

### 1.3 RADIOLOGICAL ENVIRONMENTAL MONITORING

#### 1.3.2 LAND USE CENSUS

##### CONTROLS

A Land Use Census shall be conducted and shall identify within a distance of 8 km (5 miles) the location in each of the 16 meteorological sectors of the nearest milk animal, the nearest residence, and the nearest garden<sup>a</sup> of greater than 50 m<sup>2</sup> (500 ft<sup>2</sup>) producing fresh leafy vegetables.

<sup>a</sup> Broad leaf vegetation sampling of at least three different kinds of vegetation may be performed at the SITE BOUNDARY in each of two different direction sectors with the highest predicted D/Qs in lieu of the garden census. Specifications for broad leaf vegetation sampling in Table 2.3-1 shall be followed, including analysis of control samples.

APPLICABILITY: At all times.

##### ACTIONS

NONCONFORMANCE	CONTINGENCY MEASURES	RESTORATION TIME
<p>A. Land Use Census identifying a location(s) that yields a calculated dose or dose commitment 20% greater than at a location from which doses are currently being calculated in ODCM Section 7.3 and 7.4.</p>	<p>A.1 Identify the new location(s) in the Annual Radioactive Effluent Release Report pursuant to ODCM Section 5.2.</p>	<p>Next submittal of Annual Radioactive Effluent Release Report</p>
<p>B. Land Use Census identifying a location(s) that yields a calculated dose or dose commitment (via the same pathway) 20% greater than at a location from which samples are currently being obtained in accordance with the requirements of ODCM Control 1.3.1.</p>	<p>-----Note-----  Sampling location(s), excluding the control station location, having the lowest calculated dose or dose commitment(s), via the same exposure pathway, may be deleted from this monitoring program after October 31 of the year in which this Land Use Census was conducted.  -----  B.1 If samples are available, add new location(s) to the radiological environmental monitoring program given in ODCM Section 9.0.   <u>AND</u></p>	<p>30 days</p>

NONCONFORMANCE	CONTINGENCY MEASURES	RESTORATION TIME
	<p>B.2 Pursuant to ODCM Section 5.2 and 5.3, submit in Annual Radioactive Effluent Release Report documentation for a change in the ODCM including a revised figure(s) and table(s) for the ODCM reflecting the new location(s) with the information supporting the change in sampling locations.</p>	<p>Next submittal of Annual Radioactive Effluent Release Report.</p>

VERIFICATION REQUIREMENTS

VR	VERIFICATION	FREQUENCY
2.3.2	<p>The Land Use Census shall be conducted during the growing season using that information that will provide the best results, such as by a door-to-door survey, mail survey, telephone survey, aerial survey, or by consulting local agricultural authorities. The results of the Land Use Census shall be included in the Annual Radiological Environmental Operating Report pursuant to ODCM Administrative Control 5.1.</p>	12 months

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##### BASES

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This Control is provided to ensure that changes in the use of UNRESTRICTED AREAS are identified and that modifications to the monitoring program are made if required by the results of that census. The best survey information from the door-to-door, aerial, or consulting with local agricultural authorities shall be used. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10 CFR Part 50. Restricting the census to gardens of greater than 500 ft<sup>2</sup> provides assurance that significant exposure pathways via leafy vegetables will be identified and monitored since a garden of this size is the minimum required to provide the quantity (26 kg/yr) of leafy vegetables assumed in Regulatory Guide 1.109 for consumption by a child. To determine this minimum garden size, the following assumptions were used, 1) that 20% of the garden was used for growing broad leaf vegetation (i.e., similar to lettuce and cabbage), and 2) a vegetation yield of 2 kg/m<sup>2</sup>

## **9.0 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM**

### **9.1 MONITORING PROGRAM**

An environmental radiological monitoring program shall be conducted in accordance with ODCM Control 1.3.1. The monitoring program described in Tables 9.1, 9.2, and 9.3, and in Figures 9.1, 9.2 and 9.3 shall be conducted. Results of this program shall be reported in accordance with ODCM Administrative Control 5.1.

The atmospheric environmental radiological monitoring program shall consist of monitoring stations from which samples of air particulates and atmospheric radioiodine shall be collected.

The terrestrial monitoring program shall consist of the collection of milk, soil, ground water, drinking water, and food crops. In addition, direct gamma radiation levels will be measured in the vicinity of the plant.

The reservoir sampling program shall consist of the collection of samples of surface water, sediment, clams, and fish.

Deviations are permitted from the required sampling schedule if specimens are unobtainable due to hazardous conditions, sample unavailability, or to malfunction of sampling equipment. If the latter, every effort shall be made to complete corrective action prior to the end of the next sampling period.

### **9.2 DETECTION CAPABILITIES**

Analytical techniques shall be such that the detection capabilities listed in Table 2.3-3 are achieved.

### **9.3 LAND USE CENSUS**

A land use survey shall be conducted in accordance with Control 1.3.2. The results of the survey shall be reported in the Annual Radiological Environmental Operating Report.

### **9.4 INTERLABORATORY COMPARISON PROGRAM**

Analyses shall be performed on radioactive materials supplied as part of an Interlaboratory Comparison Program which has been approved by the NRC. A summary of the results obtained in the intercomparison shall be included in the Annual Radiological Environmental Operating Report (or the EPA program code designation may be provided).

If analyses are not performed as required, corrective actions taken to prevent a recurrence shall be reported in the Annual Radiological Environmental Operating Report.