**DRY CHEMICAL FEED SYSTEM CHECKLIST**

**12VAC5-590-860 C**

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

|  |  |
| --- | --- |
| 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.