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X-RECOVERY-PROBLEMS_3_090224_26.DOC
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WHY IS YOUR FLOW SORT'S RECOVERY POOR?

1. YOU ARE OVER-FEEDING YOUR SORTER
 - a. Refer to the maximum permissible feed rate specification

2. YOUR FEED MATERIAL SIZE RANGE IS TOO LARGE
 - a. Refer to the recommended material size range specification

3. YOUR WATER FLOW SET-UP AND WATER FLOW VOLUME IS WRONG
 - a. Check as per Flow Sort specifications

- 4. YOU HAVE SOME POSITIVE (UP) STEPS IN YOUR FEED CHANNEL**
 - a. Check and rectify if this is the case

- 5. THE OPTIC-WINDOW IS WORN**
 - a. Check and replace if this is the case. Watch out for problems as per point 4 above!

6. YOUR EJECTOR IS NOT FUNCTIONING PROPERLY
 - a. Service and set-up ejector correctly

- 7. THERE IS LIGHT ENTERING YOUR SORTER**
 - a. Find and eliminate this problem

- 8. YOUR SORTER'S SENSITIVITY SET-UP IS INCORRECT.**

- a. Set-up your sorter following FLOW'S sorter set-up procedure and verify your sorter performance by conducting a tracer-test.

DOING A TRACER TEST ON YOUR SORTER 3 THINGS CAN HAPPEN:

1. A TRACER PASSES THROUGH THE SORTER, IT IS OPTICALLY DETECTED (THE APPROPRIATE EJECTION COUNTER IS INCREMENTED BY 1) AND THE TRACER REPORTS TO THE CONCENTRATE OUTLET OF THE SORTER.
 - a. THIS IS THE WAY IT SHOULD BE!

2. A TRACER PASSES THROUGH THE SORTER, IT IS OPTICALLY DETECTED (THE APPROPRIATE EJECTION COUNTER IS INCREMENTED BY 1) HOWEVER THE TRACER REPORTS TO THE TAILINGS OUTLET OF THE SORTER.
 - a. THIS INDICATES A MOVEMENT INSTABILITY OF THE TRACER
 - i. Refer to points **5**, **4** and 3

3. A TRACER PASSES THROUGH THE SORTER WITHOUT BEING OPTICALLY DETECTED (THE APPROPRIATE EJECTION COUNTER IS NOT INCREMENTED) AND THE TRACER REPORTS TO THE TAILINGS OUTLET OF THE SORTER.
 - a. THIS INDICATES EITHER INSTABILITY IN THE TRACER'S MOVEMENT, MASKING OF THE TRACER BY OTHER LARGER PARTICLES OR INSUFFICIENT OPTICAL DETECTION SYSTEM SENSITIVITY.
 - i. Refer to points **1** and **2** for masking
 - ii. Refer to points 3 and **4** for instability
 - iii. Refer to points **7** and **8** for optical detection problems

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