

Sequoyah  
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# ONSITE GROUND/SURFACE WATER MONITORING QUESTIONNAIRE

## Onsite Radiological Effluent/REMP Monitoring Program

### Phase I (Near term response)

		Yes	No	
1.	Does the licensee have radioactive groundwater monitoring wells onsite?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	If YES: How many wells: Sequoyah has 21 onsite, 14 available for monitoring radioactive groundwater			
	Where are they located (e.g., distributed around/throughout the site, in a particular region of the site and/or near particular buildings/structures, etc.)			
	(a) within the Protected Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	(b) within the Radiologically Restricted Area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	(c) within the owner-controlled area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	(d.) at what frequency does the licensee sample/analyze the wells			3 wells sample biweekly, 6 wells sampled monthly, 5 wells not routinely sampled. These 5 last done in 2004 with no activity detected.
	(e.) for what radionuclides does the licensee monitor			
	Gamma emitters (gamma Spec)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	If Yes – at what MDA			5 pCi/l
	Tritium	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	If Yes – at what MDA			300 pCi/l
	Gross Beta	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	If Yes – at what MDA			1.9 pCi/l
	Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	N/A
	If Yes – at what MDA			
2.	If the licensee does NOT have an onsite radioactive groundwater monitoring program:			N/A
	(a.) Does the licensee plan to implement a groundwater monitoring program?	<input type="checkbox"/>	<input type="checkbox"/>	
	If Yes, when and to what extent:			_____
				_____
	(b.) Does the licensee plan to take other measures to assure they can identify radioactive groundwater contamination	<input type="checkbox"/>	<input type="checkbox"/>	N/A

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3. Does the licensee have a french drain system surrounding the main reactor facility and auxiliary structures ?
- (a.) is the system analyzed for radionuclides?   N/A
- (b.) at what frequency does the licensee sample/analyze the wells
- (c.) for what radionuclides does the licensee monitor
- |                             |                          |                          |
|-----------------------------|--------------------------|--------------------------|
| Gamma emitters (gamma Spec) | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes – at what MDA        |                          |                          |
| Tritium                     | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes – at what MDA        |                          |                          |
| Gross Beta                  | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes – at what MDA        |                          |                          |

4. Does the licensee have a surveillance program to periodically :
- (a.) walkdown outside areas around the site to look for potential leaks and spills?
- (b.) pressurize buried radwaste lines to evaluate structural integrity and evaluate potential for leaks and spills?

5. Does the licensee perform any other onsite monitoring (e.g. soil sampling) to identify unexpected radioactive releases

6. Does the licensee's radioactive liquid discharge line traverse any non-licensee owned areas (e.g., it is on a right-of-way surrounded by private properties)?

7. If the licensee has a discharge pipe that runs underground or any underground piping that carries radioactive liquids, does the licensee perform monitoring along the discharge pathway to identify potential leakage.

If YES,  
How frequently is the sampling performed: Monthly

- |   | Yes                                 | No                       |
|---|-------------------------------------|--------------------------|
| 8. Historical Onsite Radioactive Contamination:   |                                     |                          |
| (a.) Does the licensee have any history of radioactive spills and/or leaks outside of buildings/structures? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Are they documented in 10 CFR 50.75g file? (See Comments)   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (b.) Has the licensee identified onsite radioactive groundwater contamination?                              | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

If YES:  
 ➤ When was it identified - IF known:  
     Dates: May 1998 in REMP Well #6. September 2003 in non-REMP well #27.

LER/Abnormal Event Report/Condition Report Nos:

\_\_\_\_\_ N/A \_\_\_\_\_ (If available)

➤ To what extent - IF known [square footage, estimated ground depth of the contamination, estimated quantity (volume / concentration), etc.]

\_\_\_\_\_ N/A \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

➤ Has the contamination moved outside the Restricted Area or the owner-controlled area

9. Comments: RP has documented 2 onsite spills in the VSDS file in the RP Database. One spill in 1997 and one in 1998. VSDS stands for Visual Survey Data System. They designated these surveys as decommissioning. \_\_\_\_\_