

March 25, 2020

RE: Guidelines for Prolonged Shutdown of Processing Equipment

To: FUJIFILM North America Corporation Imaging Division Customers,

As a result of the COVID-19 virus, we have received several requests for guidance regarding the temporary shutdown of film and paper processing equipment. Please see below.

At FUJIFILM, the health and safety of our employees and customers is of the upmost importance. We have implemented guidelines based on advice from health professionals and government mandates to help limit the exposure to the virus. We have strong contingency plans in place and robust technology that will allow us to run our support operations remotely.

Our Sensitized Products and Minilab Support Teams continue to function and we are happy to work with you to provide remote assistance as needed.

Minilab Equipment 1-800-669-3854

Sensitized Products Support (Paper & Chemistry): 1-800-788-3854

Customer Service (Consumable Ordering): 1-800-676-3854

Prolonged shutdown of film and paper processing equipment guidelines:

Please refer to processor manufacturer manuals for specific instructions. Recommendations and instructions for FUJIFILM Minilab equipment are attached.

Proper draining and cleaning of processing tanks prior to a prolonged shutdown will prevent issues caused by chemical oxidation and evaporation over time. The exact procedure will vary depending on the length of time the processing equipment will be inactive. Please refer to the chemical shelf life matrix below for guidance. For example, if you plan to shut down for three weeks and the developer you use has a working tank life of two weeks and a replenisher life of four weeks you would only need to dump and clean the working tank. However, if you anticipate your shut down will last five weeks, it is recommended to dump both the working and replenishment tanks.

The following recommendations are applicable for processing equipment that will be inactive for more than 30 days.

- Drain and thoroughly clean and rinse working tanks & racks.

- Dispose of chemistry using appropriate environmental procedures for silver recovery.
- Drain & rinse replenisher tanks (Replenisher does not contain any silver).
- Drain and properly dispose of waste tank contents. Rinse waste tanks with clean water.
- Remove filters and clean filter housing assembly. (Do not install new filters until startup).
- Fill replenisher tanks and working tanks with clean water.
- Circulate water through replenishment and circulation pumps to flush lines.
- Drain and rinse working tanks again.
- Fill working tanks with clean water.
- Disable startup timers for heaters.

Temporary Shutdown of Digital Mixers:

- Disconnect Concentrate Supply Boxes
- Drain all tanks
- Manually pump water through all pumps

Planning for startup of processing equipment:

- Check chemical inventory to insure that you will have enough concentrate and starter to mix fresh working and replenishment tanks. Refer to product information sheets located at fujifilmusa.com for specific mixing instructions.
- Be sure to verify that your in-stock chemicals will fall within the shelf life guidelines listed below to avoid mixing with expired chemistry.

C-41 Processing Chemicals

Product	Concentrate	Replenisher	Working Tank
Developer Replenisher NEG N1-R	Unopened: 18 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks
C-41 Developer Starter NEG N1-S	Unopened: 36 Mo. Opened: 12 Mo.	N/A	N/A
NC16 Negacolor Bleach Starter N2-S	Unopened: 36 Mo. Opened: 12 Mo.	N/A	N/A
NC16 Negacolor Bleach 3 Concentrate	Unopened: 24 Mo. Opened: 8 Weeks	4 Weeks	1 Week
Neg UNILEC LR N3-R Fixer Replenisher	Unopened: 18 Mo. Opened: 8 Weeks	4 Weeks	1 Week
NEG Universal N4-R Rinse Plus	Unopened: 24 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks

E-6 Processing Chemicals

Product	Concentrate	Replenisher	Working Tank
PRO6 First Developer Starter	Unopened: 36 Mo. Opened: 6 Mo.	N/A	N/A
PRO6 First Developer Replenisher	Unopened: 18 Mo. Opened: 4 Weeks	2 Weeks	2 Weeks
PRO6 Conditioner Plus & Replenisher	Unopened: 24 Mo. Opened: 4 Weeks	2 Weeks	2 Weeks
PRO6 Reversal Bath & Replenisher	Unopened: 24 Mo. Opened: 2 Weeks	2 Weeks	2 Weeks
PRO6 Bleach Starter	Unopened: 36 Mo. Opened: 12 Mo.	N/A	N/A
PRO6 Bleach Replenisher	Unopened: 24 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks
PRO6 Color Developer Starter	Unopened: 36 Mo. Opened: 6 Mo.	N/A	N/A
PRO6 Color Developer Replenisher	Part A/B Unopened: 18 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks
Universal Color Fixer & Replenisher	Unopened: 18 Mo. Opened: 8 Weeks	4 Weeks	1 Week
PRO6 Rinse Plus & Replenisher	Unopened: 24 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks

RA4 Processing Chemicals

Product	Concentrate	Replenisher	Working Tank
Digital RA Pro P1-R Developer Replenisher	Part A Unopened: 18 Mo. Part A Opened: 8 Weeks Part B Unopened: 18 Mo. Part B Opened: 8 Weeks	4 Weeks	2 Weeks
CP RA 100 Developer Regenerator	Part A Unopened: 24 Mo. Part A Opened: 16 Weeks Part B Unopened 18 Mo. Part B Opened: 8 Weeks Part C Unopened 24 Months Part C Opened: 16 Weeks	4 Weeks	2 Weeks
CP RA95 P1-R Developer Replenisher	Part A Unopened: 24 Mo. Part A Opened: 16 Weeks Part B Unopened 12 Mo. Part B Opened: 8 Weeks Part C Unopened 24 Months Part C Opened: 16 Weeks	4 Weeks	2 Weeks

Digital RA Pro LR P1-R Developer Replenisher	Part A Unopened: 18 Mo. Part A Opened: 8 Weeks Part B Unopened 18 Mo. Part B Opened: 8 Weeks	4 Weeks	2 Weeks
EC1 RA45 P1-R Developer Replenisher	Unopened: 12 Mo. Opened: 10 Days	4 Weeks	2 Weeks
NEG Universal N4-R Rinse Plus	Unopened: 24 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks
EC-RA P1-S Developer Starter	Unopened: 36 Mo. Opened: 12 Mo.	N/A	N/A
CP RA Developer Starter	Unopened: 36 Mo. Opened: 12 Mo.	N/A	N/a
CP RA LR P2-R Bleach Fix & Replenisher	Part A Unopened: 18 Mo. Part A Opened: 16 Weeks Part B Unopened 18 Mo. Part B Opened: 16 Weeks Part C Unopened 36 Months Part C Opened: 8 Weeks	4 Weeks	2 Weeks
EC RA LR P2-R Bleach Fix & Replenisher	Part A Unopened: 18 Mo. Part A Opened: 8 Weeks Part B Unopened 18 Mo. Part B Opened: 8 Weeks	4 Weeks	1 Week
Digital RA Pro P2-R Bleach Fix & Replenisher	Part A Unopened: 18 Mo. Part A Opened: 8 Weeks Part B Unopened 24 Mo. Part B Opened: 8 Weeks	4 Weeks	1 Week
CP RA P2 Bleach Fix Regenerator	Part A Unopened: 18 Mo. Part A Opened: 16 Weeks Part B Unopened 24 Mo. Part B Opened: 16 Weeks	4 Weeks	2 Weeks
CP RA P2 Bleach Fix Regenerator	Part A Unopened: 18 Mo. Part A Opened: 16 Weeks Part B Unopened 24 Mo. Part B Opened: 16 Weeks	4 Weeks	2 Weeks
CP RA LR P2-R Bleach Fix & Replenisher	Part A Unopened: 18 Mo. Part A Opened: 8 Weeks Part B Unopened 18 Mo. Part B Opened: 8 Weeks Part C Unopened 36 Months Part C Opened: 8 Weeks	4 Weeks	1 Week
EC1-RA P3-R Superflo & Replenisher	Unopened: 24 Mo. Opened: 6 Mo.	4 Weeks	2 Weeks

Minilab Print Chemicals

Product	Concentrate	Replenisher	Working Tank
EC1 RA 45 P1-R Developer Replenisher	Unopened: 18 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks
EC1 RA 60 P1-R Developer Replenisher	Unopened: 12 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks
EC1 RA 108 P1-R Developer Replenisher	Unopened: 12 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks
EC-RA P1-S Developer Starter	Unopened: 36 Mo. Opened: 12 Months	N/A	N/A
EC-RA 35 P2-R Bleach Fix & Replenisher	Part A Unopened: 24 Mo. Part A Opened: 8 Weeks Part B Unopened 24 Mo. Part B Opened: 8 Weeks	2 Weeks	1 Week
CP RA P2-R Bleach Fix & Replenisher	Part A Unopened: 24 Mo. Part A Opened: 16 Weeks Part B Unopened 24 Mo. Part B Opened: 16 Weeks	4 Weeks	2 Weeks
EC1-RA AP Bleach Fix & Replenisher	Unopened: 18 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks
EC -1 RA P3-R SUPERFLO™ & Replenisher	Unopened: 24 Mo. Opened: 6 Weeks	4 Weeks	2 Weeks

Minilab Film Processing Chemicals

Product	Concentrate	Replenisher	Working Tank
NEG N1-R Developer Replenisher	Part A Unopened: 18 Mo. Part A Opened: 8 Weeks Part B Unopened 18 Mo. Part B Opened: 8 Weeks Part C Unopened 18 Months Part C Opened: 4 Weeks	4 Weeks	2 Weeks
NEG N1-S Developer Starter	Unopened: 36 Mo. Opened: 12 Months	N/A	N/A
CN16 MV Developer Replenisher	Unopened: 12 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks
CN16L N2-R Bleach Replenisher	Unopened: 24 Mo. Opened: 8 Weeks	4 Weeks	1 Week
CN16 NEGACOLOR N2-S Bleach Starter	Unopened: 36 Mo. Opened: 12 Months	N/A	N/A
NEG N2 Bleach 3 Replenisher	Unopened: 24 Mo. Opened: 8 Weeks	4 Weeks	1 Week
CN16L N3-R Fixer Replenisher	Unopened: 24 Mo. Opened: 8 Weeks	4 Weeks	1 Week

NEG RA N3-R Fixer Replenisher	Unopened: 24 Mo. Opened: 8 Weeks	4 Weeks	1 Week
NEG N4-R Rinse Plus & Replenisher	Unopened: 12 Mo. Opened: 8 Weeks	4 Weeks	2 Weeks