



Project Summary:

Vermont Yankee Nuclear Power Station Dose Assessment Study

Location:
Vernon, VT

Government Agency:
Vermont Department of Health

Project Timetable:
December 2005 to
January 2007

Oak Ridge Associated Universities (ORAU) provided technical assistance to the Vermont Department of Health (Division of Health Protection/Radiological Health) to determine how and why officials at Vermont Yankee Nuclear Power Station and the state recorded conflicting radiation measurements at the plant's fence line. ORAU specifically worked to determine the best method of monitoring the dose at the fence line around Vermont Yankee.

The following tasks were completed by ORAU health physicists in preparing the report for the Vermont Department of Health:

- Evaluated all contributions to fence line dose, including natural background, plant operations, and "skyshine" reflection of radiation from the plant's main steam line.
- Determined the reason for the differing values measured by the state and utility and provided an interim solution.
- Compared the results and uncertainty of various monitoring methods (e.g., real-time monitoring, TLD monitoring programs and historical environmental measurements).
- Evaluated state regulations for methods of compliance with fence line dose requirements.

ORAU provided a final report titled "An Evaluation of Direct Gamma Dose at the Site Boundary of the Vermont Yankee Nuclear Power Station" to the Vermont Department of Health with conclusions and recommendations on how to best evaluate dose monitoring around Vermont Yankee Nuclear Power Station.

Partnerships for Innovation



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