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VOYAGER MANUAL LOAD AND EJECT CYCLE

I. DEFINITIONS:

• **MGC**: Multi Gauge Controller. This is a controller that displays pressure and can be operated independently of the Voyager computer.



• IHC: Instrument Hardware Controller

II. PROCEDURE FOR VOYAGER NT DIAGNOSTICS PROGRAM:

- Stop the Instrument Hardware Controller (IHC). For Windows XP and 2000: Start/Control Panel/Administrative Tools/Services/Instrument Hardware Controller/Stop. For Windows NT: Start/Control Panel/Services/ Instrument Hardware Controller/Stop
- 2. Open Voyager NT diagnostics program. Start/Programs/Voyager/Voyager NT Diagnostic. (IHC must be stopped in step 1)
- 3. Click on: X-Y Table tab.
 - a. Click Move to Load.
 - b. Wait for the compressor to initialize (You will hear the compressor when it turns on).
- 4. Click on: Mechanical tab.
 - a. Manual Eject:
 - i. Open Flap Door 1
 - ii. Turn Grabber On
 - iii. Extend Linear #1
 - iv. Retract Linear #1 (watch the sample plate video monitor during this step you should see the sample plate removed, if it does not retract with the actuator see "Troubleshooting Grabber Guide")
 - v. Close Flap Door #1
 - vi. Close Fore line Valve #1
 - vii. Open Vent Valve
 - viii.Turn Grabber Off
 - ix. Open Flap Door #2
 - x. Extend Linear #2
 - b. Manual Load
 - i. Retract Linear #2
 - ii. Close Flap Door #2
 - iii. Close Vent Valve

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- iv. Close Foreline Valve #2.
- v. Open Foreline Valve #1.
- vi. Wait for the TC2 pressure to reach <8 X 10-2 Torr (This can be monitored on the MGC or in the software).
- vii. After the TC2 pressure drops below 8X10-2 Torr open Fore Line Valve #2.
- viii.Open Flap Door #1
- ix. Turn Grabber on
- x. Extend Linear #1 (The sample plate should be visible on the video monitor after the Linear #1 extends)
- xi. Turn Grabber off
- xii. Retract Linear #1
- xiii.Close Flap Door #1
- xiv.Wait until the source chamber BA1 drops below 3X10-6
- 5. Click on X-Y Table tab.
- 6. Click: Home
- 7. Exit Voyager NT Diagnostic software.
- 8. Open the Instrument Control Panel.
 - a. Select sample plate type in the sample plate menu.