



STATE OF TENNESSEE  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
DIVISION OF RADIOLOGICAL HEALTH  
Phone: 615-532-0364 Email : [Division.Radiological.Health@tn.gov](mailto:Division.Radiological.Health@tn.gov)

## **Environmental Monitoring**

### **Air Samples**

Air sample for NFS indicate that the annual average gross alpha and gross beta activities are consistent with background and previous years' concentrations.

### **Water Samples**

*River Samples:* The results from the analysis indicate the annual average gross alpha and gross beta activity concentrations are consistent with background concentrations.

*Tap Water Samples:* The annual average concentrations for samples are consistent with background concentrations.

*Well Samples:* The result of the analysis of monitoring locations indicated gross alpha, gross beta, and uranium activity are consistent with background concentrations. The annual averages for quarterly samples were elevated in 2023 due to ongoing on site stabilization activities at NFS.

### *River Discharge*

The annual average concentrations of alpha, beta, and uranium are below any applicable effluent concentration limits.

### *Sewer Discharge*

The annual average concentrations of alpha, beta, and uranium are below any applicable effluent concentration limits.

### **Sludge Samples**

The analysis of the sludge samples indicated the annual average concentrations of alpha, beta, gamma emitting, and uranium activity are similar to that of the previous year.

### **Vegetation Samples**

The analysis of the samples indicates yearly averages within background levels

### **Dose Monitoring**

The data from the fence line monitoring program around NFS shows that the dose to a member of the public is below annual limits.

## **NFS Authorized Licenses**

Nuclear Fuel Services (NFS) currently has three Tennessee Radioactive Material (RAM) Specific Licenses; two byproduct and one source material.

R-86002 authorizes the possession of sealed sources for instrument calibration and reference standards.



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R-86008 authorizes the receipt of material that may contain certain isotopes, for analysis and/or input into development studies.

S-86001 authorizes the storage, re-sale, analysis, and processing of source material as well as research and development utilizing source material as a substitute for special nuclear material.

### **License Inspections**

RAM inspection includes the following components: an introductory meeting, a facility walkthrough, active work observations, records review, and a close out meeting. Prior to performing the inspection, Division staff perform a license review of all relevant information included in Division Databases such as past inspection reports, compliance history, authorized use, etc. An introductory meeting consists of the following: an overview of the intended inspection process, any needed follow-up regarding violations or incidents from the previous inspection cycle forward to assure that corrective measures were implemented appropriately, discussion of any major program changes implemented since the last inspection cycle, and review of work currently being performed onsite.

The facility walkthrough allows DRH staff an opportunity to assess the condition and layout of the licensee's site. During the walkthrough,

interviews, observations of active work, and inspector surveys are performed.

Records review varies from inspection to inspection with priority given to dose to member of the public (fence line/restricted area dose, water & air releases), dosimetry (worker dose), reportable incidents, training, shipping (receipt, transfer & disposal), facility surveys, leak tests, etc.

The close-out meeting is held to inform the licensee of any potential findings that were observed during the inspection process. This meeting allows for clarification by the licensee and inspectors regarding any unresolved issues.

The inspector drafts and sends a letter summarizing the details of the inspection to the licensee. If violations are observed a notice of non-compliance letter is issued. The licensee is then required to respond in writing acknowledging any violations, state their proposed corrective actions, as well as preventative measures for Division review and approval.

Public Records Request Link:

<https://www.tn.gov/environment/contacts/public-records-request.html>

NRC FAQ Link:

<https://www.nrc.gov/docs/ML2330/ML23306A125.pdf>