

TYPICAL COTTON GIN FACILITY INFORMATION FOR EMISSION INVENTORY

The information below is used internally by NC DAQ for typical Cotton Gin facility information in regards to the periodic emission inventory required. It is used both for completion of internal databases and for QA checks on existing or submitted data. Actual situations may provide different specific information.

Emission Source Module

- (1) Emission Source
 - (a) One Emission Source
 - (b) Emission Source ID: CG-1
 - (c) Emission Source Type: Food & Agricultural
 - (d) Emission Source Description: Emission source and air filtration system(s) utilized in the cotton ginning process, (maximum rated gin stand capacity less than 20 bales per hour regardless of the number of gin stands) (Standard Industrial Classification Code (SIC) 0724)
- (2) Control Device
 - (a) One Control Device
 - (b) Control Device ID: CD-1R
 - (c) Control Device Description: cyclones (representative for entire facility)
- (3) Control System (***Verify System Generates***)
 - (a) One Control System composed of the above control device (CD-1R)
 - (b) Control System ID: CS-1
 - (c) Control System Description: cyclones (representative for entire facility)
- (4) Link Emission Source CG-1 with Control System CS-1

ED-ENTRY

- (1) Emission Source Group
 - (a) ***Verify System Generates*** Emission source Group ID: G-1 composed of the above emission source CG-1
 - (b) Add SCC/Operating Scenario
 - (i) Assign Operating Scenario (SCC) 30200410 – (just type SCC code in instead of selecting levels)
- (2) Operating Scenario
 - a. Actual Annual Throughput - # of bales
 - b. Normal Operating Schedule
 - (i) 18 Hours Per Day
 - (ii) 6 Days Per Week
 - (iii) 13 Weeks Per Year
 - (iv) 1404 Hours Per Year
 - c. Percentage Annual Throughput For This Operating Scenario
 - (i) Dec-Feb – 25%
 - (ii) Mar-May – 0%
 - (iii) Jun-Aug – 0%
 - (iv) Sept-Nov – 75%
 - d. Start Date – Oct. 1, 2002
 - e. End Date – Dec. 31, 2002
 - f. Start Time – 0600

- g. End Time – 2359
- h. Control System Linking
 - (i) Add CS-1
 - (ii) % Capture Eff. = 100
- i. Emission Release Point Linking
 - (i) New Emission Release Point
 - (a) Release Point: Vertical Stack
 - (b) Geometry: Circular
 - (c) Release Point ID: ERP-1
 - (d) Description: Cyclone racks (representative)
 - (e) Height (feet): 30
 - (f) Inside Diameter (feet): 4.3
 - (g) Temperature(F): 70
 - (h) Volumetric Flow Rate (ACFM): 3600 (will calculate velocity)
 - ii. Add Emission Release Point
 - iii. % thru Release Point from this Control System = 100