

**Table 9.4. Air permits at the Y-12 Plant**

Y-12 Plant source number	Source reference number	Permit number	Stack	Stack description
<i>Part I—operating permits at Y-12 Plant</i>				
Y-9201-1-A	01-0020-15	730303P	582	Weld booths sanders and grinders
			583	Metal sanders and grinders
			584	Plasma torch
			585	Grinding room area exhaust
Y-9201-1-B	01-0020-59	730310P	586	Tool grinding machine shop
			587	Sand blaster exhaust
Y-9201-1-C	01-0020-17	036057P	278	Graphite carbon machine shop
			279	Graphite carbon machine shop
Y-9201-1-E	01-1020-92	035050P	00	Lead machining operations
			6	Welding shop sanding
Y-9201-1W-A	01-0020-99	036129P	00	Machine shop equipment
			272	Grit blasting
Y-9201-4-A	01-1020-96	032956P	264	Mercury flasking hood
Y-9201-5-H	01-0020-16	026019P	762	Mixing process material
			763	Setup and sample area
			764	Vapor blaster
			765	Nickel plating tank exhaust
			766	Material handling
			767	Material handling
			768	Glovebox and blending station
			769	Inspection house vacuum
Y-9201-5-J	01-0020-21	730305P	276	Tool grinding machine shop
Y-9201-5E-B	01-0020-21	730305P	273	Electrochemical machine shop
			71	Machining operations L5N
			72	Vacuum inlets L5E machining
			73	Palarite shop—Machine
Y-9201-5N-A	01-1020-18	730314P	67	Machine shop exhaust
Y-9201-5N-B	01-0020-30	030484P	239	Plating tanks and hoods
			240	Plating tanks and hoods
			241	Plating tanks and hoods
			242	Incinerator
			243	Grit blaster
			244	Grit blaster and area exhaust
			245	Process hoods
			454	Plating hoods
			8	Degreaser (removed)
Y-9201-5W-I	01-0020-24	730305P	00	Machine shop equipment
			455	Rubber-gel potting hood exhaust
Y-9202-A	01-0020-06	031696P	160	Laboratory beryllium
			161	Laboratory beryllium
			3	Laboratory beryllium
			4	Laboratory beryllium

Table 9.4 (continued)

Y-12 Plant source number	Source reference number	Permit number	Stack	Stack description
Y-9204-2-A	01-0020-46	026107P	301	Storage tank
			302	Storage tank
			303	Storage tank
			304	Storage tank
			305	Storage tank
			306	Storage tank
			307	Storage tank
			308	Storage tank
			309	Storage tank
			310	Storage tank
			311	Storage tank/head tank
Y-9204-2-D	01-1020-57	730327P	312	Storage tank
			342	Salvage vats
			343	Storage tank
			344	Lithium chloride crystallizer
			345	Lithium chloride crystallizer
			346	Neutralizer
			347	Processor tank
			348	Lithium chloride crystallizer
Y-9204-2-E	01-1020-55	730325P	349	Processor tanks
			350	Processor tank
			351	Oven
			352	Oven
			356	Tungsten screener
			357	Dry box vent
			358	Material handling
			359	Gloveboxes
			360	Outgassing/annealing oven
			361	Material handling
			362	Gloveboxes
			363	Reactor unloading station
			364	Reactor unloading station
			365	Metal ingot storage glovebox
Y-9204-2-F	01-0020-51	730309P	366	New metal ingot storage glovebox
			368	Classified
			369	Classified
Y-9204-2E-A	01-1020-91	730312P	370	Classified
			202	Positive ion accelerator
			436	Oven
			439	Hood exhaust
			441	Hood
			442	Hood
			443	Perc degreaser
			444	Chromic acid eletcropolish
Y-9204-3-A	01-0020-89	018208P	445	Surface coating
			106	Furnaces

Table 9.4 (continued)

Y-12 Plant source number	Source reference number	Permit number	Stack	Stack description			
Y-9204-4-B	01-0020-72	730313P	481	Exhaust from machining operations			
			482	Exhaust from hood—reclamation			
			484	Rolling mill—1st floor			
			485	Exhaust from paint hood			
			486	Filtering exhaust from paint booths			
			488	Laboratory hoods—1st floor			
			489	Laboratory hoods—reclamation area			
			490	Assembly process—1st floor			
			491	Assembly process—1st floor			
			Y-9204-4-E	01-0020-33	032932P	258	Plating equipment
259	Plating equipment						
260	Plating equipment						
261	Plating equipment						
Y-9206-A	01-0020-48	012892P	421	Storage tank			
Y-9206-B	01-0020-03	731689P	013	South stack incinerator			
			015	West stack			
			016	Dissolving hood			
			017	Steam cleaning hoods			
			115	Reduction fluid bed			
			135	AEC scrubber stack			
			136	AEC consolidated stack			
			208	Conversion fluid bed			
			209	HF purge vent			
			210	Chemical makeup area			
			211	Hood 29 and 30			
			212	DRY vacuum system			
			Y-9206-C	01-1020-24	730316P	12	Classified
						14	Uranium alloy production
			Y-9212-A	01-1020-72	036942P	111	Reduction fluid bed
						112	Conversion fluid beds
						132	Decontamination facility
134	B-Wing and C-1 Wing exhaust						
19	FILT Exhaust						
21	Centrifuges						
22	Reduction salvage crusher						
24	Calciner and dry vacuum system enclosure						
25	Denitrator area and fluid bed room enclosure						
27	D-Wing room 1010 hoods						
28	Reduction shear and room						
33	Headhouse equipment incinerator						
36	East scrubber (C-1 wing)						
40	B-1 sampling lab hood						
42	Chloride removal system (C-1)						
429	Fluorine cylinder rack enclosure						
430	HF dock cylinder/vaporizer						
431	N <sub>2</sub> O <sub>4</sub> cylinder purge vent						
432	Muffle furnaces (2) vent Room 229						

Table 9.4 (continued)

Y-12 Plant source number	Source reference number	Permit number	Stack	Stack description
			50	C-1 chip burner enclosure
			500	Primary extraction vent
			501	Secondary extraction vent
Y-9212-B	01-0020-02	730301P	110	U metal and U metal alloy
			38	U metal drying and briquetting process
			43	Exhaust from chip washing
Y-9212-C	01-0020-05	025984P	48	E-Wing machine shop
			113	Dissolver trays/scrubber
			114	Shear and hacksaw hood
			128	Precipitation process
			26	Drum receiving/sampling hood and glovebox
			290	Tube furnace/gas purge vent
			44	Leaching and dissolving hoods
			45	Muffle furnace dry hoods
			46	Tray dissolver hoods
			47	Dissolver tray hoods/room 1
Y-9215-A	01-0020-37	731839P	3	Machine shop hood exhaust
Y-9215-B	01-1020-51	732125P	1	O-wing metal working operations
			2	Turco pretreat spray hood
			4	O-wing metal working operations
Y-9215-D	01-1020-53	025966P	6	O-wing metal working operations
			10	Roll mill exhaust
			11	Furnance/quench tank/conveyor exhaust
			12	Hydraulic shear exhaust
Y-9401-3-A	01-1020-31	034809F	9	Rolling mill/ salt bath
Y-9401-3-B	01-1020-32	034809F	170	Coal-fired boiler
Y-9401-3-C	01-1020-33	034809F	170	Coal-fired boiler
Y-9401-3-D	01-1020-34	034809F	171	Coal-fired boiler
Y-9401-3-D	01-1020-34	034809F	171	Coal-fired boiler
Y-9404-11-A	01-1020-81	28426P	373	Purification plant reator
			374	Purification plant glovebox
			375	Purification plant glovebox
			376	Purification plant glovebox
Y-9404-5-A	01-0020-25	012866P	676	Paint spray booth
			677	Paint spray booth
Y-9404-7-A	01-1020-89	034295P	00	Maintenance shop
Y-9404-9-C	01-1020-19	730315P	323	Halar oven
			324	Urethane warming oven
			325	Urethane oven #3
			326	PVC oven #4
			327	PVC oven #5
			328	Steam autoclave
			329	General use oven
			330	Halar spray booth
			331	Blue M oven
			332	Drape forming equipment
			333	Vacuum system

Table 9.4 (continued)

Y-12 Plant source number	Source reference number	Permit number	Stack	Stack description
			336	Despatch oven
			337	Rubber preparation equipment
			338	Lab hood
			339	Despatch oven
			340	Vacuum pumps
			341	Plastics fume hood
Y-9616-10-A	01-1020-62	029280P	428	Sulfuric acid storage tank
Y-9616-7-A	01-1020-80	031254P	271	Vent from air stripper
Y-9616-7-B	01-1020-74	737019P	459	West end treatment storage
			460	West end treatment storage
			461	West end treatment storage
			462	West end treatment storage
			463	West end treatment vent reactor vessel
			464	West end treatment storage
			465	West end treatment vent degasifier unit
			466	West end treatment storage
			467	West end treatment storage
			468	West end treatment storage
			469	West end treatment vent lime silo
			470	West end treatment storage
			471	WETF laboratory hood
			472	WETF sodium hydroxide tank
			473	WETF clarifier (6-315)
			650	Biological treatment tank
			651	Biological treatment tank
			652	Biological treatment tank
			653	Biological treatment tank
			654	Biological treatment tank
			655	Biological treatment tank
			656	Solids storage tank
			657	Solids storage tank
			658	Solids storage tank
			659	Solids storage tank
			660	Solids storage tank
			661	Solids storage tank
			662	Solids storage tank
			665	WETF-F-380A sludge settling
			666	WETF-F-380B sludge settling
			667	WETF-F-381A sludge concentrator
			668	WETF-F-381B sludge denitrator
			669	WETF-F-384 decant hold tank
			670	WETF-F-382 decant tank/30
			671	WETF-F-385 decant tank/30
			672	WETF-F-390A calcium carbonate
			673	WETF-F-390B calcium carbonate
			674	WETF-F-390C calcium carbonate
			675	WETF-F-400 F-401 slurry tank
Y-9720-12-A	01-1020-89	034295P	00	Non-special nuclear material
Y-9720-25-A	01-1020-89	034295P	00	Drum storage warehouse

Table 9.4 (continued)

Y-12 Plant source number	Source reference number	Permit number	Stack	Stack description
Y-9720-28-A	01-1020-89	034295P	00	Drum storage warehouse
Y-9720-31-A	01-1020-89	034295P	00	RCRA and mixed waste storage
Y-9720-32-A	01-0020-42	032547P	201	Classified waste shredder
			435	Classified paper incinerator
Y-9720-44-A	01-1020-89	034295P	00	Low-level waste storage pad
Y-9720-58-A	01-1020-89	034295P	00	PCB and RCRA staging and storage
Y-9720-6-A	01-0020-26	012867P	678	Paint spray booth
			679	Oven
Y-9720-60-A	01-1020-89	034295P	00	DARA solids storage unit
Y-9720-9-A	01-1020-89	034295P	00	PCB and RCRA hazardous waste
Y-9738-A	01-0020-14	036776P	576	Sand blaster
			577	Hood with fan
			578	Sand blaster
			579	Hood with fan
			580	Hood with fan (removed)
Y-9767-4-B	01-0020-35	012877P	00	Chilled water circulating system
Y-9811-1-A	01-1020-95	731997P	400	Waste oil/storage bulk storage
			401	Waste oil/storage bulk storage
			402	Waste oil/storage bulk storage
			403	Waste oil/storage bulk storage
			404	Waste oil/storage bulk storage
			405	Waste oil/storage bulk storage
Y-9811-1-B	01-1020-89	034295P	00	Waste oil/solvent drum storage
Y-9811-6-A	01-1020-82	029415P	377	Dry ash handling system
			378	Dry ash handling system
Y-9811-8-A	01-1020-63	032988P	407	Waste oil/solvent storage
			408	Waste oil/solvent storage
			409	Waste oil/solvent storage
			410	Waste oil/solvent storage
			411	Waste oil/solvent storage
Y-9811-8-B	01-1020-89	034295P	00	Waste oil/solvent drum storage
Y-9815-A	01-0020-11	025895P	780	Vent from dissolvers
			781	Nitric acid storage tank
			782	Nitric acid storage tank
			783	Storage tank/4400 gal
			784	Storage tank/1800 gal
			785	2 storage tanks/2200 gal
Y-9818-A	01-0020-12	025965P	790	Hot well seal tank
			791	10 storage tanks–nitric acid
			792	Bioreactor tanks/ozonation
			793	Basement exhaust
			794	Nitric acid supply line vent
			795	Calcium acetate storage tank
			796	Nitric waste storage tank
			797	Nitric waste storage tank
			798	Nitric acid storage tank
			799	Nitric acid storage tank
			800	Ozone generator/area exhaust
			801	Nitric acid waste tank

Table 9.4 (continued)

Y-12 Plant source number	Source reference number	Permit number	Stack	Stack description
			802	Caustic waste tank
			803	Still condensers
Y-9828-6-A	01-1020-89	034295P	00	Trash monitoring station
Y-9983-74-A	01-1020-89	034295P	00	Old salvage yard
<i>Part II—construction permits at Y-12 Plant</i>				
Y-9201-1-A	01-0020-15	730303P	582	Weld booths sanders and grinders
			583	Metal sanders and grinders
			584	Plasma torch
			585	Grinding room area exhaust
Y-9201-1-B	01-0020-59	730310P	586	Tool grinding machines
			587	Sand blaster exhaust
Y-9201-5-J	01-0020-21	730305P	276	Tool grinding machines
Y-9201-5E-B	01-0020-21	730305P	273	Electrochemical machine
			71	Machining operations L5N
			72	Vacuum inlets L5E machining
			73	Palarite shop—machine
Y-9201-5N-A	01-1020-18	730314P	67	Machine shop exhaust
Y-9201-5W-I	01-0020-24	730305P	00	Machine shop equipment
			455	Rubber-gel potting hood exhaust
Y-9204-2-D	01-1020-57	730327P	342	Salvage vats
			343	Storage tank
			344	Lithium chloride crystallizer
			345	Lithium chloride crystallizer
			346	Neutralizer
			347	Processor tank
			348	Lithium chloride crystallizer
			349	Processor tanks
			350	Processor tank
Y-9204-2-E	01-1020-55	730325P	351	Oven
			352	Oven
			356	Tungsten screener
			357	Dry box vent
			358	Material handling
			359	Gloveboxes
			360	Outgassing/annealing oven
			361	Material handling
			362	Gloveboxes
			363	Reactor unloading station
			364	Reactor unloading station
			365	Metal ingot storage glovebox
			366	New metal ingot storage glovebox
Y-9204-2-F	01-0020-51	730309P	368	Classified
			369	Classified
			370	Classified
Y-9204-2E-A	01-1020-91	730312P	202	Positive ion accelerator
			436	Oven
			439	Hood exhaust
			441	Hood

Table 9.4 (continued)

Y-12 Plant source number	Source reference number	Permit number	Stack	Stack description
Y-9204-4-B	01-0020-72	730313P	442	Hood
			443	Perc degreaser
			444	Chromic acid electropolish
			445	Surface coating
			481	Exhaust from machining operations
			482	Exhaust from hood
			484	Rolling mill
			485	Exhaust from paint hood
			486	Filtering exhaust from paint booths
			488	Laboratory hoods
			489	Laboratory hoods
			490	Assembly process
			491	Assembly process
Y-9206-B	01-0020-03	731689P	013	South stack incinerator
			015	West stack
			016	Dissolving hood
			017	Steam cleaning hoods
			115	Reduction fluid bed
			135	AEC scrubber stack
			136	AEC consolidated stack
			208	Conversion fluid bed
			209	HF purge vent
			210	Chemical makeup area
			211	Hood 29 and 30
			212	Dry vacuum system
			Y-9206-C	01-1020-24
Y-9212-B	01-0020-02	730301P	14	Uranium alloy production
			110	U metal and U metal alloy
			38	U metal drying and briquetting process
Y-9215-A	01-0020-37	731839P	43	Exhaust from chip washing
			48	E-wing machine shop
Y-9215-B	01-1020-51	732125P	3	Machine shop hood exhaust
Y-9404-9-C	01-1020-19	730315P	1	O-wing metal working operations
			2	Turco pretreat spray hood
			4	O-wing metal working operations
			6	O-wing metal working operations
			323	Halar oven
			324	Urethane warming oven
			325	Urethane oven #3
326	PVC oven #4			
327	PVC oven #5			
328	Steam autoclave			
329	General use oven			
330	Halar spray booth			
331	Blue M oven			
332	Drape forming equipment			
333	Vacuum system			
336	Despatch oven			
337	Rubber preparation equipment			



Table 9.4 (continued)

Y-12 Plant source number	Source reference number	Permit number	Stack	Stack description
Y-9616-7-B	01-1020-74	737019P	338	Lab hood
			339	Despatch oven
			340	Vacuum pumps
			341	Plastics fume hood
			459	West end treatment storage
			460	West end treatment storage
			461	West end treatment storage
			462	West end treatment storage
			463	West end treatment vent reactor vessel
			464	West end treatment storage
			465	West end treatment vent degasifier unit
			466	West end treatment storage
			467	West end treatment storage
			468	West end treatment storage
			469	West end treatment vent lime silo
			470	West end treatment storage
			471	WETF laboratory hood
			472	WETF sodium hydroxide tank
			473	WETF clarifier (6-315)
			650	Biological treatment tank
			651	Biological treatment tank
			652	Biological treatment tank
			653	Biological treatment tank
			654	Biological treatment tank
			655	Biological treatment tank
			656	Solids storage tank
			657	Solids storage tank
			658	Solids storage tank
			659	Solids storage tank
			660	Solids storage tank
			661	Solids storage tank
			662	Solids storage tank
			665	WETF-F-380A sludge settling
			666	WETF-F-380B sludge settling
			667	WETF-F-381A sludge concentrator
			668	WETF-F-381B sludge denitrator
			669	WETF-F-384 decant hold tank
			670	WETF-F-382 decant tank/30
			671	WETF-F-385 decant tank/30
			672	WETF-F-390A calcium carbonate
			673	WETF-F-390B calcium carbonate
			674	WETF-F-390C calcium carbonate
			675	WETF-F-400 F-401 slurry tank
Y-9811-1-A	01-1020-95	31997P	400	Waste oil/storage bulk storage tank
			401	Waste oil/storage bulk storage tank
			402	Waste oil/storage bulk storage tank
			403	Waste oil/storage bulk storage tank
			404	Waste oil/storage bulk storage tank
			405	Waste oil/storage bulk storage tank