliable, and sustainable for the time period needed without reliance on active ongoing maintenance.
- 4.73 Saturated Zone. That part of the earth’s crust beneath the regional water table in which all voids, large and small, are ideally filled with water under pressure greater than atmospheric.
- 4.74 Scoping Survey. A type of survey that is conducted to identify (1) radionuclide contaminants, (2) relative radionuclide ratios, and (3) general levels and extent of residual radioactivity.

- 4.75 Screening Approach/Methodology/Process. The use of (1) predetermined building surface concentration and surface soil concentration values, or (2) a predetermined methodology (e.g., use of the DandD code) that meets the radiological decommissioning criteria without further analysis, to simplify decommissioning in cases where low levels of residual radioactivity are achievable.
- 4.76 Sealed Source. Any special nuclear material or byproduct material encased in a capsule designed to prevent leakage or escape of the material.
- 4.77 sievert (Sv). The SI unit of any of the quantities expressed as dose equivalent. The dose equivalent in sieverts is equal to the absorbed dose in grays multiplied by the quality factor (1 sievert = 100 rem) (see 10 CFR 20.1004).
- 4.78 Site. The area of land, along with structures and other facilities, as described in the original Department license application, plus any property outside the originally licensed boundary added for the purpose of receiving, possessing, or using radioactive material at any time during the term of the license, as well as any property where radioactive material was used or possessed that has been released prior to license termination.
- 4.79 Site Characterization. Studies that enable the licensee to sufficiently describe the conditions of the site, separate building, or outdoor area to evaluate the acceptability of the decommissioning plan.
- 4.80 Site Characterization Survey. See characterization survey.
- 4.81 Site-Specific Dose Analysis. Any dose analysis that is done other than by using the default screening tools.
- 4.82 Smear. A radiation survey technique which is used to determine levels of removable surface contamination. A medium (typically filter paper) is rubbed over a surface (typically of area 100 cm²), followed by a quantification of the activity on the medium. Also known as a swipe.

- 4.83 Source Material. Uranium or thorium, or any combination of uranium and thorium, in any physical or chemical form, or ores that contain by weight one-twentieth of one percent (0.05 percent) or more of uranium, thorium, or any combination of uranium and thorium. Source material does not include special nuclear material (see 10 CFR 20.1003).
- 4.84 Source Term. A conceptual representation of the residual radioactivity at a site or facility.
- 4.85 Special Nuclear Material. (1) Plutonium, uranium-233 (U-233), uranium enriched in the isotope 233 or in the isotope 235, and any other material that the Commission, pursuant to the provisions of Section 51 of the Atomic Energy Act, determines to be special nuclear material, but does not include source material; or (2) any material artificially enriched by any of the foregoing but does not include source material (see 10 CFR 20.1003).
- 4.86 Specific Licenses. Licenses issued to a named person who has filed an application for the license under the applicable sections of 22a-153-1 through 22a-153-150, inclusive, of the Regulations of Connecticut State Agencies and the provisions of 10 CFR Parts 30, 32 through 36, 39, 40, 61, and 70. Examples of specific licenses are industrial radiography, medical use, irradiators, and well logging.
- 4.87 Survey. An evaluation of the radiological conditions and potential hazards incident to the production, use, transfer, release, disposal, or presence of radioactive material or other sources of radiation. When appropriate, such an evaluation includes a physical survey of the location of radioactive material and measurements or calculations of levels of radiation, or concentrations or quantities of radioactive material present (see 10 CFR 20.1003).
- 4.88 Survey Unit. A geographical area consisting of structures or land areas of specified size and shape at a site for which a separate decision will be made as to whether or not the unit attains the site-specific reference-based cleanup standard for the designated

pollution parameter. Survey units are generally formed by grouping contiguous site areas with similar use histories and having the same contamination potential (classification). Survey units are established to facilitate the survey process and the statistical analysis of survey data.

- 4.89 Technologically Enhanced Naturally Occurring Radioactive Material (TENORM). Naturally occurring radioactive material with radionuclide concentrations increased by or as a result of past or present human practices. TENORM does not include background radioactive material or the natural radioactivity of rocks and soils. TENORM does not include uranium or thorium in source material.
- 4.90 Timeliness. Specific time periods stated in NRC regulations for decommissioning unused portions of operating nuclear materials facilities and for decommissioning the entire site upon termination of operations.
- 4.91 Total Effective Dose Equivalent (TEDE). The sum of the deep-dose equivalent (for external exposures) and the committed effective dose equivalent (CEDE) (for internal exposures) (see 10 CFR 20.1003).
- 4.92 Transmissivity. The rate of flow of water through a vertical strip of aquifer which is one unit wide and which extends the full saturated depth of the aquifer.
- 4.93 Unrestricted Area. An area, access to which is neither limited nor controlled by the licensee (see 10 CFR 20.1003).
- 4.94 Unsaturated Zone. The subsurface zone in which the geological material contains both water and air in pore spaces. The top of the unsaturated zone typically is at the land surface, otherwise known as the vadose zone.
- 4.95 Vadose Zone. See unsaturated zone.
- 4.96 Voluntary termination: a licensee has requested that a license be terminated.

5.0 GENERAL

5.1 EQUIPMENT

5.1.1 None

5.2 PRECAUTIONS AND LIMITATIONS

5.2.1 None

5.3 RESPONSIBILITIES

5.3.1 Radiation Division Personnel

5.3.1.1 Identifies licenses that have expired or are about to expire and notifies licensee and the Supervising Radiation Control Physicist (SRCP) within 30 days of the license expiration date.

5.3.1.2 Issues acknowledgment letters for receipt of termination requests within 30 days of receipt of the request for termination.

5.3.1.3 Maintains computer-based and other licensing files.

5.3.1.4 Begins to process requests for license termination or expired licenses as assigned within a 15-day period, upon the notification of the license expiration date.

5.3.1.5 When required, performs closeout surveys to verify that the licensee survey data is accurate and supports the finding that the license can be terminated when a licensee is decommissioning their facility.

5.3.2 Supervising Radiation Control Physicist (SRCP)

5.3.2.1 Assigns a request for license termination or an expired license to Radiation Division personnel staff for processing. The SRCP will instruct the staff in the required scope of the termination or expired

license process, i.e., whether the licensee is required to submit a Decommissioning Plan.

5.3.2.2 In concert with the Department's legal counsel, initiates a petition for revocation of the license or other sanction, when deemed necessary to protect the public health and the environment.

5.3.3 Radiation Division Director (RDD)

5.3.3.1 Reviews, concurs, or does not concur, with the petition for revocation of the license or other sanctions after consultation with the Department's legal counsel.

5.3.3.2 Reviews, approves, and signs terminated license letters.

5.3.3.3 Approves the implementation of a revocation action and signs the final order.

5.4 PREREQUISITES

None.

5.5 RECORDS

5.5.1 Records to be Maintained:

The following records will be maintained by the Radioactive Materials Program, primarily in an electronic format for each licensee:

5.5.1.1 Specific License.

5.5.1.2 License termination request document.

5.5.1.3 License termination letter.

5.5.1.4 Any Requests for Additional Information (RAI).

5.5.1.5 Financial Assurance Documents.

5.5.1.6 CTDEEP Form 314 Certificate of Disposition of Materials

5.5.2 Records Retention

5.5.2.1 Records Retention

5.5.2.1.1 Records are filed electronically using Web-based Licensing (WBL).

5.5.2.1.2 Records may also be kept in other secure electronic forms with access only to Radiation Division personnel.

5.6 ATTACHMENTS

5.6.1 Attachment 1 – CTDEEP Form 314 Certificate of Disposition of Materials

PROCEDURE

5.7 General Provisions

5.7.1 The criteria for termination of a license are listed in 10 CFR 30.36, 40.42, and 70.38 as well as section 22a-153-20 of the and Chapter 446a of the Connecticut General Statutes.

5.8 Request for Termination

5.8.1 Within 15 working days following the receipt of the request for license termination, the notice is placed in the licensee file and the reviewer should prepare a termination letter and inform the licensee that the Radioactive Materials Program may request additional information.

5.8.2 Following the receipt of a request for termination, a determination of the potential for residual radioactive contamination of the facility shall be made. The license and inspection history shall be reviewed to determine the potential risk of residual radioactive contamination.

5.8.3 The highest risk would be licensees that utilize significant quantities of unsealed radioactive material with half-lives greater than 120 days such as, but not limited to, nuclear pharmacies; waste disposal processing and repackaging services; manufacturing and distribution; nuclear laundries; academic or medical Type A Broad; and research and development, Type A Broad licenses. The lowest risk would be licensees that utilize radioactive materials only in the form of sealed sources. Unless there has been a significant leak of a sealed source, the probability of residual contamination is essentially zero. (NOTE: However, there have been a number of cases of residual contamination resulting from melting sealed sources contained in measuring gauges.)

5.8.3.1 For licenses that authorize both sealed and unsealed sources of radioactive material, the highest risk use shall dictate the decommissioning process.

5.9 License Termination - Sealed Sources

5.9.1 Determine which decommissioning group applies and follow the guidance in NUREG-1757 Volume 1.

5.10 License Termination - Unsealed Sources

5.10.1 Determine which decommissioning group applies and follow the guidance in NUREG-1757 Volume 1.

5.11 Expired License

5.11.1 Licensee Contacted.

5.11.1.1 Within fifteen (15) working days following the expiration date of a license without the receipt of a request for license termination or license renewal, the licensee shall be contacted by telephone or in person and informed that the license has expired. The licensee shall be informed, in writing, that any activity using radioactive material under the license shall cease, the licensed material shall be placed in storage or disposed of, and an application for license termination shall be submitted within 30 days.

5.11.1.2 If the licensee intends to continue licensed operations and states that the failure to submit an application for license renewal was an oversight, the licensee shall be informed that operations shall cease and that an application for license renewal should be submitted as soon as possible. The licensee shall be informed that operation without a current *valid* license constitutes noncompliance and that appropriate enforcement action will result.

5.11.1.3 The licensee shall be informed that only the RDD may authorize continued use of radioactive material without a current license.

5.11.1.4 The notice to cease licensed activities shall be recorded and transmitted to the licensee by registered mail, return receipt requested (RCP-900.2 *Renewal of Licenses*, Attachment 1, **Sample Letter for Expired License**). This notification to the licensee transmits the requirements for the proper disposition of radioactive materials with

CTDEEP Form 314 (RCP-900.3 Attachment 1) attached.

5.11.2 Licensee Not Contacted.

5.11.2.1 Returned, undeliverable mail to licensees must trigger an immediate follow-up. The follow-up must include a telephone call, email, or site visit to the licensee to verify the licensee's physical address.

5.11.2.2 If the licensee cannot be contacted either by telephone, visit to the address on the license, or all other reasonable efforts, the authorized place of use shall be inspected and surveyed. All possible means must be taken to establish the facts associated with the loss of contact, including interviews of related parties like landlords, neighboring parties, or vendors. A survey for radiation and radioactive materials must also be conducted of premises left abandoned. If no radioactive materials are found and the survey indicates the facility is free of radioactive contamination, necessary legal action must proceed in order to revoke the license.

5.11.2.3 If residual contamination is discovered, the facility shall be restricted from unauthorized access and decontaminated to acceptable levels and the license revoked in accordance with section 22a-155 of the Connecticut General Statutes. All legal efforts to require this of the licensee shall be exhausted before taking other actions. Consult with the Department's legal counsel about these and all other steps.

5.11.2.4 If there was an emergency, the Department could use section 22a-157a of the Connecticut General Statutes to mitigate or force the mitigation of the hazard. If the Department incurred any cost as a result of this action, it has the authority to seek the recovery of costs under this statute.

Attachment 1

Radioactive Materials Program

 CTDEEP Form 314

Disposition of Materials