

# Bacanskas Rules of EQ Engineering\*

1. What does the document say? (or our memory is not as good as we think)
2. Words matter! Don't paraphrase requirements, you will usually be wrong.
3. 'Let Me Explain' is always the wrong answer
4. Qualified life is an estimate, not an absolute! Six decimal places say that you don't understand.
5. Know your licensing basis for EQ. Every basis is different.
6. If you don't know what's in the field, your file may be wrong;
7. Anything can happen in an EQ test
8. Best 2 out of 3 specimens does not mean its qualified
9. If it's not simulated by the EQ test or required by the EQ analysis, it can't be EQ maintenance
10. If it's not EQ, get it out of your EQ maintenance requirements document
11. Referenced standards (IEEE 101) are NOT requirements unless specifically endorsed by Reg Guide, Regulation or a license commitment
12. A special interest group memo is NOT a design input under Appendix B
13. Answer the precise question that was asked!
14. Render therefore unto Caesar.
15. Don't prove how little you know by trying to show how much you know!
16. For any Limatorque EQ question open the NUGEQ guidance document first!
17. "The procedure allows it" is the wrong answer.
18. EQ is not an occasional activity.
19. If the question to be answered is "what time is it," don't explain how to build a watch.
20. Follow IRAC.
  - a. Define the ISSUE
  - b. Set out the legal REQUIREMENT
  - c. Perform the ANALYSIS against the requirement.
  - d. Set forth your CONCLUSION.
21. If you don't understand how the equipment is used in the plant, you can't qualify it.
22. If you don't understand how the equipment works, you can't qualify it
23. A chemical name does not specify a compound EPDM1≠EPDM2
24. Generic activation energy values do not exist.
25. The plant profile may not be the one required for qualification of a specific component
26. Don't assume that people you work with understand EQ requirements; they usually don't.
27. Don't expect a regulator to know more about your program than you do.
28. What you see as obvious, others may not have the knowledge to see
29. Respect your regulator; they are engineers just like you and have a job to do also.
30. Arrhenius is the best we've got. Learn to love it!
31. That is not a problem, it's just a DOR item....NOT!
32. EQ is not a desk job