

Appendix F. Air Permits

Table F.1. Air Permits at the Y-12 Complex, 2005

Emission source reference number	Permit number	Source description
01-0020-15	554701	Metal Fabrication Shop
01-0020-17	554701	Graphite Carbon Machine Shop
01-0020-59	554701	Tool Fabrication Shop
01-0020-99	554701	General Machine Shop
01-1020-31	554701	Y-12 Steam Plant
01-1020-19	554701	Rubber Shop
01-1020-99	554701	Classified Paper Waste Incinerator
01-0020-35	554701	Brine/Methanol System
01-0020-38	554701	Brine/Methanol System
01-1020-82	554701	Dry Ash Handling System
01-0020-44	554701	Arc Melt Operation
01-0020-21	554701	East Machine Shop
01-1020-18	554701	North Machine Shop
01-0020-30	554701	Plating Shop
01-0020-21	554701	West Machine Shop
01-0020-06	554701	Beryllium Laboratory
01-1020-56	554701	Metal Forming and Heat Treating Operation
01-0020-13	554701	Foundry Operation
01-0020-37	554701	Machine Shop
01-1020-51	554701	O-Wing Metal Working Operation
01-1020-52	554701	P-Wing Operations
01-1020-53	554701	Third Mill Operation
01-1020-84	554701	R & D Facility
01-1020-12	554701	Metal Forming & Heat Treating Operation
01-0020-03	554701	Chemical Process Operation
01-0020-21	554701	Air Bearing Operation
01-0020-05	554701	Special Processing Operation
01-0020-02	554701	Metal Casting and Recovery Operation
01-1020-72	554701	Chemical Process Operation
01-1020-55	554701	Dry Chemistry Operation
01-1020-55	554701	Special Material Operation
01-1020-79	554701	Ceramic Machine Shop
01-0020-71	554701	Electrolytic Cell Process
01-1020-57	554701	Wet Chemistry Operation
01-0020-68	554701	Disassembly and Storage Operation
01-0020-27	956248P	Special Materials Purification Facility

Table F.2. Oak Ridge National Laboratory air permits, 2005

Emission source reference number	Permit number	Source description
73-0112-01	556850	Radioactive Materials Analytical Laboratory
73-0112-02	556850	Radiochemical Development Facility
73-0112-03	556850	Steam Plant
73-0112-05	556850	Manipulator Boot Shop
73-0112-07	556850	Boilers
73-0112-09	556850	Surface Coating and Cleaning Operation
73-0112-11	956542P	Spallation Neutron Source and Central Exhaust Facility (construction permit)
73-0112-24	556850	Boilers
73-0112-25	556850	Boilers
73-0112-37	547563 ^a	Air Stripper (Bechtel Jacobs Company permit)
73-0112-82	556850	High Flux Isotope Reactor & Radiochemical Engineering Development Center
73-0112-93	547563 ^a	Off Gas & Hot Cell Ventilation (Bechtel Jacobs Company permit)
Not applicable	0904-12 ^b	National Transportation Research Center

^aTitle V Major Source Operating Permit issued October 2004 superseding previously issued operating permit 739974P for 3039 and permit 730489P for 3608.

^bPermit issued by Knox County Department of Air Quality Management.

Table F.3. East Tennessee Technology Park air permits, 2005

ETTP source number	Emission source reference number	Permit number	Source description	Permit type
K1202ST1 ^a	73-1106-20	033203P	Tank storing waste oils and solvents for incinerator	Operating
K1202ST2 ^a	73-1106-41	034392P	Tank storing waste oils and solvents for incinerator	Operating
K1420AI ^a	73-0106-82	034619P	Flammable materials storage tank	Operating
K1423TSCAREPACK	73-0106-02	958435P	Rad-contaminated solids sorting/packaging	Construction
K1425WOSA	73-0106-11	029895P	Waste oil and solvent storage tanks	Operating
K1425WOSB	73-0106-11	029895P	Waste oil and solvent storage tanks	Operating
K1425WOSC	73-0106-11	029895P	Waste oil and solvent storage tanks	Operating
K1425WOSD	73-0106-11	029895P	Waste oil and solvent storage tanks	Operating
K1435TSCAINCIN ^b	73-0106-78	957808I	Toxic Substances Control Act Incinerator	Construction
K1435CTANKFARM	73-0106-75	037460P	Tank farm for hazardous liquid wastes	Operating
K1407CNFAIRSTRIPPER	73-0106-90	045253P	Air stripper for removing volatile organic compounds at Central Neutralization Facility	Operating
ETTPFUGITIVEEMISSIONS	73-1106-38	043016P	Number of sources logged into permit	Operating

^aSources permanently removed from service; request to rescind permits submitted with Title V permit reapplication submitted August 2004.

^bPermit to Construct or Modify the Toxic Substances Control Act Incinerator issued in January 2005.

Table F.4. Periods of excess emissions and out-of-service conditions for Y-12 Steam Plant east and west opacity monitors, 2005

Date	Stack	Condition	Comments
February 8	East	False reading of 45 6-min periods of excess emissions	The optical head misalignment occurred due to opacity monitor weather cover supports becoming loose over time. The problem was corrected the same day it occurred.
July 13	East	Opacity monitoring system was inoperative	Opacity monitor malfunction
August 10	West	One 6-min period of excess emissions	Start-up of fans on Boiler 1 during overhaul
August 15	West	Opacity monitoring system was inoperative	Optical head alignment was adjusted.
August 29	West	One 6-min period of excess emissions	Start-up of fans on Boiler 1 during overhaul
September 12	East	Opacity monitoring system was inoperative	Mounting bracket bolts became loose, causing the optical head to drift out of alignment
September 13	East	Opacity monitoring system was inoperative	Mounting bracket bolts became loose causing the optical head to drift out of alignment. This problem was repaired on September 13
September 23	East	Opacity monitoring system was inoperative	Opacity monitor malfunction
November 4, 5	East	Opacity monitoring system was inoperative	Monitor optical head and purge blower malfunction
November 9	East	Opacity monitoring system was out of service	Monitor purge blower motor malfunction
November 14	West	Three 6-min periods of excess emissions	A bag was blown off in Compartments 2 and 3 of Baghouse 1
December 10	West	One 6-min period of excess emissions	A bag was torn in Compartment 3 of Baghouse 1
December 10	East	Opacity monitoring system was inoperative	Opacity monitor malfunction