

# **Utah Division of Air Quality New Source Review Section**

### Form 14 Concrete Batch Plants

Company	
Site/Source_	 _
Date	

Process Information								
Type of batching:     □ Wet (Rotary mixing trucks)	Raw materials that will be handled:     □ coarse aggregate □ portland cement							
☐ Dry (Flat bed trucks with segregated material	washed							
compartments)  ☐ Central mix (Batching at plant site)	□ fine aggregate □ fly ash washed □ lime							
☐ Other (specify)	□ admixtures □ other (specify)							
Maximum plant production rate and operating hours:     yd³/yr	Water sprays will be used at the following locations:     Yes No							
yd³/hr	□ Stockpiles □ □							
hrs/yr	☐ Aggregate bins ☐ ☐							
hrs/day	☐ Conveyor transfer points ☐ ☐							
Cement received by:     □ Rail Car	Portland cement is transferred from delivery vehicle to cement storage silo by (give maximum capacity in lb/hr):							
☐ Truck	□ Pneumatic conveying system							
☐ Other (specify)	□ Elevator							
(1)	□ screw							
	□ bucket							
	□ Other (specify)							
7. A baghouse is used on the cement silo vent:	Cement is transferred from cement storage silo to cement surge hopper by (maximum feed rate lb/hr):							
☐ Yes (submit Form 10)	□ Pneumatic transfer system							
□ No	☐ Gravity feed							
	□ Screw Conveyor							
	□ Bucket elevator							
	□ Other (specify)							

### Form 14 - Concrete Batch Plants (Continued)

9. Cement weigh hopper is loaded by:  Gravity feed Pneumatic conveyor Screw conveyor Other (specify)	<ul> <li>10. The cement weigh hopper will be vented to the:</li> <li>Cement silo</li> <li>Baghouse (submit Form 10)</li> <li>Discharge spout</li> <li>Other</li></ul>				
11. Aggregate received by:  Rail car Truck  Other (specify)	12. If aggregate storage bins are used, how is aggregate transferred to storage bin:  Covered conveyor belt Length:  Uncovered conveyor belt Length:  Other:				
13. Fly ash received by:  Rail car Truck Other (specify)  15. Admixture ingredients:	14. Fly ash is transferred from deliver vehicle to storage (maximum capacity in lb/hr):  □ Pneumatic conveying system □ Elevator □ screw □ bucket  16. Admixtures received by: □ Rail car				
	□ Truck □ Other (specify)				
17. Admixtures are stored in:	18. Admixtures are transferred from delivery vehicle to storage (maximum capacity in lb/hr):  □ Pneumatic conveying system □ Elevator (screw)				
19. The batch drop point to the truck or central mixer will be controlled to prevent dust emissions by:  Shroud with exhaust air suction to baghouse (submit Form 10 also)  Flexible discharge spout  Other type of control device (explain in detail)					

## Form 14 - Concrete Batch Plants (Continued)

20. Equipment											
Qty	Туре	Specifications									
	Wet Batch Plants	Capacity	yd³/hr	Manufacturer		Model	Serial Number				
	Central Mix Batch Plant	Capacity	yd³/hr	Manufacturer		Model	Serial Number				
	Front End Loader	Usage	hr/day	Horsepower							
	Hoppers	Controlled by:									
	Aggregate Conveying System	Covered: Length	ft	Uncovered: Length	_ ft		Other:				
	Cement Conveying System	Pneumatic:	lb/hr	Screw		Other:	-				
	Elevators	Screw	lb/hr	Bucket:	_ lb/hr						
	Fly Ash Storage Silos	Volume	ft <sup>3</sup>	Controlled by:		Specifications:					
	Cement Storage Silos	Volume	ft <sup>3</sup>	Controlled by:	y: Specifications:		ns:				
	Other Storage Silos	Material:		Volume ft <sup>3</sup> Controlled by:			y:				
	Coarse Aggregate Storage Piles	Size:	yd <sup>3</sup>								
	Fine Aggregate Storage Piles	Size:	yd <sup>3</sup>								
	Other Storage Piles	Material:		Size:	yd <sup>3</sup>						
	Storage Bins	Material:		Size:	ft <sup>3</sup>						
	Mixers	Volume:	yd³								
	Generators	Size:		Fuel:		Hrs/day:	Days/yr:				
Emissions Calculations (PTE)											
21. Calculated emissions for this device											
	PM <sub>10</sub> Lbs/hr				Lbs/hr						
	NO <sub>x</sub> Lbs			SO <sub>x</sub> Lbs/hr							
	COLbs/			VOCLbs/hr Tons/yr							
HAPsLbs/hr (speciate)Tons/yr (speciate) Submit calculations as an appendix.											

#### Instructions Form 14 - Concrete Batch Plants

#### NOTE: 1. Submit this form in conjunction with Form 1 and Form 2.

- 2. To relocate a concrete batch plant, which is already permitted submit Form 15b Notice of Temporary Relcation of Portable Equipment.
- 3. Call the Division of Air Quality (DAQ) at **(801) 536-4000** if you have problems or questions in filling out this form. Ask to speak with a New Source Review engineer. We will be glad to help!
- 1. Mark the appropriate box for the kind of batching done at the facility.
- 2. Mark the appropriate box for kind of materials to be used.
- 3. Indicate the plant production rate and operating hours.
- 4. Indicate where water sprays will be used for emission controls.
- 5. How is the cement received?
- 6. How is the cement transferred from delivery vehicle to the silo. Indicate the maximum rate at which it can be unloaded.
- 7. Indicate whether or not a baghouse is used. If yes, also submit Form 10 with this application.
- 8. How is the cement transferred from the solo to the hopper and at what rate?
- 9. How is the cement weigh hopper loaded?
- 10. To where is the cement weigh hopper vented?
- 11. How is the aggregate received?
- 12. How is the aggregate transferred to storage bins?
- 13. How is fly ash received?
- 14. How is fly ash transferred to storage?
- 15. What admixture ingredients are used?
- 16. How are the admixture ingredients received?
- 17. How are the admixture ingredients stored?
- 18. How are admixtures transferred?
- 19. What is the control on the batch drop point to the truck or central mixer? If a baghouse is used, also submit Form 10.
- 20. Indicate the number and type of equipment that will be used in the facility. Give specifications on the individual pieces of equipment. Attach additional sheets of paper, if necessary.
- 21. Supply calculations for all criteria pollutants and HAPs. Use AP42 or Manufacturers data to complete your calculations.