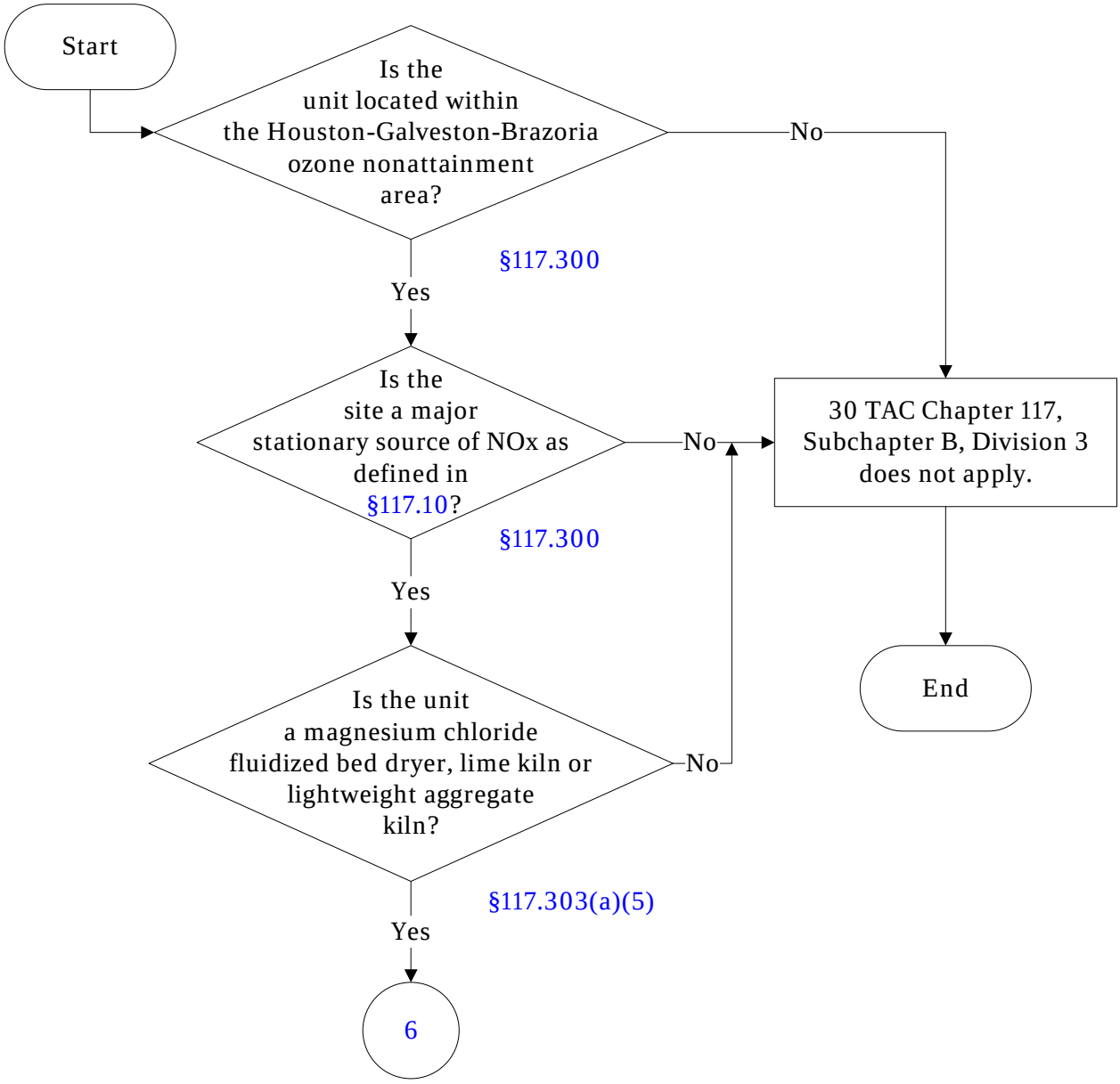
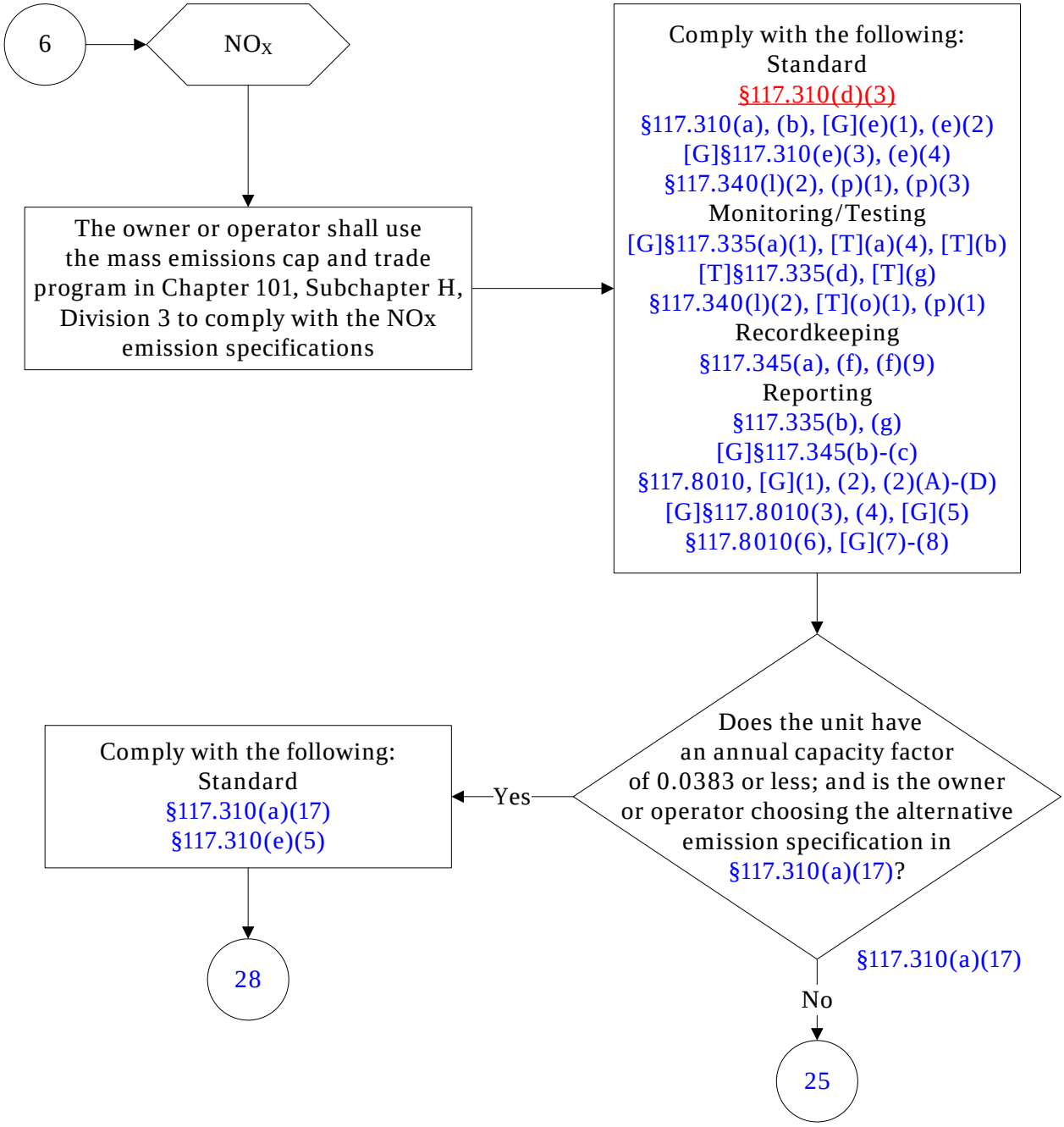
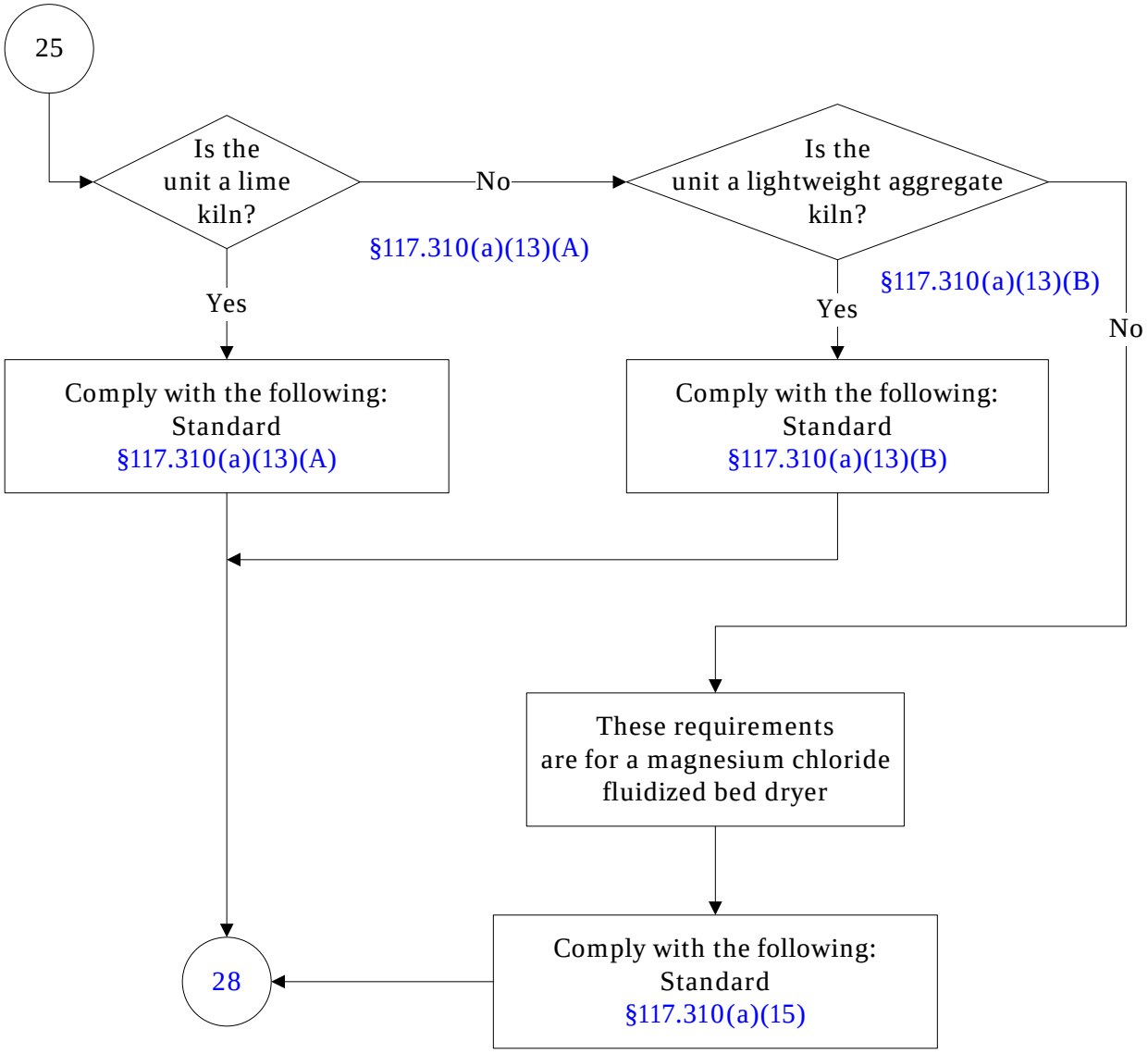
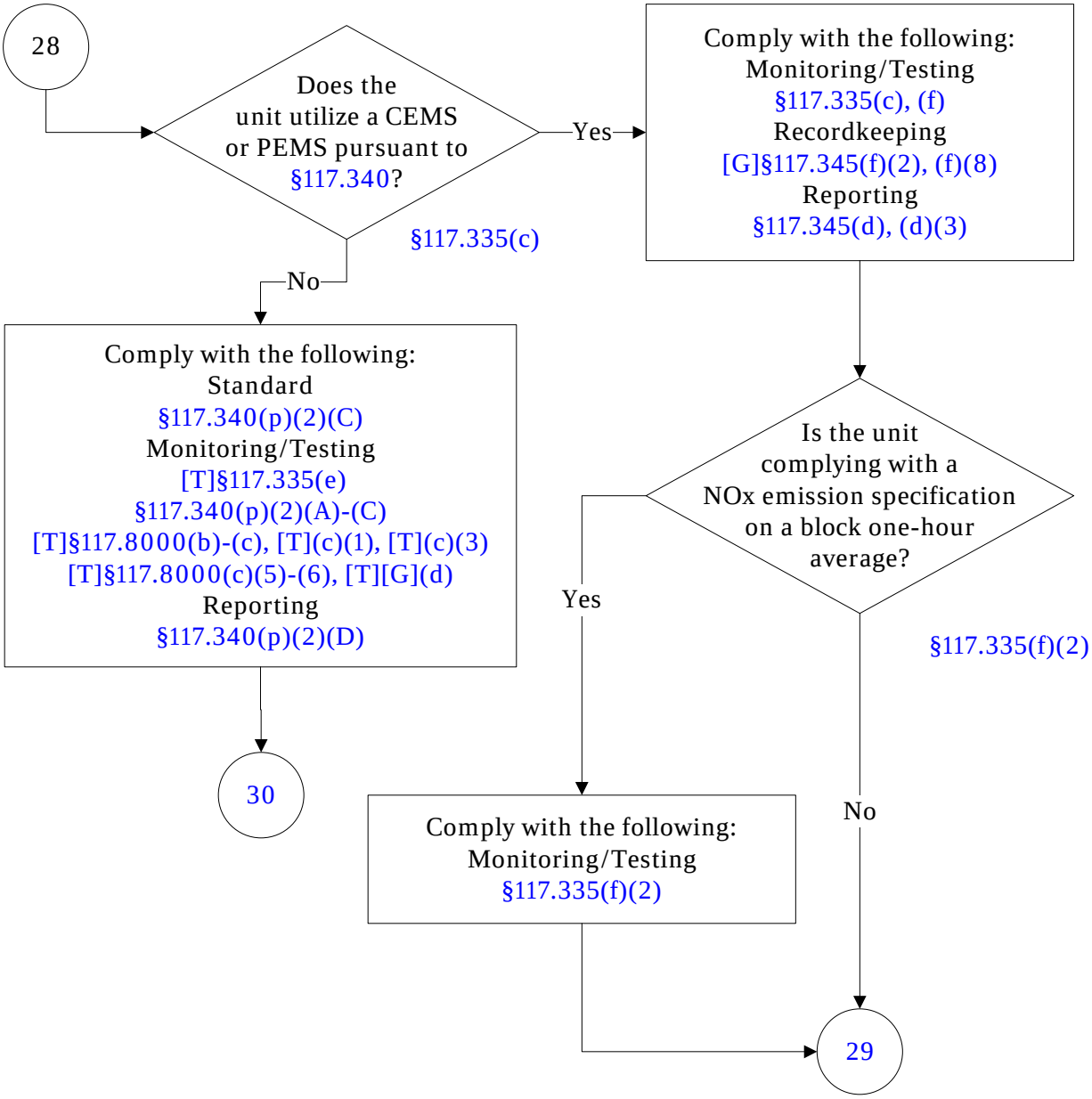
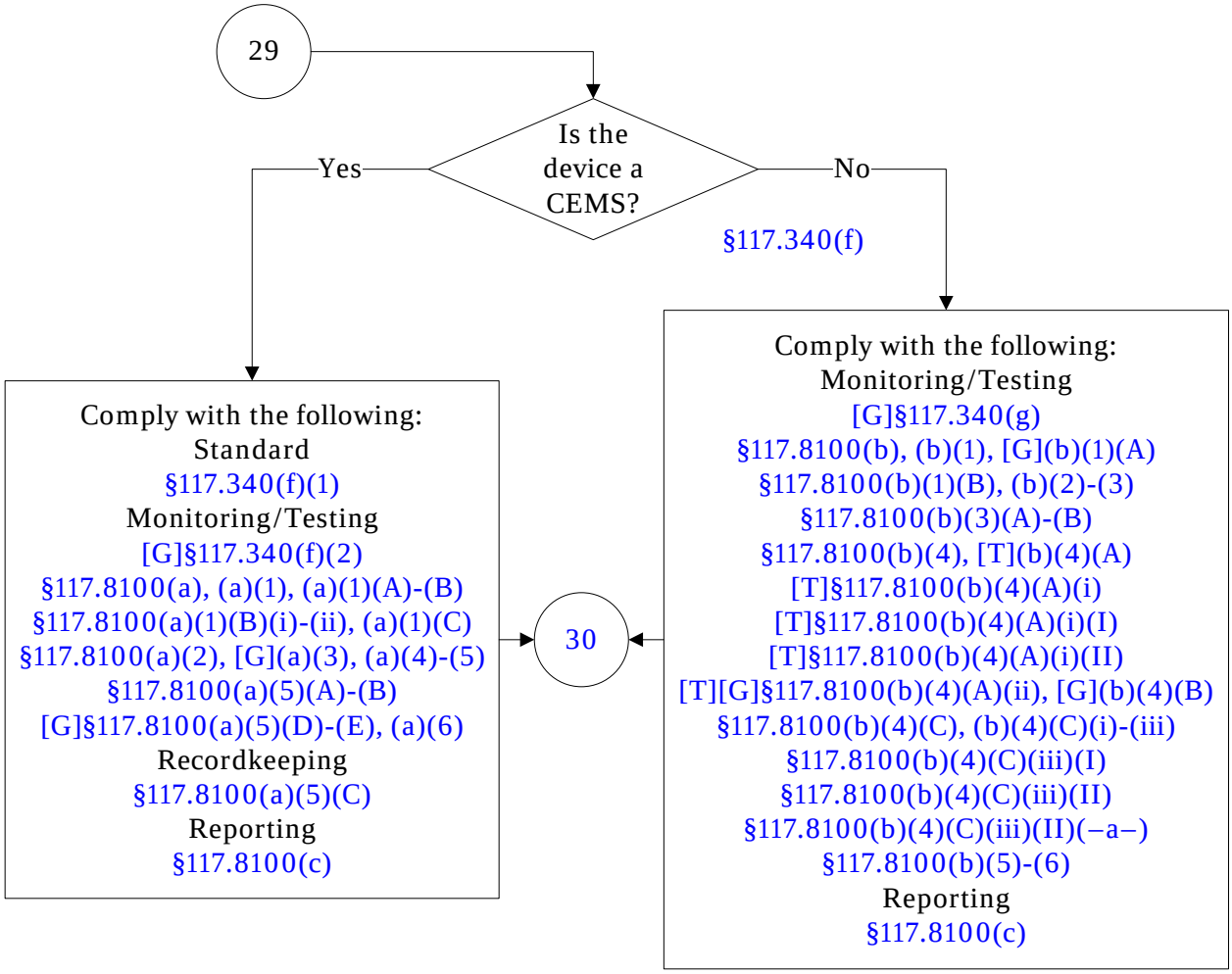
Below is a flowchart describing 30 TAC Ch. 117, Subch. B, Div. 3: Dryers/Kilns/Ovens. It will likely not be accessible using a screen reader. For the text of the statute/rule, please go to 30 TAC Chapter 117, Subchapter B, Division 3: Dryers/Kilns/Ovens

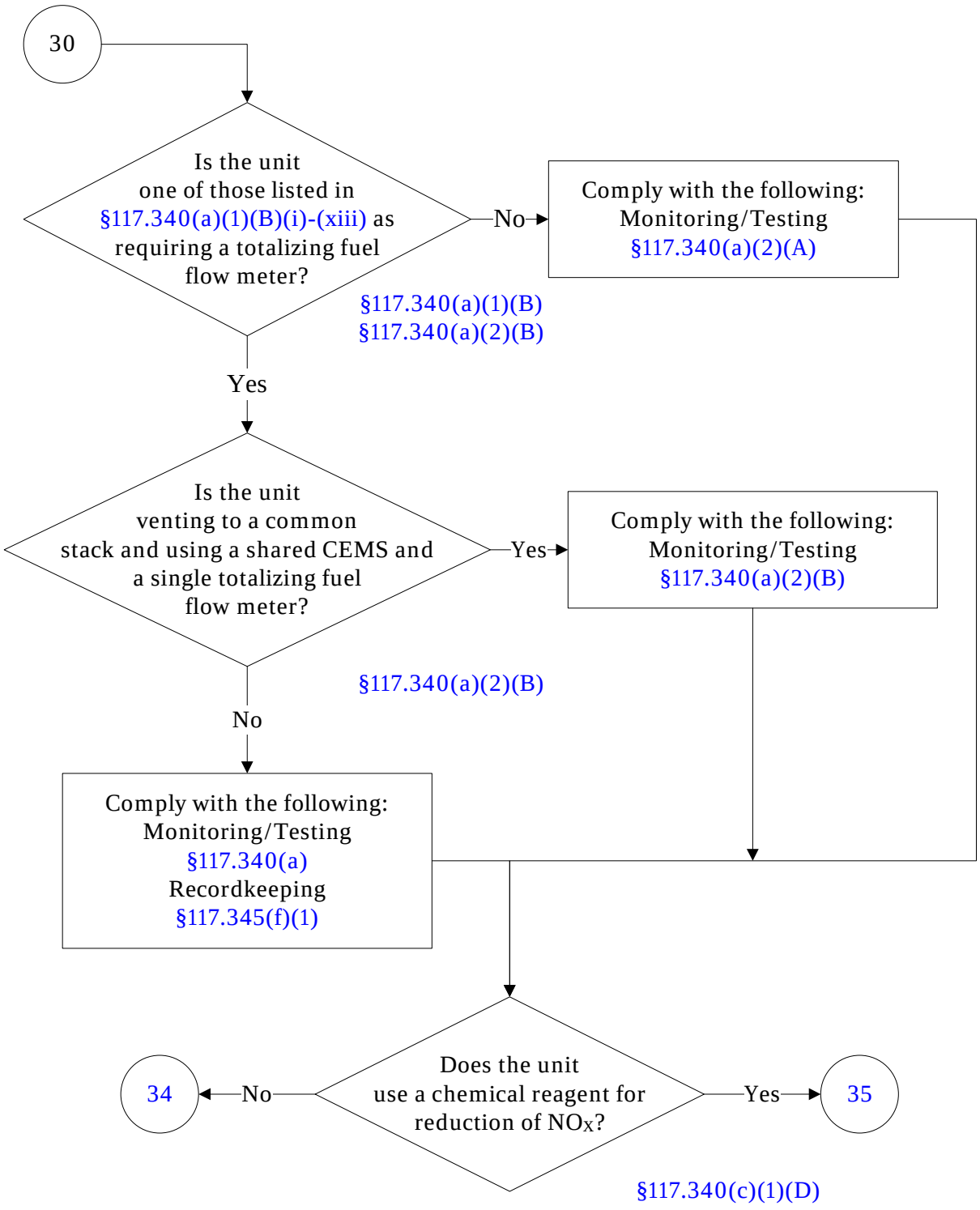


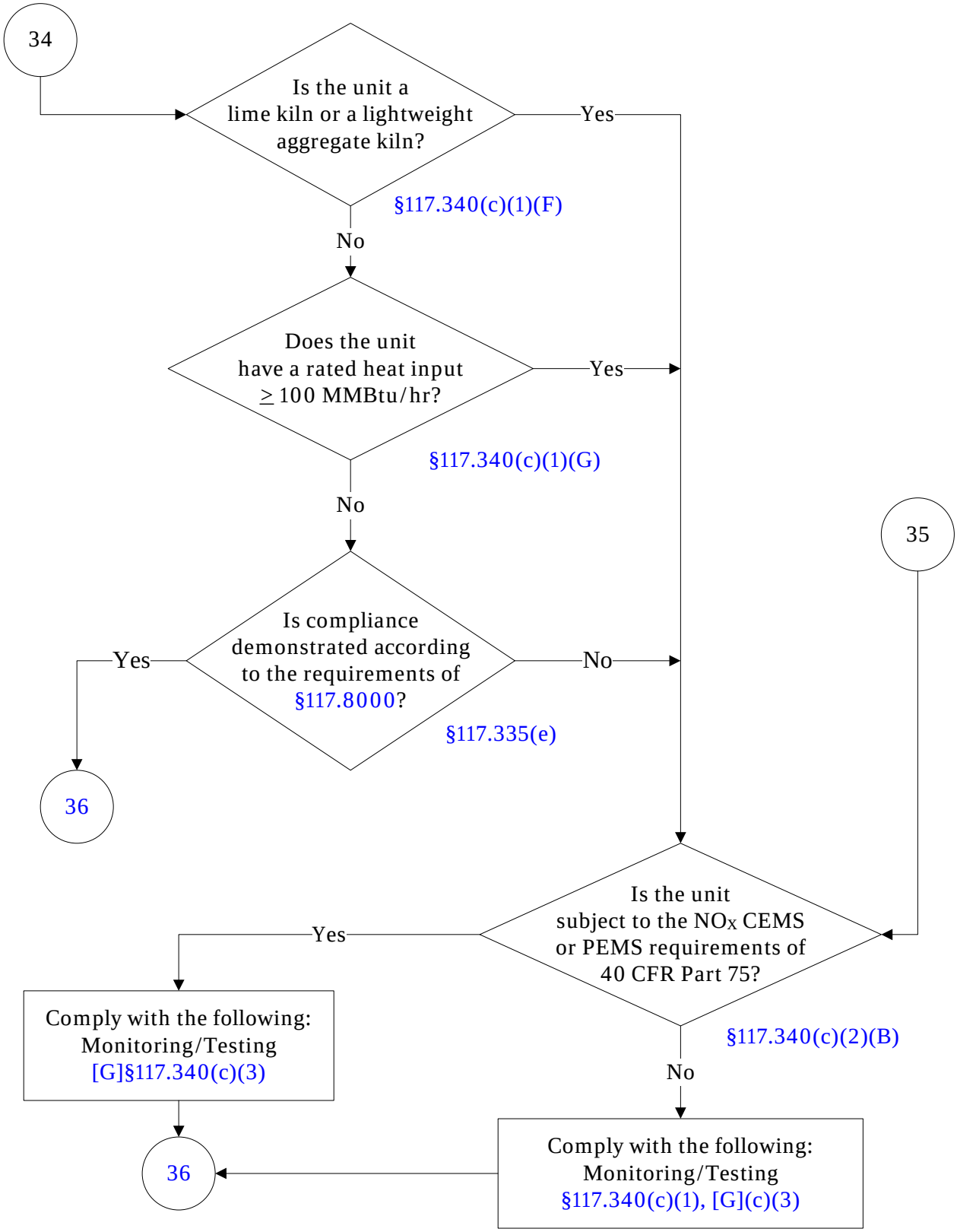

6
NOx
The owner or operator shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3 to comply with the NOx emission specifications
Comply with the following:
Standard
§117.310(d)(3)
§117.310(a), (b), [G](e)(1), (e)(2)
[G]§117.310(e)(3), (e)(4)
§117.340(l)(2), (p)(1), (p)(3)
Monitoring/Testing
[G]§117.335(a)(1), [T](a)(4), [T](b)
[T]§117.335(d), [T](g)
§117.340(l)(2), [T](o)(1), (p)(1)
Recordkeeping
§117.345(a), (f), (f)(9)
Reporting
§117.335(b), (g)
[G]§117.345(b)-(c)
§117.8010, [G](1), (2), (2)(A)-(D)
[G]§117.8010(3), (4), [G](5)
§117.8010(6), [G](7)-(8)
Does the unit have an annual capacity factor of 0.0383 or less; and is the owner or operator choosing the alternative emission specification in §117.310(a)(17)?
Yes
Comply with the following:
Standard
§117.310(a)(17)
§117.310(e)(5)
28
§117.310(a)(17)
No
25

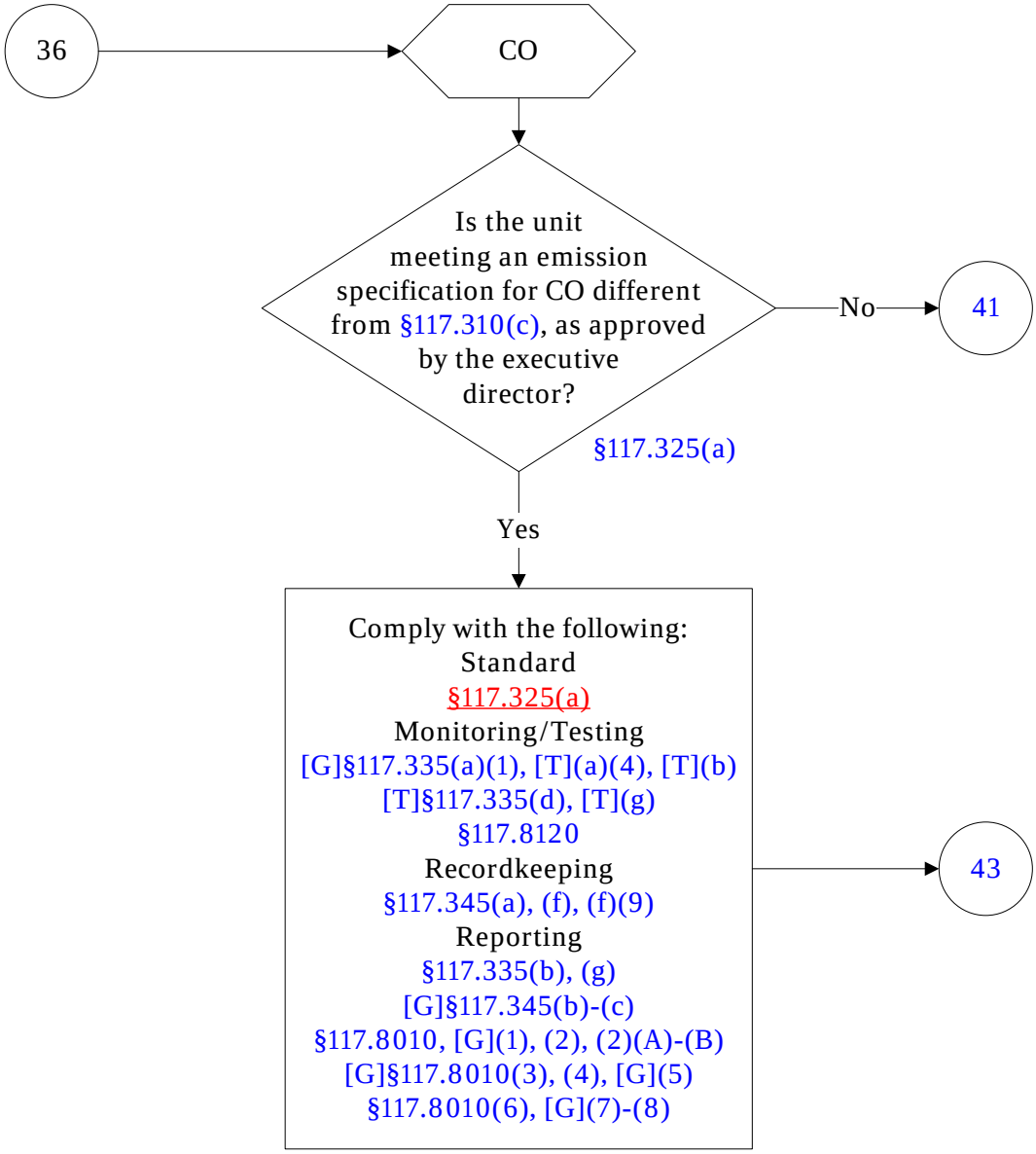

25
Is the unit a lime kiln?
No
§117.310(a)(13)(A)
Yes
Is the unit a lightweight aggregate kiln?
§117.310(a)(13)(B)
Yes
No
Comply with the following: Standard §117.310(a)(13)(A)
Comply with the following: Standard §117.310(a)(13)(B)
These requirements are for a magnesium chloride fluidized bed dryer
Comply with the following: Standard §117.310(a)(15)
28

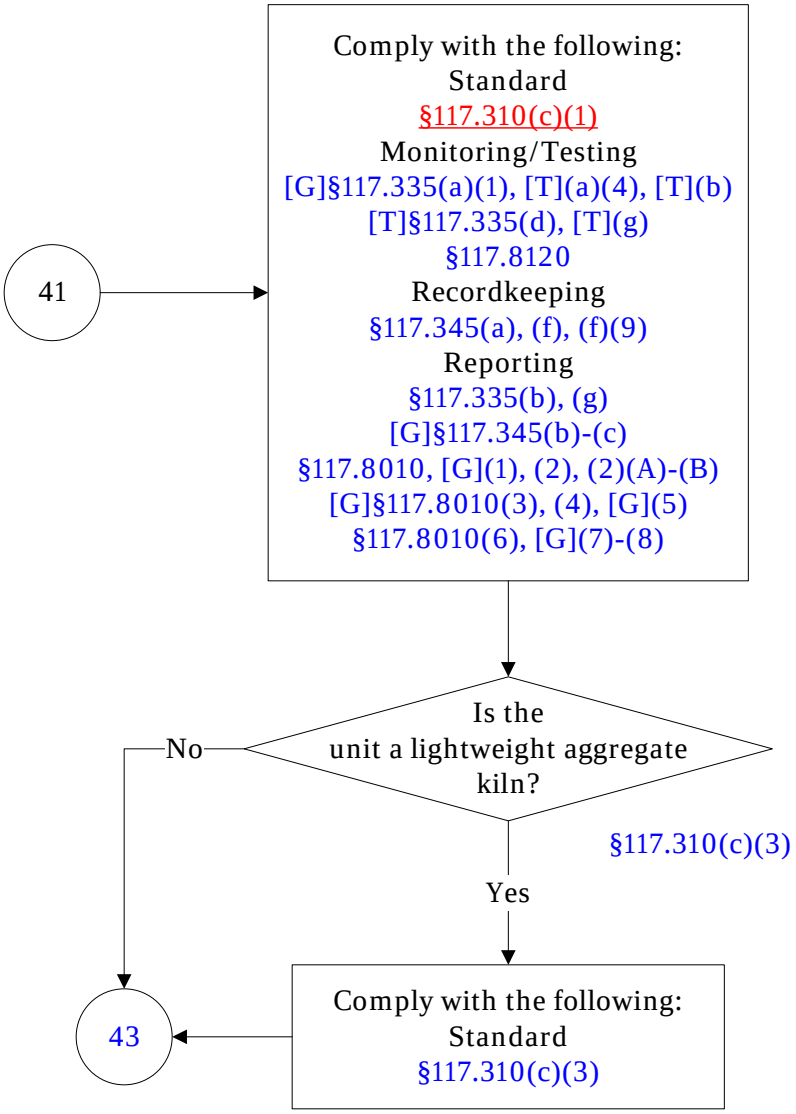

28
Does the unit utilize a CEMS or PEMS pursuant to §117.340?
§117.335(c)
Yes
No
Comply with the following:
Monitoring/Testing
§117.335(c), (f)
Recordkeeping
[G]§117.345(f)(2), (f)(8)
Reporting
§117.345(d), (d)(3)
Comply with the following:
Standard
§117.340(p)(2)(C)
Monitoring/Testing
[T]§117.335(e)
§117.340(p)(2)(A)-(C)
[T]§117.8000(b)-(c), [T](c)(1), [T](c)(3)
[T]§117.8000(c)(5)-(6), [T][G](d)
Reporting
§117.340(p)(2)(D)
30
Is the unit complying with a NOx emission specification on a block one-hour average?
§117.335(f)(2)
Yes
No
Comply with the following:
Monitoring/Testing
§117.335(f)(2)
29

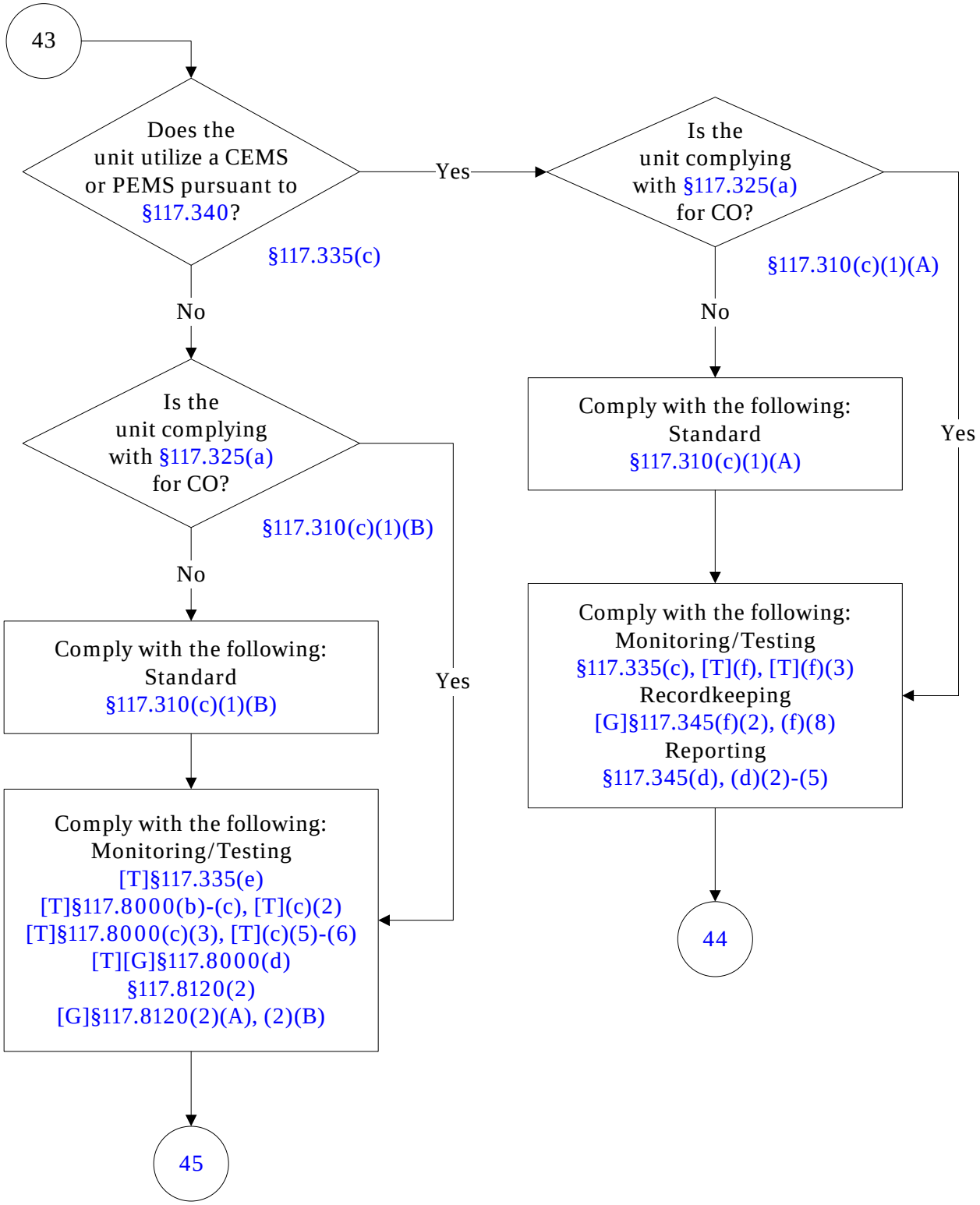

29
Is the device a CEMS?
Yes
No
§117.340(f)
Comply with the following:
Standard
§117.340(f)(1)
Monitoring/Testing
[G]§117.340(f)(2)
§117.8100(a), (a)(1), (a)(1)(A)-(B)
§117.8100(a)(1)(B)(i)-(ii), (a)(1)(C)
§117.8100(a)(2), [G](a)(3), (a)(4)-(5)
§117.8100(a)(5)(A)-(B)
[G]§117.8100(a)(5)(D)-(E), (a)(6)
Recordkeeping
§117.8100(a)(5)(C)
Reporting
§117.8100(c)
30
Comply with the following:
Monitoring/Testing
[G]§117.340(g)
§117.8100(b), (b)(1), [G](b)(1)(A)
§117.8100(b)(1)(B), (b)(2)-(3)
§117.8100(b)(3)(A)-(B)
§117.8100(b)(4), [T](b)(4)(A)
[T]§117.8100(b)(4)(A)(i)
[T]§117.8100(b)(4)(A)(i)(I)
[T]§117.8100(b)(4)(A)(i)(II)
[T][G]§117.8100(b)(4)(A)(ii), [G](b)(4)(B)
§117.8100(b)(4)(C), (b)(4)(C)(i)-(iii)
§117.8100(b)(4)(C)(iii)(I)
§117.8100(b)(4)(C)(iii)(II)
§117.8100(b)(4)(C)(iii)(II)(–a–)
§117.8100(b)(5)-(6)
Reporting
§117.8100(c)

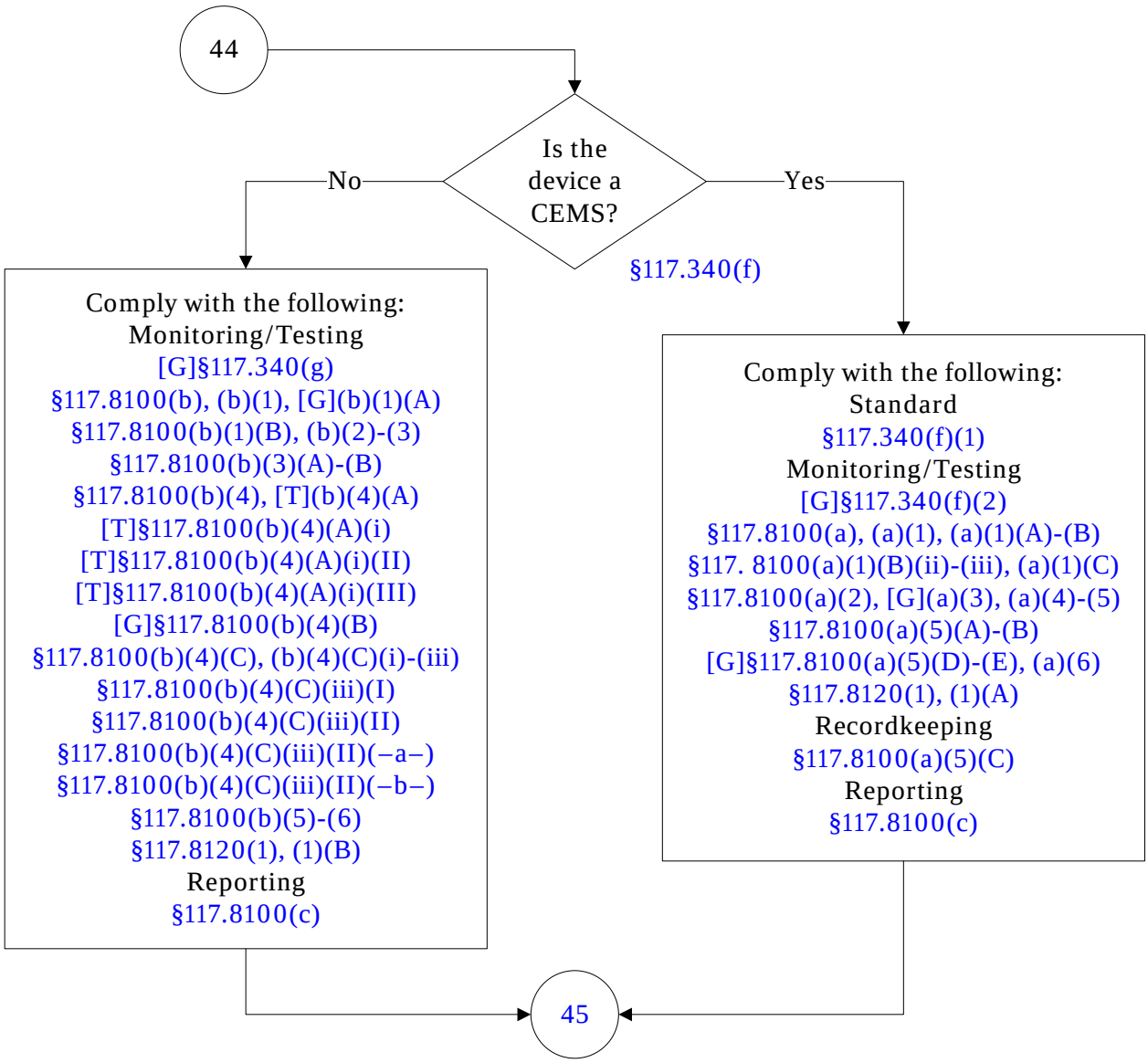

30
Is the unit one of those listed in §117.340(a)(1)(B)(i)-(xiii) as requiring a totalizing fuel flow meter?
No
Comply with the following: Monitoring/Testing §117.340(a)(2)(A)
§117.340(a)(1)(B)
§117.340(a)(2)(B)
Yes
Is the unit venting to a common stack and using a shared CEMS and a single totalizing fuel flow meter?
Yes
Comply with the following: Monitoring/Testing §117.340(a)(2)(B)
§117.340(a)(2)(B)
No
Comply with the following: Monitoring/Testing §117.340(a) Recordkeeping §117.345(f)(1)
Does the unit use a chemical reagent for reduction of NOx?
No
34
Yes
35
§117.340(c)(1)(D)

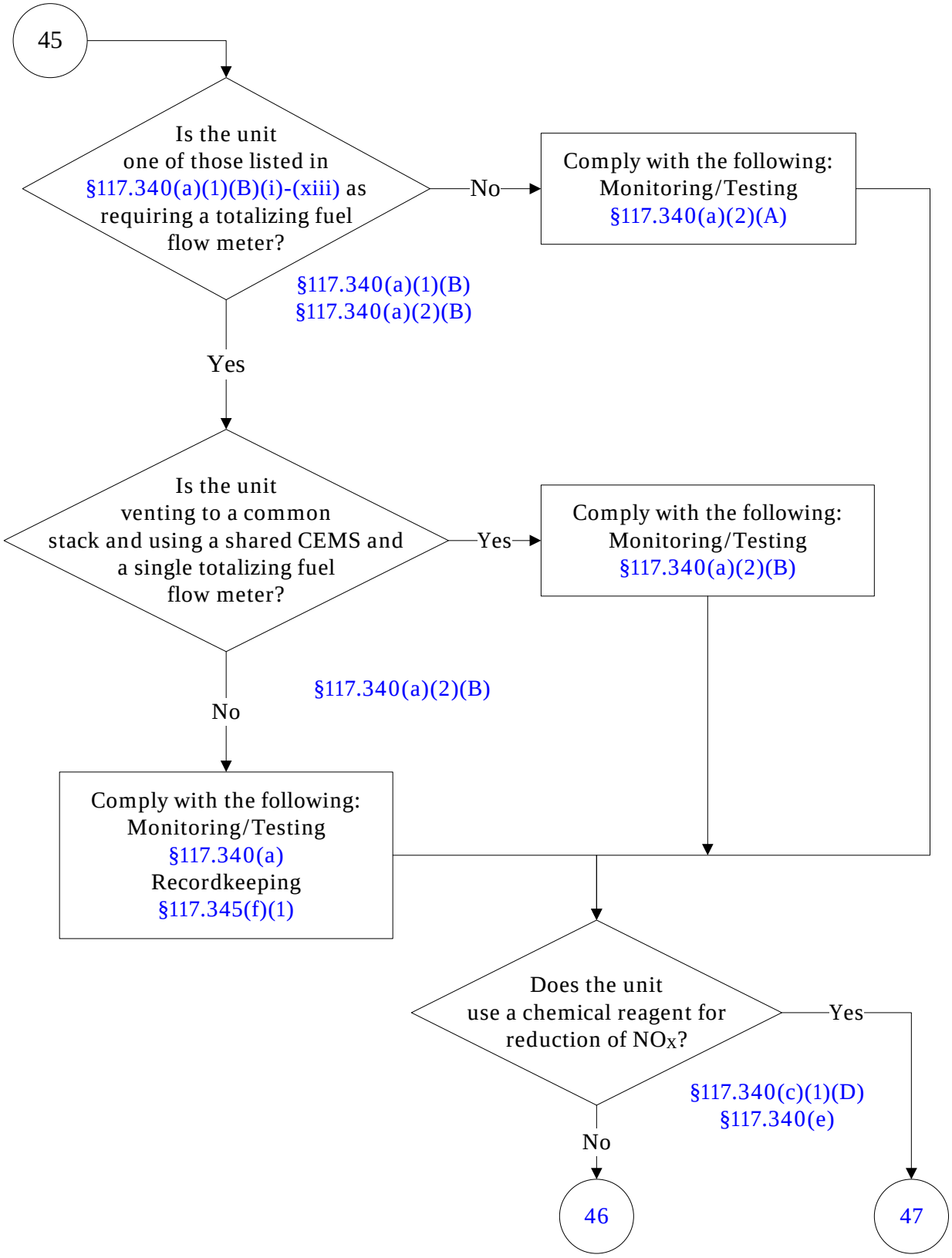

34
Is the unit a lime kiln or a lightweight aggregate kiln?
Yes
§117.340(c)(1)(F)
No
Does the unit have a rated heat input ≥ 100 MMBtu/hr?
Yes
§117.340(c)(1)(G)
No
35
Is compliance demonstrated according to the requirements of §117.8000?
Yes
No
§117.335(e)
36
Is the unit subject to the NOx CEMS or PEMS requirements of 40 CFR Part 75?
Yes
§117.340(c)(2)(B)
No
Comply with the following: Monitoring/Testing [G]§117.340(c)(3)
36
Comply with the following: Monitoring/Testing §117.340(c)(1), [G](c)(3)

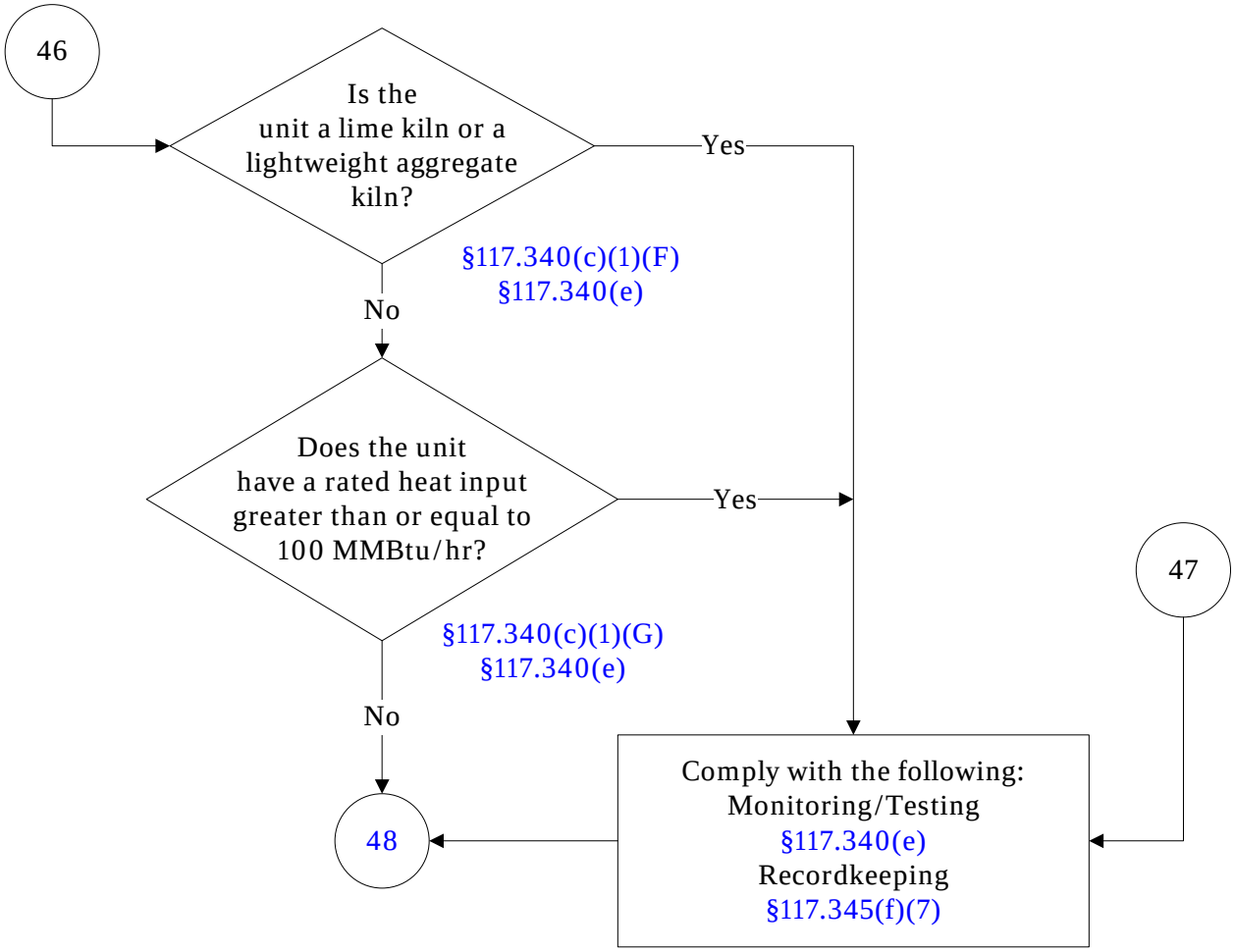

36
CO
Is the unit meeting an emission specification for CO different from §117.310(c), as approved by the executive director?
§117.325(a)
No
41
Yes
Comply with the following:
Standard
§117.325(a)
Monitoring/Testing
[G]§117.335(a)(1), [T](a)(4), [T](b)
[T]§117.335(d), [T](g)
§117.8120
Recordkeeping
§117.345(a), (f), (f)(9)
Reporting
§117.335(b), (g)
[G]§117.345(b)-(c)
§117.8010, [G](1), (2), (2)(A)-(B)
[G]§117.8010(3), (4), [G](5)
§117.8010(6), [G](7)-(8)
43

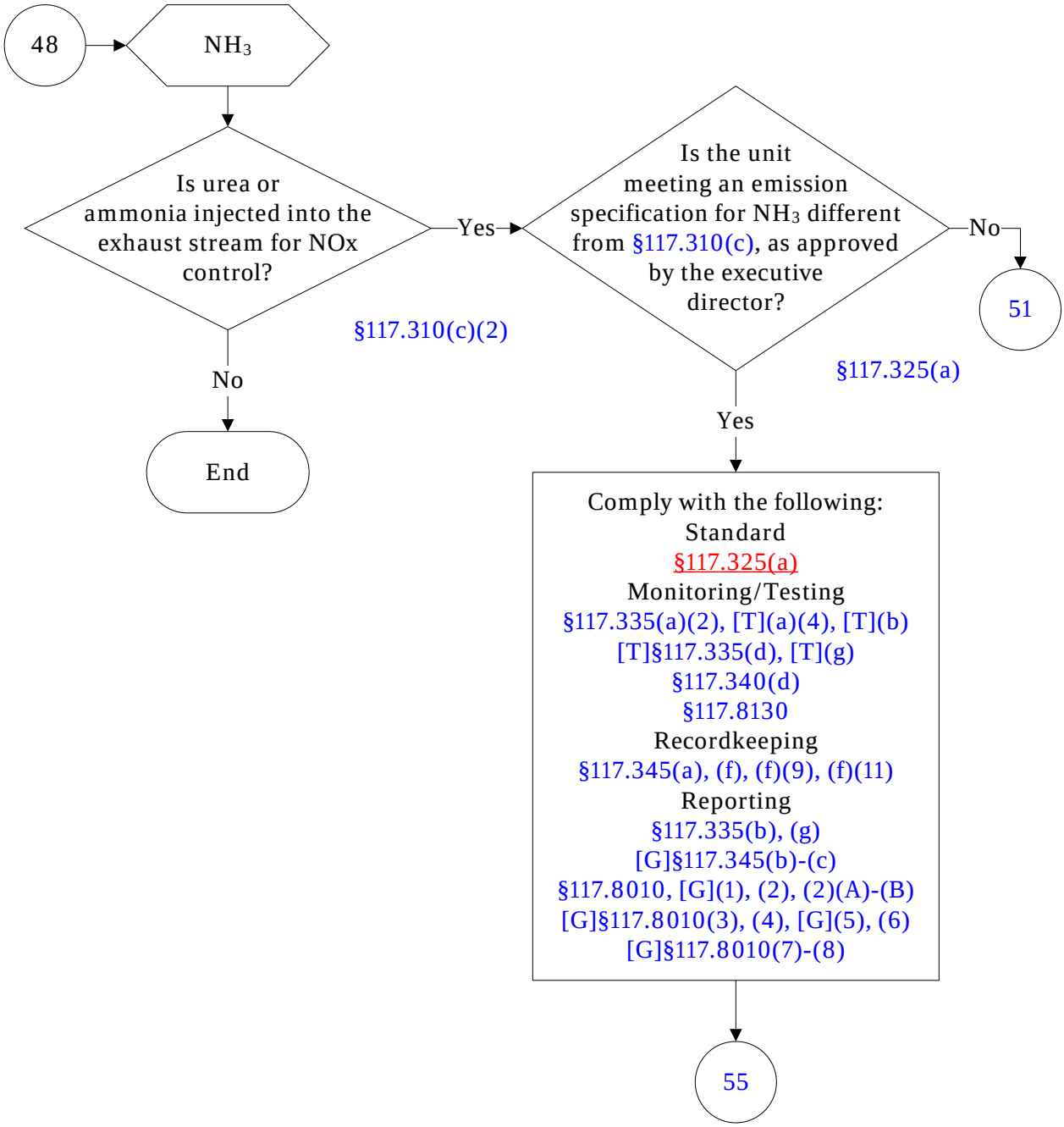

41
Comply with the following:
Standard
§117.310(c)(1)
Monitoring/Testing
[G]§117.335(a)(1), [T](a)(4), [T](b)
[T]§117.335(d), [T](g)
§117.8120
Recordkeeping
§117.345(a), (f), (f)(9)
Reporting
§117.335(b), (g)
[G]§117.345(b)-(c)
§117.8010, [G](1), (2), (2)(A)-(B)
[G]§117.8010(3), (4), [G](5)
§117.8010(6), [G](7)-(8)
Is the unit a lightweight aggregate kiln?
No
§117.310(c)(3)
Yes
Comply with the following:
Standard
§117.310(c)(3)
43

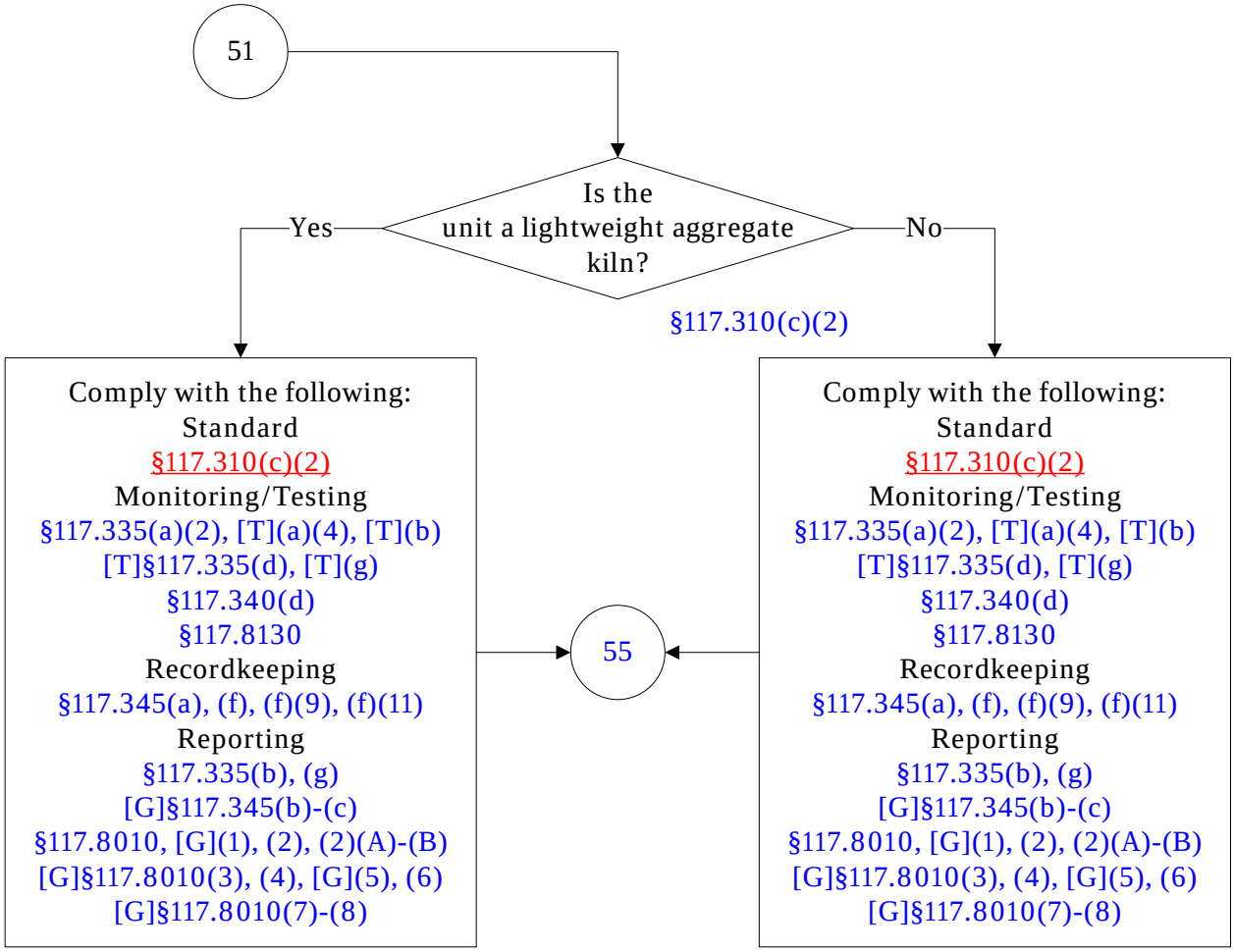

43
Does the unit utilize a CEMS or PEMS pursuant to §117.340?
§117.335(c)
Yes
No
Is the unit complying with §117.325(a) for CO?
§117.310(c)(1)(A)
No
Yes
Comply with the following: Standard §117.310(c)(1)(A)
Comply with the following: Monitoring/Testing §117.335(c), [T](f), [T](f)(3) Recordkeeping [G]§117.345(f)(2), (f)(8) Reporting §117.345(d), (d)(2)-(5)
44
Is the unit complying with §117.325(a) for CO?
§117.310(c)(1)(B)
No
Yes
Comply with the following: Standard §117.310(c)(1)(B)
Comply with the following: Monitoring/Testing [T]§117.335(e) [T]§117.8000(b)-(c), [T](c)(2) [T]§117.8000(c)(3), [T](c)(5)-(6) [T][G]§117.8000(d) §117.8120(2) [G]§117.8120(2)(A), (2)(B)
45

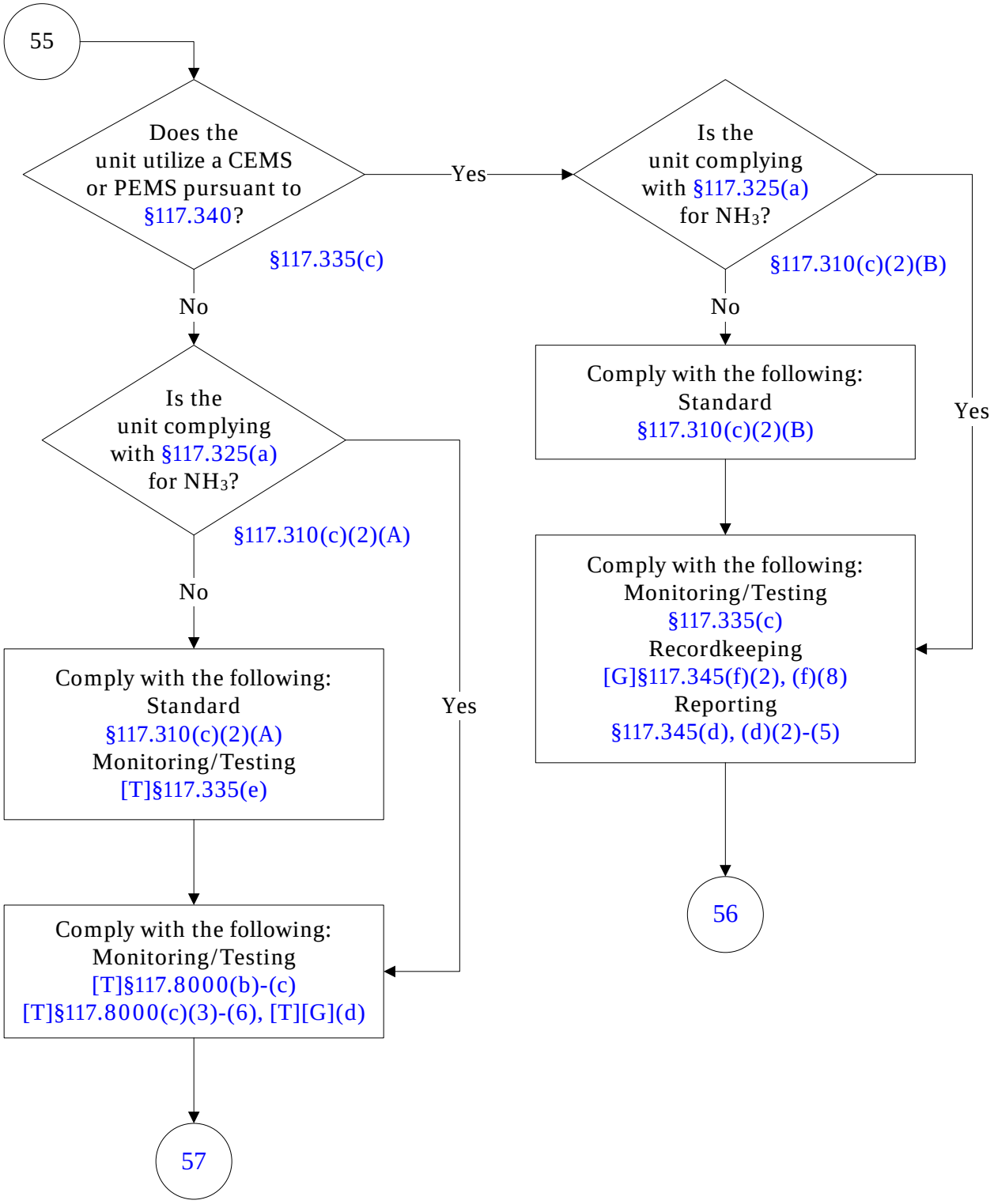

44
Is the device a CEMS?
§117.340(f)
No
Yes
Comply with the following:
Monitoring/Testing
[G]§117.340(g)
§117.8100(b), (b)(1), [G](b)(1)(A)
§117.8100(b)(1)(B), (b)(2)-(3)
§117.8100(b)(3)(A)-(B)
§117.8100(b)(4), [T](b)(4)(A)
[T]§117.8100(b)(4)(A)(i)
[T]§117.8100(b)(4)(A)(i)(II)
[T]§117.8100(b)(4)(A)(i)(III)
[G]§117.8100(b)(4)(B)
§117.8100(b)(4)(C), (b)(4)(C)(i)-(iii)
§117.8100(b)(4)(C)(iii)(I)
§117.8100(b)(4)(C)(iii)(II)
§117.8100(b)(4)(C)(iii)(II)(–a–)
§117.8100(b)(4)(C)(iii)(II)(–b–)
§117.8100(b)(5)-(6)
§117.8120(1), (1)(B)
Reporting
§117.8100(c)
Comply with the following:
Standard
§117.340(f)(1)
Monitoring/Testing
[G]§117.340(f)(2)
§117.8100(a), (a)(1), (a)(1)(A)-(B)
§117. 8100(a)(1)(B)(ii)-(iii), (a)(1)(C)
§117.8100(a)(2), [G](a)(3), (a)(4)-(5)
§117.8100(a)(5)(A)-(B)
[G]§117.8100(a)(5)(D)-(E), (a)(6)
§117.8120(1), (1)(A)
Recordkeeping
§117.8100(a)(5)(C)
Reporting
§117.8100(c)
45

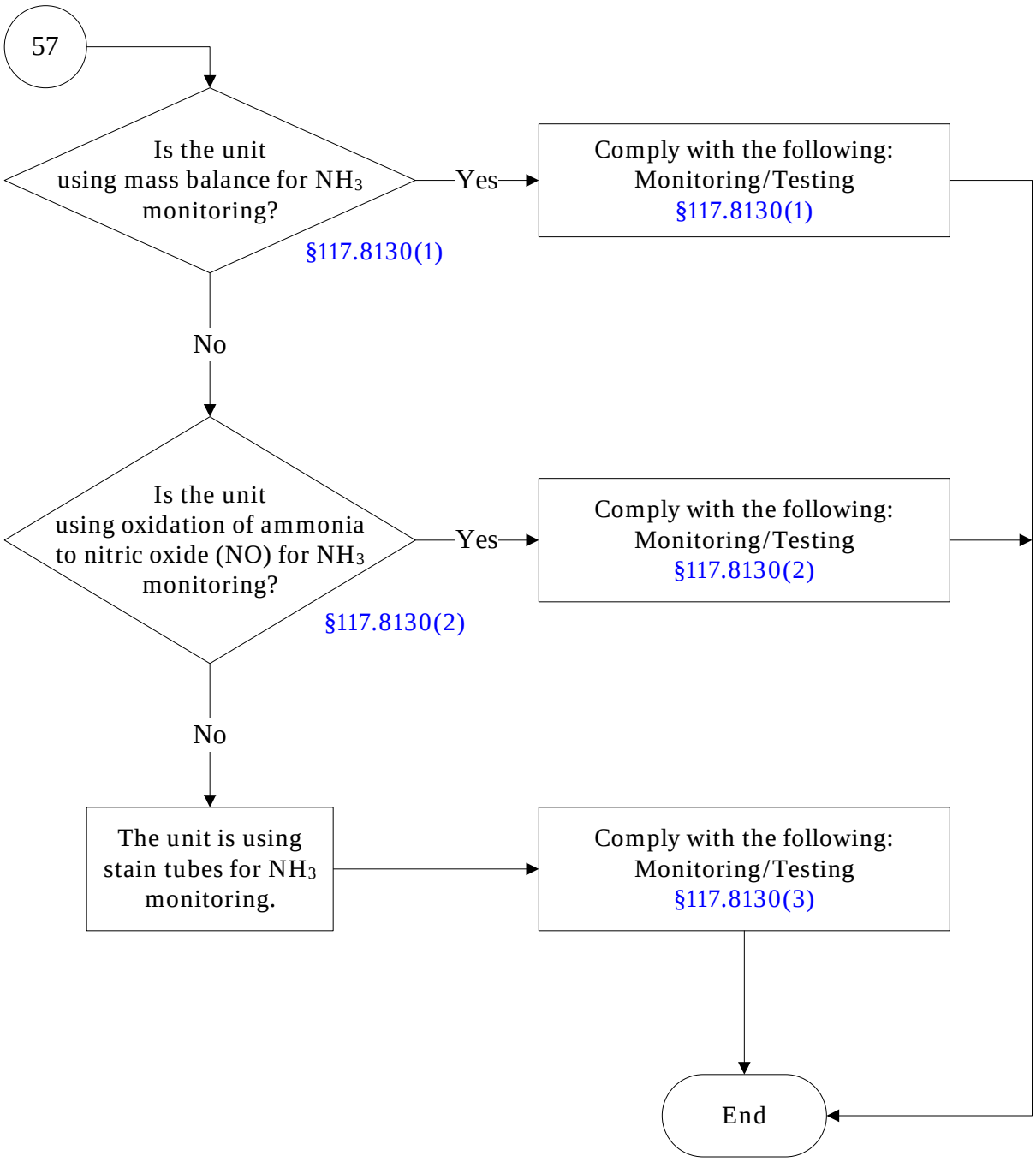

45
Is the unit one of those listed in §117.340(a)(1)(B)(i)-(xiii) as requiring a totalizing fuel flow meter?
No
Comply with the following: Monitoring/Testing §117.340(a)(2)(A)
§117.340(a)(1)(B)
§117.340(a)(2)(B)
Yes
Is the unit venting to a common stack and using a shared CEMS and a single totalizing fuel flow meter?
Yes
Comply with the following: Monitoring/Testing §117.340(a)(2)(B)
§117.340(a)(2)(B)
No
Comply with the following: Monitoring/Testing §117.340(a) Recordkeeping §117.345(f)(1)
Does the unit use a chemical reagent for reduction of NOX?
Yes
§117.340(c)(1)(D)
§117.340(e)
No
46
47

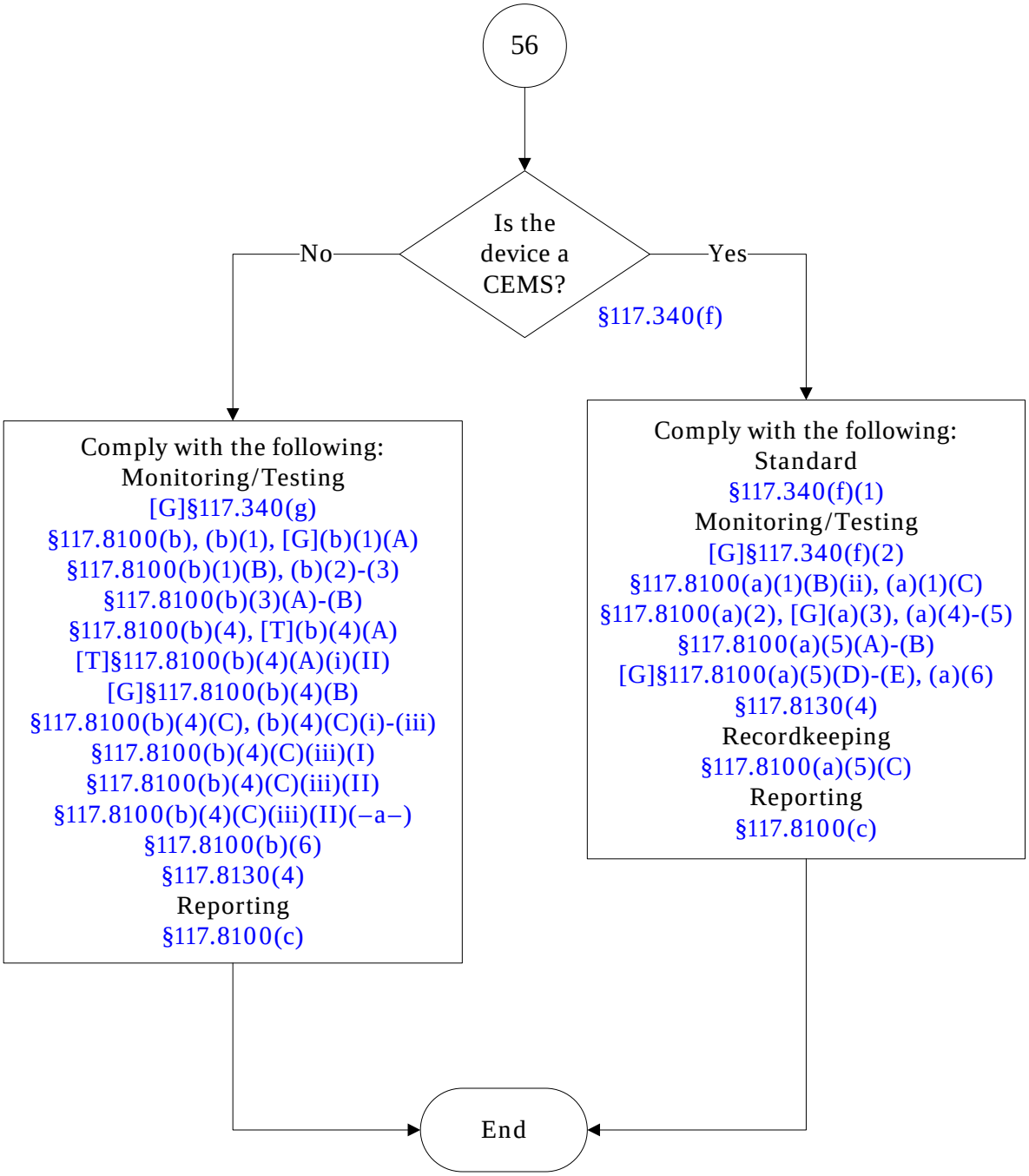

46
Is the unit a lime kiln or a lightweight aggregate kiln?
Yes
§117.340(c)(1)(F)
§117.340(e)
No
Does the unit have a rated heat input greater than or equal to 100 MMBtu/hr?
Yes
§117.340(c)(1)(G)
§117.340(e)
No
47
Comply with the following:
Monitoring/Testing
§117.340(e)
Recordkeeping
§117.345(f)(7)
48


48
NH3
Is urea or ammonia injected into the exhaust stream for NOx control?
Yes
No
End
§117.310(c)(2)
Is the unit meeting an emission specification for NH3 different from §117.310(c), as approved by the executive director?
No
51
§117.325(a)
Yes
Comply with the following:
Standard
§117.325(a)
Monitoring/Testing
§117.335(a)(2), [T](a)(4), [T](b)
[T]§117.335(d), [T](g)
§117.340(d)
§117.8130
Recordkeeping
§117.345(a), (f), (f)(9), (f)(11)
Reporting
§117.335(b), (g)
[G]§117.345(b)-(c)
§117.8010, [G](1), (2), (2)(A)-(B)
[G]§117.8010(3), (4), [G](5), (6)
[G]§117.8010(7)-(8)
55


51
Is the unit a lightweight aggregate kiln?
Yes
No
§117.310(c)(2)
Comply with the following:
Standard
§117.310(c)(2)
Monitoring/Testing
§117.335(a)(2), [T](a)(4), [T](b)
[T]§117.335(d), [T](g)
§117.340(d)
§117.8130
Recordkeeping
§117.345(a), (f), (f)(9), (f)(11)
Reporting
§117.335(b), (g)
[G]§117.345(b)-(c)
§117.8010, [G](1), (2), (2)(A)-(B)
[G]§117.8010(3), (4), [G](5), (6)
[G]§117.8010(7)-(8)
55
Comply with the following:
Standard
§117.310(c)(2)
Monitoring/Testing
§117.335(a)(2), [T](a)(4), [T](b)
[T]§117.335(d), [T](g)
§117.340(d)
§117.8130
Recordkeeping
§117.345(a), (f), (f)(9), (f)(11)
Reporting
§117.335(b), (g)
[G]§117.345(b)-(c)
§117.8010, [G](1), (2), (2)(A)-(B)
[G]§117.8010(3), (4), [G](5), (6)
[G]§117.8010(7)-(8)


55
Does the unit utilize a CEMS or PEMS pursuant to §117.340?
§117.335(c)
Yes
No
Is the unit complying with §117.325(a) for NH3?
§117.310(c)(2)(B)
No
Yes
Comply with the following: Standard §117.310(c)(2)(B)
Comply with the following: Monitoring/Testing §117.335(c) Recordkeeping [G]§117.345(f)(2), (f)(8) Reporting §117.345(d), (d)(2)-(5)
56
Is the unit complying with §117.325(a) for NH3?
§117.310(c)(2)(A)
No
Yes
Comply with the following: Standard §117.310(c)(2)(A) Monitoring/Testing [T]§117.335(e)
Comply with the following: Monitoring/Testing [T]§117.8000(b)-(c) [T]§117.8000(c)(3)-(6), [T][G](d)
57


57
Is the unit using mass balance for NH_3 monitoring?
§117.8130(1)
Yes
Comply with the following: Monitoring/Testing §117.8130(1)
No
Is the unit using oxidation of ammonia to nitric oxide (NO) for NH_3 monitoring?
§117.8130(2)
Yes
Comply with the following: Monitoring/Testing §117.8130(2)
No
The unit is using stain tubes for NH_3 monitoring.
Comply with the following: Monitoring/Testing §117.8130(3)
End


56
Is the device a CEMS?
§117.340(f)
No
Yes
Comply with the following:
Monitoring/Testing
[G]§117.340(g)
§117.8100(b), (b)(1), [G](b)(1)(A)
§117.8100(b)(1)(B), (b)(2)-(3)
§117.8100(b)(3)(A)-(B)
§117.8100(b)(4), [T](b)(4)(A)
[T]§117.8100(b)(4)(A)(i)(II)
[G]§117.8100(b)(4)(B)
§117.8100(b)(4)(C), (b)(4)(C)(i)-(iii)
§117.8100(b)(4)(C)(iii)(I)
§117.8100(b)(4)(C)(iii)(II)
§117.8100(b)(4)(C)(iii)(II)(–a–)
§117.8100(b)(6)
§117.8130(4)
Reporting
§117.8100(c)
Comply with the following:
Standard
§117.340(f)(1)
Monitoring/Testing
[G]§117.340(f)(2)
§117.8100(a)(1)(B)(ii), (a)(1)(C)
§117.8100(a)(2), [G](a)(3), (a)(4)-(5)
§117.8100(a)(5)(A)-(B)
[G]§117.8100(a)(5)(D)-(E), (a)(6)
§117.8130(4)
Recordkeeping
§117.8100(a)(5)(C)
Reporting
§117.8100(c)
End