

\*\*\*\*\*  
 \*  
 \* STATION  
 \*  
 \* OFFSITE DOSE CALCULATION MANUAL  
 \*  
 \* (ODCM)  
 \*  
 \*  
 \*\*\*\*\*

1. Does this manual/manual revision:

- a. Make changes in the facility as described in the FSAR? ☐ Yes ☒ No
- b. Make changes in procedures as described in the FSAR? ☐ Yes ☒ No
- c. Involve tests or experiments not described in the FSAR? ☐ Yes ☒ No
- d. Involve changes to the existing Operating License or require additional license requirements? ☐ Yes ☒ No

2. If any of the above questions are answered yes, a safety evaluation per NHY Procedure 11210 is required.

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#### 4.0 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

The radiological environmental monitoring stations are listed in Table B.4-1. The locations of the stations with respect to the Seabrook Station are shown on the maps in Figures B.4-1 to B.4-6.

Direct radiation measurements are analyzed at the station. All other radiological analyses for environmental samples are performed at the Yankee Environmental Laboratory. The Laboratory participates in the U.S. Environmental Protection Agency's Environmental Radioactivity Laboratory Intercomparison Studies Program for all the species and matrices routinely analyzed.

Pursuant to Specification 4.12.2, the land use census will be conducted "during the growing season" at least once per 12 months. The growing season is defined, for the purposes of the land use census, as the period from June 1 to October 1. The method to be used for conducting the census will consist of one or more of the following, as appropriate: door-to-door survey, visual inspection from roadside, aerial survey, or consulting with local agricultural authorities.

Technical Specification 6.8.1.3 requires that the results of the Radiological Environmental Monitoring Program be summarized in the Annual Radiological Environmental Operating Report "in the format of the table in the Radiological Assessment Branch Technical Position, Revision 1, 1979." The general table format will be used with one exception and one clarification, as follows. The mean and range values will be based not upon detectable measurements only, as specified in the NRC Branch Technical Position, but upon all measurements. This will prevent the positive bias associated with the calculation of the mean and range based upon detectable measurements only. Secondly, the Lower Limit of Detection column will specify the LLD required by ODCM Table A.5-2 for that radionuclide and sample medium.

TABLE B.4-1

RADIOLOGICAL ENVIRONMENTAL MONITORING STATIONS <sup>(a)</sup>

<u>Exposure Pathway and/or Sample</u>	<u>Sample Location and Designated Code</u>	<u>Distance From Unit 1 Containment (km)</u>	<u>Direction From the Plant</u>
1. AIRBORNE (Particulate and Radioiodine)			
	AP/CF-01 PSNH Barge Landing Area	2.7	ESE
	AP/CF-02 Hampton Marina	2.7	E
	AP/CF-03 SW Boundary	0.8	SW
	AP/CF-04 W. Boundary	1.0	W
	AP/CF-05 Winnacunnet H.S. <sup>(b)</sup>	4.0	NNE
	AP/CF-06 Georgetown Substation (Control)	24.0	SSW
2. WATERBORNE			
a. Surface	WS-01 Hampton-Discharge Area	5.3	E
	WS-51 Ipswich Bay (Control)	16.9	SSE
b. Sediment	SE-02 Hampton-Discharge Area <sup>(b)</sup>	5.3	E
	SE-07 Hampton Beach (b)	3.1	E
	SE-08 Seabrook Beach	3.2	ESE
	SE-52 Ipswich Bay (Control) <sup>(b)</sup>	16.9	SSE
	SE-57 Plum Island Beach (Control) <sup>(b)</sup>	15.9	SSE
3. INGESTION			
a. Milk	TM-04 Salisbury, MA	5.2	SW
	TM-09 Hampton, NH	5.5	NNW
	TM-10 Hampton Falls, NH	4.8	WNW
	TM-15 Hampton Falls, NH(b)	7.0	NW
	TM-20 Rowley, MA (Control)	16.3	S
b. Fish and Invertebrates <sup>(c)</sup>			
	FH-03 Hampton - Discharge Area	4.5	ESE
	FH-53 Ipswich Bay (Control)	16.4	SSE
	HA-04 Hampton - Discharge Area	5.5	E
	HA-54 Ipswich Bay (Control)	17.2	SSE
	MU-06 Hampton - Discharge Area	5.2	E
	MU-56 Ipswich Bay (Control)	17.4	SSE



FIGURE B.4-1

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RADIOLOGICAL ENVIRONMENTAL MONITORING LOCATIONS  
WITHIN 4 KILOMETERS OF SEABROOK STATION

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FIGURE B.4-2

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RADIOLOGICAL ENVIRONMENTAL MONITORING LOCATIONS  
BETWEEN 4 KILOMETERS AND 12 KILOMETERS FROM SEABROOK STATION

