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| Change Order Form (COF) Rev 1 | |
| Date | 11/13/2020 |
| Subsystem | 2.3.1 (ADC) |
| Component | 2.3.1 (ADC) |
| Change | Change frequency detection method |
| Reasoning | Zero crossing and Schmitt trigger was not providing accurate frequencies for the input waves. In addition, it was not fast enough. |
| Rationale | The two older methods of frequency detection did not provide us with valid frequencies and could not detect the shifts. In addition, it caused a large amount of bit errors. The new algorithm using phase comparison was a lot faster and more accurate. |
| Mod. Details | Changed frequency detection method to phase comparison. |