

### SUMMARY AND CONCLUSIONS

When this project first began, the writer proceeded on an investigative basis to determine if any improvements in safety operation was warranted or possible. Several different button shapes were designed and fabricated. These were reviewed by Marketing and Management to assure that the new design was both functionally and aesthetically acceptable. With the new design, the safety button has been decreased in size and repositioned forward to decrease the potential for inadvertant movement. The safety detent plunger and the safety detent spring were also modified to increase the minimum safety "OFF" force. As indicated by the economic analysis of this system shown in Appendix 5, implementation of the new design resulted in a slight (\$0.05 per unit) reduction in product cost.