## **Cleaning up NPS Control and Monitoring LabVIEW Code**

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To further reduce space used by the LabVIEW code written for NPS control and monitoring, and to make the code easier to follow, I am creating sub-routines of the case structures of shared variables.

Figure 1 shows an example of a group of case structures for the lo limit arrays. After creating a sub-routine of the code, the cases will be replaced by a small square, examples shown in Fig. 2.

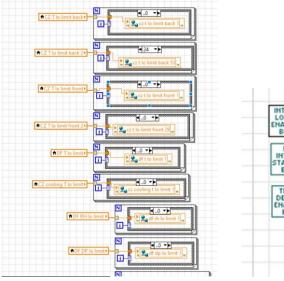


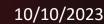
FIG. 1. Screenshot of case structures.

INTER LOCK ENABLE BO HI INTIK STATUS BO TRIP DELAY ENABLE BO

FIG 2. Example of sub-routines replacing cases.

- Clean-up in process for ease of understanding and space minimization
- Sub-routines being created to replace cases





## **Detector Support Group**



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In the sub-routine, the cases are being replaced with array indexing, as shown in Fig. 3. This allows easier viewing and debugging of the connections.

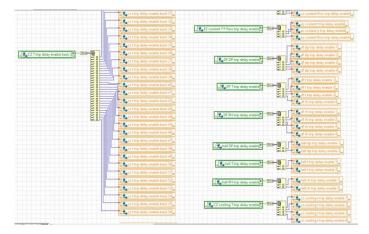


Fig. 3. Code in sub-routine.



