

**567—23.1(455B) Emission standards.**

**23.1(1)** *In general.* The federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in 23.1(4). The federal emission guidelines (emission guidelines) shall be applicable as specified in 23.1(5). Compliance with emission standards specified elsewhere in this chapter shall be in accordance with 567—Chapter 21.

**23.1(2)** *New source performance standards.* The federal standards of performance for new stationary sources, as defined in 40 Code of Federal Regulations Part 60 as amended or corrected through June 28, 2023, are adopted by reference, except §60.530 through §60.539b (Part 60, Subpart AAA), and shall apply to the following affected facilities. The corresponding 40 CFR Part 60 subpart designation is provided in the table below. A different date for adoption by reference may be included with the subpart designation in the table. Reference test methods (Appendix A), performance specifications (Appendix B), determination of emission rate change (Appendix C), quality assurance procedures (Appendix F) and the general provisions (Subpart A) of 40 CFR Part 60 also apply to the affected facilities.

**Federal New Source Performance Standards (NSPS)  
Adopted by Reference in 23.1(2)**

<b>23.1(2) paragraph</b>	<b>Affected source category</b>	<b>40 CFR Part 60 Subpart</b>	<b>Date of adoption (if different than 23.1(2) introductory paragraph) or note if federal standard is not adopted</b>
a	Fossil fuel-fired steam generators	D	1/20/2011
b	Incinerators	E	N/A
c	Portland cement plants	F	N/A
d	Nitric acid plants	G	N/A
e	Sulfuric acid plants	H	N/A
f	Hot mix asphalt plants	I	N/A
g	Petroleum refineries	J - Ja	Not adopted. No facilities in Iowa. Paragraph reserved.
h	Secondary lead smelters	L	Not adopted. No facilities in Iowa. Paragraph reserved.
i	Secondary brass and bronze ingot production plants	M	N/A
j	Iron and steel plants	N	N/A
k	Sewage treatment plants	O and Subpart E of 40 CFR 503	N/A
l	Steel plants	AA	N/A
m	Primary copper smelters	P	Not adopted. No facilities in Iowa. Paragraph reserved.
n	Primary zinc smelters	Q	Not adopted. No facilities in Iowa. Paragraph reserved.
o	Primary lead smelters	R	Not adopted. No facilities in Iowa. Paragraph reserved.
p	Primary aluminum reduction plants	S	Not adopted. No facilities in Iowa. Paragraph reserved.

<b>23.1(2) paragraph</b>	<b>Affected source category</b>	<b>40 CFR Part 60 Subpart</b>	<b>Date of adoption (if different than 23.1(2) introductory paragraph) or note if federal standard is not adopted</b>
q	Wet process phosphoric acid plants in the phosphate fertilizer industry	T	N/A
r	Superphosphoric acid plants in the phosphate fertilizer industry	U	N/A
s	Diammonium phosphate plants in the phosphate fertilizer industry	V	N/A
t	Triple super phosphate plants in the phosphate fertilizer industry	W	N/A
u	Granular triple superphosphate storage facilities in the phosphate fertilizer industry	X	N/A
v	Coal preparation plants	Y	N/A
w	Ferroalloy production	Z	N/A
x	Kraft pulp mills	BB	February 27, 2014
y	Lime manufacturing plants	HH	N/A
z	Electric utility steam generating units	Da	January 20, 2011
aa	Stationary gas turbines	GG	N/A
bb	Petroleum storage vessels	K	N/A
cc	Petroleum storage vessels	Ka	N/A
dd	Glass manufacturing plants	CC	N/A
ee	Automobile and light-duty truck surface coating operations at assembly plants	MM	N/A
ff	Ammonium sulfate manufacture	PP	N/A
gg	Surface coating of metal furniture	EE	N/A
hh	Lead-acid battery manufacturing plants	KK	February 27, 2014
ii	Phosphate rock plants	NN	N/A
jj	Graphic arts industry	QQ	N/A
kk	Industrial surface coating	SS	N/A
ll	Metal coil surface coating	TT	N/A
mm	Asphalt processing and asphalt roofing manufacturing	UU	N/A
nn	Equipment leaks of volatile organic compounds (VOC) in the synthetic organic chemicals manufacturing industry	VV and VVa	N/A
oo	Beverage can surface coating	WW	N/A
pp	Bulk gasoline terminals	XX	N/A

<b>23.1(2) paragraph</b>	<b>Affected source category</b>	<b>40 CFR Part 60 Subpart</b>	<b>Date of adoption (if different than 23.1(2) introductory paragraph) or note if federal standard is not adopted</b>
qq	Pressure sensitive tape and label surface coating operations	RR	N/A
rr	Metallic mineral processing plants	LL	N/A
ss	Synthetic fiber production facilities	HHH	N/A
tt	Equipment leaks of VOC in petroleum refineries	GGG	N/A
uu	Flexible vinyl and urethane coating and printing	FFF	N/A
vv	Petroleum dry cleaners	JJJ	N/A
ww	Electric arc furnaces and argon-oxygen decarburization vessels constructed after August 17, 1983	AAa	N/A
xx	Wool fiberglass insulation manufacturing plants	PPP	N/A
yy	Iron and steel plants	Na	N/A
zz	Equipment leaks of VOC from on-shore natural gas processing plants	KKK	N/A
aaa	On-shore natural gas processing: SO <sub>2</sub> emissions	LLL	N/A
bbb	Nonmetallic mineral processing plants	OOO	N/A
ccc	Industrial-commercial-institutional steam generating units	Db	January 20, 2011
ddd	Volatile organic liquid storage vessels	Kb	N/A
eee	Rubber tire manufacturing plants	BBB	N/A
fff	Industrial surface coating: surface coating of plastic parts for business machines	TTT and TTTa	N/A
ggg	VOC emissions from petroleum refinery wastewater systems	QQQ	N/A
hhh	Magnetic tape coating facilities	SSS	N/A
iii	Polymeric coating of supporting substrates	VVV	N/A
jjj	VOC emissions from synthetic organic chemical manufacturing industry air oxidation unit processes	III	N/A
kkk	VOC emissions from synthetic organic chemical manufacturing industry distillation operations	NNN	N/A

23.1(2) paragraph	Affected source category	40 CFR Part 60 Subpart	Date of adoption (if different than 23.1(2) introductory paragraph) or note if federal standard is not adopted
lll	Small industrial-commercial-institutional steam generating units	Dc	January 20, 2011
mmm	VOC emissions from the polymer manufacturing industry	DDD	N/A
nnn	Municipal waste combustors	Ea	N/A
ooo	Grain elevators	DD	N/A
ppp	Mineral processing plants	UUU	N/A
qqq	VOC emissions from synthetic organic chemical manufacturing industry reactor processes	RRR	N/A
rrr	Municipal solid waste landfills, as defined by 40 CFR 60.751	WWW	April 10, 2000
sss	Municipal waste combustors	Eb	N/A
ttt	Hospital/medical/infectious waste incinerators (HMIWI)	Ec (partial adoption)*	N/A
uuu	New small municipal waste combustion units	AAAA	N/A
vvv	Commercial and industrial solid waste incineration	CCCC	December 1, 2000
www	Other solid waste incineration (OSWI) units	EEEE	N/A
xxx	Reserved	N/A	N/A
yyy	Stationary compression ignition internal combustion engines	IIII	N/A
zzz	Stationary spark ignition internal combustion engines	JJJJ	N/A
aaaa	Stationary combustion turbines	KKKK	N/A
bbbb	Nitric acid plants	Ga	N/A
cccc	Sewage sludge incineration units	LLLL	N/A

\*The provisions in 60.50c(a) through (h) (exceptions to Subpart Ec requirements) and 60.51(c) (Subpart Ec definitions) are adopted by reference. No other provisions of Subpart Ec are adopted.

**23.1(3) Emission standards for hazardous air pollutants.** The federal standards for emissions of hazardous air pollutants, 40 Code of Federal Regulations Part 61 as amended or corrected through October 7, 2020, and 40 CFR Part 503 as adopted on August 4, 1999, are adopted by reference, except 40 CFR §61.20 to §61.26, §61.90 to §61.97, §61.100 to §61.108, §61.120 to §61.127, §61.190 to §61.193, §61.200 to §61.205, §61.220 to §61.225, and §61.250 to §61.256, and shall apply to the following affected pollutants and facilities and activities listed below. The corresponding 40 CFR Part 61 subpart designation is provided in the table below. A different date for adoption by reference may be included with the subpart designation in the table. Reference test methods (Appendix B), compliance status information requirements (Appendix A), quality assurance procedures (Appendix C) and the general provisions (Subpart A) of Part 61 also apply to the affected activities or facilities.

**Federal Emission Standards for Hazardous Air Pollutants (NESHAP)**

**Adopted by Reference in 23.1(3)**

<b>23.1(3) paragraph</b>	<b>Affected source category</b>	<b>40 CFR Part 61 Subpart Adopted</b>	<b>Date of adoption (if different than 23.1(3) introductory paragraph) or note if standard is not adopted</b>
a	Asbestos	M	N/A
b	Beryllium	C	Not adopted. No facilities in Iowa. Paragraph reserved.
c	Beryllium rocket motor firing	D	Not adopted. No facilities in Iowa. Paragraph reserved.
d	Mercury	E	N/A
e	Vinyl chloride	F	N/A
f	Equipment leaks of benzene (fugitive emission sources)	J	N/A
g	Equipment leaks of volatile hazardous air pollutants (fugitive emission sources)	V	N/A
h	Inorganic arsenic emissions from arsenic trioxide and metallic arsenic production facilities	P	Not adopted. No facilities in Iowa. Paragraph reserved.
i	Inorganic arsenic emissions from glass manufacturing plants	N	N/A
j	Inorganic arsenic emissions from primary copper smelters	O	Not adopted. No facilities in Iowa. Paragraph reserved.
k	Benzene emissions from coke by-product recovery plants	L	N/A
l	Benzene emissions from benzene storage vessels	Y	N/A
m	Benzene emissions from benzene transfer operations	BB	N/A
n	Benzene waste operations	FF	N/A

**23.1(4) Emission standards for hazardous air pollutants for source categories.** The federal standards for emissions of hazardous air pollutants for source categories, 40 Code of Federal Regulations Part 63 as amended or corrected through March 29, 2023, are adopted by reference, except those provisions that cannot be delegated to the states. The corresponding 40 CFR Part 63 subpart designation is provided in the table below. A different date for adoption by reference may be included with the subpart designation in the table. 40 CFR Part 63, Subpart B, incorporates the requirements of Clean Air Act Sections 112(g) and 112(j) and does not adopt standards for a specific affected facility. Test methods (Appendix A), sources defined for early reduction provisions (Appendix B), and determination of the fraction biodegraded (Fbio) in the biological treatment unit (Appendix C) of Part 63 also apply to the affected activities or facilities.

For the purpose of this subrule and the rules in 567—Chapters 20 through 35, the following terms shall, unless otherwise noted, have the meaning indicated in this subrule.

“*Hazardous air pollutant*” or “*HAP*” means the same as “hazardous air pollutant” set forth in 567—24.100(455B).

“*Major source*” means any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit, considering controls, in the

aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants, unless a lesser quantity is established, or in the case of radionuclides, where different criteria are employed. "Area source" means any stationary source of hazardous air pollutants that is not a "major source."

"Maximum achievable control technology (MACT) emission limitation for existing sources," as this definition is set forth in 40 CFR Subpart B, section 63.51, is adopted by reference.

"Maximum achievable control technology (MACT) emission limitation for new sources," as this definition is set forth in 40 CFR Subpart B, section 63.51, is adopted by reference.

"Maximum achievable control technology (MACT) floor," as this definition is set forth in 40 CFR Subpart B, section 63.51, is adopted by reference.

23.1(4) "a," general provisions (Subpart A) of Part 63, shall apply to owners or operators who are subject to subsequent subparts of 40 CFR Part 63 (except when otherwise specified in a particular subpart or in a relevant standard) as adopted by reference in the table below.

**Federal Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories  
Adopted by Reference in 23.1(4)**

<b>23.1(4) paragraph</b>	<b>Affected source category</b>	<b>40 CFR Part 63 Subpart Adopted</b>	<b>Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted</b>
a	General provisions	A	N/A
b	Requirements for control technology determinations for major sources in accordance with Clean Air Act Sections 112(g) and 112(j)	B	N/A
c	Reserved	N/A	N/A
d	Compliance extensions for early reductions of hazardous air pollutants	D	N/A
e	Reserved	N/A	N/A
f	Emission standards for organic hazardous air pollutants from the synthetic chemical manufacturing industry	F	N/A
g	Emission standards for organic hazardous air pollutants from the synthetic organic chemical manufacturing industry for process vents, storage vessels, transfer operations, and wastewater	G	N/A
h	Emission standards for organic hazardous air pollutants for equipment leaks	H	N/A
i	Emission standards for organic hazardous air pollutants for certain processes subject to negotiated regulation for equipment leaks	I	N/A

23.1(4) paragraph	Affected source category	40 CFR Part 63 Subpart Adopted	Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted
j	Emission standards for hazardous air pollutants for polyvinyl chloride and copolymers production	Subparts J and HHHHHHH	Not adopted. No facilities in Iowa. Paragraph reserved.
k	Reserved	N/A	N/A
l	Emission standards for coke oven batteries	L	N/A
m	Perchloroethylene air emission standards for dry cleaning facilities	M	N/A
n	Emission standards for chromium emissions from hard and decorative chromium electroplating and chromium anodizing tanks	N	N/A
o	Emission standards for hazardous air pollutants for ethylene oxide commercial sterilization and fumigation operations	O	N/A
p	Reserved	N/A	N/A
q	Emission standards for hazardous air pollutants for industrial process cooling towers	Q	N/A
r	Emission standards for hazardous air pollutants for gasoline distribution: (Stage 1)	R	N/A
s	Emission standards for hazardous air pollutants for pulp and paper (noncombustion)	S	N/A
t	Emission standards for hazardous air pollutants: halogenated solvent cleaning	T	N/A
u	Emission standards for hazardous air pollutants: Group I polymers and resins	U	N/A
v	Reserved	N/A	N/A
w	Emission standards for hazardous air pollutants for epoxy resins production and nonnylon polyamides production	W	N/A
x	National emission standards for hazardous air pollutants from secondary lead smelting	X	Not adopted. No facilities in Iowa. Paragraph reserved.
y	Emission standards for marine tank vessel loading operations	Y	N/A

23.1(4) paragraph	Affected source category	40 CFR Part 63 Subpart Adopted	Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted
z	Reserved	N/A	N/A
aa	Emission standards for hazardous air pollutants for phosphoric acid manufacturing	AA	N/A
ab	Emission standards for hazardous air pollutants for phosphate fertilizers production	BB	N/A
ac	National emission standards for hazardous air pollutants: petroleum refineries	CC	Not adopted. No facilities in Iowa. Paragraph reserved.
ad	Emission standards for hazardous air pollutants for off-site waste and recovery operations	DD	N/A
ae	Emission standards for magnetic tape manufacturing operations	EE	N/A
af	Reserved	N/A	N/A
ag	National emission standards for hazardous air pollutants for source categories: aerospace manufacturing and rework facilities	GG	N/A
ah	Emission standards for hazardous air pollutants for oil and natural gas production	HH	N/A
ai	Emission standards for hazardous air pollutants for shipbuilding and ship repair (surface coating) operations	II	Not adopted. No facilities in Iowa. Paragraph reserved.
aj	Emission standards for hazardous air pollutants for HAP emissions from wood furniture manufacturing operations	JJ	N/A
ak	Emission standards for hazardous air pollutants for the printing and publishing industry	KK	N/A
al	Emission standards for hazardous air pollutants for primary aluminum reduction plants	LL	Not adopted. No facilities in Iowa. Paragraph reserved.
am	Emission standards for hazardous air pollutants for chemical recovery combustion sources at kraft, soda, sulfite, and stand-alone semichemical pulp mills	MM	October 11, 2017

23.1(4) paragraph	Affected source category	40 CFR Part 63 Subpart Adopted	Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted
an	Reserved	N/A	N/A
ao	Emission standards for tanks—level 1	OO	N/A
ap	Emission standards for containers	PP	N/A
aq	Emission standards for surface impoundments	QQ	N/A
ar	Emission standards for individual drain systems	RR	N/A
as	Emission standards for closed vent systems, control devices, recovery devices and routing to a fuel gas system or a process	SS	N/A
at	Emission standards for equipment leaks—control level 1	TT	N/A
au	Emission standards for equipment leaks—control level 2 standards	UU	N/A
av	Emission standards for oil-water separators and organic-water separators	VV	N/A
aw	Emission standards for storage vessels (tanks)—control level 2	WW	N/A
ax	Emission standards for ethylene manufacturing process units: heat exchange systems and waste operations	XX	N/A
ay	Emission standards for hazardous air pollutants: generic maximum achievable control technology (generic MACT)	YY	October 8, 2014
az to bb	Reserved	N/A	N/A
bc	Emission standards for hazardous air pollutants for steel pickling—HCL process facilities and hydrochloric acid regeneration plants	CCC	Not adopted. No facilities in Iowa. Paragraph reserved.
bd	Emission standards for hazardous air pollutants for mineral wool production	DDD	N/A
be	Emission standards for hazardous air pollutants from hazardous waste combustors	EEE	N/A
bf	Reserved	N/A	N/A

<b>23.1(4) paragraph</b>	<b>Affected source category</b>	<b>40 CFR Part 63 Subpart Adopted</b>	<b>Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted</b>
bg	Emission standards for hazardous air pollutants for pharmaceutical manufacturing	GGG	N/A
bh	Emission standards for hazardous air pollutants for natural gas transmission and storage	HHH	N/A
bi	Emission standards for hazardous air pollutants for flexible polyurethane foam production	III	N/A
bj	Emission standards for hazardous air pollutants: Group IV polymers and resins	JJJ	N/A
bk	Reserved	N/A	N/A
bl	Emission standards for hazardous air pollutants for Portland cement manufacturing operations	LLL	N/A
bm	Emission standards for hazardous air pollutants for pesticide active ingredient production	MMM	N/A
bn	Emission standards for hazardous air pollutants for wool fiberglass manufacturing	NNN	N/A
bo	Emission standards for hazardous air pollutants for amino/phenolic resins production	OOO	N/A
bp	Emission standards for hazardous air pollutants for polyether polyols production	PPP	N/A
bq	Emission standards for hazardous air pollutants for primary copper smelting	QQQ	Not adopted. No facilities in Iowa. Paragraph reserved.
br	Emission standards for hazardous air pollutants for secondary aluminum production	RRR	N/A
bs	Reserved	N/A	N/A
bt	Emission standards for hazardous air pollutants for primary lead smelting	TTT	Not adopted. No facilities in Iowa. Paragraph reserved.
bu	Emission standards for hazardous air pollutants for petroleum refineries: catalytic cracking units,	UUU	Not adopted. No facilities in Iowa. Paragraph reserved.

23.1(4) paragraph	Affected source category	40 CFR Part 63 Subpart Adopted	Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted
	catalytic reforming units, and sulfur recovery units		
bv	Emission standards for hazardous air pollutants: publicly owned treatment works (POTW)	VVV	N/A
bw	Reserved	N/A	N/A
bx	Emission standards for hazardous air pollutants for ferroalloys production: ferromanganese and silicomanganese	XXX	Not adopted. No facilities in Iowa. Paragraph reserved.
by and bz	Reserved	N/A	N/A
ca	Emission standards for hazardous air pollutants: municipal solid waste landfills	AAAA	April 20, 2006
cb	Reserved	N/A	N/A
cc	Emission standards for hazardous air pollutants for the manufacturing of nutritional yeast	CCCC	N/A
cd	Emission standards for hazardous air pollutants for plywood and composite wood products (formerly plywood and particle board manufacturing)	DDDD	October 29, 2007
ce	Emission standards for hazardous air pollutants for organic liquids distribution (non-gasoline)	EEEE	July 17, 2008
cf	Emission standards for hazardous air pollutants for miscellaneous organic chemical (MON) manufacturing	FFFF	July 14, 2006
cg	Emission standards for hazardous air pollutants for solvent extraction for vegetable oil production	GGGG	N/A
ch	Emission standards for hazardous air pollutants for wet-formed fiberglass mat production	HHHH	N/A
ci	Emission standards for hazardous air pollutants for surface coating of automobiles and light-duty trucks	IIII	N/A
cj	Emission standards for hazardous air pollutants: paper and other web coating	JJJJ	N/A

23.1(4) paragraph	Affected source category	40 CFR Part 63 Subpart Adopted	Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted
ck	Emission standards for hazardous air pollutants for surface coating of metal cans	KKKK	N/A
cl	Reserved	N/A	N/A
cm	Emission standards for hazardous air pollutants for surface coating of miscellaneous metal parts and products	MMMM	N/A
cn	Emission standards for hazardous air pollutants: surface coating of large appliances	NNNN	N/A
co	Emission standards for hazardous air pollutants for printing, coating, and dyeing of fabrics and other textiles	OOOO	N/A
cp	Emission standards for surface coating of plastic parts and products	PPPP	N/A
cq	Emission standards for hazardous air pollutants for surface coating of wood building products	QQQQ	N/A
cr	Emission standards for hazardous air pollutants: surface coating of metal furniture	RRRR	N/A
cs	Emission standards for hazardous air pollutants: surface coating of metal coil	SSSS	N/A
ct	Emission standards for hazardous air pollutants for leather finishing operations	TTTT	N/A
cu	Emission standards for hazardous air pollutants for cellulose products manufacturing	UUUU	N/A
cv	Emission standards for hazardous air pollutants for boat manufacturing	VVVV	N/A
cw	Emission standards for hazardous air pollutants: reinforced plastic composites production	WWWW	N/A
cx	Emission standards for hazardous air pollutants: rubber tire manufacturing	XXXX	N/A

<b>23.1(4) paragraph</b>	<b>Affected source category</b>	<b>40 CFR Part 63 Subpart Adopted</b>	<b>Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted</b>
cy	Emission standards for hazardous air pollutants for stationary combustion turbines	YYYY	November 19, 2020
cz	Emission standards for stationary reciprocating internal combustion engines	ZZZZ	N/A
da	Emission standards for hazardous air pollutants for lime manufacturing plants	AAAAA	April 20, 2006
db	Emission standards for hazardous air pollutants: semiconductor manufacturing	BBBBB	N/A
dc	Emission standards for hazardous air pollutants for coke ovens: pushing, quenching, and battery stacks	CCCCC	N/A
dd	Emission standards for industrial, commercial and institutional boilers and process heaters	DDDDD	Not adopted. Paragraph reserved.
de	Emission standards for hazardous air pollutants for iron and steel foundries	EEEEE	N/A
df	Emission standards for hazardous air pollutants for integrated iron and steel manufacturing	FFFFF	July 13, 2006
dg	Emission standards for hazardous air pollutants: site remediation	GGGGG	November 29, 2006
dh	Emission standards for hazardous air pollutants for miscellaneous coating manufacturing	HHHHH	N/A
di	Emission standards for mercury emissions from mercury cell chlor-alkali plants	IIIII	N/A
dj	Emission standards for hazardous air pollutants for brick and structural clay products manufacturing	JJJJJ	Not adopted. No facilities in Iowa. Paragraph reserved.
dk	Emission standards for hazardous air pollutants for clay ceramics manufacturing	KKKKK	Not adopted. No facilities in Iowa. Paragraph reserved.
dl	Emission standards for hazardous air pollutants: asphalt processing and asphalt roofing manufacturing	LLLLL	N/A

23.1(4) paragraph	Affected source category	40 CFR Part 63 Subpart Adopted	Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted
dm	Emission standards for hazardous air pollutants: flexible polyurethane foam fabrication operations	MMMMM	N/A
dn	Emission standards for hazardous air pollutants: hydrochloric acid production	NNNNN	N/A
do	Reserved	N/A	N/A
dp	Emission standards for hazardous air pollutants: engine test cells/stands	PPPPP	N/A
dq	Emission standards for hazardous air pollutants for friction materials manufacturing facilities	QQQQQ	N/A
dr	Emission standards for hazardous air pollutants: taconite iron ore processing	RRRRR	Not adopted. No facilities in Iowa. Paragraph reserved.
ds	Emission standards for hazardous air pollutants for refractory products manufacturing	SSSSS	N/A
dt	Emission standards for hazardous air pollutants: primary magnesium refining	TTTTT	Not adopted. No facilities in Iowa. Paragraph reserved.
du and dv	Reserved	N/A	N/A
dw	Emission standards for hazardous air pollutants for hospital ethylene oxide sterilizer area sources	WWWWW	N/A
dx	Reserved	N/A	N/A
dy	Emission standards for hazardous air pollutants for electric arc furnace steelmaking area sources	YYYYY	N/A
dz	Emission standards for hazardous air pollutants for iron and steel foundry area sources	ZZZZZ	N/A
ea	Reserved	N/A	N/A
eb	Emission standards for hazardous air pollutants for gasoline distribution area sources: bulk terminals, bulk plants and pipeline facilities	BBBBBB	N/A
ec	Emission standards for hazardous air pollutants for area sources: gasoline dispensing facilities	CCCCCC	N/A

23.1(4) paragraph	Affected source category	40 CFR Part 63 Subpart Adopted	Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted
ed to eg	Reserved	N/A	N/A
eh	Emission standards for hazardous air pollutants for area sources: paint stripping and miscellaneous surface coating operations	HHHHHH	N/A
ei	Reserved	N/A	N/A
ej	Emission standards for hazardous air pollutants for area sources: industrial, commercial, and institutional boilers	JJJJJJ	N/A
ek	Reserved	N/A	N/A
el	Emission standards for hazardous air pollutants for acrylic and modacrylic fibers production area sources	LLLLLL	N/A
em	Emission standards for hazardous air pollutants for carbon black production area sources	MMMMMM	N/A
en	Emission standards for hazardous air pollutants for chemical manufacturing of chromium compounds area sources	NNNNNN	N/A
eo	Emission standards for hazardous air pollutants for flexible polyurethane foam production and fabrication area sources	OOOOOO	N/A
ep	Emission standards for hazardous air pollutants for lead acid battery manufacturing area sources	PPPPPP	November 19, 2020
eq	Emission standards for hazardous air pollutants for wood preserving area sources	QQQQQQ	N/A
er	Emission standards for hazardous air pollutants for clay ceramics manufacturing area sources	RRRRRR	N/A
es	Emission standards for hazardous air pollutants for glass manufacturing area sources	SSSSSS	N/A
et	Emissions standards for hazardous air pollutants for secondary nonferrous metals processing area sources	TTTTTT	N/A

23.1(4) paragraph	Affected source category	40 CFR Part 63 Subpart Adopted	Date of adoption (if different than 23.1(4) introductory paragraph) or note if standard is not adopted
eu	Reserved	N/A	N/A
ev	Emission standards for hazardous air pollutants for area sources	VVVVVV	N/A
ew	Emission standards for hazardous air pollutants for area sources: plating and polishing	WWWWWW	N/A
ex	Emission standards for hazardous air pollutants for area sources: metal fabrication and finishing	XXXXXX	N/A
ey	Reserved	N/A	N/A
ez	Emission standards for hazardous air pollutants for area sources: aluminum, copper, and other nonferrous foundries	ZZZZZZ	N/A
fa	Reserved	N/A	N/A
fb	National emission standards for hazardous air pollutants for area sources: chemical preparations industry	BBBBBB	N/A
fc	Emission standards for hazardous air pollutants for area sources: paint and allied products manufacturing	CCCCCC	N/A
fd	Emission standards for hazardous air pollutants for area sources: prepared feeds manufacturing	DDDDDD	N/A

**23.1(5) Emission guidelines.** The emission guidelines and compliance times for existing sources, as defined in 40 Code of Federal Regulations Part 60 as amended through March 21, 2011, shall apply to the following affected facilities. The corresponding 40 CFR Part 60 subpart designation is in parentheses. A different CFR reference and date for adoption by reference may be included with the subpart designation indicated in the paragraphs of this subrule. The control of the designated pollutants will be in accordance with federal standards established in Sections 111 and 129 of the Act and 40 CFR Part 60, Subpart B (Adoption and Submittal of State Plans for Designated Facilities), and the applicable subpart(s) for the existing source. Reference test methods (Appendix A), performance specifications (Appendix B), determination of emission rate change (Appendix C), quality assurance procedures (Appendix F) and the general provisions (Subpart A) of 40 CFR Part 60, as adopted by reference in 23.1(2), also apply to the affected facilities.

*a. Emission guidelines for municipal solid waste landfills (Subpart Cc).* Emission guidelines and compliance times for the control of certain designated pollutants from designated municipal solid waste landfills shall be in accordance with federal standards established in Subparts Cc (Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills) and WWW (Standards of Performance for Municipal Solid Waste Landfills) of 40 CFR Part 60 as amended through April 10, 2000.

(1) Definitions. For the purpose of 23.1(5) "a," the definitions have the same meaning given to them in the Act and 40 CFR Part 60, Subparts A (General Provisions), B, and WWW, if not defined in this subparagraph.

“*Municipal solid waste landfill*” or “*MSW landfill*” means an entire disposal facility in a contiguous geographical space where household waste is placed in or on land. An MSW landfill may also receive other types of RCRA Subtitle D wastes such as commercial solid waste, nonhazardous sludge, and industrial solid waste. Portions of an MSW landfill may be separated by access roads. An MSW landfill may be publicly or privately owned. An MSW landfill may be a new MSW landfill, an existing MSW landfill or a lateral expansion.

(2) Designated facilities.

1. The designated facility to which the emission guidelines apply is each existing MSW landfill for which construction, reconstruction or modification was commenced before May 30, 1991.

2. Physical or operational changes made to an existing MSW landfill solely to comply with an emission guideline are not considered a modification or reconstruction and would not subject an existing MSW landfill to the requirements of 40 CFR Part 60, Subpart WWW (40 CFR 60.750).

3. For MSW landfills subject to 567—24.101(455B) only because of applicability to 23.1(5)“a”(2), the following apply for obtaining and maintaining a Title V operating permit under 567—24.104(455B):

- The owner or operator of an MSW landfill with a design capacity less than 2.5 million megagrams or 2.5 million cubic meters is not required to obtain an operating permit for the landfill.

- The owner or operator of an MSW landfill with a design capacity greater than or equal to 2.5 million megagrams and 2.5 million cubic meters on or before June 22, 1998, becomes subject to the requirements of 567—subrule 24.105(1) on September 20, 1998. This requires the landfill to submit a Title V permit application to the air quality bureau, department of natural resources, no later than September 20, 1999.

- The owner or operator of a closed MSW landfill does not have to maintain an operating permit for the landfill if either of the following conditions are met: the landfill was never subject to the requirement for a control system under 23.1(5)“a”(3), or the owner or operator meets the conditions for control system removal specified in 40 CFR §60.752(b)(2)(v).

(3) Emission guidelines for municipal solid waste landfill emissions.

1. MSW landfill emissions at each MSW landfill meeting the conditions below shall be controlled. A design capacity report must be submitted to the director by November 18, 1997.

The landfill has accepted waste at any time since November 8, 1987, or has additional design capacity available for future waste deposition.

The landfill has a design capacity greater than or equal to 2.5 million megagrams and 2.5 million cubic meters. The landfill may calculate design capacity in either megagrams or cubic meters for comparison with the exemption values. Any density conversions shall be documented and submitted with the report. All calculations used to determine the maximum design capacity must be included in the design capacity report.

The landfill has a nonmethane organic compound (NMOC) emission rate of 50 megagrams per year or more. If the MSW landfill’s design capacity exceeds the established thresholds in 23.1(5)“a”(3)“1,” the NMOC emission rate calculations must be provided with the design capacity report.

2. The planning and installation of a collection and control system shall meet the conditions provided in 40 CFR 60.752(b)(2) at each MSW landfill meeting the conditions in 23.1(5)“a”(3)“1.”

3. MSW landfill emissions collected through the use of control devices must meet the following requirements, except as provided in 40 CFR 60.24 after approval by the director and U.S. Environmental Protection Agency:

An open flare designed and operated in accordance with the parameters established in 40 CFR 60.18; a control system designed and operated to reduce NMOC by 98 weight percent; or an enclosed combustor designed and operated to reduce the outlet NMOC concentration to 20 parts per million as hexane by volume, dry basis at 3 percent oxygen, or less.

(4) Test methods and procedures. The following must be used:

1. The calculation of the landfill NMOC emission rate listed in 40 CFR 60.754, as applicable, to determine whether the landfill meets the condition in 23.1(5)“a”(3)“3”;

2. The operational standards in 40 CFR 60.753;

3. The compliance provisions in 40 CFR 60.755; and
  4. The monitoring provisions in 40 CFR 60.756.
- (5) Reporting and recordkeeping requirements. The recordkeeping and reporting provisions listed in 40 CFR 60.757 and 60.758, as applicable, except as provided under 40 CFR 60.24 after approval by the director and U.S. Environmental Protection Agency, shall be used.
- (6) Compliance times.
1. Except as provided for under 23.1(5)“a”(6)“2,” planning, awarding of contracts, and installation of MSW landfill air emission collection and control equipment capable of meeting the emission guidelines established under 23.1(5)“a”(3) shall be accomplished within 30 months after the date the initial NMOC emission rate report shows NMOC emissions greater than or equal to 50 megagrams per year.
  2. For each existing MSW landfill meeting the conditions in 23.1(5)“a”(3)“1” whose NMOC emission rate is less than 50 megagrams per year on August 20, 1997, installation of collection and control systems capable of meeting emission guidelines in 23.1(5)“a”(3) shall be accomplished within 30 months of the date when the condition in 23.1(5)“a”(3)“1” is met (i.e., the date of the first annual nonmethane organic compounds emission rate which equals or exceeds 50 megagrams per year).
    - b. *Emission guidelines for hospital/medical/infectious waste incinerators (40 CFR Part 62, Subpart HHH).* The provisions in 62.14400(b) (exceptions to Subpart HHH requirements) and 62.14490 (Subpart HHH definitions) as amended through May 13, 2013, are adopted by reference. No other provisions of Subpart HHH are adopted.
    - c. *Emission guidelines and compliance schedules for existing commercial and industrial solid waste incineration units that commenced construction on or before November 30, 1999.* Emission guidelines and compliance schedules for the control of designated pollutants from affected commercial and industrial solid waste incinerators that commenced construction on or before November 30, 1999, shall be in accordance with requirements established in Subpart III of 40 CFR Part 62 and 40 CFR §62.3916 as adopted through August 24, 2004.
    - d. Reserved.
    - e. *Emission guidelines and compliance times for existing sewage sludge incineration units (40 CFR Part 62, Subpart LLL).* Emission guidelines and compliance times for control of designated pollutants from affected sewage sludge incineration (SSI) units that commenced construction or reconstruction on or before October 14, 2010, shall be in accordance with federal standards established in Subpart LLL of 40 CFR Part 62 as amended through April 29, 2016.
- 23.1(6)** *Calculation of emission limitations based upon stack height.* This rule sets limits for the maximum stack height credit to be used in ambient air quality modeling for the purpose of setting an emission limitation and calculating the air quality impact of a source. The rule does not limit the actual physical stack height for any source.
- For the purpose of this subrule, definitions of “stack,” “a stack in existence,” “dispersion technique,” “good engineering practice (GEP) stack height,” “nearby” and “excessive concentration” as set forth in 40 CFR §51.100(ff) through (kk) as amended through June 14, 1996, are adopted by reference.
- [ARC 7952C, IAB 5/15/24, effective 6/19/24; Editorial change: IAC Supplement 7/10/24]