

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"/> | C |
| If YES: How many wells: 37, but only 26 are routinely sampled. | | |
| Where are they located: Mainly around the Unit 1 Condensate Storage Tank, but also in various areas in and around the protected area. They also sample eight "outfalls," which drain the surface water and building runoff water. | | |
| (a.) within the Protected Area | <input checked="" type="checkbox"/> | C |
| (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 | | Some monthly, quarterly and annually |
| (e.) for what radionuclides does the licensee monitor | | |
| Gamma emitters (gamma Spec): Only for spills and H3 spikes | <input checked="" type="checkbox"/> | C |
| If Yes - at what MDA | | environmental LLD |
| Tritium - for all groundwater wells and outfalls | <input checked="" type="checkbox"/> | C |
| If Yes - at what MDA | | 150-300 pCi/l |
| Gross Beta | C | <input checked="" type="checkbox"/> |
| If Yes - at what MDA | | N/A |
| Other: | C | <input checked="" type="checkbox"/> |
| If Yes - at what MDA | | N/A |
| 2. If the licensee does NOT have an onsite radioactive groundwater monitoring program: | | N/A |
| 3. Does the licensee have a french drain system surrounding the main reactor facility and auxiliary structures? The licensee has a sub-surface drain system around the power block (reactor, turbine and diesel buildings). | <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 | | Varies by individual well (monthly, |

5/2

(c.) for what radionuclides does the licensee monitor		quarterly and annually)
Gamma emitters (Gamma Spec): For spills, etc.- not for routine monitoring	<input checked="" type="checkbox"/>	C
If Yes - at what MDA		Environmental LLD
Tritium	<input checked="" type="checkbox"/>	C
If Yes - at what MDA		150-300 pCi/L
Gross Beta	C	<input checked="" type="checkbox"/>
If Yes - at what MDA		N/A

4. Does the licensee have a surveillance program to periodically:
- (a.) walkdown outside areas around the site to look for potential leaks and spills? **The licensee credits Operations and HP staff walkdowns** C
- (b.) pressurize buried radwaste lines to evaluate structural integrity and evaluate potential for leaks and spills? **Nor do they do not perform walkdowns during discharges from the radwaste system.** C
5. Does the licensee perform any other onsite monitoring (e.g. soil sampling) to identify unexpected radioactive releases? **All excavations being shipped offsite are sampled, as well as any soils with spills.** 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? C

Phase II (Longer Term Response)

8. Historical Onsite Radioactive Contamination:
- (a.) Does the licensee have any history of radioactive spills and/or leaks outside of buildings/structures? C
- Are they documented in 10 CFR 50.75g file? **In the Corporate Office in Birmingham, AL** C
- (b.) Has the licensee identified onsite radioactive groundwater contamination? C
- If YES:
- When was it identified: **Since 1978.**

LER/Abnormal Event Report/Condition Report Nos:

1. **LER 50-321/1979-021 - The line between the Offgas building and the Turbine Building sheared, allowing a spill.**

2. **NOV 86-41-01 - Issued as a result of the Spent Fuel Pool Transfer Canal Inflatable bladder being deflated between the pools, and allowing 100,000 gallons of SFP water to escape outside the protected area to an adjacent swamp.**

3. **Condition Report 2005104789 - High Tritium levels near Unit 1 CST**

4. **Condition Report 2006102808 - High Tritium levels found in yard well 1Y22-N008A**
To what extent - IF known [square footage, estimated ground depth of the contamination, estimated quantity (volume / concentration), etc.]

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

C



9. Comments:

- **All tritium samples are analyzed offsite.**
- **Soil samples are analyzed onsite with HPGe detectors.**
- **All sampling wells are between 7' and 78' deep. The bulk of the tritium found has been from the shallower wells.**
- **Samples points from the Altamaha River both upstream and downstream of the site have indicated no tritium.**
- **The licensee believes the tritium plume nearest the Unit 1 Condensate Storage Tank has showed some migration, but does not know the distance or depth- additional information may be available from the corporate office.**