

## **CONVERSION FACTORS**

---

<u>To Convert</u>	<u>To</u>	<u>Multiply By</u>
Atmospheres	Bars	1.01325
Atmospheres	Feet of H <sub>2</sub> O (39.2°F)	33.8995
Atmospheres	mm of mercury (0°C)	760
	Inches of	
Atmospheres	mercury(32°F)	29.9213
Atmospheres	psi	14.6960
Bars	psi	14.5038
Barrels (oil, US)	Gallons (US)	42.0
BTU/min	Kilowatt	0.0175725
BTU/min	Kilogram - calories	0.25199576
BTU/min	Foot - lbs	778.768
BTU	Horsepower - hrs	$3.92752 \times 10^{-4}$
BTU	Kilogram - meters	107.514
BTU	Kilowatt - hrs	$2.92875 \times 10^{-4}$
BTU	Therms	0.00001
BTU/hr	Foot - lbs/sec	0.21601
BTU/min	Horsepower	0.0235651
Centimeters	Feet	$3.281 \times 10^{-2}$
Centimeters	Inches	0.39370079
Centimeters/sec	Feet/min	1.19685039
Cubic centimeters	Gallons (US, liquid)	$2.6417205 \times 10^{-4}$
Cubic centimeters/min	mL/min for water only	1
Cubic centimeters/min	Gallons/hr	0.015850323
Cubic feet	Cubic inches	1728.0
Cubic feet	Cubic meters	0.028316847
Cubic feet	Cubic yards	0.03704
Cubic feet	Gallons (US, liquid)	7.4805195
Cubic feet	Liters	28.316847
Cubic feet/hr	Liters/min	0.47193
Cubic feet/min	Liters/min	28.31605
Cubic inches	Cubic centimeters	16.387064
Cubic inches	Cubic feet	$5.787 \times 10^{-4}$

# **FEDERAL REGULATIONS - 40 CFR**

## **AIR PROGRAMS AND OTHERS**

---

### Air Programs

- Part 50 National Primary and Secondary Ambient Air Quality Standards
- Part 50 Ambient Test Methods (Appendix A-J)
- Part 53 Ambient Air Monitoring Reference and Equivalent Methods
- Part 60 Standards of Performance for New Stationary Sources
- Part 60 Test Methods for New Stationary Sources (Appendix A)
- Part 60 CEMS (Appendix B-F)
- Part 61 National Emission Standards for Hazardous Air Pollutants
- Part 61 Test Methods (Appendix B)
- Part 63 National Emission Standards for Hazardous Air Pollutants for Source Categories
- Part 63 Test Methods (Appendix A)
- Part 68 Chemical Accident Prevention Provisions (Risk Management Plan)
- Part 70 State Operating Permit Programs
- Part 71 Federal Operating Permit Programs
- Part 75 Continuous Emissions Monitoring
- Part 76 Acid Rain Nitrogen Oxides Emission Reduction Program

### Others

- Part 112 Oil Pollution Prevention
- Part 122 The National Pollutant Discharge Elimination System
- Part 302 Spill Reporting; Designation, Reportable Quantities, and Notification
- Part 355 Emergency Planning and Notification
- Part 370 Hazardous Chemical Reporting - Community Right-To-Know
- Part 372 Toxic Chemical Release Reporting - Community Right-To-Know
- Part 761 PCBs Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions

## MAJOR SOURCE EMISSIONS THRESHOLDS FOR TITLE V APPLICABILITY\*

---

POLLUTANT	THRESHOLD EMISSIONS LEVELS IN TONS PER YEAR (TPY)
<b>Sulfur Dioxide (SO<sub>2</sub>)</b>	100
<b>Particulate Matter (PM)</b>	100
<b>Hazardous Air Pollutants (HAPs)</b>	10/25 <sup>A</sup>
<b>Volatile Organic Compounds (VOCs) and Nitrogen Oxides (NO<sub>x</sub>) in:</b>	
Attainment areas and marginal and moderate nonattainment areas	100
Serious nonattainment areas	50
Severe nonattainment areas	25
Extreme nonattainment areas	10
<b>Carbon Monoxide (CO) in:</b>	
Attainment areas and moderate nonattainment areas	100
Serious nonattainment areas	50

# ASTM STANDARD E1527-97 STANDARD PRACTICE FOR ENVIRONMENTAL SITE ASSESSMENTS:

## *Phase I Environmental Site Assessment Process*

---

### I. Records Review

#### A. Government Lists and Minimum Search Radius

<b>Name of Government List</b>	<b>Minimum Search Distance</b>
<b>National Priority List</b>	1 Mile
<b>Resource Conservation and Recovery Act Treatment Storage and Disposal Facility List</b>	1 Mile
<b>State Equivalent of the National Priority List and Comprehensive Environmental Response Compensation and Liability Information System Lists</b>	1 Mile
<b>Federal Comprehensive Environmental Response Compensation and Liability Information System List</b>	0.5 Miles
<b>State Lists of Landfills and Solid Waste Disposal Sites</b>	0.5 Miles
<b>Leaking Underground Storage Tank Lists</b>	0.5 Miles
<b>Resource Conservation and Recovery Act Generators List</b>	Property and Adjoining Properties
<b>Registered UST Lists</b>	Property and Adjoining Properties
<b>Emergency Response Notification Sites List</b>	Property Only

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY—TELEPHONE DIRECTORY

## **Region I** — Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont

Regional Administrator .....(617) 918-1010  
Director, ECO System.....(617) 918-1510  
Director, Office of Public Affairs .....(617) 918-1051

---

## **Region II** — New Jersey, New York, Puerto Rico, Virgin Islands

Regional Administrator .....(212) 637-3000  
Director, Air & Waste Management Division.....(212) 637-4000  
Director, External Programs Division.....(212) 637-3660

---

## **Region III** — Delaware, District of Columbia, Maryland, Pennsylvania, West Virginia, Virginia

Regional Administrator .....(215) 814-2900  
Director, Hazardous Waste Management Division.....(215) 814-3110  
Director, Air, Radiation, & Toxics Division.....(215) 814-2100

---

## **Region IV** — Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee

Regional Administrator .....(404) 562-8357  
Director, Air, Pesticides, & Toxic Management Division.(404) 562-9077  
Director, Waste Management Division.....(404) 562-8651  
Director, Office of External Affairs.....(404) 562-8327  
Freedom of Information Act .....(404) 562-9900

---

## **Region V** — Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin

Regional Administrator .....(312) 886-3000  
Director, Air Division .....(312) 353-2212  
Director, Waste Management Division.....(312) 353-2212

---

## ACRONYMS

ASTM	American Society for Testing and Materials
ATSDR	Agency for Toxic Substances and Disease Registry
BACT	Best Available Control Technology
BTEX	Benzene, Toluene, Ethylbenzene, and Xylene
CAA	Clean Air Act
CAAA	Clean Air Act Amendments (of 1990)
CAM	Compliance Assurance Monitoring
CEM	Continuous Emissions Monitoring
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CFR	Code of Federal Regulations
CTG	Control Techniques Guidelines
CWA	Clean Water Act
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to- Know Act
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FWQC	Federal Water Quality Criteria
HAP	Hazardous Air Pollutant
HON	Hazardous Organic NESHAP
HRS	Hazard Ranking System
HSWA	Hazardous and Solid Waste Amendments
LAER	Lowest Achievable Emission Rate
LUST	Leaking Underground Storage Tank
MACT	Maximum Available Control Technology
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
NADB	National Allowance Data Base
NBAR	Nonbinding Preliminary Allocation of Responsibility