

VERSATILE TEST REACTOR ENVIRONMENTAL IMPACT STATEMENT

Oak Ridge National Laboratory

ORNL is being considered as a location for the VTR.

Under the **ORNL VTR Alternative** (described in Chapter 2, Section 2.5, of the Draft VTR EIS), the VTR would be constructed and operated about a mile east of the ORNL main campus.

New structures would include:

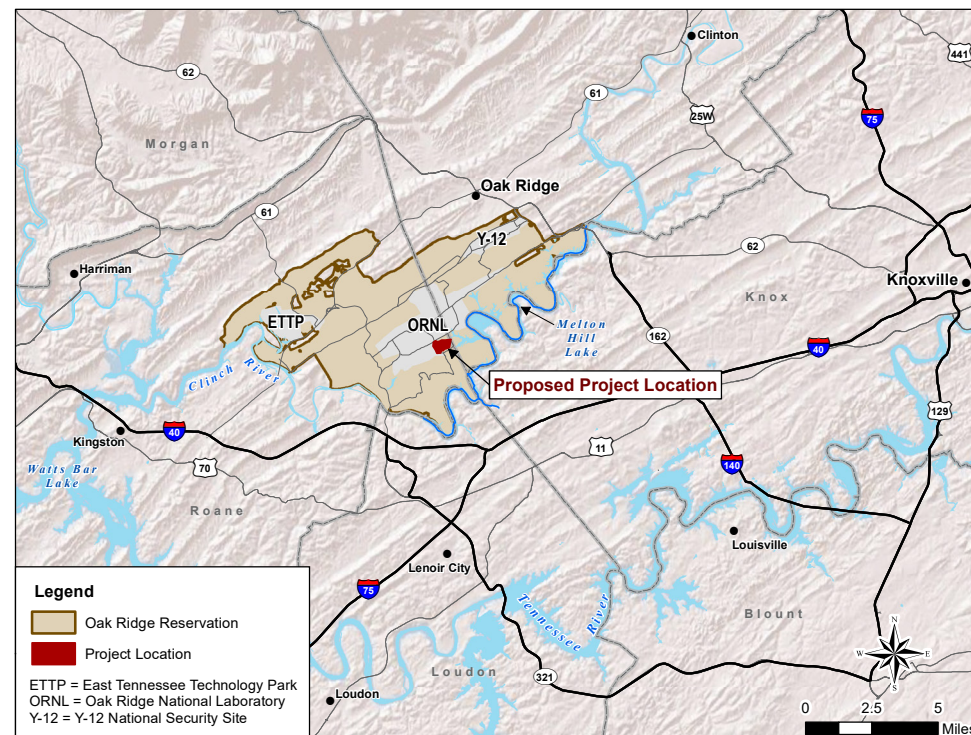
- The reactor building,
- An operational support facility (offices and radiologically clean work areas),
- Sodium to air heat exchangers,
- An electrical switchyard,
- A spent fuel pad, and
- A hot cell facility housing both post-irradiation examination and spent fuel treatment capabilities.

The design of the new Hot Cell Facility would be similar to, but slightly larger than, the Hot Fuels Examination Facility (pictured to the right) at INL.

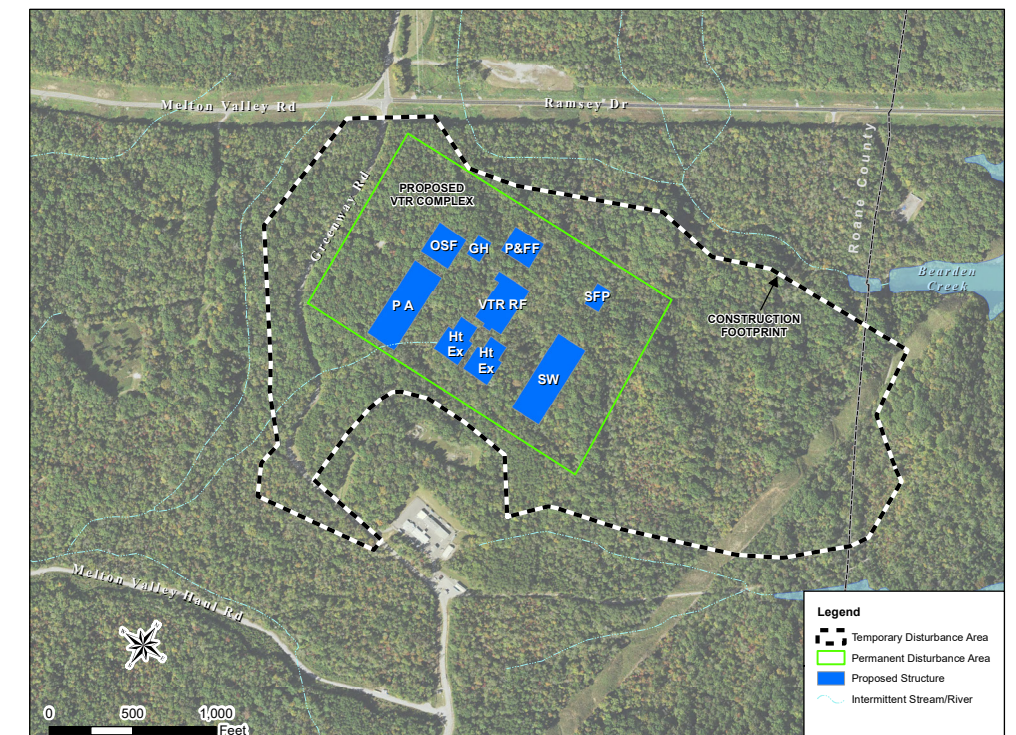
Existing ORNL facilities would be used to augment the capabilities of the new Hot Cell Facility

- Building 3525: the Irradiated Fuels Examination Laboratory,
- Building 3025E: the Irradiated Material Examination and Testing Facility, and
- LAMDA: the Low Activation Materials Design and Analysis Laboratory.

Impacts of the ORNL VTR Alternative can be found in Table S-1 of the Summary and Chapter 4 of the Draft VTR EIS.



**Hot Fuels
Examination
Facility**



GH = Gate House

Ht Ex = Sodium to Air Heat Exchangers

OSF = Operations Support Facility

P&FF = Post-Irradiation Examination and Fuel Treatment Facility

PA = Parking Area

SFP = Spent Fuel Pad

SW = Electrical Switchyard

VTR RF = VTR Reactor Facility