Is the unit located within the Houston-Galveston-Brazoria ozone nonattainment area?

- Yes
  - §117.300
  - Is the site a major stationary source of NOx as defined in §117.10?
    - Yes
      - §117.300
    - No
      - §117.300
  - No

Is the unit a heat treating furnace or reheat furnace with a maximum rated capacity of less than 20 MMBtu/hr?

- Yes
  - §117.303(a)(3)
- No
  - Is the unit a molten sulfur oxidation furnace?
    - Yes
      - §117.303(a)(4)
    - No

30 TAC Chapter 117, Subchapter B, Division 3 does not apply.

End
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)?

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), (a)(4), (b)

§117.335(d), (g)

§117.340(l)(2), (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)
§117.310(a)(3)

Is the unit an industrial furnace that is regulated by 40 CFR Part 266, Subpart H?

Yes

§117.310(a)(3)

Is the max rated capacity equal to or greater than 100 MMBtu/hr?

Yes

Comply with the following:
Standard §117.310(a)(3)(A)

No

Comply with the following:
Standard §117.310(a)(3)(B)(i)-(ii)

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Is the unit a pulping liquor recovery furnace?

- Yes: Comply with the following:
  - Standard §117.310(a)(12)

- No
  - Is the unit a metallurgical heat treating furnace?
    - Yes: Comply with the following:
      - Standard §117.310(a)(14)(A)
    - No: These requirements are for a metallurgical reheat furnace.

- No
  - Comply with the following:
    - Standard §117.310(a)(14)(B)
Does the unit utilize a CEMS or PEMS pursuant to §117.340?

Yes
§117.335(c)

No

Comply with the following:
Standard
§117.340(p)(2)(C)
Monitoring/Testing
§117.335(e)
§117.340(p)(2)(A)-(C)
§117.8000(b)-(c), (c)(1), (c)(3)
§117.8000(c)(5)-(6), [G](d)
Reporting
§117.340(p)(2)(D)

Comply with the following:
Monitoring/Testing
§117.335(c)
Recordkeeping
[G]§117.345(f)(2), (f)(8)
Reporting
§117.345(d), (d)(3)
Is the unit complying with a NOx emission specification on a block one-hour average?

- **No**
  - Comply with the following:
    - Monitoring/Testing
      - §117.335(f)(2)

- **Yes**
  - Comply with the following:
    - Monitoring/Testing
      - §117.335(f), (f)(2)
Does the unit have a rated heat input greater than or equal to 100 MMBtu/hr?

§117.340(c)(1)(G)

Is compliance demonstrated according to the requirements of §117.8000?

§117.335(e)

Is the unit subject to the NOx CEMS requirements of 40 CFR Part 75?

§117.340(c)(2)(B)

Comply with the following:
Monitoring/Testing [G]§117.340(c)(3)

Comply with the following:
Monitoring/Testing §117.340(c)(1), [G](c)(3)
Is the unit an industrial furnace that is regulated by 40 CFR Part 266, Subpart H?

§117.310(c)(4)(A)

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)?

§117.310(a)(17)

Is the unit meeting an emission specification for CO different from §117.310(c), as approved by the executive director?

§117.325(a)

Comply with the following:

Standard
§117.325(a)

Monitoring/Testing
[G]§117.335(a)(1), (a)(4), (b)
§117.335(d), (g)

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)
Comply with the following:

Standard
§117.310(c)(1)

Monitoring/Testing
[G]§117.335(a)(1), (a)(4), (b)
§117.335(d), (g)

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)
Is the device a CEMS?

No

Comply with the following:
- Monitoring/Testing: §117.340(f)
- §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), (b)(4)(A)
  - §117.8100(b)(4)(A)(i)
  - §117.8100(b)(4)(A)(ii)-(iii)
  - §117.8100(b)(4)(A)(iii)(I)
  - §117.8100(b)(4)(A)(iii)(II)
  - §117.8100(b)(4)(A)(iii)(II)(a)
  - §117.8100(b)(5)-(6)

Yes

Comply with the following:
  - §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)

- Recordkeeping: §117.8100(a)(5)(C)

- Reporting:
  - [G]§117.8010(8)
  - §117.8100(c)
Comply with the following:
Monitoring/Testing
§117.340(a) (A)

Comply with the following:
Monitoring/Testing
§117.340(a) (B)

Comply with the following:
Monitoring/Testing
§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
§117.340(a)(1)(B)

§117.340(a)(1)(B) §117.340(a)(2)(B)

Is the unit one of those listed in §117.340(a)(1)(B)(i)-(xiii) as requiring a totalizing fuel flow meter?
Yes

Is the unit venting to a common stack and using a shared CEMS and a single totalizing fuel flow meter?
Yes

No

§117.340(a)(2)(B)

Comply with the following:
Monitoring/Testing
§117.340(a)(1)(B)
Does the unit have a rated heat input greater than or equal to 100 MMBtu/hr?

Yes

Comply with the following:
- Monitoring/Testing
  - §117.340(e)
  - Recordkeeping
    - §117.345(f)(7)

No

Comply with the following:
- Monitoring/Testing
  - §117.340(c)(1)(G)
  - §117.340(e)

Does the unit utilize a CEMS or PEMS pursuant to §117.8100(a)(1) or §117.8100(b)?

Yes

Comply with the following:
- Monitoring/Testing
  - §117.8120, (1), (1)(A)

No

Comply with the following:
- Monitoring/Testing
  - §117.8120, (1), (1)(B)

Is the device a CEMS?

Yes

Comply with the following:
- Monitoring/Testing
  - §117.8120(1)

No

Comply with the following:
- Monitoring/Testing
  - §117.8120, (2), (G)(2)(A), (2)(B)
NH\textsubscript{3} is the unit meeting an emission specification for NH\textsubscript{3} different from §117.310(c), as approved by the executive director?

Yes

Comply with the following:
- Standard §117.325(a)(2)
- Monitoring/Testing §117.335(a)(2), (a)(4), (b)
  §117.335(d), (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)

No

Is urea or ammonia injected into the exhaust stream for NO\textsubscript{x} control?

Yes

§117.310(c)(2)

No

End

End

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Is the unit an industrial furnace that is regulated by 40 CFR Part 266, Subpart H?

Yes

Comply with the following:

- Standard
  - §117.310(c)(2)
- Monitoring/Testing
  - §117.335(a)(2), (a)(4), (b)
  - §117.335(d), (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)

No

Comply with the following:

- Standard
  - §117.310(c)(2)
- Monitoring/Testing
  - §117.335(a)(2), (a)(4), (b)
  - §117.335(d), (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)
Does the unit utilize a CEMS or PEMS pursuant to §117.340?

§117.335(c)

No

Is the unit complying with §117.325(a) for NH₃?

§117.310(c)(2)(A)

No

Comply with the following:
Standard
§117.310(c)(2)(A)
Monitoring/Testing
§117.335(e)

Comply with the following:
Monitoring/Testing
§117.8000(b)-(c)
§117.8000(c)(3)-(6), [G](d)

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Yes

Comply with the following:
Standard
§117.310(c)(2)(B)

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Yes

Is the unit complying with §117.325(a) for NH₃?

§117.310(c)(2)(B)

No

Comply with the following:
Monitoring/Testing
§117.335(c)
Recordkeeping
[G]§117.345(f)(2), (f)(8)
Reporting
§117.345(d), (d)(2)-(5)
Is the unit using mass balance for NH₃ monitoring?

- Yes
  - §117.8130(1)
  - Comply with the following:
    Monitoring/Testing
    §117.8130(1)

- No
  - Is the unit using oxidation of ammonia to nitric oxide (NO) for NH₃ monitoring?
    - Yes
      - §117.8130(2)
      - Comply with the following:
        Monitoring/Testing
        §117.8130(2)
    
- No
  - The unit is using stain tubes for NH₃ monitoring.
  
  - Comply with the following:
    Monitoring/Testing
    §117.8130(3)

  - End
Is the device a CEMS?

- Yes: Comply with the following:
  - Monitoring/Testing: §117.340(f)
  - Reporting: §117.8010(8), §117.8100(c)

- No: Comply with the following:
  - Monitoring/Testing:
    - [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), (b)(4)(A)
    - §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)(ii)(I)
    - §117.8100(b)(4)(C)(iii)(II)
    - §117.8100(b)(4)(C)(iii)(II)(a–)
    - §117.8100(b)(6)
    - §117.8130(4)
  - Reporting: [G]§117.8010(8), §117.8100(c)
  - Recordkeeping: §117.8100(a)(5)(A)-(B)
  - Reporting: [G]§117.8010(8), §117.8100(c)

End