

# GCP-5 Concrete Batch Plant – Compliance Assessment Checklist

Date: \_\_\_\_\_

<b>Company:</b>			
<b>Facility Address:</b>			
<b>Facility:</b>		<b>Permit No.:</b>	
<b>Is facility co-located with another facility?</b> Aggregate Facility _____ Hot Mix Asphalt Plant _____ <b>If co-located, are production limits met?</b> Yes ___ No ___ Aggregate Facility ≤ 7800 TPD Hot Mix Asphalt Plant ≤ 7800 YPD			
<b>Facility Representative &amp; Title:</b>		<b>Phone:</b>	
<b>SBEAP Staff:</b>			
<b>FACILITY REVIEW: Process equipment, emission sources, controls, and site setbacks</b>			
<b>Property Review</b>		<b>Notes:</b>	
<b>Y</b>	<b>N</b>		Restricted area is properly enclosed as represented in the application
<b>Y</b>	<b>N</b>		Plot plan is accurate
<b>Y</b>	<b>N</b>		Process flow sheet is correct
<b>Concrete Batch Plant</b>		<b>Notes:</b>	
<b>Y</b>	<b>N</b>		Equipment matches latest registration or substitution/addition form (attached)
<b>Y</b>	<b>N</b>		Cement silo has audible & visual alarms
<b>Y</b>	<b>N</b>		Alarms activate before silo is 95% full
<b>Y</b>	<b>N</b>		Filter efficiency: (circle one) <ul style="list-style-type: none"> <li>• 95% for sock filter</li> <li>• 99.9% for cartridge</li> <li>• 99.9% bag house/fabric</li> </ul>
<b>Y</b>	<b>N</b>		Engine exhaust is vented vertically
<b>Y</b>	<b>N</b>		Heater exhaust is vented vertically
<b>Y</b>	<b>N</b>		Restricted area 14-yard setback is met
<b>Y</b>	<b>N</b>	UTME: _____ UTMN: _____	
<b>Y</b>	<b>N</b>	UTM matches application coordinates	
<b>Truck Loading Controls</b>		<b>Notes:</b>	
<b>Y</b>	<b>N</b>		At least 15% of mix water is put into trucks before adding dry ingredients
<b>Y</b>	<b>N</b>	Truck mix facility: Cementaceous materials (cement, fly ash, ground slag, silica fume etc.) are put into a concentric boot surrounded by an aggregate curtain	

**Acronyms**

AQB – Air Quality Bureau

CO – Carbon Monoxide

EPA – US Environmental Protection Agency

NOx – Oxides of Nitrogen

GCP – General Construction Permit

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FACILITY REVIEW: Emission sources, controls, and site setbacks (continued)			
<b>Material Stockpiles</b>		<b>Notes:</b>	
Y	N		Material stored in 3-walled bunker
Y	N		Only washed sand is used
Y	N		Dust from sand & aggregate piles is controlled
Y	N		Restricted area 14-yard setback is met
<b>Haul Roads</b>		<b>Notes:</b>	
Y	N		Length of haul road is $\leq$ 1-mile
			If Area of Operations (AOO) perimeter is $<$ 1/4 mile from occupied structures, <u>one</u> of these controls is used (circle one): → Surfactant → Pave & sweep within 27 yards of AOO
Y	N		If Area of Operations perimeter is $\geq$ 1/4 mile from occupied structures: → Base coarse & water is used at a minimum → Water truck is available on-site or by mobile service
Y	N		Restricted area 14-yard setback is met
<b>Setbacks for Area of Operations to Occupied Structure &amp; Class I Area</b>			
		Area of Operations perimeter to occupied structure is $<$ 1/4 mile or $\geq$ 1/4 mile (circle one) UTME: _____ UTMN: _____	
Y	N	UTM matches application coordinates	
		Class I Area perimeter is at least 3 miles from Area of Operations perimeter UTME: _____ UTMN: _____	
Y	N	UTM matches application coordinates	
<b>Visible Emissions:</b> Permit limit is no more than 5-minutes in any 2 consecutive hours using EPA Method 22			
Y	N	Permit limits have been met for visible emissions that cross the restricted area	
Y	N	Silo filter meets visible emissions limit	
<b>Notes:</b>			

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RECORDS REVIEW: Permit and other documents, notifications, and compliance tests			
<b>Copies of Documents Kept On-site</b>		<b>Notes:</b>	
Y	N		GCP-5 permit
Y	N		Registration application(s)
Y	N		Relocation application(s)
Y	N		Approval letter(s)
Y	N		Records of scheduled maintenance activities performed
Y	N		Copies of the manufacturer's (or applicant's proposed) maintenance and operating requirements
Y	N		Fuel delivery records that include fuel type and number of gallons purchased
Y	N		Copies of compliance test documents
Y	N		Records are on-site or at a local office for at least 2-years after collection
<b>Notifications to Air Quality Bureau</b>		<b>Notes:</b>	
Y	N		Initial start-up submitted within 15-days
Y	N		Have there been any equipment changes?
Y	N		Have there been any changes to production rates?
Y	N		Have there been any changes to operating hours?
Y	N		Have there been any changes to the length of the haul road?
Y	N		Have there been any changes to facility contacts?
Y	N		Have there been any changes in ownership?
Y	N	Has your small business status changed due to an increase in annual production rate and total engine capacity, or number of employees (>10)?	
Y	N	Notified within 24 hours by phone or fax & written notification submitted within 10 days: When excess emissions from control equipment malfunctions or visible emissions limit exceeded when crossing restricted area perimeter	
<b>Initial Compliance Tests – Engines ≥ 180 hp</b>		<b>Notes:</b>	
Y	N		Completed within 60 days of initial start-up
Y	N		Test methods used were: → NOx & CO - EPA Methods <u>or</u> portable analyzers authorized by AQB → Opacity - EPA Method 9
Y	N		Test protocols submitted to AQB for approval at least 30-days before test date
Y	N		Test results and protocols submitted to AQB no later than 45-days after test completed
Y	N		Test passed for NOx, CO, & opacity

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RECORDS REVIEW: Compliance tests and daily recordkeeping (continued)			
<b>Initial Compliance Tests – Heaters &gt; 5 MMBtu</b>		<b>Notes:</b>	
Y	N		Completed within 60 days of initial start-up
Y	N		Test methods used were: → NOx & CO - EPA Methods <u>or</u> portable analyzers authorized by AQB → Opacity - EPA Method 9
Y	N		Test protocols submitted to AQB for approval at least 30-days before test date
Y	N		Test results and protocols submitted to AQB no later than 45-days after test completed
Y	N		Test passed for NOx, CO, & opacity
<b>Initial Compliance Tests – Silo Filter</b>		<b>Notes:</b>	
Y	N		Completed within 60 days of initial start-up
Y	N		Test method used was EPA Method 22
Y	N		Test protocols submitted to AQB for approval at least 30-days before test date
Y	N		Test results and protocols submitted to AQB no later than 45-days after test completed
Y	N		Test passed for visible emissions
<b>Recordkeeping – Daily, monthly, or by activity</b>			
Y	N	Daily hours of operation are recorded	
Y	N	Daily operating hours match application	
Y	N	Daily total production (yards) is recorded	
Y	N	Daily production matches application	
Y	N	Maximum daily production is ≤ 360 yards	
Y	N	12-month rolling total production is calculated & recorded	
Y	N	Number of haul truck trips per day is recorded (includes materials delivery & product)	
Y	N	Haul road controls: Amount & frequency of water used is recorded	
Y	N	Haul road controls: Amount & frequency of base course used is recorded	
Y	N	Haul road controls: Amount & frequency of surfactant used is recorded (if applicable)	
Y	N	Haul road controls: Frequency of sweeping paved roads is recorded (if applicable)	
Y	N	Cement silo: During loading, the pressure (inches of water) across the silo filter is measured using a differential pressure gauge & the results are recorded	
Y	N	Cement silo: Manufacturer’s recommended pressure drop of _____ inches is being met (If manufacturer’s specifications are not available, then the pressure drop is within the operating range established by Method 22 for no visible emissions during initial compliance tests)	
<b>Notes:</b>			

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