



CONCRETE BATCHING PLANT



COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 0950134	DATE: <u>11/28/2012</u>	ARRIVE: <u>9:50 AM</u>	DEPART: <u>11:40 AM</u>
FACILITY NAME: CEMEX-EAST ORLANDO READY-MIX PLANT			
FACILITY LOCATION: 7244 Narcoossee Rd ORLANDO 32822-5534			
OWNER/AUTHORIZED REPRESENTATIVE: SIGURD BO*		PHONE: (407)841-8409	
Email:		Mobile: (407)312-7119	
CONTACT NAME: SIGURD BO*		PHONE: (407)841-8409	
Email:		Mobile: (407)312-7119	
ENTITLEMENT PERIOD: 10/12/2008 / 10/12/2013 (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): David Ramer
 Brief Notes: Batching Personnel

2. Is the Authorized Representative still SIGURD BO*? ----- 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 SIGURD BO*? ----- 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

1-CCB Plant-split silo, compartment #1, w/silotop baghouse 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: 9/8/11
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: 9/8/11
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? 31.8 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? 27 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? 188 tons/hour. What was the batching duration? 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? 27.06 tons/hour.

Emissions Unit Section

2-CCB Plant split silo, compartment #2, w/silo-top baghouse 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: 12/8/10
2. Past Visible Emissions (VE) tests:
a. Was a VE test performed within each of the past 4 calendar years?
b. Has a VE test been performed yet within the current calendar year?
c. If first year of operation, was a VE test performed within 30 days of commencing operation?
d. Date of last VE test: 12/8/10
e. Was the VE test report filed with the compliance authority no later than 45 days after the test?
f. Did the report state the actual silo loading rate during emissions testing?
g. What was the actual silo loading rate? 43.1 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?
i. Did the test report state the actual batching rate during emissions testing?
j. What was the actual batching rate?
k. Did the emissions unit demonstrate compliance with the 5% opacity limit during the last VE test?--

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?
a. Was the visible emissions test conducted according to EPA Method 9?
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?
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?
e. If silo loaded, was the minimum loading rate of 25 tons/hour achievable in practice?
f. What was the silo loading rate? 27 tons/hour
g. Are emissions from the weigh hopper (batcher) operation controlled by the silo dust collector?
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?
2) What was the batching rate? 188 tons/hour. What was the batching duration? 6 minutes.
2. Was a visible emissions test conducted by the inspector for this unit during this site visit?
a. Was the visible emissions test conducted according to EPA Method 9?
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?
d. What was the process rate? 27.06 tons/hour.

Emissions Unit Section

3 –CCB Plant flyash/slag silo, w/silotop baghouse subject to 5% Opacity Limit

PART I: FILE REVIEW PRIOR TO INSPECTION

(check only one box for each question)

1. Date of last inspection: 9/8/11
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: 9/8/11
 - 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? 27 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? 27 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? 188 tons/hour. What was the batching duration? 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? 26.84 tons/hour.

Emissions Unit Section

4 –CCB Plant-fully enclosed weigh hopper w/fabric filter bag subject to Reasonable Precautions

PART I: FILE REVIEW PRIOR TO INSPECTION

(check only one box for each question)

- 1. Date of last inspection: 9/8/11
- 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)? _____

Emissions Unit Section

5-CCB Plant-truck loadout w/shroud & central dust collector 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: 9/8/11
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: 9/8/11
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? [] Yes [X] No
g. What was the actual silo loading rate? _____ 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? [] Yes [] No [X] 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? _____ 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? 188 tons/hour. What was the batching duration? 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? 188 tons/hour.

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
$$\frac{\text{gal diesel/yr}}{275,000 \text{ gal diesel/yr}} + \frac{\text{gal gasoline/yr}}{23,000 \text{ gal gasoline/yr}} + \frac{\text{MM SCF nat. gas/yr}}{44 \text{ MM SCF nat. gas/yr}} + \frac{\text{MM gal propane/yr}}{1.3 \text{ MM gal propane/yr}} \leq 1.00?$$

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

11/28/2012

Inspector's Name (Please Print)

Date of Inspection

12/31/2013

Inspector's Signature

Approximate Date of Next Inspection

COMMENTS: Ilka Bundy, inspector, met with Zachary Beatty of Beatty Environmental Services, LLC, on November 28, 2012, to audit the visible emission tests on EUs 001, 002, 003, and 005. EU 004 is a fully enclosed weigh hopper located in a small building. Therefore, a visible emissions test is not required for this EU. No PM was observed coming out of the weigh hopper building during the inspection. EU001 had a loading rate of 27.06 TPH and an observed opacity of zero percent. EU002 had a loading rate of 27.06 TPH and an observed opacity of zero percent. The tanker split its load into the split silo, which includes EU001 and EU002. EU003 had a loading rate of 26.87 TPH for the fly ash silo. The observed opacity was zero percent. EU005 is a central dust collector for the Ready-Mix truck load-outs. Each R-M truck gets approximately 37,746 pounds of material loaded into their truck in 6 minutes. This equates to approximately 188 TPH batching rate. It should be noted that fugitive emissions were coming

out of the top of the cement tanker, #8700, at one of the filling ports. The inspector notified the tanker driver and Sig Bo of the issue. The fugitive emissions were violating Orange County's ordinance and the general permit conditions. Sig Bo called Cemex's transportation division to make sure all of their tankers filling ports are not leaking before coming back to Orange County. The PM was not leaving the property.