

1. Procedure summary

This procedure outlines the method to start up and shut down the antifoam injection system for the DAF.

1.1. Related Procedures

Polymer Make-down Station Operations
Saturation Tank Operations
DAF Operations

CB-02-002-002
CB-02-005-003
CB-02-004-004

1.2. Procedure impacts and concerns

Safety	Failure to use antifoam can result in foam generation in the DAF creating an unsafe environment
Quality	Calibration of the antifoam feed system and monitoring of polymer usage will prevent excess polymer dosing. Avoid freezing of antifoam and store less than 115 degrees F or the antifoam will begin to separate in the tote.
Delivery	Antifoam should be delivered in totes at <10% and pumped directly from the tote for use.
Environmental	Antifoam can lead to high costs, spillage and overdosing of antifoam needs to be recorded to aid in process optimization. Failure to identify total number of batches of antifoam needed per day can lead to a significant amount of product loss if antifoam runs out.
Cost Compliance	N/A



1.3. Responsibilities and owners

Document Owner	Manage content and distribution	Timothy Langer
Process Owner	Responsible for content and process validation	Marcos Delgado
Plant Manager	Responsible for implementation and conformance	Rebecca White

2. Process

2.1. Process Diagram

Open

Uncontrolled Copy Unless Distribution
Number Recorded

Printed: 1/24/2022

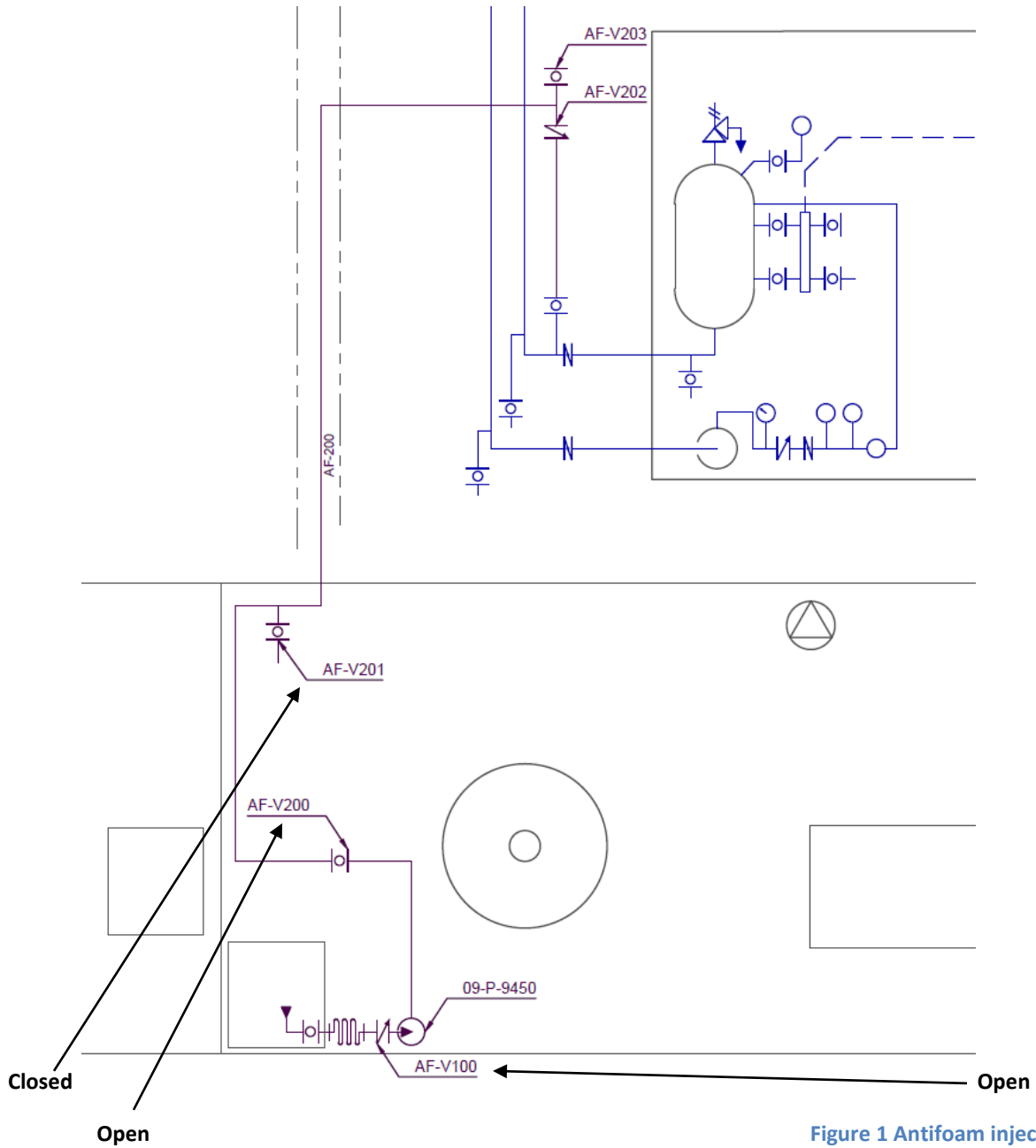


Figure 1 Antifoam injection station.

2.2. Antifoam Station Operations

Antifoam location tote location. See photo below.



2.3.1 Antifoam station Start up normal operations

Record the start time and dosing rate in the Harvest Record.

Check that the antifoam tote is properly connected to the antifoam pump. Make sure that there is enough antifoam to complete the run.

Verify that the tote outlet valve is closed and the following valves are in their correct operating position:

AF-V100 is open

AF-V202 is open

AF-V200 is open

AF-V201 is closed

PF-V301 is closed

The Plant PLC interface HMI located in the maintenance building controls the dosing rate of polymer into the DAF saturation tank recycle loop.

Verify power is ON to the antifoam pump.

Input the dosing rate in ppm at the HMI on the DAF Pressurization screen.

NOTE: If tote is low make sure that hose running into the tote is reaching the product.

NOTE: Antifoam is Injected into the DAF saturation tank recycle loop NOT the DAF feed inlet.

2.3.2 Antifoam Station Shutdown

2.3.2.1 The antifoam pump is controlled from the HMI. The antifoam pump can be turned ON or OFF.

3. Required documents

3.1. Input documents

Harvest Record

3.2. Output documents**4. Document control****4.1. Revision history**

R0 – Initial Release – Timothy Langer	March 7, 2012
R1 – Updated procedure – Marcos Delgado	September 4, 2012
R2- Updated- Leo Willis	January 8,2015

4.2. Document approval

<Name>

<Approval date>

4.3. Document reviewers

<Name>

<Last reviewed date>

<Name>

<Last reviewed date>

5. Risk analysis

<Risk name>

<Mitigation plan>

6.