

DOCUMENT MANAGEMENT SYSTEM

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Doc# NSCS-M-P-7091-14
 Title: Anti-Foam at Outfall 104
 Issue Dt: 12/17/2002
 Revision Dt: 07/23/2018 Review Interval: 12
 Cat: Quality Doc Type: SOP
 Auth:
 Desc: Anti-Foam at Outfall 104
 Loc: Midwest - Utilities-Midwest - Plant Maintenance-Midwest-Gary Works

STEPS**Process Overview****When to Apply Anti-Foam****Make Up of Anti-Foam****Anti-Form Bulk Storage Tank****Specific Gravity****Bulk Tank Volume****PROCEDURES**

The various soaps, cleaners and surfactants used on the production units sometimes causes foam to be produced on the surface of the effluent leaving Outfall 104. The NPDES permit requires that the treated effluent be free of visible foam. As such, anti-foam is applied on an as-needed basis to the effluent channel prior to Outfall 104.

Anti-foam should be applied to the effluent any time 24 hours/day foam is visible at the effluent channel prior to Outfall 104. When the Operator checks Outfall 004 the surface of Burns Waterway should be checked for foam.

Anti-foam is made up by mixing a two gallon pail of anti-foam with one drum of water. The mixed solution can be applied by the pump aided by carrier water. If the raw anti-foam looks weak, start the anti foam bulk storage tank recirculation pump in hand and allow it to mix the tank for two hours. Also, notify the Shift Manager to have the ERT's check the automatic timer.

The anti-foam bulk storage tank has an automatic recirculation pump on it. In the automatic mode, the pump and timer mixes the bulk tank keeping the active products well mixed. If the auto system is not working the tank recirculation pump should be run for two hours once per day in hand.

Inventory control in the bulk storage tank is handled by the anti-foam supplier.

The specific gravity of [REDACTED]

[REDACTED]

[REDACTED]

The [REDACTED] is stored in a 1,000 gallon bulk storage tank. The tank is heat traced and insulated for winter weather.

- 100% = 1,000 gallons
- 50% = 500 gallons
- 20% = 200 gallons

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Consumption

At Outfall 104 [REDACTED] is fed as needed. A typical monthly consumption is [REDACTED]

Mixing of Chemtreat FO120

[REDACTED] should not be violently mixed with an electric mixer or pumped using a centrifugal pump. The base chemicals that make up the defoamer will turn into a jelly that can not be placed back into solution.

Always mix the [REDACTED] using a recirculation pump or gently rolling the tank with compressed air.

Spills

Contact the Manager. Follow the Environmental Department spill policies.

MSDS Sheets

MSDS sheets for the product are available in the Document Management system.

Corrective Actions

If the defoamer [REDACTED] is not working very well switch to [REDACTED] defoamer. [REDACTED] is available in pails, drums, or totes. It is mixed and handled exactly like the [REDACTED]

Any problems with the system should be reported to the on-shift craftsman.