## ATTACHMENT I TO LICENSE CHANGE APPLICATION 3

## TABLE 4.11.1.1-1 RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM

Liquid Release Type		Sampling Frequency	Minimum Analysis Frequency	Type of Activity Analysis	Lower Limit of Detection (LLD) (µCi/mL)
Α.	Batch Waste Release Tagi and Sumps	p s Each Batch	P Each Batch	Principal Gamma Emitters	5×10 <sup>-7</sup>
	1. Discharge Waste Sample Tanks 2. Recovery Sample Tanks			I-131	1×10 <sup>-6</sup>
		One Batch/M	M *	Dissolved and Entrained Gases (Gamma Emitters)	1×10 <sup>-5</sup>
		P Each Batch	M Composite <sup>d</sup>	H~3	1×10 <sup>-5</sup>
	3. Reactor Building Salt Wat Drain Ta	r ———	Composite	Gross Alpha	1×10 <sup>-7</sup>
	4. Yard Pip ing Drai Sump		Q Composite <sup>d</sup>	Sr-89, Sr-90	5×10 <sup>-8</sup>
				Fe-55	1×10 <sup>-6</sup>
8.	Continuous Releases	D Grab Sample	W Composite <sup>d</sup>	Principal Gamma Emitters	5×10 <sup>-7</sup>
	1. RHR Heat Exchanger Service Water Outlet  2. Reactor Building Salt Water Drain Tank			I-131	1×10 <sup>-6</sup>
		M Grab Sample	М	Dissolved and Entrained Gases (Gamma Emitters)	1×10 <sup>-5</sup>
			м а	н-3	1×10 <sup>-5</sup>
		nk Grab Sample	Composite	Gross Alpha	1×10 <sup>-7</sup>
		D Grab Sample	Q Composite <sup>d</sup>	Sr-89, Sr-90	5×10 <sup>-8</sup>
		diad sample	Composite	Fe-55	1×10 <sup>-6</sup>

<sup>\*</sup> If a batch is released during the month.

## TABLE 3.12.1-1 (Continued)

## RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

EXPOSURE PATHWAY AND/OR SAMPLE	NUMBER OF REPRESENTATIVE SAMPLES AND SAMPLE LUCATIONS	SAMPLING AND COLLECTION FREQUENCY	OF ANALYSIS
4. INGESTION a. Milk	Samples from milking animals in location, lal, within 5 km distance having the highest dose potential. If there are none, then, I sample from milking animals in each of 3 areas, lal, between 5 to 8 km distant where doses are calculated to be greater than 1 mrem per yr, or if there are none available within 8 km, then a location 8 to 17 km distant will be used. I sample from milking animals at a control location, la2, 15-30 km distant, and not in a direction	Semimonthly when animals are on pasture, monthly at other times.	Gamma isotopic <sup>e</sup> and I-131 analysis semimonthly when animals are on pasture; monthly at other times.
b. Fish and Invertebrates	l sample of each commercially and recreationally important species in vicinity of plant discharge area, lb1 - lb2.	Sample in season or semiannually if they are not seasonal.	Gamma isotopic analysis <sup>e</sup> on edible portions.
c. Food Products	I sample of same species in areas not influenced by plant discharge, Ib3.  Samples of 3 different kinds of broad	At time of harvest.	Gamma isotopic <sup>e</sup> and 1-13
	leaf vegetation grown nearest each of two different offsite locations of highest predicted annual average ground-level D/Q, if milk sampling is not performed, Icl - Ic3.		
	1 sample of each of the similar broad leaf vegetation grown 15-30 km distant	At time of harvest.	Gamma isotopic <sup>e</sup> and 1-13 analysis.

in the least prevalent wind direction if milk sampling is not perform, Ic3.