

ONSITE GROUND/SURFACE WATER MONITORING QUESTIONNAIRE

Surry Power Station

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"/>	C
If YES: How many wells: <u>One</u>		
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	C	<input checked="" type="checkbox"/>
(b.) within the Radiologically Restricted Area	C	<input checked="" type="checkbox"/>
(c.) within the owner-controlled area	<input checked="" type="checkbox"/>	C
(d.) at what frequency does the licensee sample/analyze the wells		<u>Quarterly</u>
(e.) for what radionuclides does the licensee monitor		
Gamma emitters (gamma Spec)	<input checked="" type="checkbox"/>	C
If Yes - at what MDA		<u>1 to 60 pCi/L</u>
Tritium	<input checked="" type="checkbox"/>	C
If Yes - at what MDA		<u>2,000 pCi/L</u>
Gross Beta	C	<input checked="" type="checkbox"/>
If Yes - at what MDA		
Other: _____	C	<input checked="" type="checkbox"/>
If Yes - at what MDA		
2. If the licensee does NOT have an onsite radioactive groundwater monitoring program:		
(a.) Does the licensee plan to implement a groundwater monitoring program?	C	C
If Yes, when and to what extent _____		
(b.) Does the licensee plan to take other measures to assure they can identify radioactive groundwater contamination	C	C
3. Does the licensee have a french drain system surrounding the main reactor facility and auxiliary structures?	<input checked="" type="checkbox"/>	C
(a.) is the system analyzed for radionuclides?	<input checked="" type="checkbox"/>	C
(b.) at what frequency does the licensee sample/analyze the wells		<u>Weekly</u>

J-S

(c.) for what radionuclides does the licensee monitor

Gamma emitters (gamma Spec)	<input checked="" type="checkbox"/>	C
If Yes - at what MDA		<u>5e-7 µCi/ml</u>
Tritium	<input checked="" type="checkbox"/>	C
If Yes - at what MDA		<u>1e-5 µCi/ml</u>
Gross Beta	C	<input checked="" 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? C
- (b.) pressurize buried radwaste lines to evaluate structural integrity and evaluate potential for leaks and spills? C
5. Does the licensee perform any other onsite monitoring (e.g. soil sampling) to identify unexpected radioactive releases C
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)? C
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. Yes No
C

If YES,

How frequently is the sampling performed: _____

Phase II (Longer Term Response)

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

If YES:

When was it identified - IF known:

Dates: _____

LER/Abnormal Event Report/Condition Report Nos: _____ (If available)

To what extent - IF known [square footage, estimated ground depth of the

contamination, estimated quantity (volume / concentration), etc.]

Has the contamination moved outside the
the owner-controlled area

Restricted Area or C C

Comments: Continuation of question 3c: Gross alpha $1e-7$ $\mu\text{Ci/ml}$ MDA, Sr-89/90 $5e-8$ $\mu\text{Ci/ml}$
and Fe-55 $1e-6$ $\mu\text{Ci/ml}$ MDA.

Question #1: One onsite monitoring location, REMP sample location Surry Station

Question #3: Referring to Storm Drains. Storm Drains are fed by turbine, containment & fuel
buildings sub-surface drains. Part of Rad Effluent program.

Question #4a: Considered yes by Ops & Eng because it is part of an Operators watch station
to be observant for leaks & spills.

Question #4b: Per Eng., radwaste lines are not code piping that requires testing.