

LFI: Fire on furnace pilot



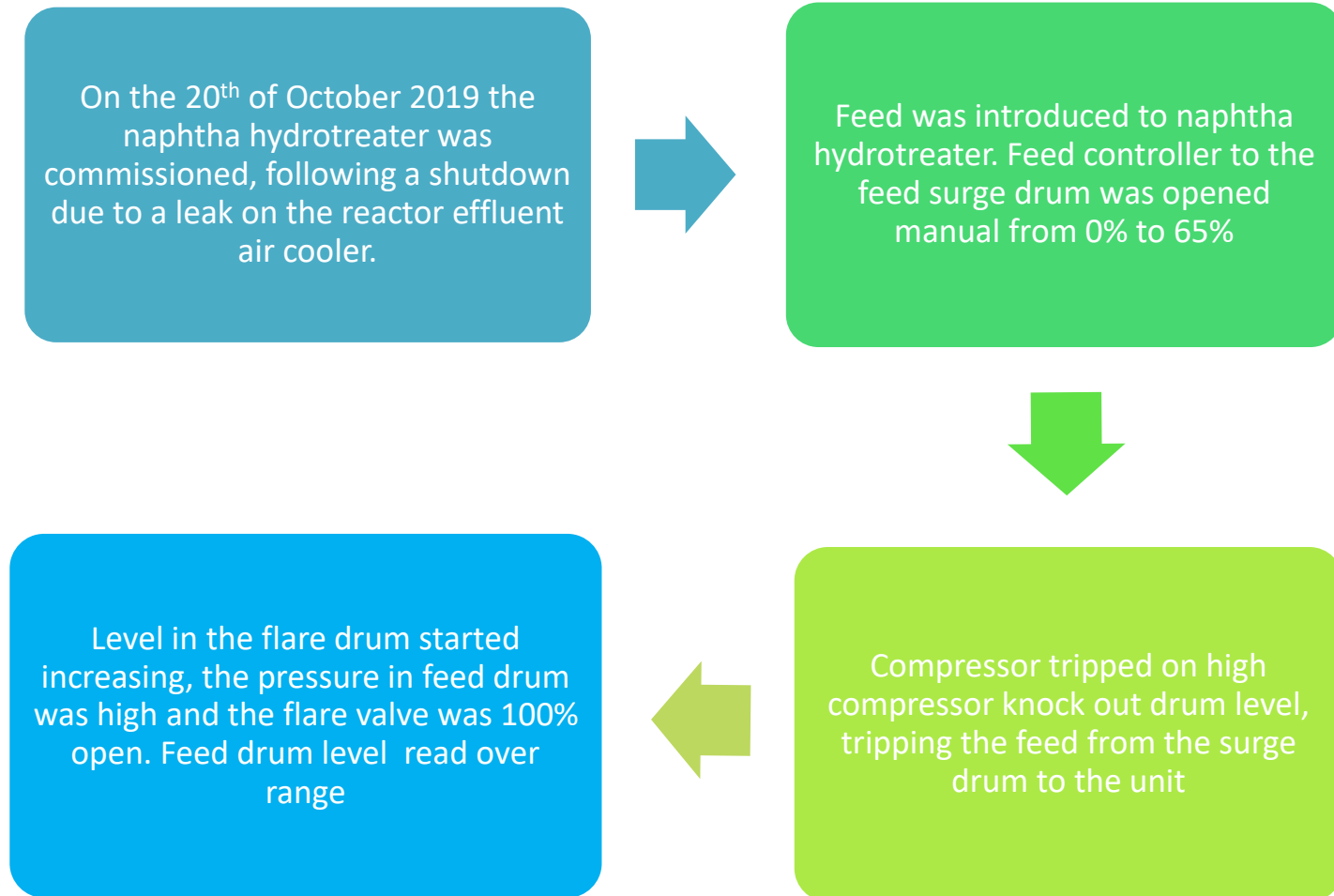
Fire on furnace pilot

1. What went wrong?
2. Why did it happen?
3. Lessons learned?

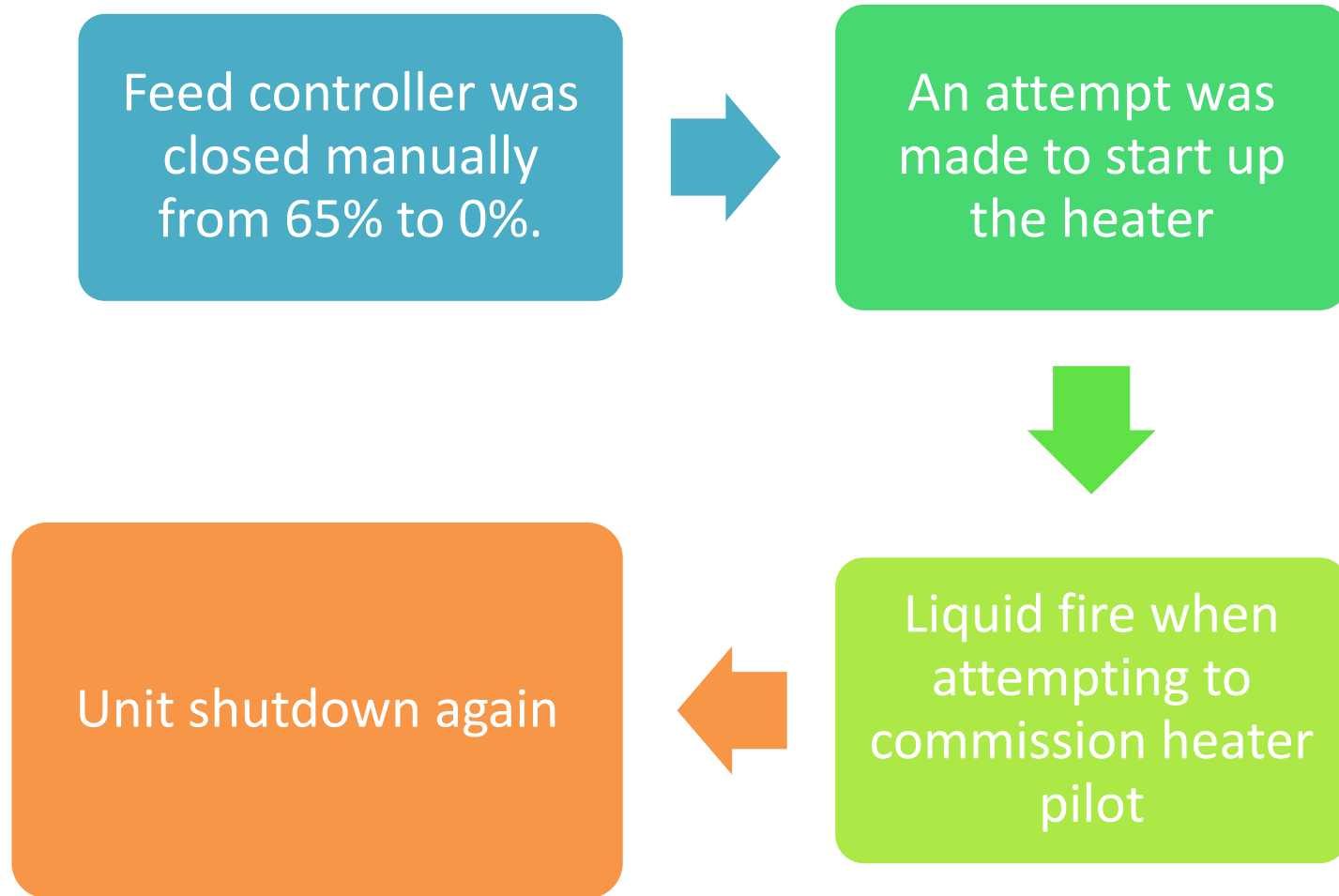
What went wrong?

Feed surge drum on the Naphtha hydrotreater was overfilled and liquid naphtha was carried over into the refinery fuel gas system. While attempting to commission the furnace pilot, liquid from the fuel gas system ignited and caused a fire.

What went wrong?



What went wrong?



Why did it happen?

DIRECT CAUSE

- Reverse flow from the feed surge drum into refinery fuel gas system.
- Casual factor: Feed control valve on manual 65% after the unit tripped.

Lessons Learned

- Plant startup and shutdown remain the highest risk activities and should be treated as such.
- Detailed procedures, indicating all the required actions, should be followed during high risk activities.
- The following of procedures must be enforced with all personnel, including highly experienced personnel, to prevent mistakes.
- Incidents are often caused by more than one failure.

Thank You...

