



# CONCRETE BATCHING PLANT



## COMPLIANCE INSPECTION CHECKLIST

**INSPECTION TYPE:** ANNUAL (INS1, INS2)  COMPLAINT/DISCOVERY (CI)   
 RE-INSPECTION (FUI)  ARMS COMPLAINT NO:

<b>AIRS ID#:</b> 0950058	<b>DATE:</b> <u>2/6/2014</u>	<b>ARRIVE:</b> <u>8:22 AM</u>	<b>DEPART:</b> <u>3:00PM</u>
<b>FACILITY NAME:</b> A1 BLOCK-ORLANDO			
<b>FACILITY LOCATION:</b> 1617 S Division Ave ORLANDO 32805-4725			
<b>OWNER/AUTHORIZED REPRESENTATIVE:</b> ADAM FREEMAN*		<b>PHONE:</b> (407)422-3768	
Email: adam@alblock.com		<b>Mobile:</b>	
<b>CONTACT NAME:</b> ADAM FREEMAN*		<b>PHONE:</b> (407)422-3768	
Email: adam@alblock.com		<b>Mobile:</b>	
<b>ENTITLEMENT PERIOD:</b> 9/26/2009 / 9/26/2014 (effective date) (end date)			

### Facility Section

**PART I: INSPECTION COMPLIANCE STATUS** (check  only one box)

IN COMPLIANCE     MINOR Non-COMPLIANCE     SIGNIFICANT Non-COMPLIANCE

**PART II: ONSITE INTRODUCTORY MEETING** (check  only one box for each question)

1. Name(s) of facility representative(s): Daniel S McQuaig  
 Brief Notes: Operations, Ready Mix Concrete

2. Is the Authorized Representative still ADAM FREEMAN\*? -----  Yes    ..No  
 If no, who is?: \_\_\_\_\_  
 If different, did the facility provide an administrative update within 30 days? -----  Yes    ..No

3. Is the facility contact still ADAM FREEMAN\*? -----  Yes    ..No  
 If no, who is?: \_\_\_\_\_

4. Will facility be conducting VE test(s) during today's inspection? -----  Yes    ..No  
 If yes, was the compliance authority notified at least 15 days in advance? -----  Yes    ..No

**Emissions Unit Section**

**8 –CCB Plant-R-Mix Plant,silo#1,splitbin#1(cement)296Bbl,w/DC subject to 5% Opacity Limit**

**PART I: FILE REVIEW PRIOR TO INSPECTION**

(check  only one box for each question)

1. Date of last inspection: 2/7/13
2. Past Visible Emissions (VE) tests:
  - a. Was a VE test performed within each of the past 4 calendar years? -----  Yes  No
  - b. Has a VE test been performed yet within the current calendar year? -----  Yes  No
  - c. If first year of operation, was a VE test performed within 30 days of commencing operation? -----  N/A  Yes  No
  - d. Date of last VE test: 2/7/13
  - e. Was the VE test report filed with the compliance authority no later than 45 days after the test? -----  Yes  No
  - f. Did the report state the actual silo loading rate during emissions testing? -----  Yes  No
  - g. What was the actual silo loading rate? 30.9 tons/hour
  - h. If weigh hopper(batcher) emissions controlled by the silo dust collector, did the report state whether or not batching occurred during emissions testing? -----  N/A  Yes  No
  - i. Did the test report state the actual batching rate during emissions testing? -----  Yes  No
  - j. What was the actual batching rate? \_\_\_\_\_ tons/hour
  - k. Did the emissions unit demonstrate compliance with the 5% opacity limit during the last VE test?--  Yes  No  
If not, what was the problem (if known)? \_\_\_\_\_

**PART II: STACK EMISSIONS from a silo, weigh hopper(batcher) or other enclosed storage and conveying equipment**

(check  only one box for each question)

1. Was a visible emissions test conducted by the facility for this unit during this site visit? -----  Yes  No
  - a. Was the visible emissions test conducted according to EPA Method 9? -----  Yes  No
  - b. The visible emission test resulted in an opacity of 0 % for the highest six-minute average.
  - c. Did the visible emissions test demonstrate compliance with the 5% opacity limit? -----  Yes  No  
If not, what was the problem (if known)? \_\_\_\_\_
  - d. During visible emissions tests of the silo dust collector exhaust points was the loading of the silo conducted at a rate that is representative of the normal silo loading rate? --  Yes  No  N/A – silo not loaded during inspection.
  - e. If silo loaded, was the minimum loading rate of 25 tons/hour achievable in practice? -----  Yes  No
  - f. What was the silo loading rate? 21.8 tons/hour
  - g. Are emissions from the weigh hopper (batcher) operation controlled by the silo dust collector? ---  Yes  No  
*If YES, then continue on to questions g.1) – g.3) below. If answer NO, then skip g.1) – g.3) and go to h.*
    - 1) Was the weigh hopper (batcher) in operation during the visible emissions test? -----  Yes  No
    - 2) During the visible emissions test, was the batching rate representative of the normal batching rate and duration?-----  Yes  No
    - 3) What was the batching rate? \_\_\_\_\_ tons/hour . What was the batching duration? \_\_\_\_\_ minutes
  - h. 1) If emissions from the weigh hopper (batcher) operation are controlled by a dust collector which is separate from the silo dust collector, was the visible emissions test of the weigh hopper (batcher) dust collector conducted while batching at a rate that is representative of the normal batching rate and duration?  Yes  No  
2) What was the batching rate? 172 tons/hour. What was the batching duration? 4-6 minutes.
2. Was a visible emissions test conducted by the inspector for this unit during this site visit? -----  Yes  No
  - a. Was the visible emissions test conducted according to EPA Method 9? -----  Yes  No
  - b. The visible emission test resulted in an opacity of 0 % for the highest six-minute average.
  - c. Did the visible emissions test demonstrate compliance with the 5% opacity limit? -----  Yes  No
  - d. What was the process rate? 21.8 tons/hour.

Emissions Unit Section

9 -CCB Plant-R-Mix Plant,silo#1,splitbin#2(cement)296Bbl,w/DC subject to 5% Opacity Limit

PART I: FILE REVIEW PRIOR TO INSPECTION

(check [X] only one box for each question)

- 1. Date of last inspection: 2/27/13
2. Past Visible Emissions (VE) tests:
a. Was a VE test performed within each of the past 4 calendar years? [X] Yes [ ] No
b. Has a VE test been performed yet within the current calendar year? [ ] Yes [X] No
c. If first year of operation, was a VE test performed within 30 days of commencing operation? [X] N/A [ ] Yes [ ] No
d. Date of last VE test: 2/27/2013
e. Was the VE test report filed with the compliance authority no later than 45 days after the test? [X] Yes [ ] No
f. Did the report state the actual silo loading rate during emissions testing? [X] Yes [ ] No
g. What was the actual silo loading rate? 31.89 tons/hour
h. If weigh hopper(batcher) emissions controlled by the silo dust collector, did the report state whether or not batching occurred during emissions testing? [X] N/A [ ] Yes [ ] No
i. Did the test report state the actual batching rate during emissions testing? [ ] Yes [X] No
j. What was the actual batching rate? \_\_\_\_\_ tons/hour
k. Did the emissions unit demonstrate compliance with the 5% opacity limit during the last VE test?-- [X] Yes [ ] No
If not, what was the problem (if known)? \_\_\_\_\_

PART II: STACK EMISSIONS from a silo, weigh hopper(batcher) or other enclosed storage and conveying equipment

(check [X] only one box for each question)

- 1. Was a visible emissions test conducted by the facility for this unit during this site visit? [X] Yes [ ] No
a. Was the visible emissions test conducted according to EPA Method 9? [X] Yes [ ] No
b. The visible emission test resulted in an opacity of 0 % for the highest six-minute average.
c. Did the visible emissions test demonstrate compliance with the 5% opacity limit? [X] Yes [ ] No
If not, what was the problem (if known)? \_\_\_\_\_
d. During visible emissions tests of the silo dust collector exhaust points was the loading of the silo conducted at a rate that is representative of the normal silo loading rate? -- [X] Yes [ ] No [ ] N/A - silo not loaded during inspection.
e. If silo loaded, was the minimum loading rate of 25 tons/hour achievable in practice? [X] Yes [ ] No
f. What was the silo loading rate? 29.98 tons/hour
g. Are emissions from the weigh hopper (batcher) operation controlled by the silo dust collector? --- [ ] Yes [X] No
If YES, then continue on to questions g.1) - g.3) below. If answer NO, then skip g.1) - g.3) and go to h.
1) Was the weigh hopper (batcher) in operation during the visible emissions test? [ ] Yes [ ] No
2) During the visible emissions test, was the batching rate representative of the normal batching rate and duration?----- [ ] Yes [ ] No
3) What was the batching rate? \_\_\_\_\_ tons/hour . What was the batching duration? \_\_\_\_\_ minutes
h. 1) If emissions from the weigh hopper (batcher) operation are controlled by a dust collector which is separate from the silo dust collector, was the visible emissions test of the weigh hopper (batcher) dust collector conducted while batching at a rate that is representative of the normal batching rate and duration? [X] Yes [ ] No
2) What was the batching rate? 172 tons/hour. What was the batching duration? 4-6 minutes.
2. Was a visible emissions test conducted by the inspector for this unit during this site visit? [X] Yes [ ] No
a. Was the visible emissions test conducted according to EPA Method 9? [X] Yes [ ] No
b. The visible emission test resulted in an opacity of 0 % for the highest six-minute average.
c. Did the visible emissions test demonstrate compliance with the 5% opacity limit? [X] Yes [ ] No
d. What was the process rate? 29.98 tons/hour.

**Emissions Unit Section**

**11 –CCB Plant-R-Mix Plant,rtruck load-out,w/cent. Dust Collector subject to Reasonable Precautions**

**PART I: FILE REVIEW PRIOR TO INSPECTION**

(check  only one box for each question)

- 1. Date of last inspection: 2/7/2013
- 2. Did the emissions unit use reasonable precautions during the last inspection? -----  Yes  No  
If not: a. Did the inspector perform a general VE test (20% opacity)? -----  Yes  No  
b. If tested: (\_\_\_\_) % opacity. Were the visible emissions < 20% opacity? -----  N/A  Yes  No  
c. What caused the problem(s) (if known)? \_\_\_\_\_

**PART II: FIELD OBSERVATIONS – Rule 62-296.414(2), F.A.C.**

(check  only one box for each question)

**Unconfined Emissions from Truck Loading and Unloading, Hoppers, Storage and Conveying Equipment, Conveyor Drop Points, Roads, Parking Areas, Stock Piles, and Yards**

- 1. Does the owner/operator of the concrete batching plant take reasonable precautions to control unconfined emissions by:
  - a. Management of roads, parking areas, stock piles, and yards, which shall include one or more of the following:
    - 1) paving and maintenance of roads, parking areas, stock piles, and yards? -----  Yes  No
    - 2) application of water or environmentally safe dust-suppressant chemicals when necessary to control emissions? -----  Yes  No
    - 3) removal of particulate matter from roads and other paved areas under control of the owner/operator to re-entrainment, and from building or work areas to reduce airborne particulate matter? -----  Yes  No
    - 4) reduction of stock pile height, or installation of wind breaks to mitigate wind entrainment of particulate matter from stock piles? -----  Yes  No
  - b. Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck? ----  Yes  No
- 2. If reasonable precautions not being taken:
  - a. Did the inspector perform a general VE test (20% opacity)? -----  Yes  No
  - b. If tested: (\_\_\_\_) % opacity. Were the visible emissions < 20% opacity? -----  Yes  No
  - c. What caused the problem(s) (if known)? \_\_\_\_\_

**Facility Section (continued)**

**CONFIRMATION OF GENERAL PERMIT ELIGIBILITY**

(check  only one box for each question)

1. Does this facility keep records to show that it does not have the potential to emit:
  - a. 10 tons per year or more of any hazardous air pollutant? -----  Yes  No
  - b. 25 tons per year or more of any combination of hazardous air pollutants? -----  Yes  No
  - c. 100 tons per year or more of any other regulated air pollutant? -----  Yes  No
  
2. Does this facility include:
  - a. Any emission units or activities not covered by the applicable air general permit (with the exception of units and activities that are exempt from permitting pursuant to subsection Rule 62-210.300(3) or Rule 62-4.040, F.A.C.)? -----  Yes  No  
 If YES, what non-exempt units or activities? \_\_\_\_\_
  
  - b. Any emissions units or activities authorized by another air general permit where such other air general permit and this general permit specifically allow the use of one another at the same facility? -----  Yes  No  
 If YES, what other general permit units or activities? \_\_\_\_\_
  
3. Is the total combined annual facility-wide fuel usage of all plants less than or equal to:
  - a. 275,000 gallons of diesel fuel? -----  Yes  No
  - b. 23,000 gallons of gasoline? -----  Yes  No
  - c. 44 million standard cubic feet on natural gas? -----  Yes  No
  - d. 1.3 million gallons of propane? -----  Yes  No
  - e. Or an equivalent prorated amount if multiple fuels are used onsite (use equation below)? -----  Yes  No  

$$\frac{15665 \text{ gal diesel/yr} + 14074 \text{ gal gasoline/yr} + 0 \text{ MM SCF nat. gas/yr} + 0.000569 \text{ MM gal propane/yr}}{275,000 \text{ gal diesel/yr} \quad 23,000 \text{ gal gasoline/yr} \quad 44 \text{ MM SCF nat. gas/yr} \quad 1.3 \text{ MM gal propane/yr}} \leq 1.00?$$
  
4. Has the owner/operator maintained, available for inspection, site-wide records of monthly fuel consumption for each consecutive 12-period for the past 5 years? -----  Yes  No

**GENERAL CONDITIONS**

(check  only one box for each question)

1. Has the owner or operator allowed the circumvention of any air pollution control device, or allowed the emission of air pollutants without the proper operation of all applicable air pollution control devices? -----  Yes  No
2. Does the owner or operator:
  - a. Maintain the authorized facility in good condition? -----  Yes  No
  - b. Ensure that the facility maintains its eligibility to use the air general permit and complies with all terms and conditions of the air general permit? -----  Yes  No
3. Has the owner or operator allowed you, as the duly authorized representative of the Department, access to the facility at reasonable times to inspect and test and to determine compliance with the air general permit and Department rules? -----  Yes  No

**RELOCATABLE PLANT:**

(check  only one box for each question)

- 1. Is the facility: stationary ; relocatable ; or consisting of both stationary and relocatable  concrete batching and/or nonmetallic mineral processing plants? *(If only stationary, skip the following question 2.)*
- 2. Is the relocatable concrete batching plant used to mix cement and soil for onsite soil augmentation or stabilization? -----  Yes  No  
*(If YES, answer 2. a and 2. b; if NO, answer question 2.c below. )*
  - a. Did the owner or operator notify the appropriate Department or Local Air Program by telephone, e-mail, fax, or written communication at least one business day prior to changing location? -----  Yes  No
  - b. Did the owner or operator transmit a Facility Relocation Notification Form [DEP No. 62-210.900(6)] to the Department or Local Air Program no later than five business days following a relocation? ----  Yes  No
  - c. Did the owner or operator transmit a Facility Relocation Notification Form [DEP No. 62-210.900(6)] to the appropriate Department or Local Air Program at least five business days prior to relocation? ---  Yes  No
- 3. If the relocatable plant was co-located at a facility with a separate air construction or air operation permit, and the relocatable batch plant is not included as an emissions unit in that separate permit:
  - a. Was the relocatable batch plant being used for a non-routine purpose (i.e, there is no repeated usage)?  Yes  No  
If YES, what was the purpose?
  - b. Were records kept by the owner/operator to indicate how long it was co-located at the permitted facility? -----  Yes  No  
If YES, were any periods more than 6 months in duration? -----  Yes  No

**CHANGES**

(check  only one box for each question)

Administrative Changes:

- 1. Were there any changes in the name, address, or phone number of the facility or authorized representative not associated with a change in ownership or with a physical relocation of the facility or any emissions units or operations comprising the facility; or any other similar minor administrative change at the facility? ----  Yes  No
- 2. If YES, did the facility provide written notification within 30 days of the change? -----  Yes  No

New or Modified Process Equipment or Change in Ownership:

- 3. Since the last registration form submittal has there been
  - a. Installation of any new process equipment? -----  Yes  No
  - b. Alterations to existing process equipment without replacement? -----  Yes  No
  - c. Replacement of existing equipment with equipment that is substantially different? -----  Yes  No
  - d. A change in ownership? -----  Yes  No
- 4. If the answer to any question 3a. – d. is YES, was a new registration form and the appropriate fee submitted 30 days prior to the change? -----  Yes  No

Ilka Bundy and Omar Horta

2/6/2014

Inspector's Name (Please Print)

Date of Inspection

2/6/2015

Inspector's Signature

Approximate Date of Next Inspection

**COMMENTS:** Inspectors, Ilka Bundy and Omar Horta, met with Daniel S. McQuaig, Operations, Ready Mix Concrete for A1 Block, and Sara Greivell, consultant, to audit the visible emissions test on the ready-mix plant. Ilka Bundy conducted the morning audit on the cement loading while Omar Horta audited the compliance test on the fly ash loading during the afternoon. According to Mr. McQuaig, the tanker took over an hour to pump the cement into the silo at a rate of 21.8 tons per hour. Last year's test had a loading rate of 30.9 tons per hour. An explanation was sent to the inspector on 2/10/14 stating the aerators and vibrators need to be replaced and the tanker may need to be repaired. No visible emissions were observed from either tanker loading process. The ready-mix load-out area had some fugitive dust for certain trucks, while the front-mounted ready-mix trucks had no visible emissions. According to Mr. McQuaig, the load-out area will be refurbished within the next three months to minimize dust from

the load-out process. Ilka Bundy told Mr. McQuaig that she will return in three months to verify the repairs have been made. The visible emissions only lasted about two minutes, therefore a V.E. was not conducted. The loading rate for the fly ash tanker was 29.98 tons per hour. All remaining emission units will be tested in the near future per the consultant.