

# System Diagram Break Out 04

## Given

- The design intent examples we worked through
- The assumptions we made as we worked through the examples
- The need to stage up from one chiller to a 2<sup>nd</sup> chiller as the load exceeded the capacity of one chiller
- The ability to manually operate the plant
- The design intent system diagram copies that follow

*1. Answer the questions that follow*

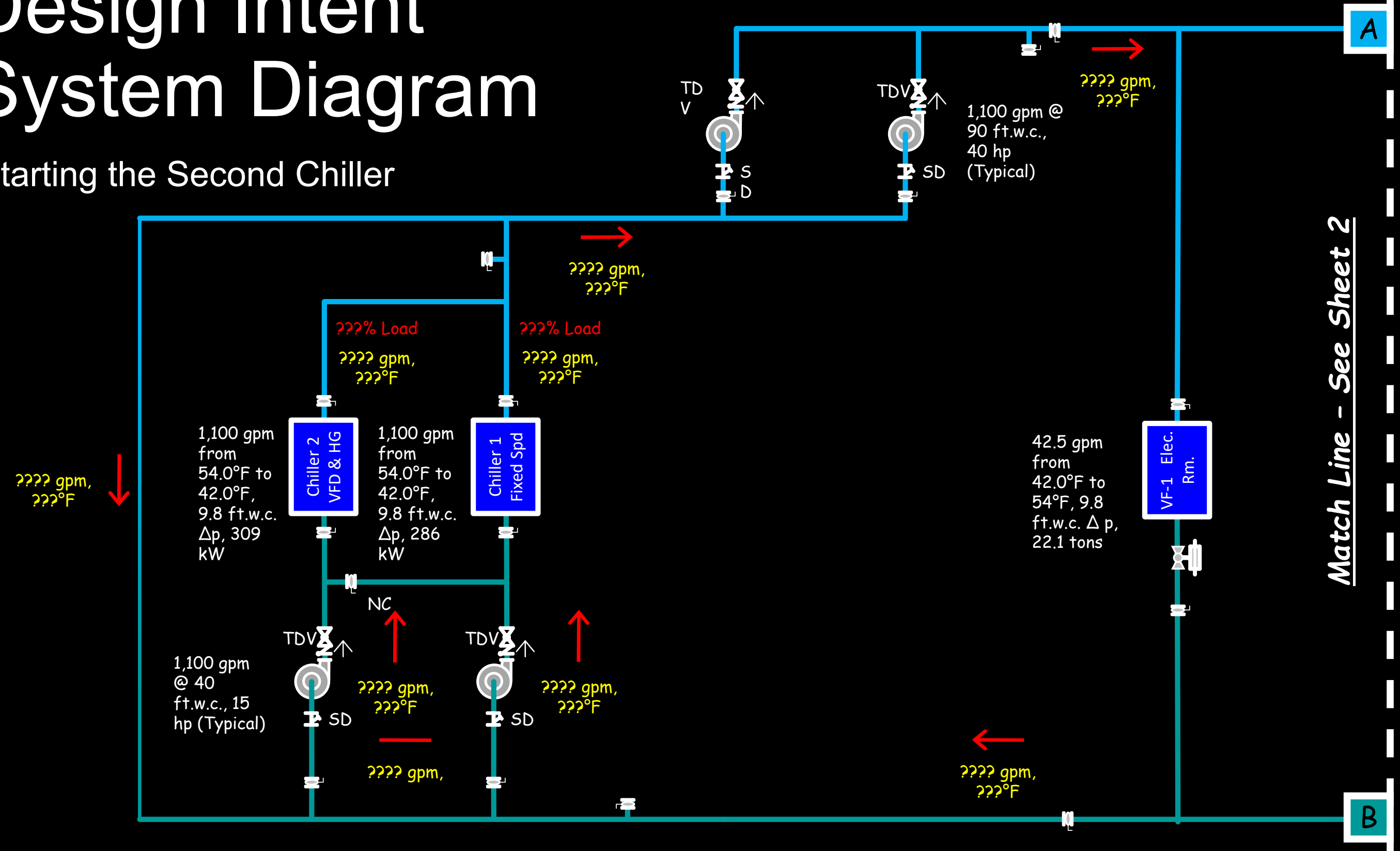
# Questions

Assuming full functionality and proper balancing:

1. What specific steps could you take manually to bring the second chiller online and have it stay online without:
  - a) A safety trip?
  - b) Short cycling?
2. Is there an energy efficiency consideration that might impact the load condition you used as the trigger for starting the second chiller?

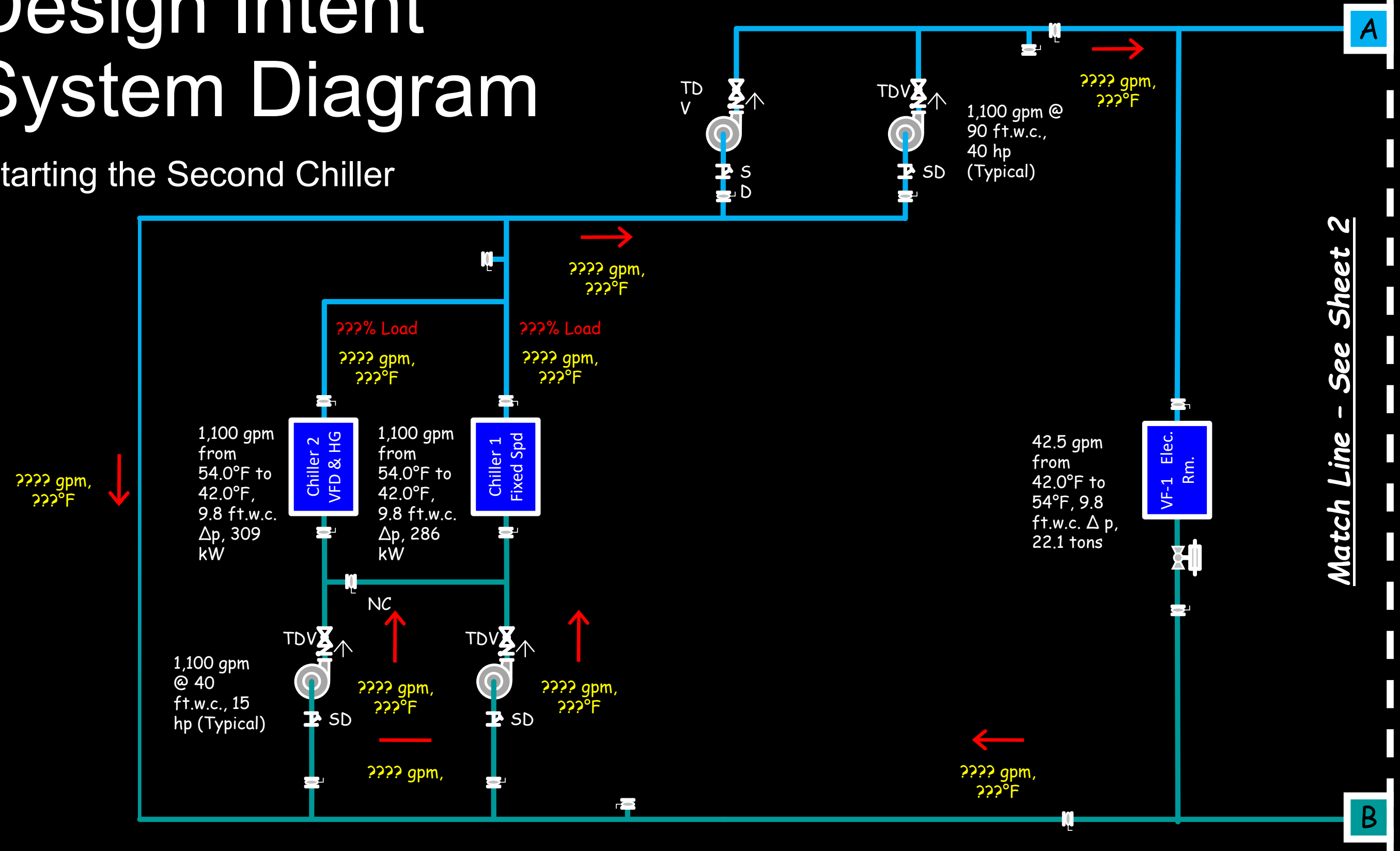
# Design Intent System Diagram

Starting the Second Chiller



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