



FIRE PROTECTION ENGINEERS
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The Top 10 Reasons for Rejecting the First Set of Submittals for a Fire Alarm System

10. The submittal books are missing a table of contents with equipment model numbers, quantities and page numbers for the associated specification sheets.
 9. Specification sheets are not marked to clearly show which pieces of equipment are being used and which are not being used.
 8. Secondary power calculations are based on the actual quantities and are not based on the total allowable load as specified.
 7. The equipment list/table of contents does not agree with the secondary power calculations. (NOTE: IF your calculation program requires that you “add equipment” to simulate a full load, do this as a separate line item and clearly label it. See 8 above.
 6. Wire size calculations – if provided at all – are not based upon 100% circuit loading as called for in the specifications. After all, even engineers screw up now and then, and owners change floor plans requiring circuits to be added onto at some later date.
 5. Speakers or horns do not meet the specifications for required output and/or variable adjustment capability. They may not all be the same. See the drawings and check the specifications.
 4. The riser diagram, if provided at all, does not meet the specifications for required content and/or does not match the equipment list/table of contents.
 3. The number of NAC circuits being provided results in circuits being loaded beyond the maximum permitted by the specifications. That’s right – the specs have a limit so that there is capacity for changes or future growth.
 2. Transient voltage surge suppression (TVSS) was either not included in the submittal or is of the incorrect type.
- ... and the number 1 reason...
1. Strobes are not the correct intensity. No, they are not all 15 cd. Some may be 60 or 110 cd. See the drawings. Know the NFPA 72 rules. Make sure the battery calculations agree with the quantities of different intensity strobes being used.