Concrete Batcher Questionnaire

RICE LAKE WEIGHING SYSTEMS

GENERAL INFORMATION:

1. Primary units for batching controller: ❑ Imperial ❑ Metric
2. Plant batch size requirements (cubic units): _____ Maximum _____ Minimum
3. Aggregate scale _____ Capacity × _____ Divisions

   Cement scale _____ Capacity × _____ Divisions

5. Weigh Ticket information (example shown), include any custom information needed:

```
Ticket #: 3
Customer: Rice Lake Weighing Systems
Truck #:  1258

Mix ID:   1
Mix Name: Test
Quantity: 1.0 CY

Ingredient          Target       Actual       %ERROR
-----------------------------------------------------
Sand                 95 lb      7930 lb    8247.4%
Stone2              196 lb       210 lb       7.1%
Stone1              291 lb      2810 lb     865.6%
Cement              100 lb       250 lb     150.0%
FlyAsh              200 lb       250 lb      25.0%
Admix 1              10 oz        11 oz      10.0%
Admix 2               5 oz         7 oz      40.0%
Admix 3               6 oz         6 oz       0.0%
Admix 4               7 oz         6 oz     -14.3%
Water                20 gal       20 gal      0.0%

04:08 AM 12/13/2021
```

NOTE: When it comes to concrete batching systems, software modifications are often necessary. Some common modifications are available as options. These questions will help us determine if the standard product will need custom software modifications.

6. Batching tracking required: ❑ Inventory usage ❑ Current inventory

INPUT REQUIREMENTS:

Please indicate all the applicable inputs for this system.

- ❑ Admix 1 Bottle Empty
- ❑ Admix 2 Bottle Empty
- ❑ Admix 3 Bottle Empty
- ❑ Admix 4 Bottle Empty
- ❑ Water Pulse Meter
- ❑ Aggregate Gate Limit Switch
- ❑ Water Gate Limit Switch
- ❑ Air Pressure OK
- ❑ Admix 1 Pulse Meter
- ❑ Admix 2 Pulse Meter
- ❑ Admix 3 Pulse Meter
- ❑ Admix 4 Pulse Meter
- ❑ Conveyor Running
- ❑ Cement Gate Limit Switch
- ❑ Manual Mode
- ❑ E-Stop

Any additional 120V or 240V input requirements not mentioned in the previous list (such as sensors, switches, limit switches, photo eyes)? Please specify any extra requirements here:

OUTPUT REQUIREMENTS:

Please indicate all the applicable outputs for this system.

- ❑Cement 1 Feed
- ❑ Cement 2 Feed
- ❑ Bin 1 Feed
- ❑ Bin 2 Feed
- ❑ Bin 3 Feed
- ❑ Bin 1 Vibrator
- ❑ Bin 2 Vibrator
- ❑ Bin 3 Vibrator

- ❑ Cement 1 Air
- ❑ Cement 2 Air
- ❑ Water Fill
- ❑ Cement Discharge Gate Open
- ❑ Cement Discharge Gate Close
- ❑ Aggregate Discharge Gate Open
- ❑ Aggregate Discharge Gate Close
- ❑ Cement Hopper Vibrator
- ❑ Aggregate Hopper Vibrator
- ❑ Conveyor Start/Run
- ❑ Dust Collector 1
- ❑ Water Discharge
- ❑ Dust Collector 2
- ❑ Alarm/Horn
- ❑ Admix 1 Fill
- ❑ Admix 2 Fill
- ❑ Admix 3 Fill
- ❑ Admix 4 Fill
- ❑ Admix 1 Discharge
- ❑ Admix 2 Discharge
- ❑ Admix 3 Discharge
- ❑ Admix 4 Discharge

Are there any additional 120V or 240V output requirements that were not covered in the previous list (including but not limited to air solenoids, vibrators, aerators, motor starters, horns, lights)?
Please specify any extra requirements here:

WEIGHING AND MOVING AGGREGATES AND CEMENTS:

1. Does the plant use the same weigh hopper to weigh aggregates and cements? ❑ Yes ❑ No
   (If yes, explain order of adds)

2. Does the plant weigh aggregate or cement by loss in weight? ❑ Yes ❑ No
   (surge/holding hopper is on load cells)

3. What is the total number of weigh hoppers for the plant? _____ Aggregate _____ Cement

4. Apart from a feed gate and gravity, does the aggregate require any equipment to move it from a surge bin into the weigh hopper?

5. List equipment used to move aggregate into the truck or mixer:

6. List equipment used to move cement from silo into weigh-hopper:

7. List equipment used to move cement from weigh-hopper into the truck/mixer:

8. **Aggregate** discharge gate only requires power to open and closes automatically when power is removed?
   ❑ Yes ❑ No (inching gate)
   Limit switch for aggregate discharge gate? ❑ Yes ❑ No

9. **Cement** discharge gate only requires power to open and closes automatically when power is removed?
   ❑ Yes ❑ No (inching gate)
   Limit switch for aggregate discharge gate? ❑ Yes ❑ No

ADMIXTURES AND WATER

1. Water: ❑ Weighed or ❑ Metered

2. How many water supplies?

   Separate water meters? ❑ Yes ❑ No
   Describe:

3. Does the process use more than **two** water additions,
   Front- and Tail-water? ❑ Yes ❑ No
   Describe:

4. If a water reservoir is used, does it have only one (1) discharge valve?

   If so, how is the wash down water added?

5. How and when is water metered/added to the mix?

   ❑ Single, separate piece of equipment

   ❑ Other:

6. How many admixtures does this system use? (Note: four is the default maximum)

7. Is a single separate piece of equipment used to meter and discharge the admixture?

   If so, how and when is this device activated?

DRAWING OF PLANT

A drawing helps show system integration and design. Please include the location of all moving parts (gates, conveyors, augers), sensors, load cells, bins, silos, water and admixture lines.