X-10 Facility Time Line

MAJOR PROCESSES

- Plutonium Recovery (Graphite Reactor Fuel Processing), 1943-45
- Graphite Reactor Operations, 1943-63
- Solid Waste Burial Grounds, 1944-present
- Radioactive Lanthanum Processing, 1944-56
- Low Intensity Test Reactor, 1950-68
- Operation of Waste Disposal Pits and Trenches, 1951-70
- The Homogeneous Reactor Test, 1953-61
- Thorex Processing, 1954-60
- The Aircraft Reactor Test, 1954-57
- The Tower Shielding Facility, 1954-60
- Process Waste Treatment Plant, 1957-76
- Oak Ridge Research Reactor, 1958-87
- Central Facility Reactors, 1958-87
- High Flux Isotope Reactor, 1966-presents

ORR ENVIRONMENTAL MONITORING DATA

Surface Water

- 1944-46, Radioactivity in White Oak Dam
- 1944-present, Radionuclides, Metals, Tritium in White Oak Dam, Clinch River
- 1947, Radioactivity in Clinch River
- 1960-64, Radionuclides, Chemicals in Clinch River
- 1970, Mercury in Melton Hill Reservoir
- 1984, Mercury, Organics, Radionuclides, Tritium in White Oak Creek, Clinch River
- 1986, Mercury, Radionuclides in White Oak Lake
- 1986, Cs-137 in Watts Bar Reservoir
- 1988-present, Mercury in First, Fifth, White Oak Creeks
- 1989-90, Metals, Organics, Radionuclides, in Clinch River
- 1990, Metals, Organics, Radionuclides, in Melton Hill, Norris, and Watts Bar Reservoir
- 1995-96, Clinch River/Watts Bar Remedial Investigations

Biota

- 1944-45, Radioactivity in White Oak Creek Lake, White Oak Creek Fish
- 1962, SR-90 in Clinch River Fish
- 1948-49, Radioactivity/Radionuclides in White Oak Creek, White Oak Lake, Clinch River Fish
- 1962-63, Radionuclides in Clinch River, White Oak Creek Fish
- 1951, Radioactivities in Waterfowl on White Oak Lake
- 1961-present, I-131 and SR-90 in Cows' Milk within 50 miles of ORR
- 1961-present, I-131 in Cattle Thyroid within 50 miles of ORR
- 1972, Tritium in White Oak Lake Fish
- 1976-77, Mercury in Clinch River Fish
- 1977-present, Radionuclides in ORR Deer
- 1967-present, Mercury, PCBs, Radionuclides, in Clinch River Fish
- 1977-present, Flouride, Radionuclides in Grass from ORR Perimeter and Remote Stations
- 1979, Metals, in White Oak Creek, White Oak Lake, Clinch River Fish
- 1984, Metals, PCBs, Radionuclides in White Oak Creek, White Oak Lake, Clinch River, Melton Hill Dam Fish, Frogs, Turtles, and Crayfish
- 1985-present, Metals, Organics in White Oak Creek, Melton Branch, Fifth Creek, White Oak Creek, Clinch river Fish
- 1986-88, Radionuclides in Waterfowl on White Oak Lake
- 1986-89, Metals, Pesticides, PCBs, in Melton Hill and Watts Bar Reservoir Fish
- 1987-present, Radioactivity in Geese from ORNL Settling Ponds
- 1989, Metals, PCBs, Pesticides, SVOCs, Radionuclides in Clinch and Tennessee River Fish
- 1995-96, Clinch River/Watts Bar Remedial Investigations

Sediment

- 1944-52-61, Radioactivity in White Oak Lake Sediments
- 1950-53, 56-58, 63-64, 70, 72, Radionuclides in White Oak Lake/White Oak Creek Sediments
- 1951-66, 77, Radionuclides in Clinch River and Tennessee River Sediments
- 1959, Radiation Above White Oak Lake Bed Sediments
- 1960-64, Radionuclides and Chemicals in Clinch and Tennessee River Sediments
- 1962, Ruthenium in White Oak Lake Bed Sediments
- 1970, Mercury in Melton Hill Reservoir sediment
- 1973,1982, PCBs, Metals in Watts Bar and Melton Hill Reservoir Sediments
- 1973-74, PCBs, in White Oak Creek, Clinch River, Melton Hill Reservoir Sediments
- 1975-present, Metals in Clinch River Sediment
- 1978-85, Radionuclides in White Oak Creek Gravel
- 1979, PCBs in Clinch River
- 1985, 1989-90, Metals, Organics, Radionuclides in Clinch River Sediments
- 1986, Metals,PCBs, and Radionuclides in Clinch River Sediment
- 1988-present, Mercury in First, Fifth, White Oak Creek Sediment
- 1984, Mercury, Radionuclides in White Oak Creek, Melton Hill Reservoir, Tennessee River Sediments
- 1990-91,Metals, Organics, Radionuclides in White Oak Creek Embayment Sediment
- 1990, Metals, Organics, Radionuclides in Melton Hill, Norris, and Watts Bar Reservoir Sediments
- 1995-96, Clinch River/Watts Bar Remedial Investigations

Air

- 1947-present, Particle Number, Beta Radioactivity, ORNL Local Area
- 1955-present, Particle Number, Fallout Particle Number, Beta Radioactivity, Beta Radioactivity in Rainwater, ORNL Local Area, ORR Perimeter, Remote Locations
- 1963-present, I-131 ORNL Local Area, ORR Perimeter
- 1975-present, Particulate Gamma Emitters, SR-90 ORNL Local Area, ORR Perimeter and Remote Locations (12-120 miles)
- 1980, Tritium, ORNL Local Area

Drinking Water

- 1959-present, Radionuclides in Water from Clinch River Water Intakes
- 1981, 83, Radionuclides, Metals in Residential Well Water
- 1985, Radioactivity in Residential Well Water
- 1986, Radioactivity, Radionuclides, Inorganics in Residential Well Water
- 1986, 89-present, Metals, Organics, Radionuclides in Residential Drinking Water

PUBLIC HEALTH ACTIVITIES AT THE ORR

- 1942-93, Phase I Oak Ridge Health Study (10/93)
- 1942-93, Phase II Oak Ridge Health Studies (7/99)
  - Iodine-131 dose reconstruction report 1944-56
  - Radionuclide releases to Clinch River 1943-66
  - PCB dose reconstruction report 1942-99
- 1942-96, Oak Ridge Health Agreement Steering Panel: Feasibility of Epidemiologic Studies (7/96)
- 1980-92, Health Statistics Review of Mortality Rates (1994)
- 1984, Pilot Survey of Mercury Levels in Oak Ridge (10/85)
- 1985-95, Health Consultation on Lower Watts Bar Reservoir (2/96)
- 1992, Review of Clinical Information on Persons Living in or near Oak Ridge, Tennessee (9/92)
- 1997, Watts Bar Reservoir Exposure Investigation (3/98)
- 1996-present, Off-Site Residential Well Sampling Program

1944 1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000