Solution

# Experiments and Design

1. Yes, there are multiple independent factors (user interface, remote control actions, and connectivity options) that can be used to test the dependent factors of product performance and control.
2. No, there is no design change and therefor nothing to experiment with. Marketing and Sales may try different price points or marketing strategies, but that is market experimentation not design experimentation.
3. Yes, the different methods and containers are independent factors and the damage, or weakening of the product, is the dependent factor. Experiments can be done to determine which packing and shipping mode is best.
4. No, there is no design change and therefore nothing on which to run experiments. The past history showed that when the correct material is used, there are no failures. Therefore, correct the problem at the supplier to eliminate the problem in the final product.
5. Yes, there are new design requirements associated with the new market. The product can be tested to these new requirements with the same set of original independent factors to understand the response of the dependent factors under these new conditions. When that is understood, a warranty can be determined that is based upon expected performance.