#### Wax Sampling

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| Safety | * Molten wax at 70°C can cause minor burns. Refer to area safety rules for required personal protective equipment. * Wax is at 70°C * **Wax System is under a Nitrogen blanket** – note that if evidence of any gas is observed exiting the system, it should be considered an asphyxiant until proven otherwise. * **When doing work in the wax melt room, the overhead door must be open. Open the overhead door, before entering the wax melt room to take a sample. There is an oxygen analyzer (24XG) and a flashing amber light if there is low oxygen in the room. Do not enter the room while this is flashing.** * To obtain a sample from the Liquid Wax Storage Tank, the pump must be turned off to allow the supply line to drain if sampling from drain valve on pump suction line. * Refer to IPS, Fluoropolymers Specification Manual, MSDS for material information. |

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| Procedure Steps | * Wax samples are taken twice a week to determine wax quality. * Obtain necessary supplies and equipment. Sample bottle, Corkscrew tool, gloves. * Obtain wax samples from the Liquid Wax Storage Tank and Fresh Wax Melt Tank each Sunday and Wednesday. .  1. Sample point - Liquid Wax Storage Tank drain. Drain wax out of the drain tap into a waste drum until a clear representative flow is observed. If any gas is observed, consider it an asphyxiant unless proven otherwise and use caution. Ensure the area is well ventilated. 2. Obtain one 8oz sample of wax. 3. Sample point – Fresh Wax Melt Tank 4. Obtain one 8oz sample of wax.  * Normal wax sample labels should be automatically generated around 7 pm, but if they don’t (or to create additional samples) create the sample for wax in LIMS. (see below) * Send samples to the lab for color and BHT * Sample Characteristics – Developed color * Requirements – <= 0.06 * Sample Characteristics – BHT in wax * Requirements – 23.5 to 81.0 ppm * Return to normal operating conditions  1. Ensure sample point valves are closed 2. If necessary, re-establish nitrogen blanket 3. If necessary, start Storage Tank Pump |

#### Wax Sampling, Continued

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| Procedure Steps – LIMS | 1. Enter LIMS (a.k.a Sample Manager) 2. Select “Login Sample” from “My Tasks” or “Sample Login” from the “Common” drop down menu. 3. At the “Samples logged in” screen, click on the browse button (icon with a magnifying glass to the right of the blank box) 4. Search for the wax templates – WWR\_WAX and WWR\_WAX\_2 – highlight the sample template you are going to use and then click “Ok” 5. A pop-up window will appear requesting a “Product Batch Name>”.  Type in “WAX”.  Then click the “Login” button.  This will generate sample labels at the printer (WWFPLIMS28) in the FPDR Clave Control Room. |

End of topic