Is the operation a flexographic or rotogravure printing process located in Beaumont-Port Arthur, Dallas-Fort Worth, El Paso, Houston-Galveston-Brazoria areas or in Gregg, Nueces, or Victoria Counties?

Yes: 30 TAC Chapter 115, Flexographic and Rotogravure does not apply.

No: §115.430(a)

Is the operation in the Beaumont/Port Arthur, Dallas/Fort Worth, El Paso areas?

Yes: §115.430(a)

No: Do all the rotogravure and flexographic lines in the Beaumont/Port Arthur, Dallas/Fort Worth or El Paso areas have when uncontrolled a potential to emit VOC emissions of < 50 tpy?

Yes: §115.431(a)(1)

No: §115.430(a)

Is the operation in the Houston-Galveston-Brazoria area?

Yes: Comply with the following:
- Standard §115.431(a)(1)
- [G]§115.432(a)(2), [G](c)(2)

No: Do all the rotogravure and flexographic lines in the Houston/Galveston Brazoria area have when uncontrolled a potential to emit VOC emissions of < 25 tpy?

Yes: §115.431(a)(2)

No: §115.430(a)

Comply with the following:
- Standard §115.431(a)(2)
- [G]§115.432(a)(2), [G](c)(2)
Does the operation have a combined weight of total actual VOC emissions less than 3.0 tons per year from all coatings from all flexible package printing lines?

§115.431(a)(3)

Does the operation have, (when uncontrolled), a maximum potential to emit total VOC emissions less than 25 tons per year from all coatings from each flexible package printing line?

§115.431(a)(4)

Comply with the following: Standard §115.431(a)(3) [G]§115.432(c)(2)

End

Comply with the following: Standard §115.431(a)(4) [G]§115.432(c)(2)
Is the operation limiting the VOC emissions from the coatings to 0.80 pound of VOC per pound of solids applied?

Comply with the following:

- **Standard**
  - §115.432(c)(1)(A) |1
  - §115.432(c), (c)(1), [G](d)
- **Monitoring/Testing**
  - §115.435(a)(1)-(8), (c)
  - §115.436(c), (c)(1)
  - §115.436(c), (c)(1)-(2)
  - §115.436(c)(5)-(6)
- **Recordkeeping**
  - §§115.436(a)(2), (c)(3)
- **Reporting**
  - §115.436(c)(6)

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Is the operation limiting the VOC emissions from the coatings to 0.80 pound of VOC per pound by using a combination of coatings and the operation of a vapor control system?

Comply with the following:

- **Standard**
  - §115.432(c)(1)(A) |2
  - §115.432(c), (c)(1), (c)(3), [G](d)
- **Monitoring/Testing**
  - §115.435(a)(1)-(8), (c)
  - §115.436(c), (c)(1)
  - §115.436(c), (c)(1)-(2)
  - §115.436(c)(5)-(6)
- **Recordkeeping**
  - §115.436(c)(6)

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Does the facility have alternate control requirements?

Comply with the following:

- **Standard**
  - §115.433
  - §115.910
- **Monitoring/Testing**
  - §115.436(a)(2)
- **Recordkeeping**
  - §115.436(a)(2), (c)(3)
The flexible package printing line operation must have a vapor control system that achieves an overall control efficiency of at least 80% by weight.

Comply with the following:
- Standard §115.432(c)(1)(C)
- §115.432(c), (c)(1), [G](d)
- Monitoring/Testing §115.435(a)(1)-(8), (c)
- §115.436(c), (c)(1)
- Recordkeeping §115.436(c), (c)(1)-(2)
- §115.436(c)(5)-(6)
- Reporting §115.436(c)(6)

Is the operation limiting the VOC emissions from the coatings to 0.16 pound of VOC per pound of coating applied?

- Yes
  - §115.432(c)(1)(B)
  - End
- No

Is the operation limiting the VOC emissions from the coatings to 0.16 pound of VOC per pound by using a combination of coatings and the operation of a vapor control system?

- Yes
  - §115.432(c)(1)(B)
- No

The flexible package printing line operation must have a vapor control system that achieves an overall control efficiency of at least 80% by weight.
Comply with the following:

Monitoring/Testing
§115.435(a)(8)(A)(i)

Recordkeeping
§115.436(c)(7)

Yes

Has the owner or operator of the source installed a permanent total enclosure (PTE) that meets the specifications of Procedure T?

§115.435(a)(8)(A)(i)

No

Comply with the following:

Monitoring/Testing
§115.435(a)(8)(A)(ii)

Recordkeeping
§115.436(c)(7)

Yes

Does the source use a control device designed to collect and recover VOC (e.g., carbon adsorption system)?

§115.435(a)(8)(A)(ii)

No

Comply with the following:

Monitoring/Testing
[G]§115.435(a)(8)(B), (a)(8)(C)
§115.436(c)(4), (c)(4)(A)
§115.436(c)(4)(D)

Recordkeeping
§115.435(a)(8)(C)
§115.436(c)(4), (c)(4)(A)
§115.436(c)(4)(D)

No

End
Does the facility have alternate control requirements?

Yes

§115.433

Comply with the following:

Standard
§115.433
§115.910
Monitoring/Testing
§115.436(a)(2)
Recordkeeping
§115.436(a)(2), (c)(3)

No

Is the operation applying low solvent ink with a volatile fraction containing 25% by volume or less of VOC solvent and 75% by volume or more of water?

Yes

§115.432(a)(1)(A)

Comply with the following:

Standard
§115.432(a)(1)(A)
§115.432(a), (a)(1)
Monitoring/Testing
§115.435(a)(1)-(7), (c)
Recordkeeping
§115.436(a)(1)
§115.436(a)(4)-(5)

No

Is the operation applying high solids solvent-borne ink with containing 60% by volume or more of nonvolatile material?

Yes

§115.432(a)(1)(B)

Comply with the following:

Standard
§115.432(a)(1)(B)
§115.432(a), (a)(1)
Monitoring/Testing
§115.435(a)(1)-(7), (c)
Recordkeeping
§115.436(a)(1)
§115.436(a)(4)-(5)

No

End

End
Comply with the following:
Standard
§115.432(a)(1)(C)
§115.432(a), (a)(1), (a)(3)
Monitoring/Testing
§115.432(a)(3)
§115.435(a)(1)-(8), (c)
Recordkeeping
§115.436(a)(1), (a)(4)-(6), (c)(5)
Reporting
§115.436(a)(6)

The operation must have a vapor control system to reduce the VOC emissions from an effective capture system by at 90% by weight.

Is the operation a publication rotogravure process?

§115.432(a)(1)(C)(i)
Yes

Is the operation a packaging rotogravure process?

§115.432(a)(1)(C)(ii)
No

Is the operation a flexographic printing process?

§115.432(a)(1)(C)(iii)
No

4a

Comply with the following:
Standard
§115.432(a)(1)(C)(iv)
[G]§115.432(d)

These flowcharts are for use by sources subject to the Federal Operating Permits Program only and are subject to change.
4a

Has the owner or operator of the source installed a permanent total enclosure (PTE) that meets the specifications of Procedure T?

§115.435(a)(8)(A)(i)

Yes

Comply with the following:
Monitoring/Testing
§115.435(a)(8)(A)(i)

No

Does the source use a control device designed to collect and recover VOC (e.g., carbon adsorption system)?

§115.435(a)(8)(A)(ii)

Yes

Comply with the following:
Monitoring/Testing
[G]§115.435(a)(8)(A)(ii)
§115.436(a)(3), (a)(3)(B)-(D)
Recordkeeping
§115.436(a)(3), (a)(3)(B)-(D)

No

Comply with the following:
Monitoring/Testing
[G]§115.435(a)(8)(B), (a)(8)(C)
§115.436(a)(3), (a)(3)(A)
§115.436(a)(3)(D)
Recordkeeping
§115.435(a)(8)(C)
§115.436(a)(3), (a)(3)(A)
§115.436(a)(3)(D)

End

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From 30 TAC Chapter 115, Effective 12/29/2011
These flowcharts are for use by sources subject to the Federal Operating Permits Program only and are subject to change.
The operations in Gregg, Nueces, and Victoria Counties must have a vapor control system that reduces VOC emissions from an effective capture system by at least 90% by weight.

Is the operation a publication rotogravure process?
- Yes: Comply with the following:
  - Standard
  - §115.432(b)(3)(A)
- No: §115.432(b)(3)(A)

Is the operation a packaging rotogravure process?
- Yes: Comply with the following:
  - Standard
  - §115.432(b)(3)(B)
- No: §115.432(b)(3)(B)

Is the operation a flexographic printing process?
- Yes: Comply with the following:
  - Standard
  - §115.432(b)(3)(C)
- No: §115.432(b)(3)(D)

Comply with the following:
- Standard
  - §115.432(b)
  - Monitoring/Testing
  - §115.435(a)(8)
  - Recordkeeping
  - §115.436(b)(1)
  - §115.436(b)(4)-(5)
Has the owner or operator of the source installed a permanent total enclosure (PTE) that meets the specifications of Procedure T?

Yes

§115.435(a)(8)(A)(i)

End

No

§115.435(a)(8)(A)(i)

Is the facility located in Victoria County?

Yes

§115.436(b)(3)(C)

End

No

Comply with the following:

Monitoring/Testing

§115.435(a)(8)(A)(ii)

§115.436(b)(3), (b)(3)(C)-(D)

Recordkeeping

§115.436(b)(3), (b)(3)(C)-(D)

Has the owner or operator installed a carbon adsorption system?

No

Comply with the following:

Monitoring/Testing

[G]§115.435(a)(8)(B), (a)(8)(C)

§115.436(b)(3), (b)(3)(A)

§115.436(b)(3)(D)

Recordkeeping

§115.435(a)(8)(C)

§115.436(b)(3), (c)(3)(A)

§115.436(b)(3)(D)

Yes

§115.436(b)(3)(B)

Comply with the following:

Monitoring/Testing

[G]§115.435(a)(8)(A)(ii)

§115.436(b)(3), (b)(3)(B)-(D)

Recordkeeping

§115.436(b)(3), (b)(3)(B)-(D)