**DRY CHEMICAL FEED SYSTEM CHECKLIST**

**12VAC5-590-860 C**

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| Project Name: |       |
| Reviewed By: |       | Date: |       |

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| --- |
| GENERAL- HOUSING & SAFETY PROVISIONS |
| Describe reasons for this treatment: Click or tap here to enter text. |
| Chemical name/type: Click or tap here to enter text. |
| NSF maximum use level: Click or tap here to enter text. |  |
| Application point (appropriate?): Click or tap here to enter text. | Yes [ ]  No [ ]   |
| Location of feeders, piping layout, application points:* Feeders close to point of application
* Feeders, piping, injectors accessible
 | Yes [ ]  No [ ]  Yes [ ]  No [ ]  |
| Floors impervious, slip-proof, slope > 1/8-in/ft | Yes [ ]  No [ ]  |
| No direct connection between sewer & drain or overflow | Yes [ ]  No [ ]  |
| Facilities provided for washing face, gloves, protective equipment | Yes [ ]  No [ ]  |
| Electrical equipment provided for activated carbon meets National Electric Code for Class II, Division 2, Group F hazardous location requirements, including NEMA enclosures type 3, 3S, 3SX, 3X, 5, 9, 12, 12K, or 13 | Yes [ ]  No [ ]  N/A [ ]  |
| Activated carbon stored away from strong oxidants (ozone, chlorine, permanganate)? | Yes [ ]  No [ ]  N/A [ ]  |
| Space for > 30 day supply (less if local supplier, conditions allow) | Yes [ ]  No [ ]  N/A [ ]  |
| FEED EQUIPMENT |
| Where chemical feed is necessary for the treatment of the source water, such as chlorination, coagulation, or other essential processes :* Minimum 2 feeders required
* 100% Standby capacity unit, or capacity with largest unit out of service
 | Yes [ ]  No [ ]  N/A [ ] Yes [ ]  No [ ]  N/A [ ]  |
| Feeder able to supply chemical at an accurate rate throughout the range of feed at all times.  | Yes [ ]  No [ ]  |
| DRY CHEMICAL FEEDERS: |
| Measure chemicals volumetrically or gravimetrically | Yes [ ]  No [ ]  |
| Volumetric feeders provided with weigh scales considered? | Yes [ ]  No [ ]  |
| Anti-bridging solution considered if appropriate? | Yes [ ]  No [ ]  N/A [ ]  |
| Effective dissolution in the solution tank? | Yes [ ]  No [ ]  |
| Gravity feed from solution tank | Yes [ ]  No [ ]  N/A [ ]  |
| Enclosed, fugitive dust emissions prevented* Vacuum / pneumatic equipment or closed conveyors
* Special enclosures for empty containers
* Exhaust fans & dust filters, bins under neg. pressure
 | Yes [ ]  No [ ]  N/A [ ] Yes [ ]  No [ ]  N/A [ ] Yes [ ]  No [ ]  N/A [ ]  |
| CONTROLS |
| Manual or automatic control | Manual [ ]  Auto [ ]  Both [ ]  |
| Manual startup available | Yes [ ]  No [ ]  |
| If Q not constant, proportional chemical feed | Yes [ ]  No [ ]  N/A [ ]  |
| Automatic controls provided with alarms & recorders | Yes [ ]  No [ ]  N/A [ ]  |
| DISSOLVING TANK (IF INCLUDED) |
| Construction material suitable for contents | Yes [ ]  No [ ]  |
| Continuous agitation of slurries | Yes [ ]  No [ ]  N/A [ ]  |
| SOLUTION, SLURRY FEED LINES |
| Cleanable, scale formation & deposition prevented | Yes [ ]  No [ ]  |
| Freeze protection | Yes [ ]  No [ ]  |
| Durable; Corrosion resistant/potential reduced | Yes [ ]  No [ ]  |
| Vacuum relief, air gap, or other device provided to prevent siphoning of chemical  | Yes [ ]  No [ ]  |
| PROCESS WATER SUPPLY FOR DISSOLUTION, DILUTION, TRANSPORT: |
| Safe & approved source | Yes [ ]  No [ ]  N/A [ ]  |
| Provide one of the following: Air gap; RPZ; Vacuum relief | Yes [ ]  No [ ]  N/A [ ]  |
| Adequate supply and pressure | Yes [ ]  No [ ]  N/A [ ]  |
| Treated for hardness (where necessary) | Yes [ ]  No [ ]  N/A [ ]  |
| SPECIAL SERVICE |
| Fluoride feeders provided with scales and loss-of-weight recorders (12VAC5-590-930 D) | Yes [ ]  No [ ]  N/A [ ]  |

**Comments:**

Click or tap here to enter text.

**Calculations:**

Click or tap here to enter text.