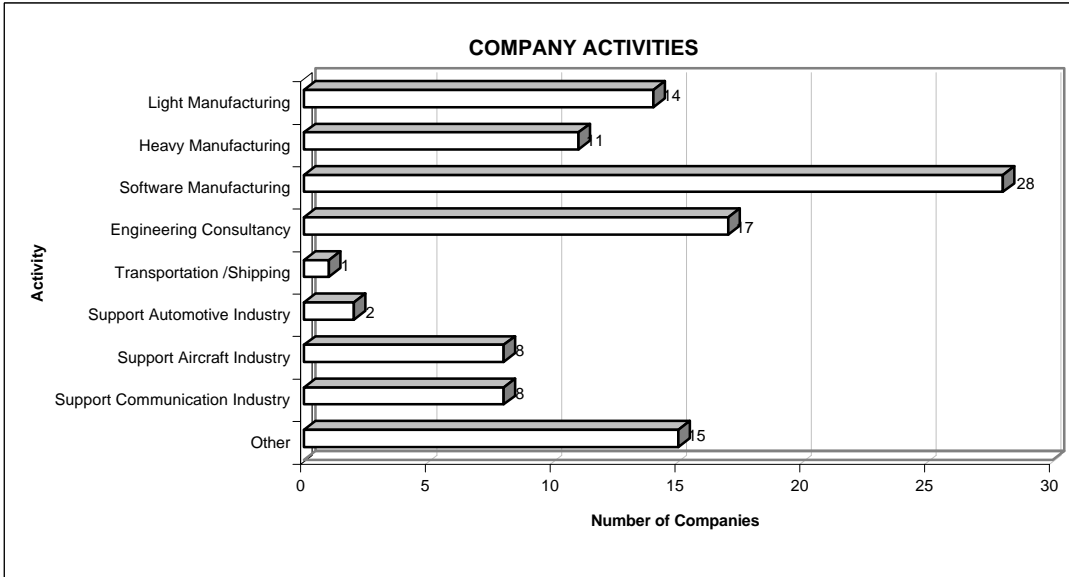
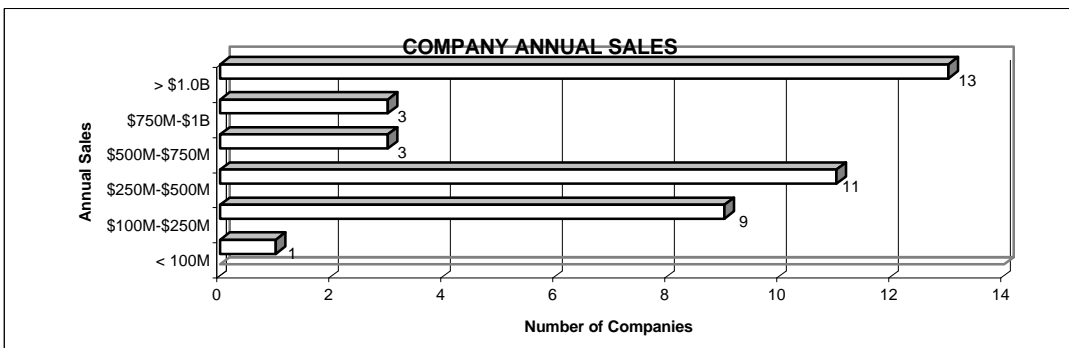


## COMPANY BACKGROUND

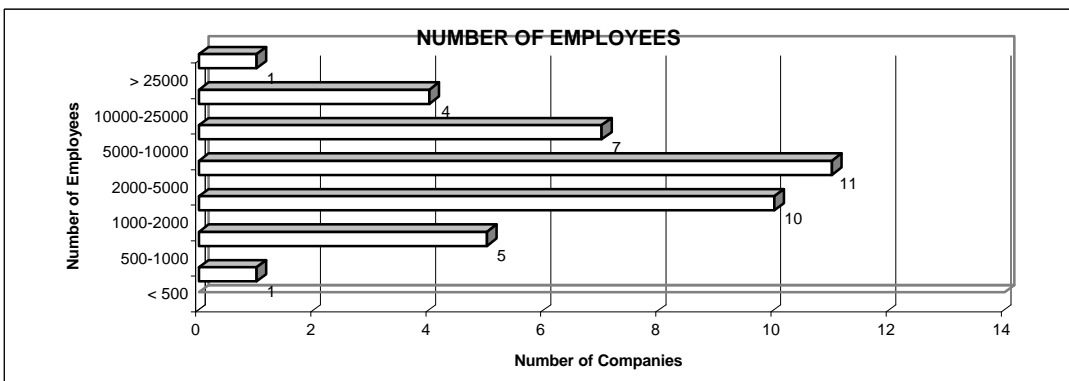
Q1. What activities is the company involved in?



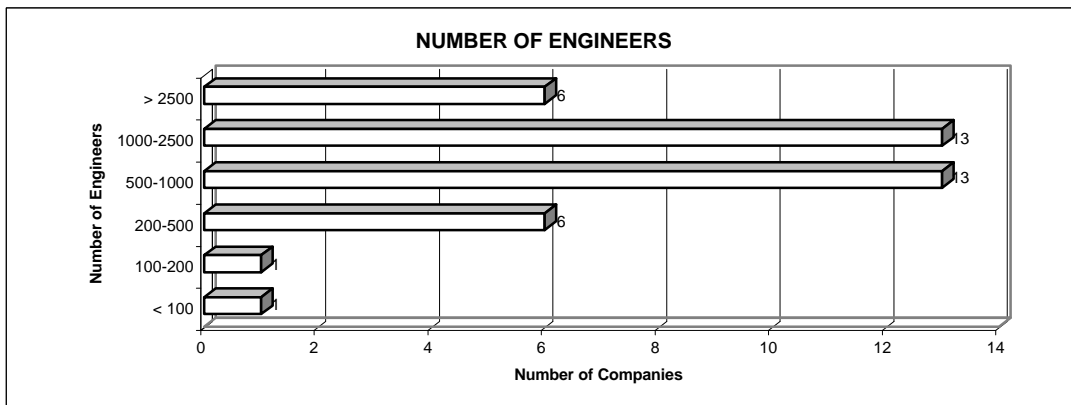
Q2. What is the value of annual company sales?



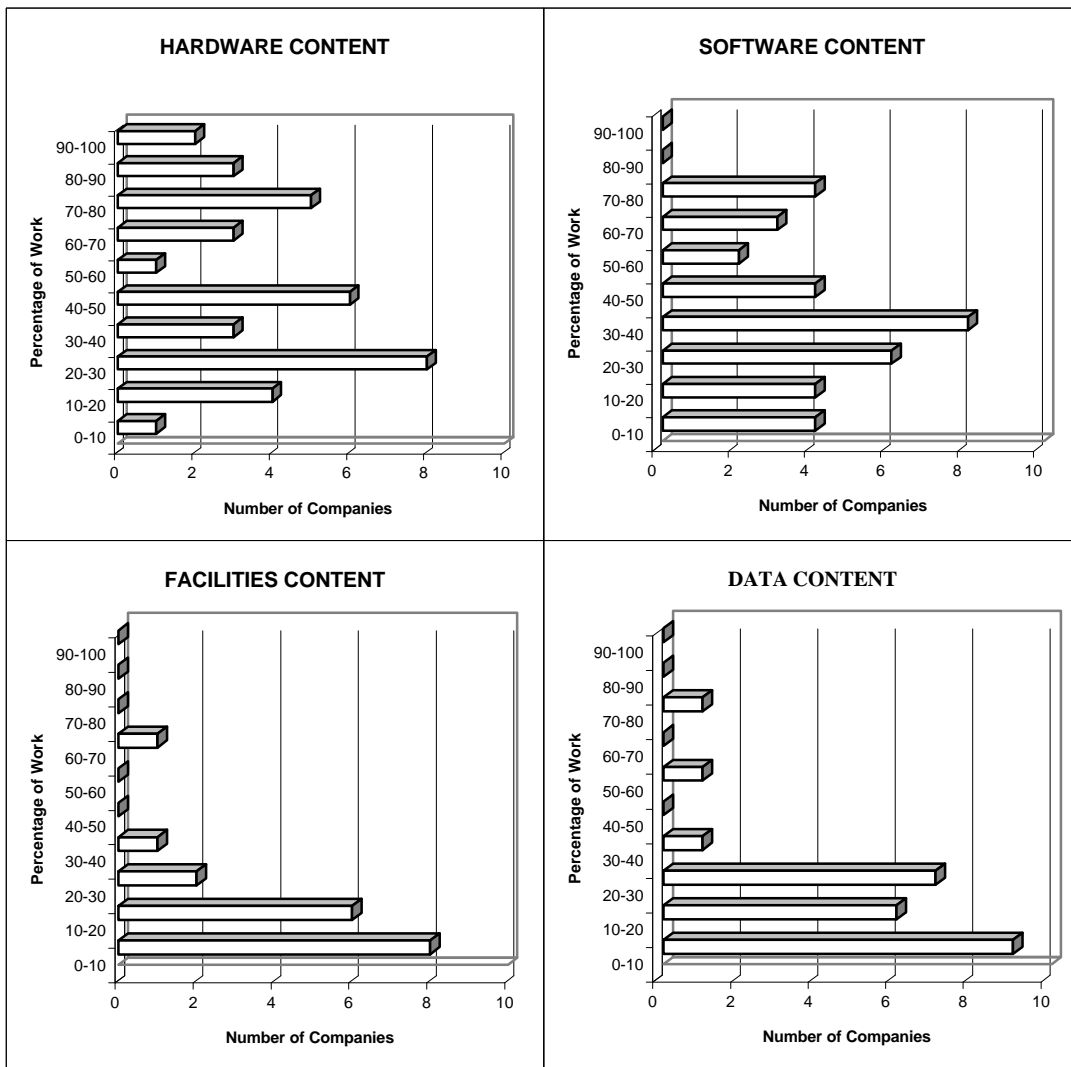
Q3. How many employees are employed at your company site?



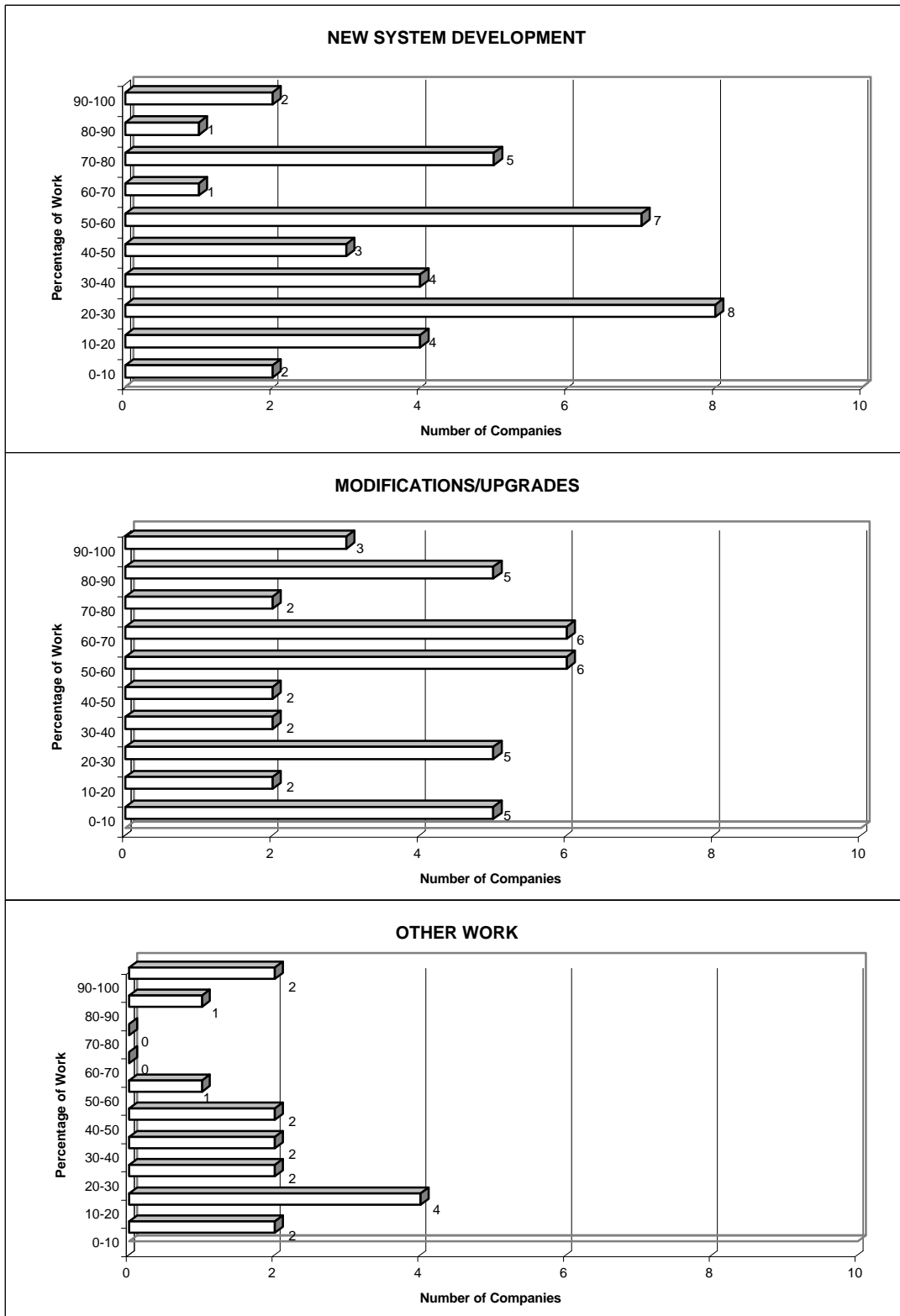
Q4. How many engineers are employed at your company site?



Q5. Based on content of work, what percentage of work is related to the following:

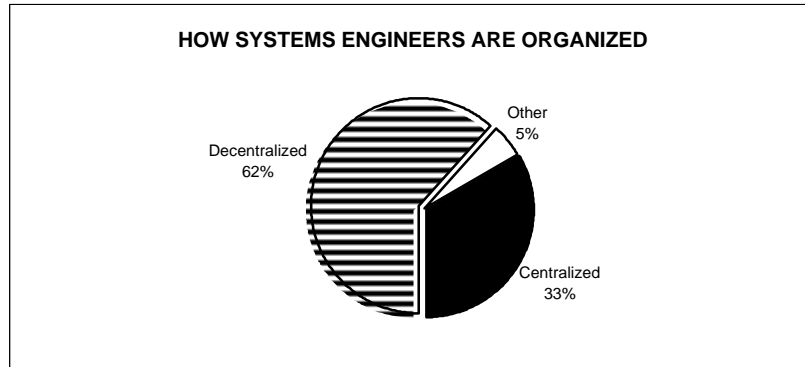


Q6. Based on site annual expenditures, what percentage of your operations are:

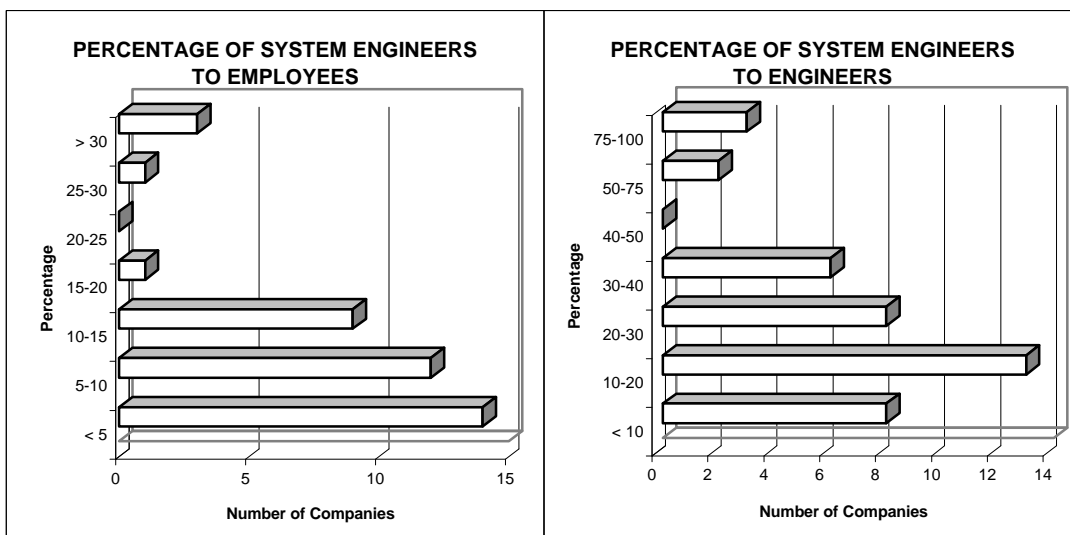
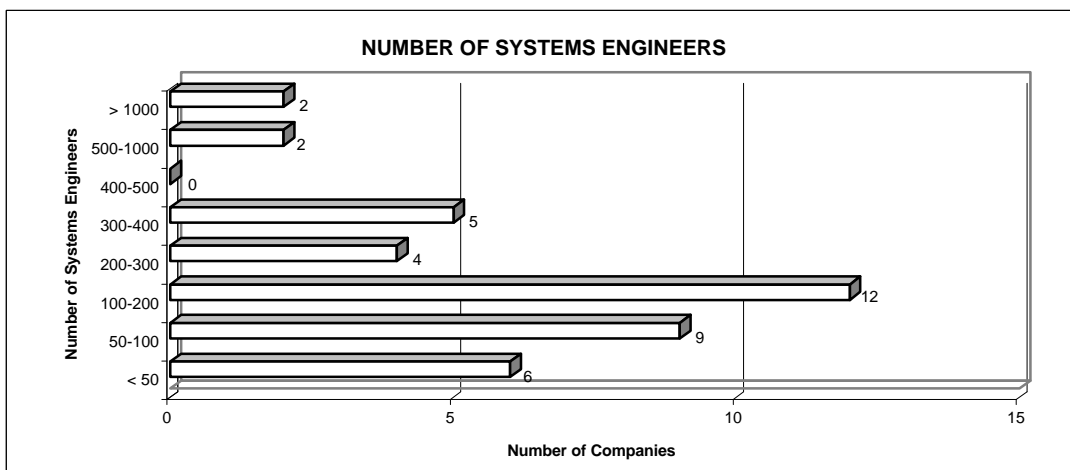


## SYSTEMS ENGINEERING ENVIRONMENT

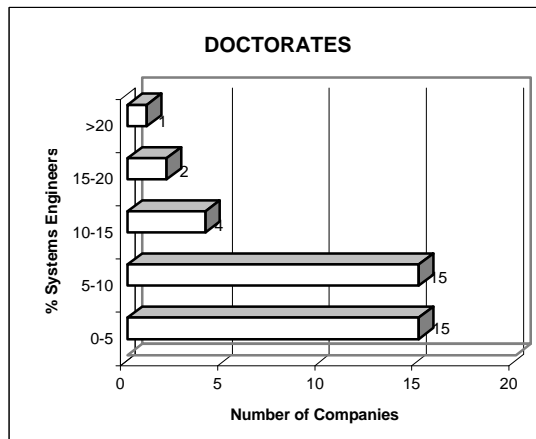
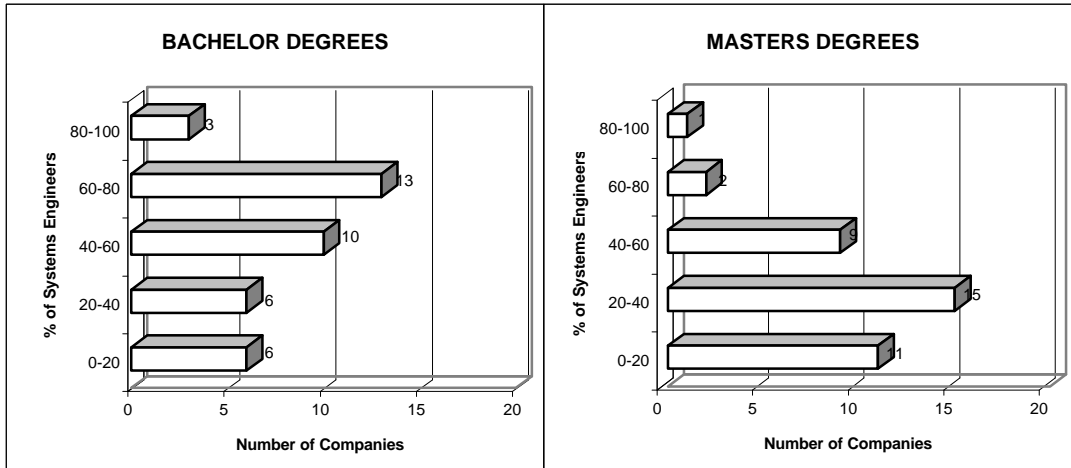
Q7. How are those who perform the systems engineering functions organized?



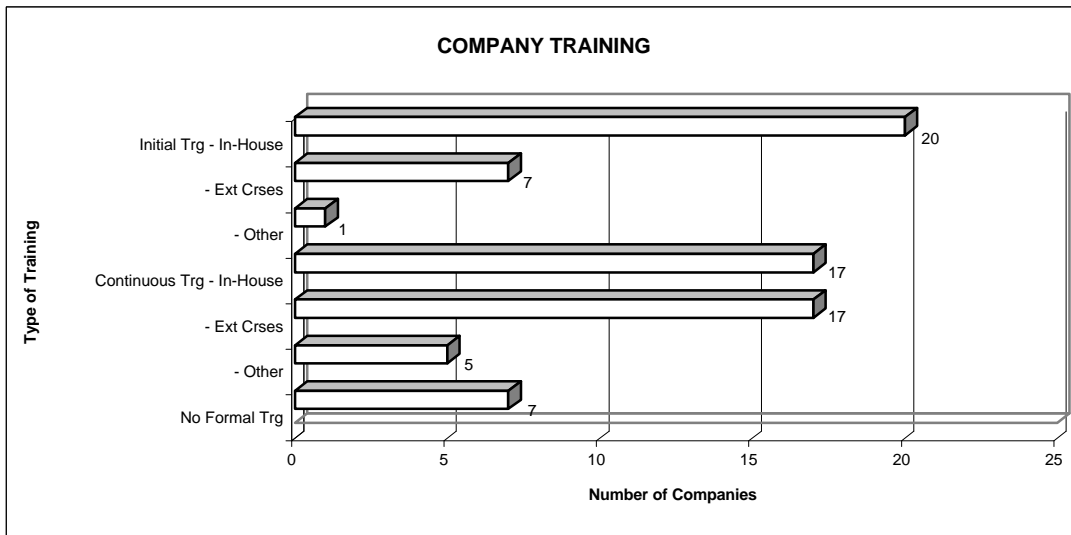
Q8. How many employees are considered "systems engineers"?



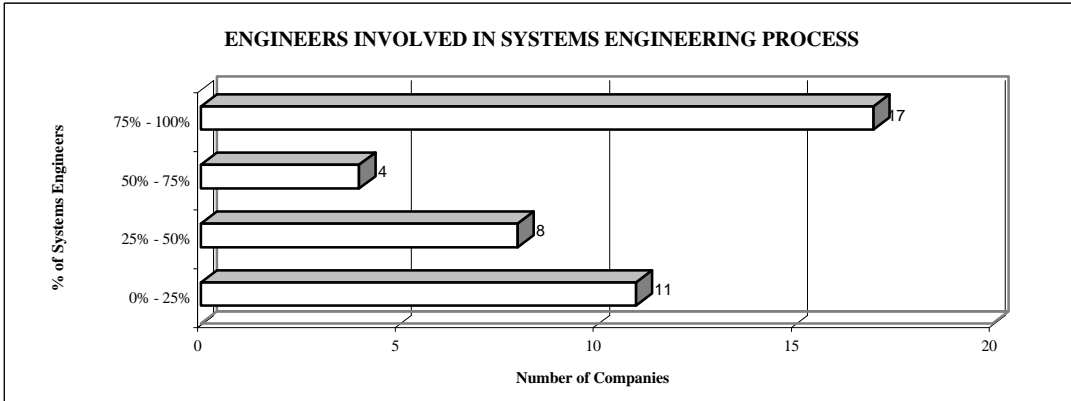
Q9. What is the academic background of your systems engineers?



Q10. How is training conducted for engineers involved in the systems engineering process?

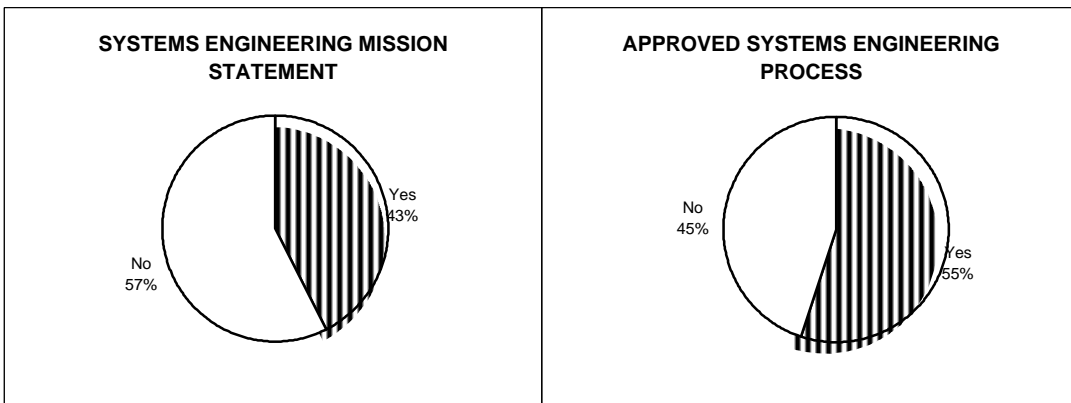


Q11. What percentage of your engineers have been involved in a project which involved the systems engineering process?



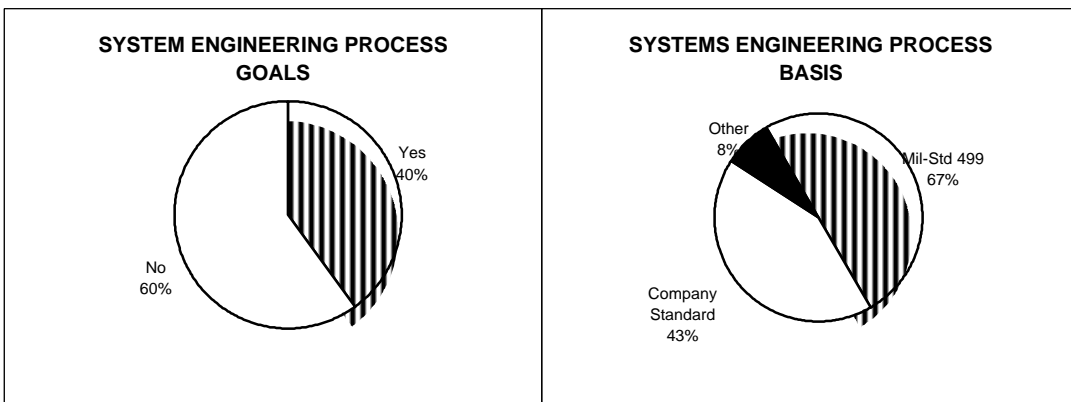
Q12. Do you have a systems engineering mission statement?

Q13. Do you have an approved systems engineering process mandated for use?

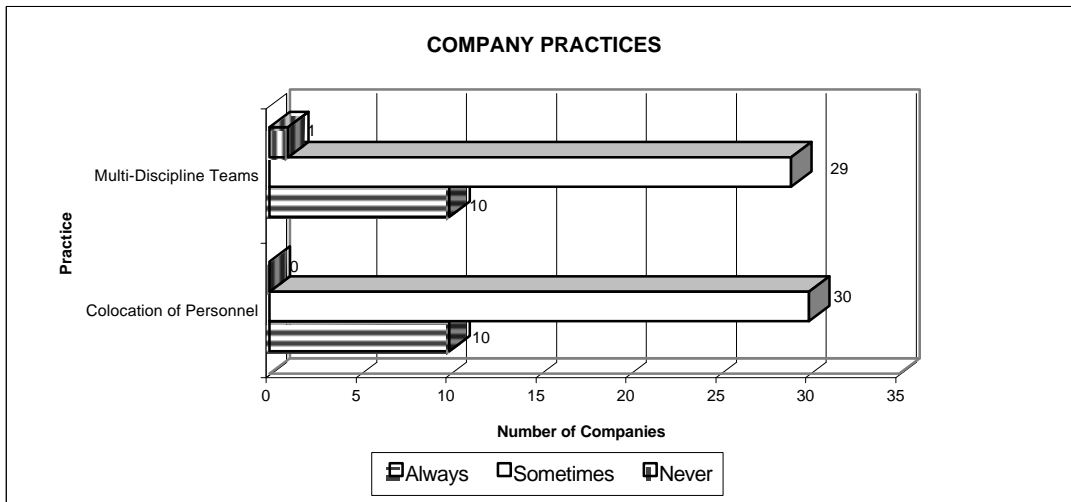


Q14. Have company strategic goals been translated to specific systems engineering process goals?

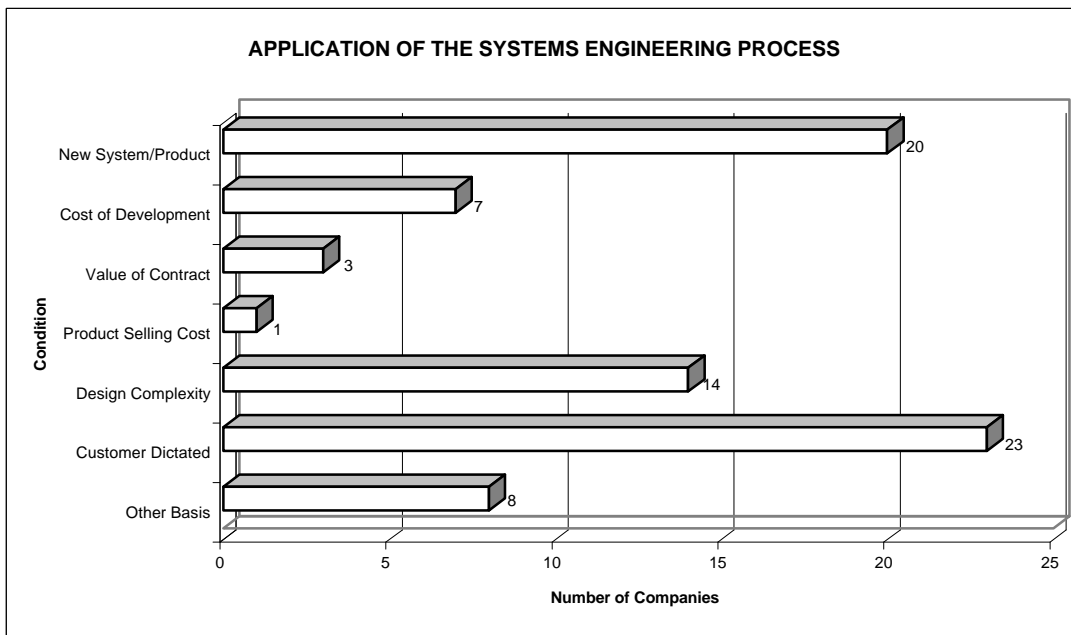
Q15. What is the basis for your systems engineering process used?



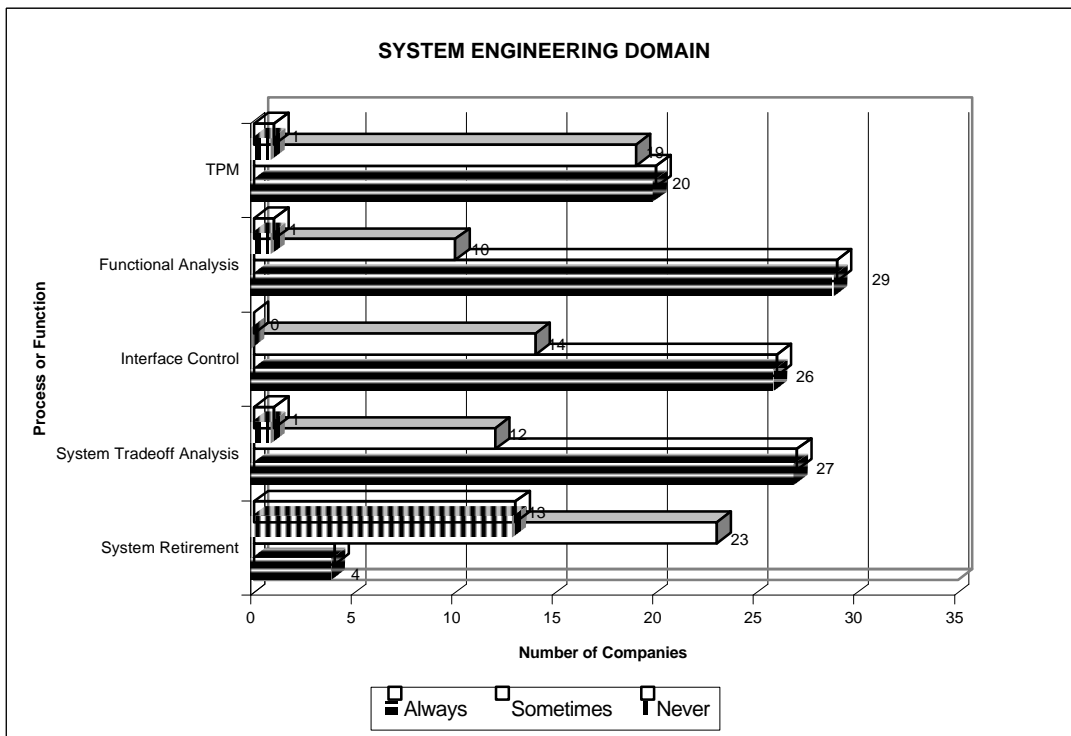
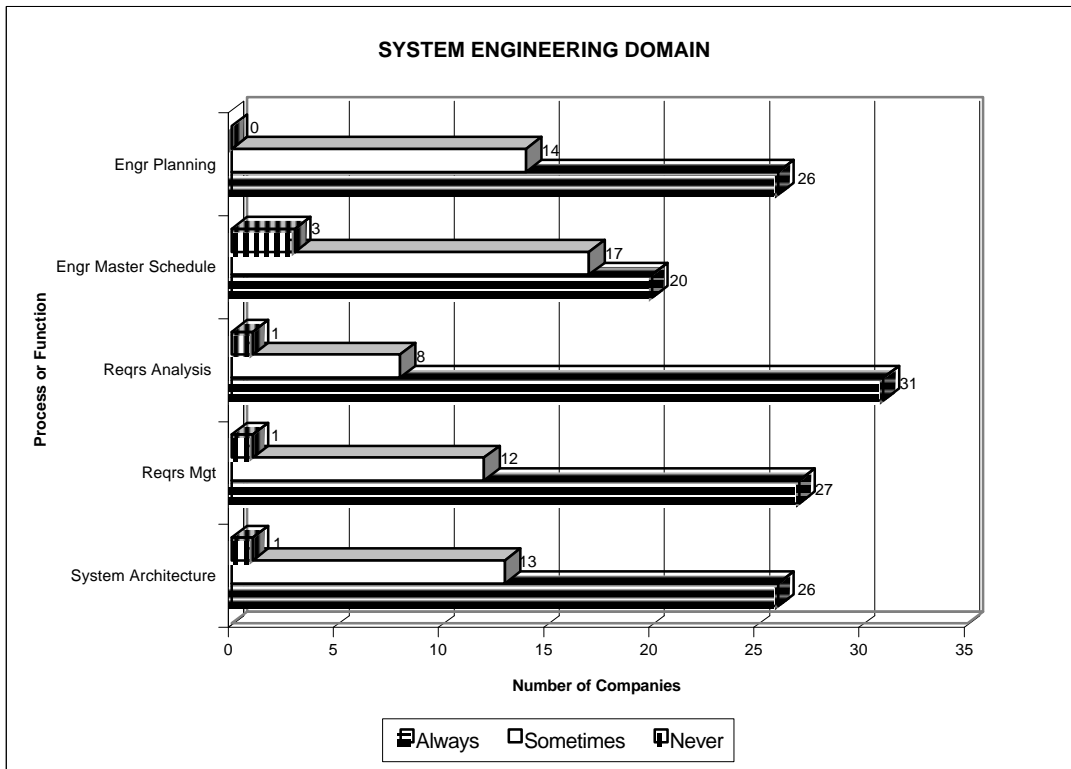
Q16. To what extent are these practices used in support of your systems engineering process?

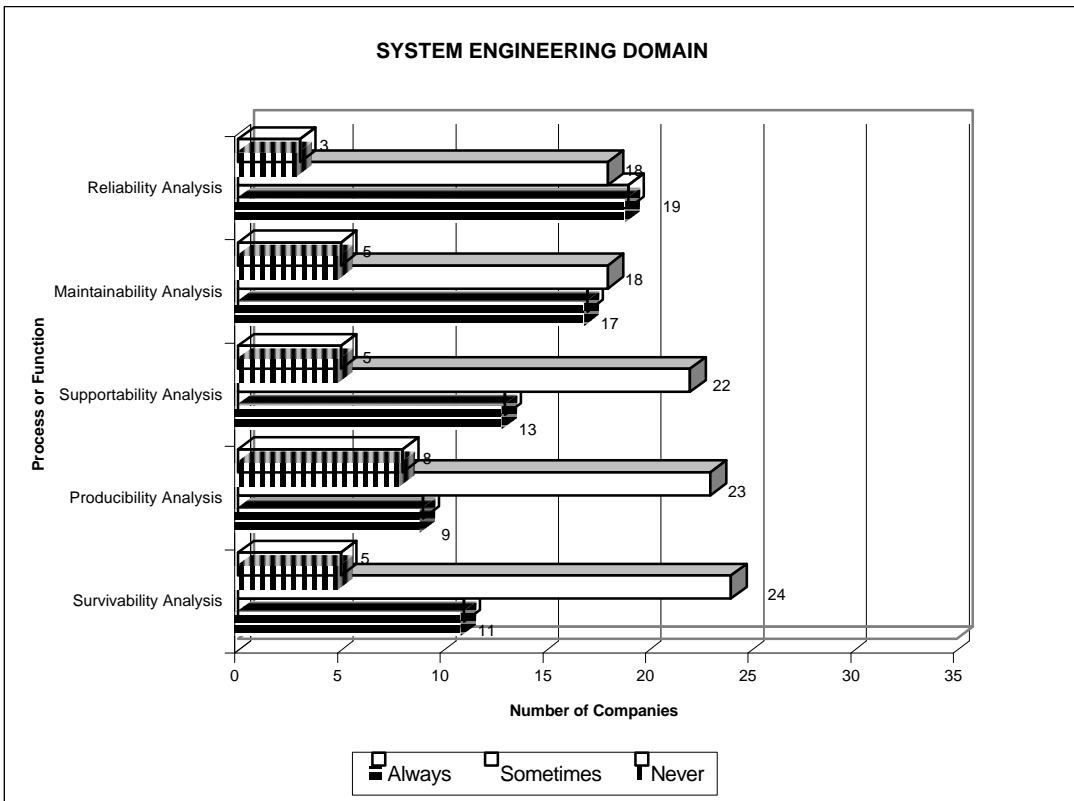
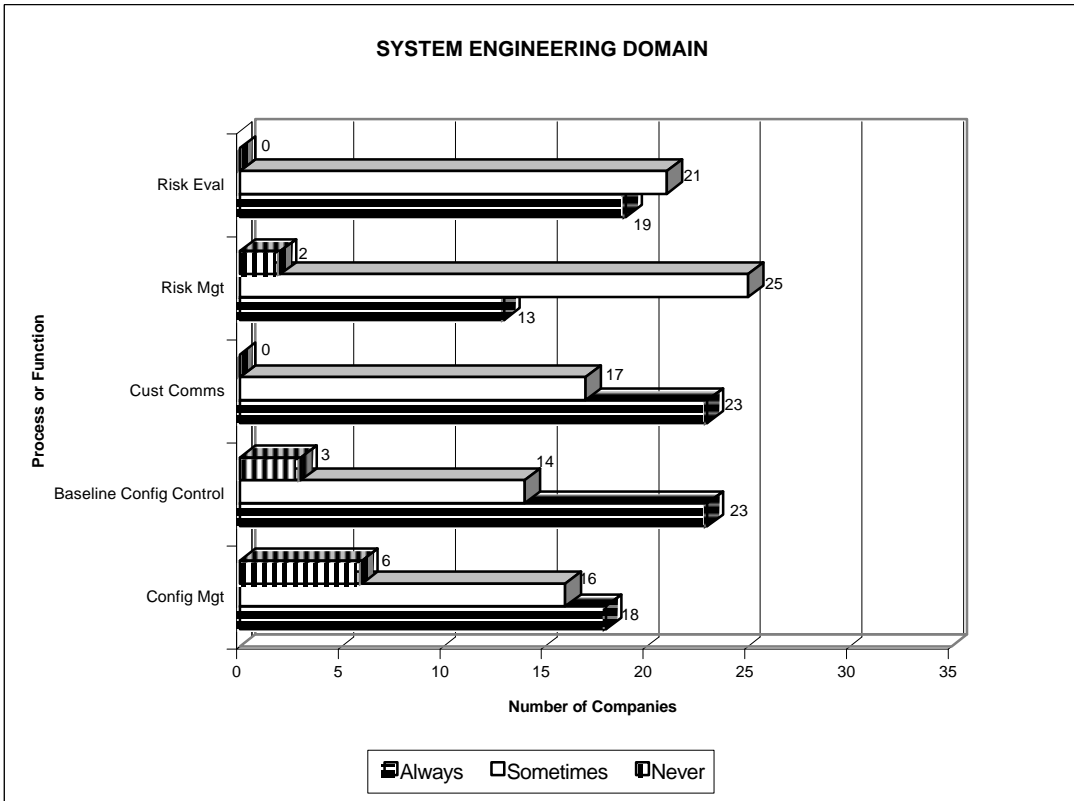


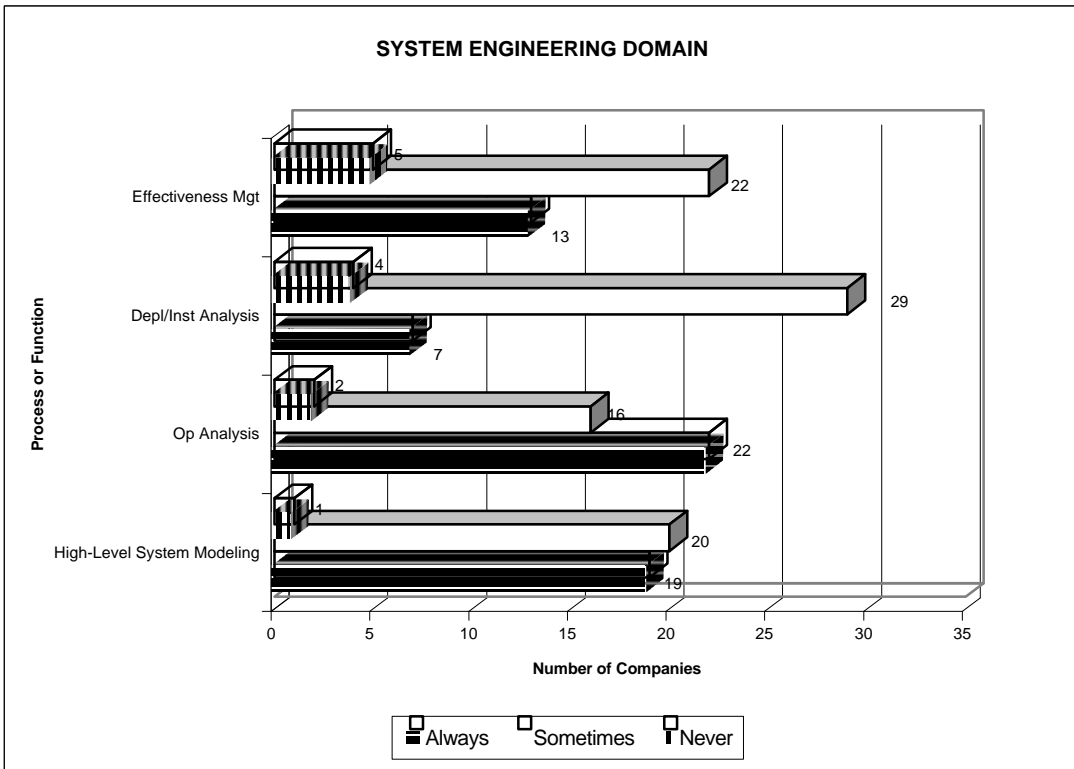
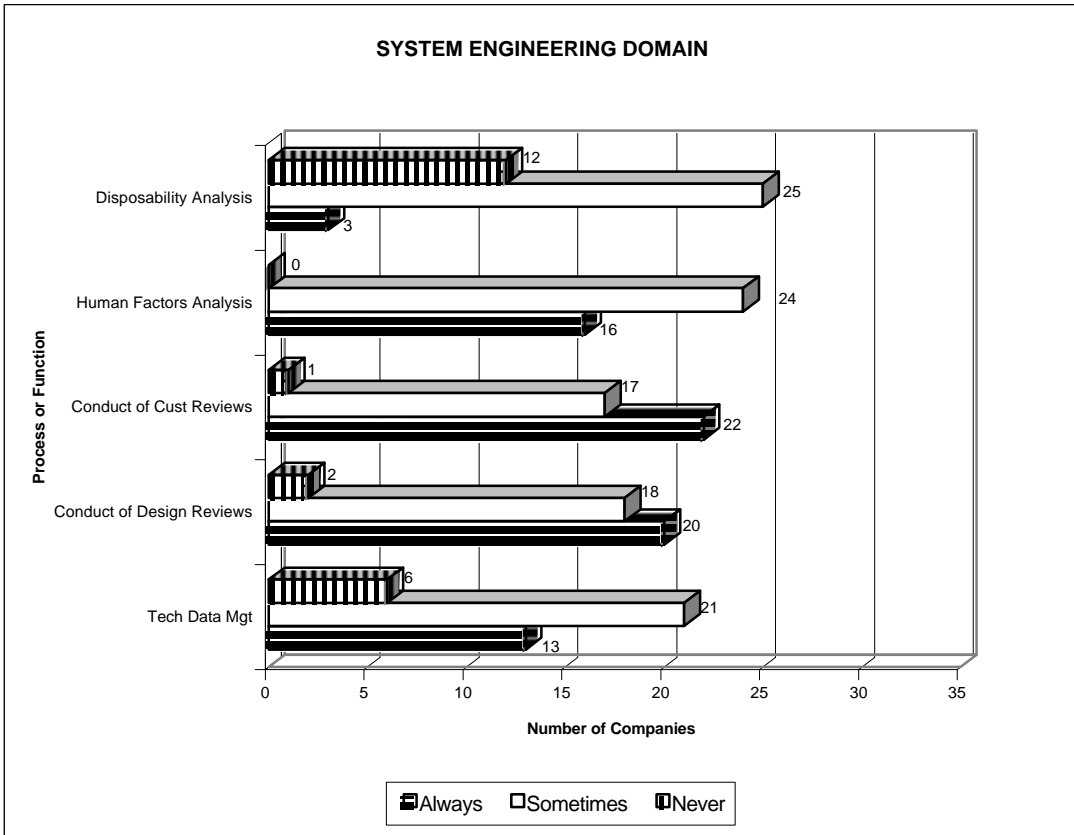
Q17. Under what conditions is the systems engineering process applied?

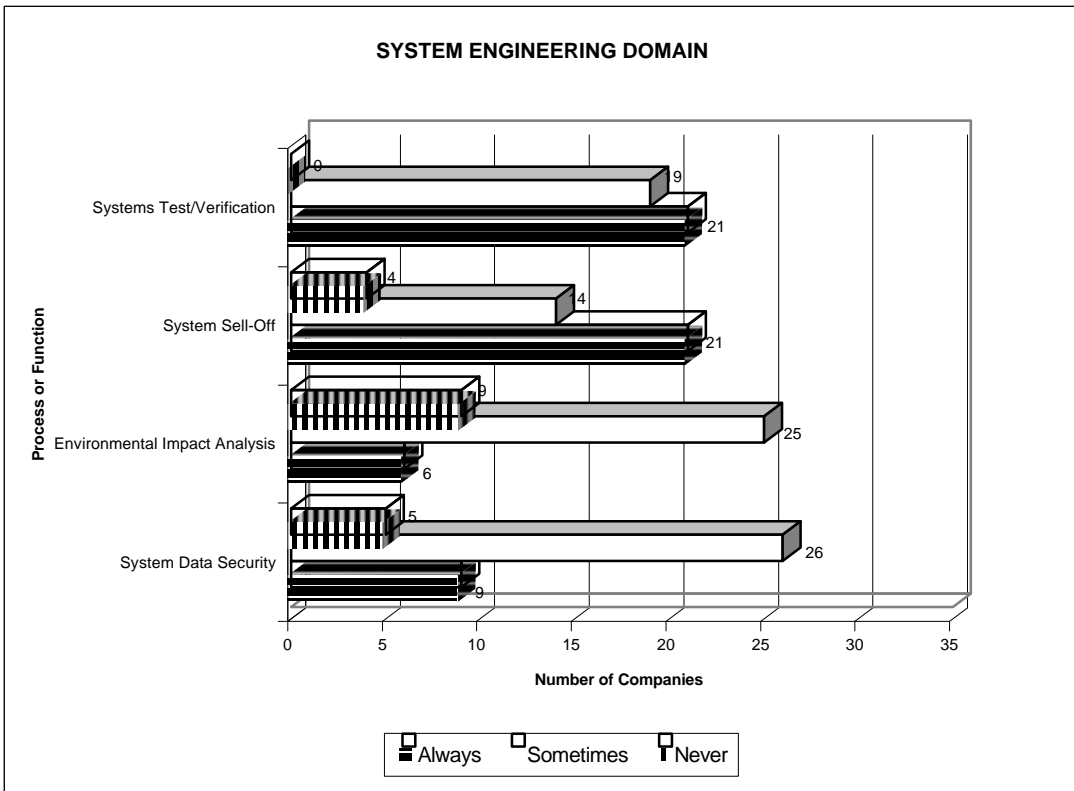
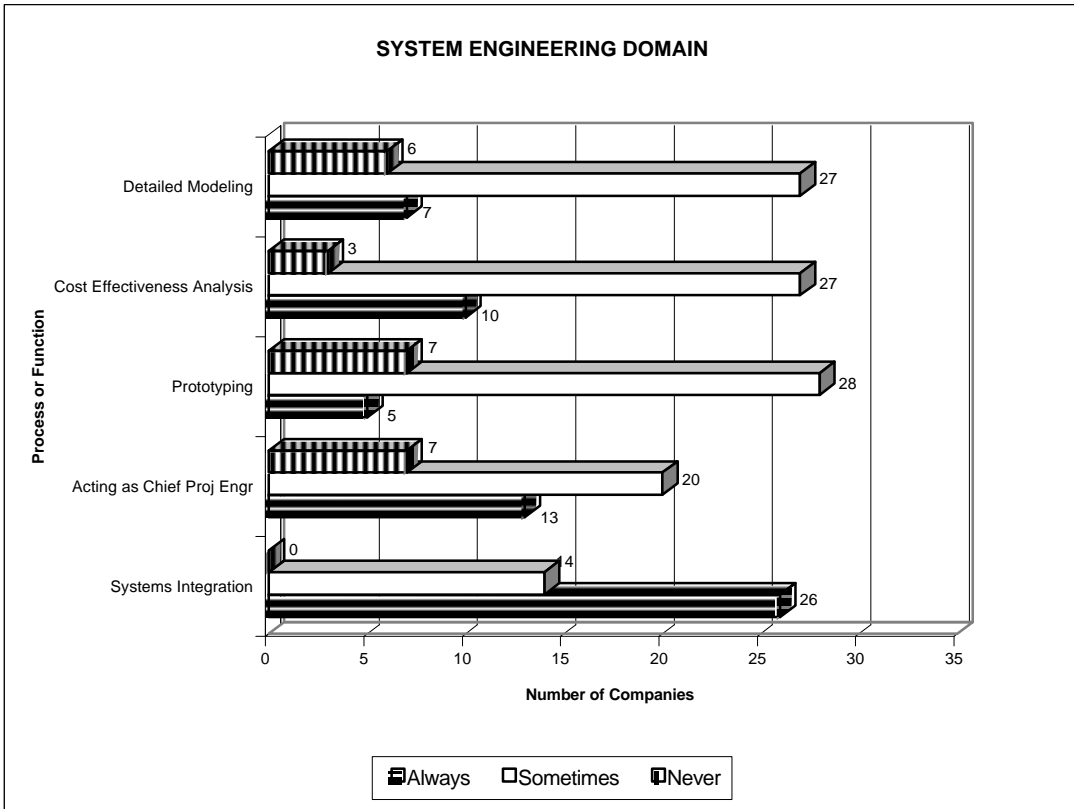


Q18. Indicate whether the following processes or functions are considered a part of the systems engineering domain in your company?

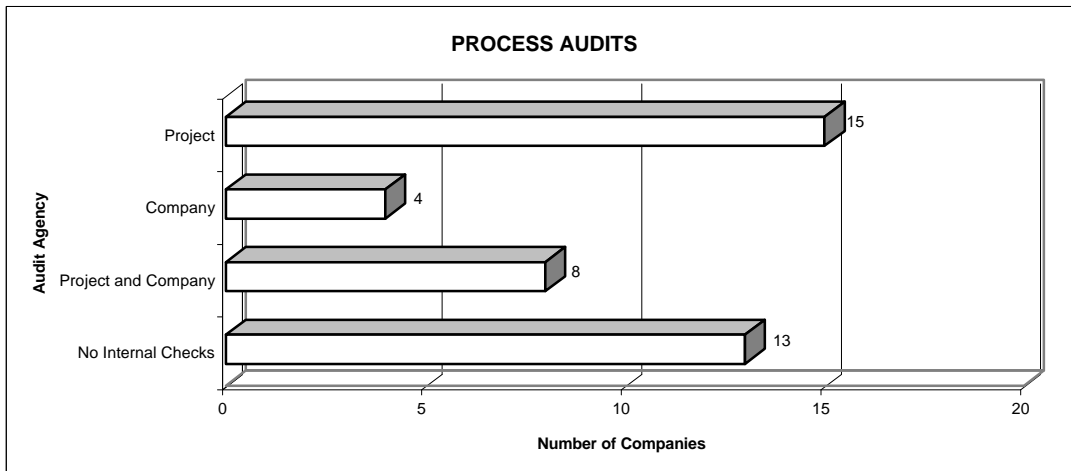




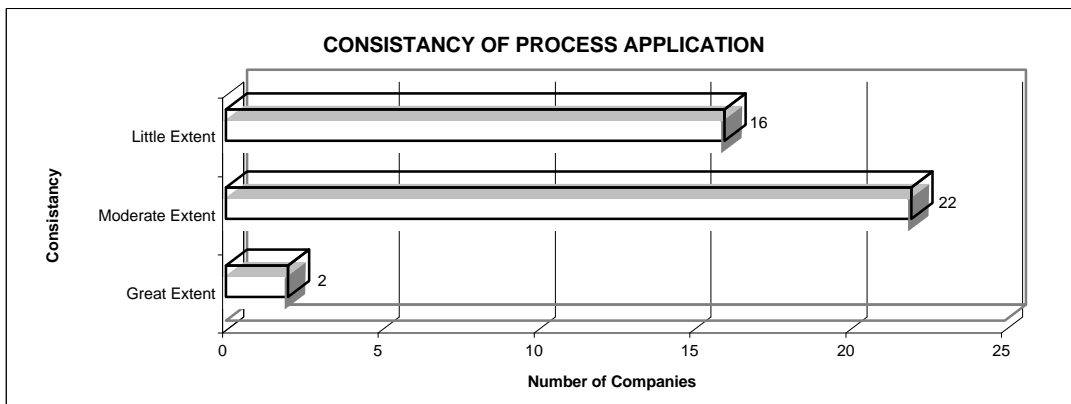




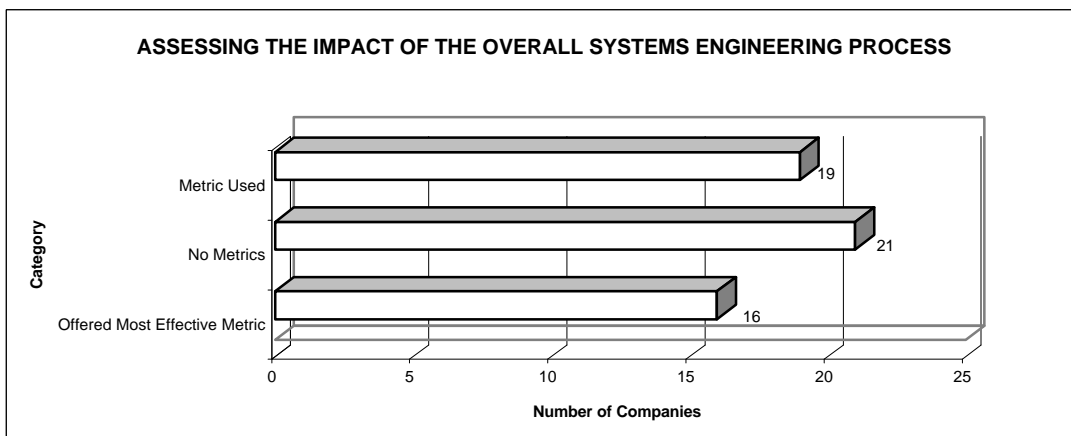
Q19. Are there internal checks made by the company to confirm compliance with the approved systems engineering process, and if so, how are these made?



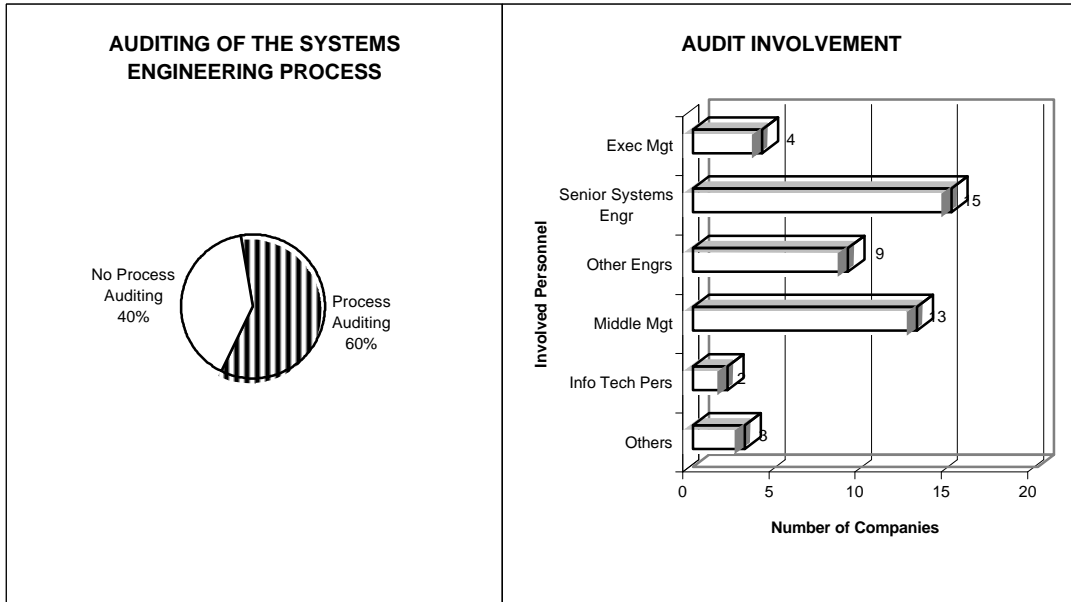
Q20. To what extent is the systems engineering process practiced consistently from project to project within the company?



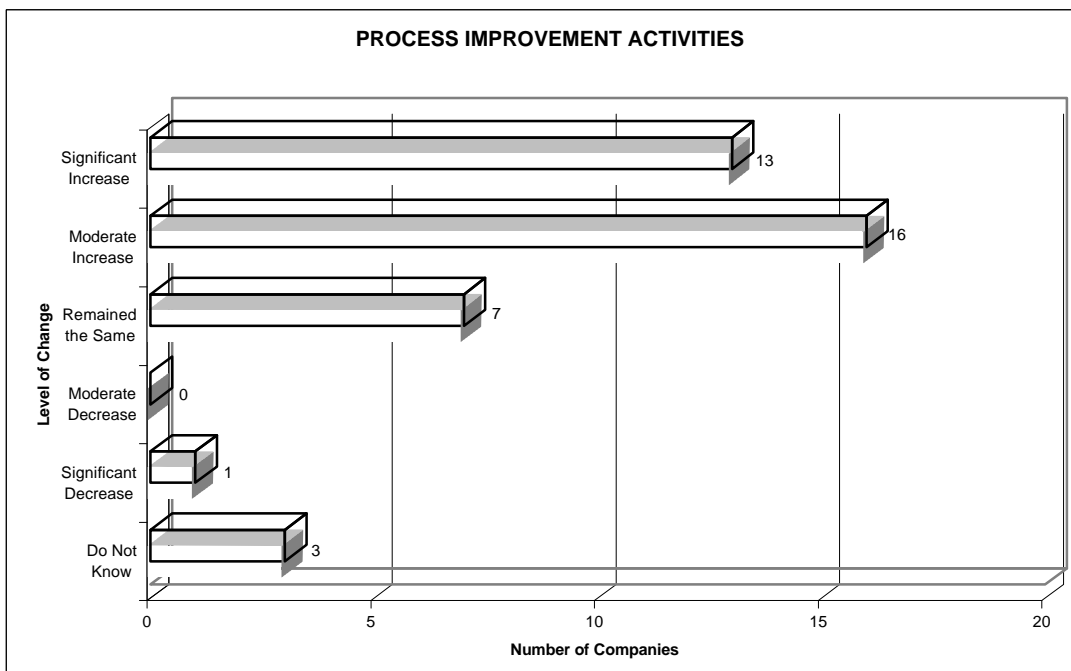
Q21. Do you make use of metrics related to assessing the overall systems engineering process?



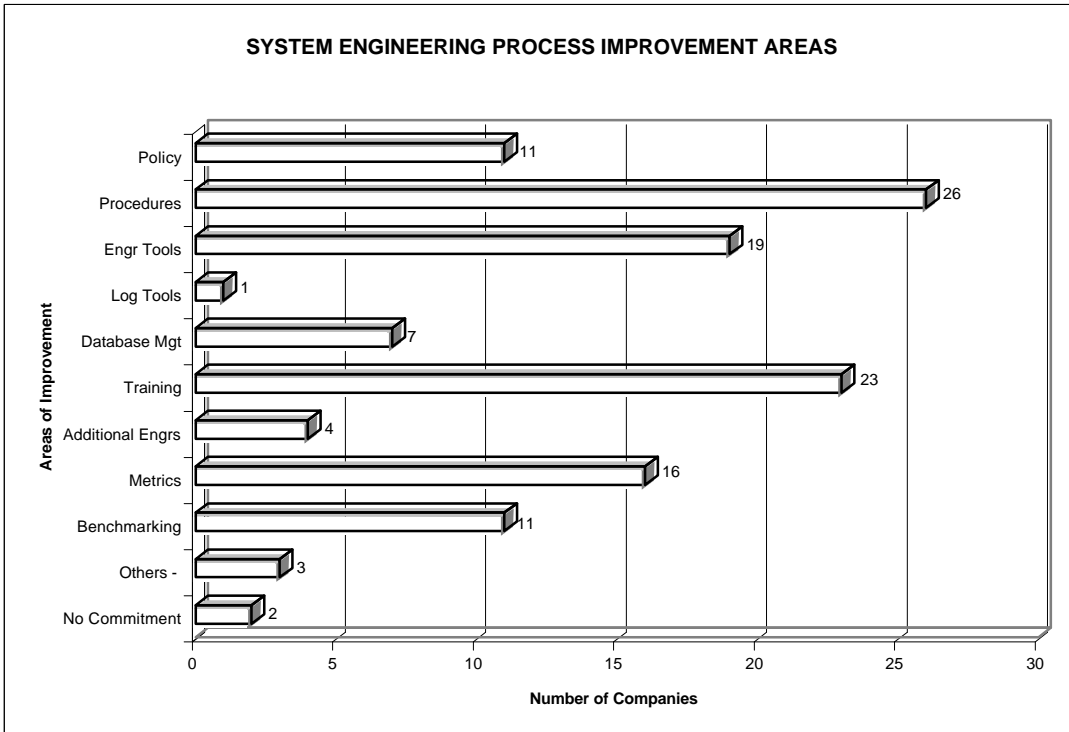
Q22. Is there a steering committee or other group for auditing the results of the application of your systems engineering process and for providing direction for improving the process?



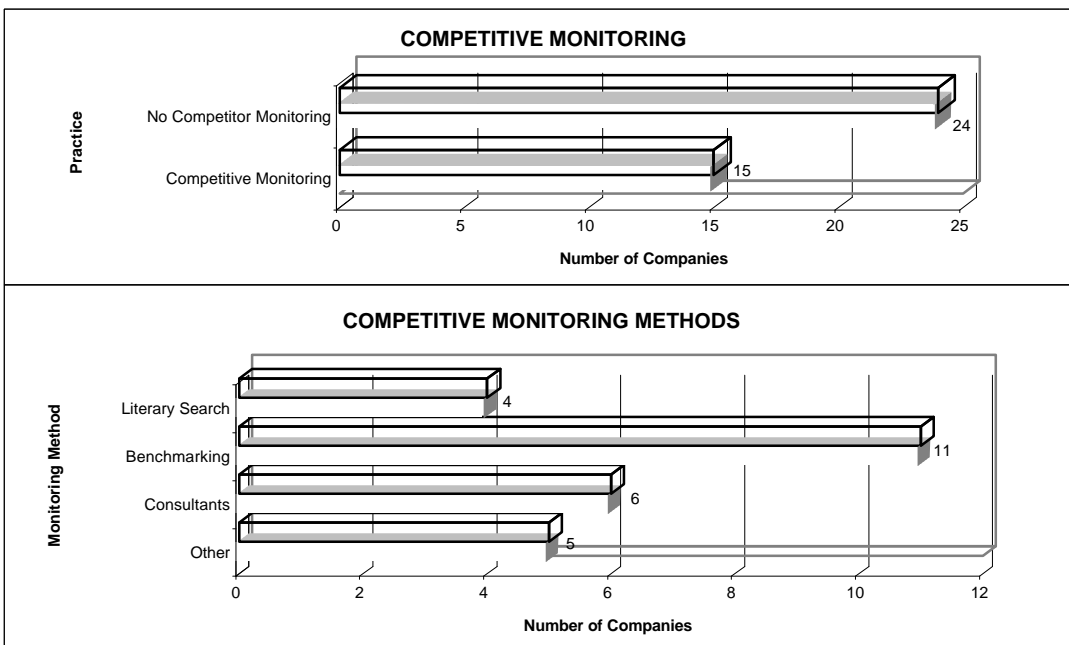
Q23. Have your process improvement activities increased/decreased during the past two years?



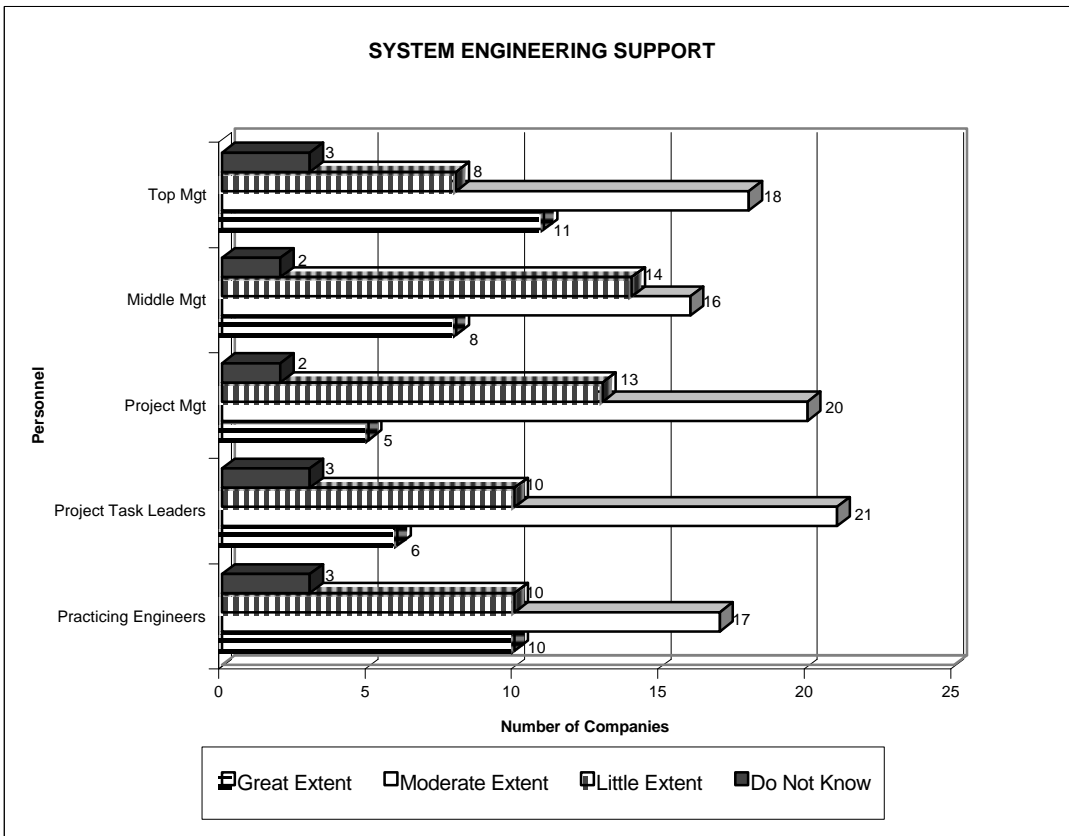
Q24. Is there currently any commitment for improving the systems engineering process, and if so, what areas have been identified for focused study/improvement (maximum of 3)?



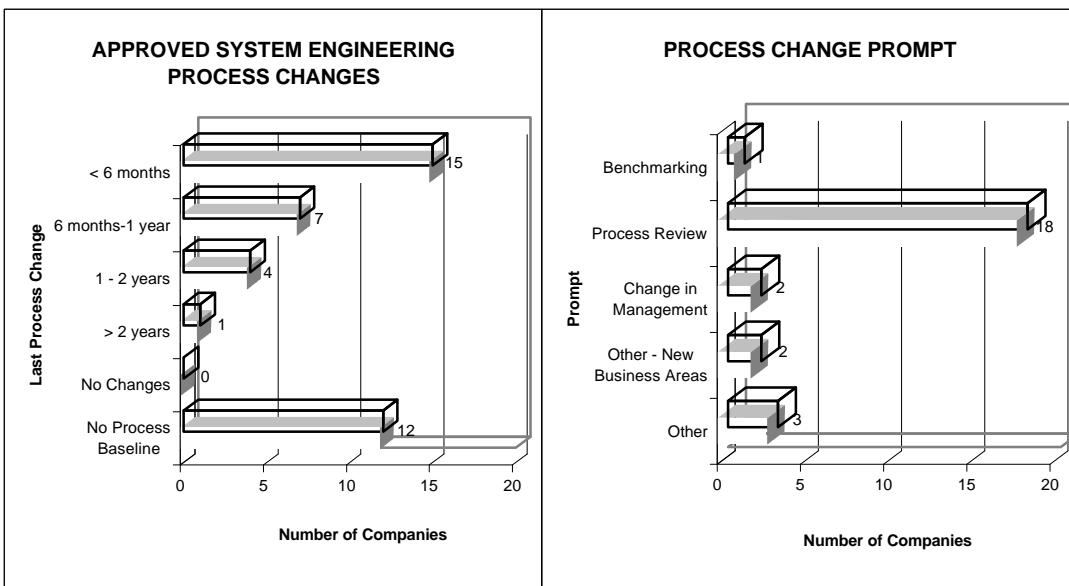
Q25. Are there formal methods in place for monitoring the systems engineering processes used by competitors, and if so, what methods are used?



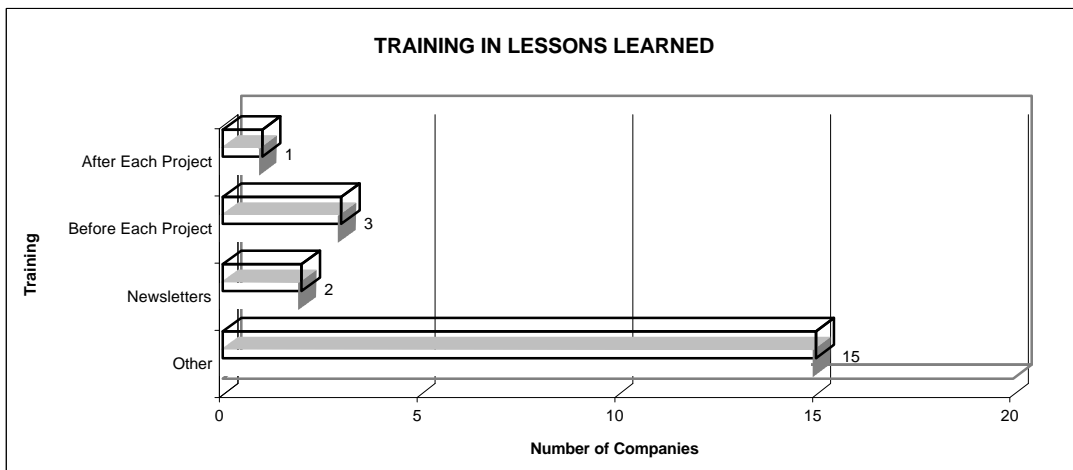
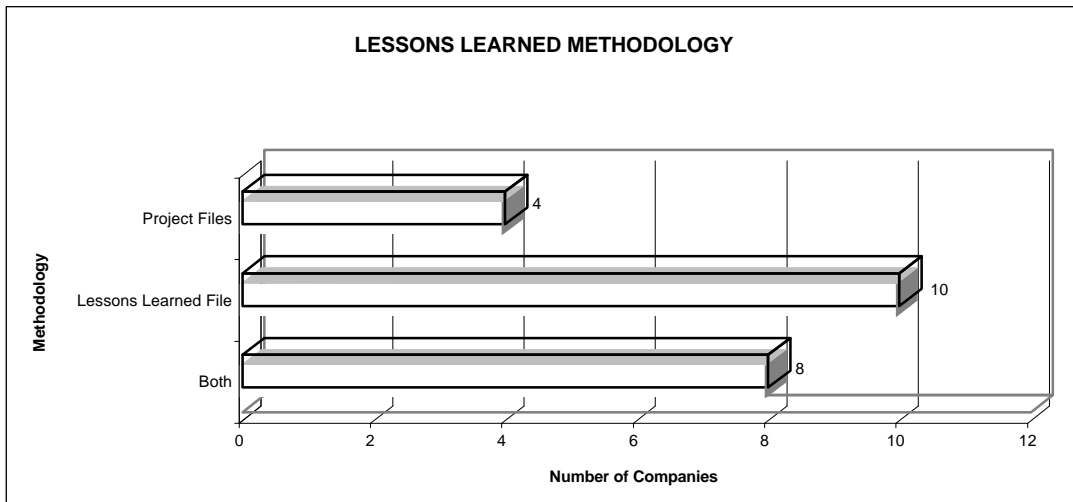
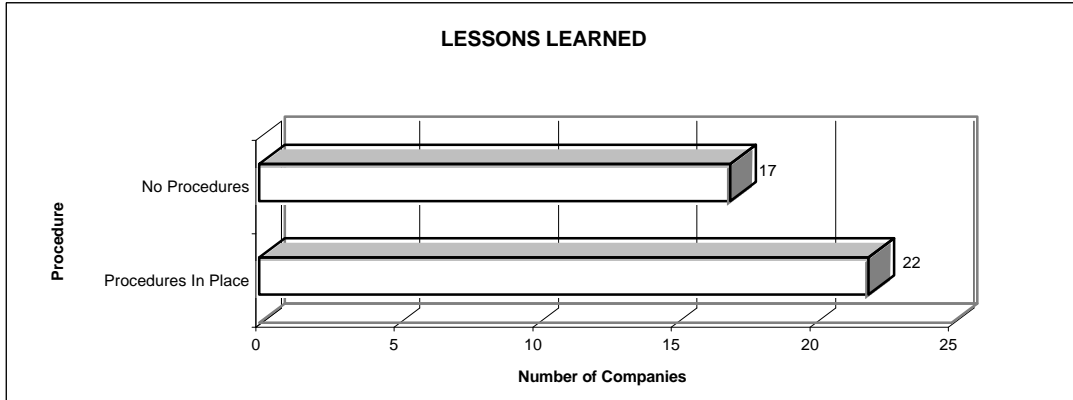
Q26. How would you assess the support for improving systems engineering at your site from the following levels of personnel?



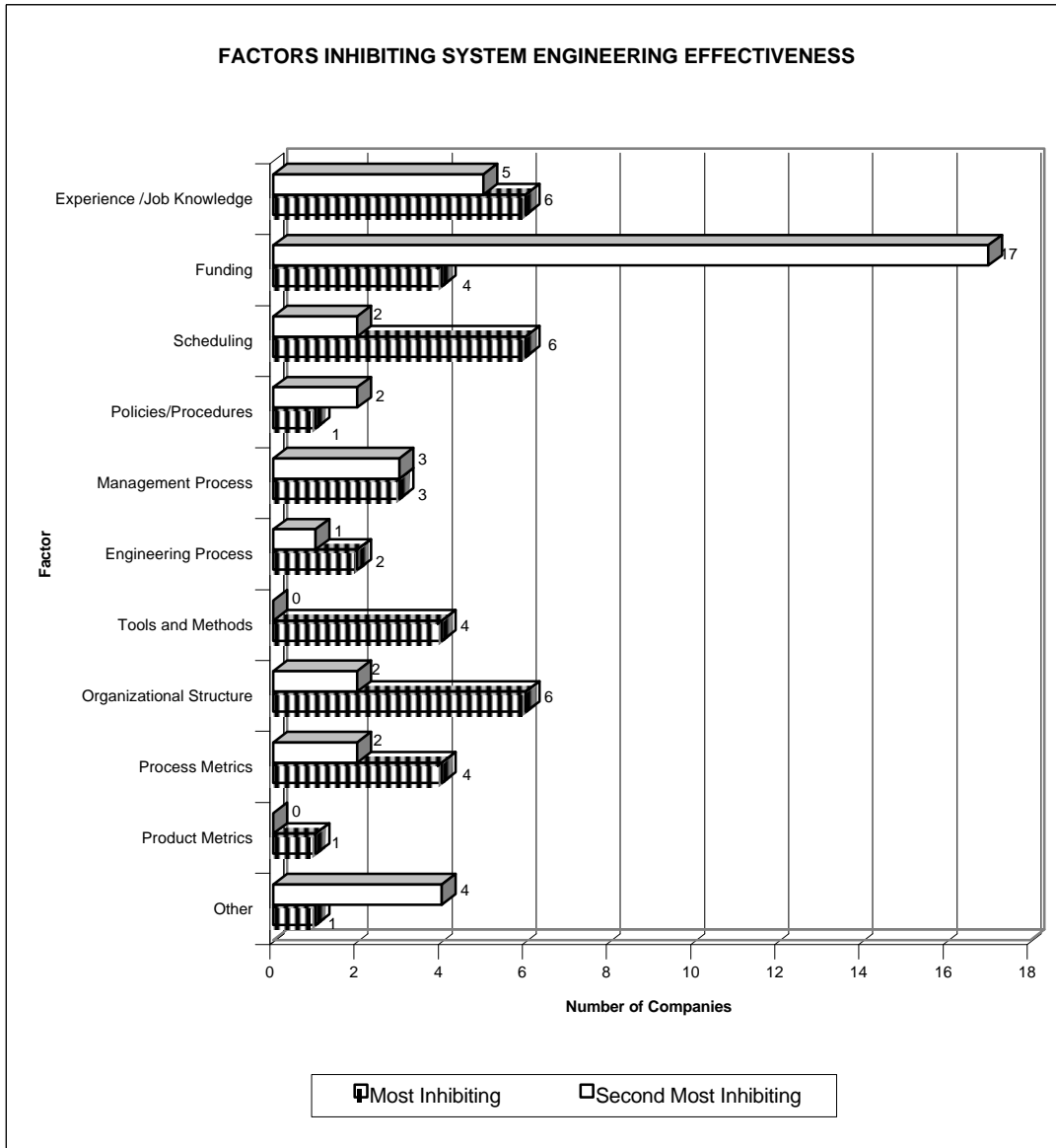
Q27. When was the last time the approved systems engineering process was amended, and what prompted the change?



Q28. Are lessons learned from use of the systems engineering process maintained and communicated to future projects, and if so, how is this accomplished?

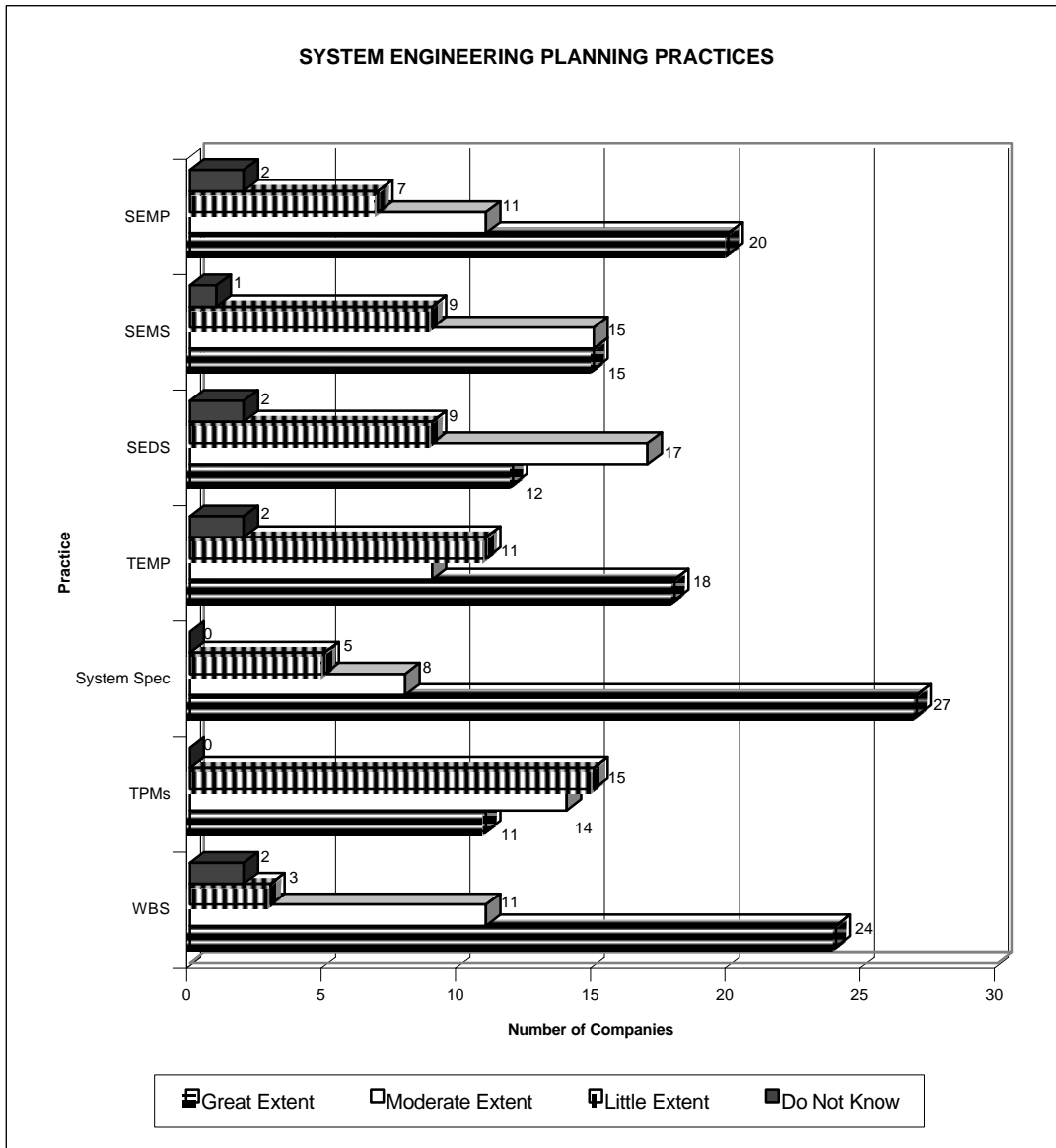


Q29. What are the two greatest inhibiting factors to developing a more effective systems engineering program?

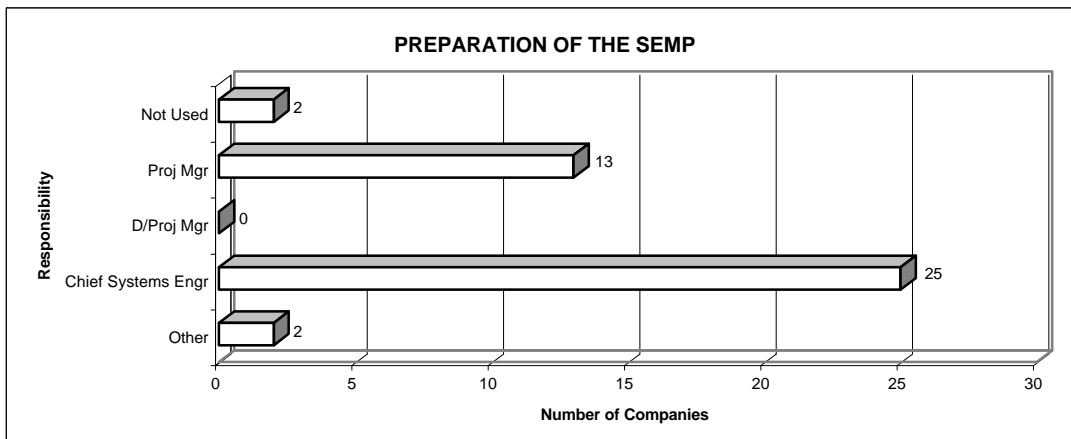


## SYSTEMS ENGINEERING PLANNING

Q30. To what extent do you require the following practices be done in support of your process?

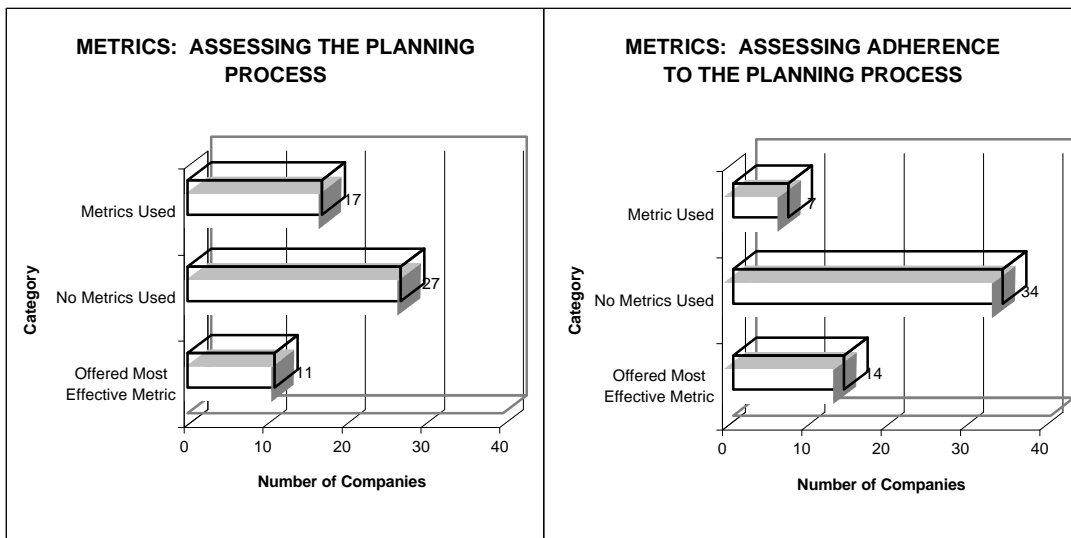


Q31. Who is responsible for preparing the SEMP or equivalent document?



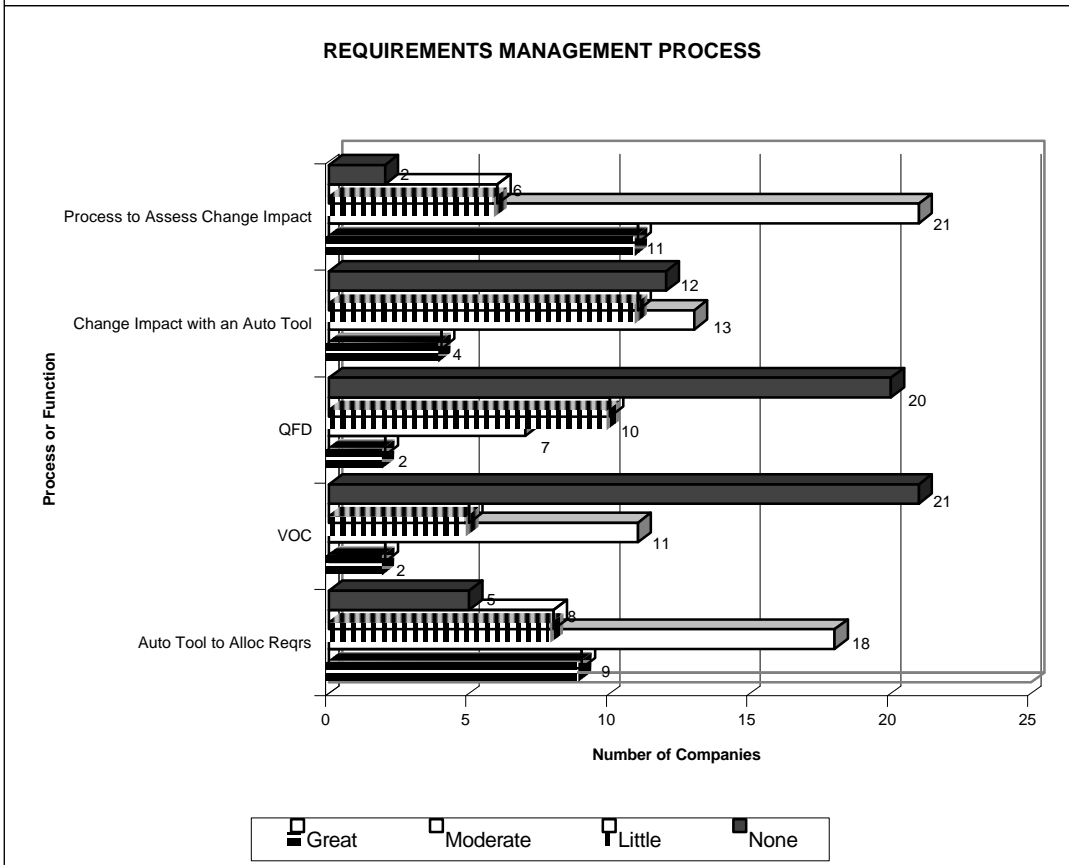
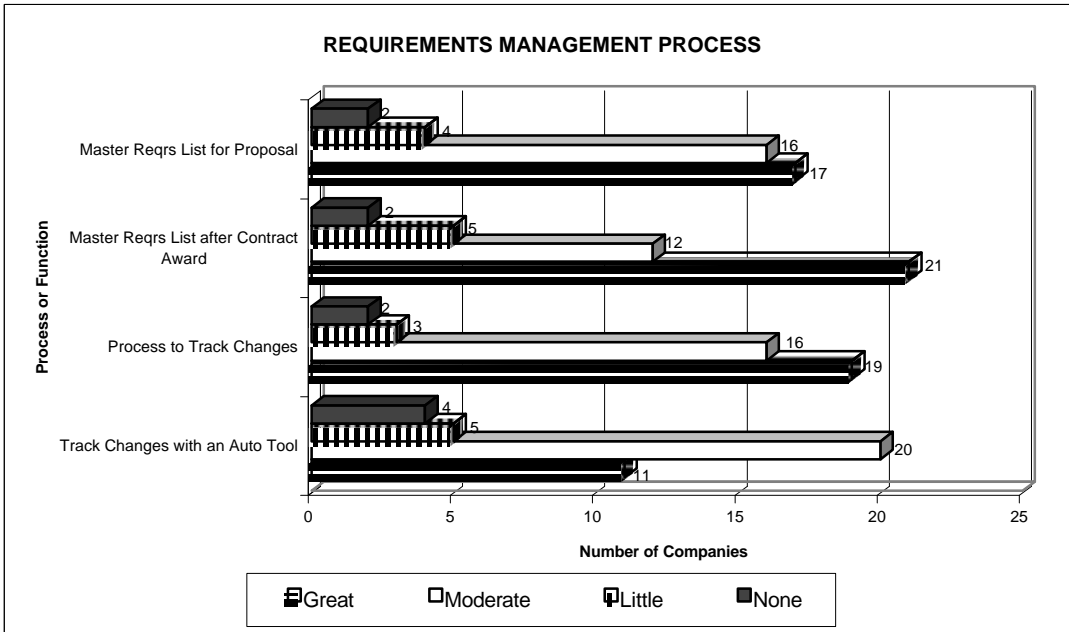
Q32. Do you make use of metrics related to your process of systems engineering planning? If yes, what is being measured, and if not, which metric do you believe could be most effectively used to assess your process?

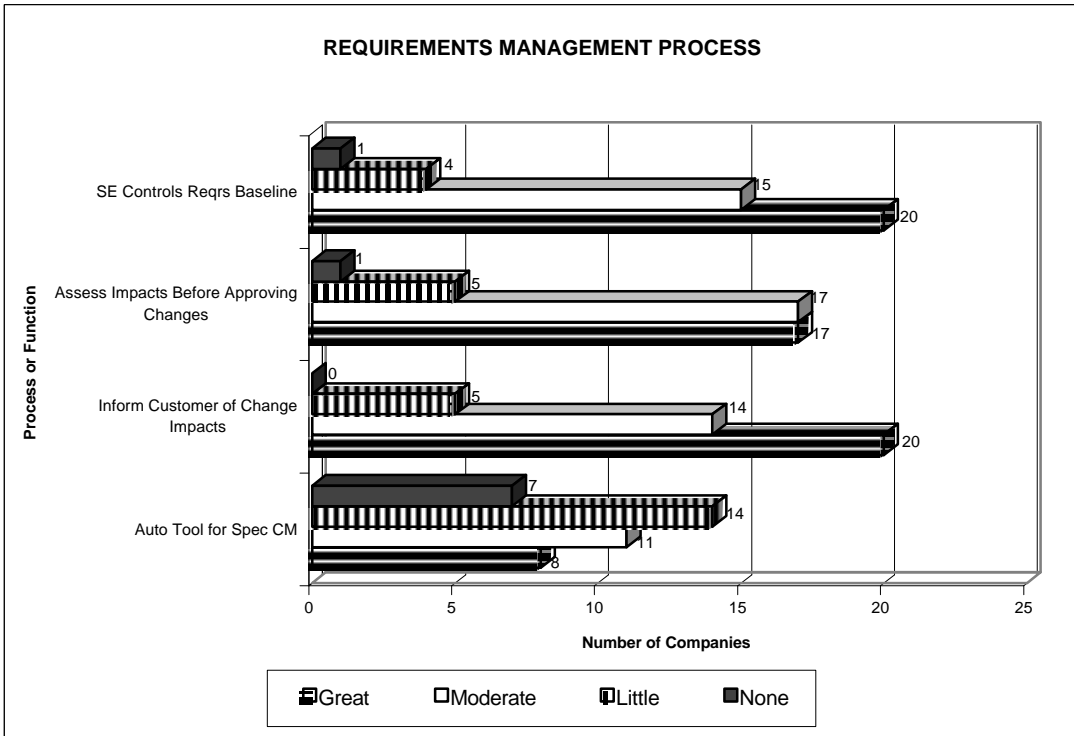
Q33. Do you make use of metrics related to how well you are performing systems engineering planning relative to your process? If yes, what is being measured, and if not, which metric do you believe could be most effectively used?



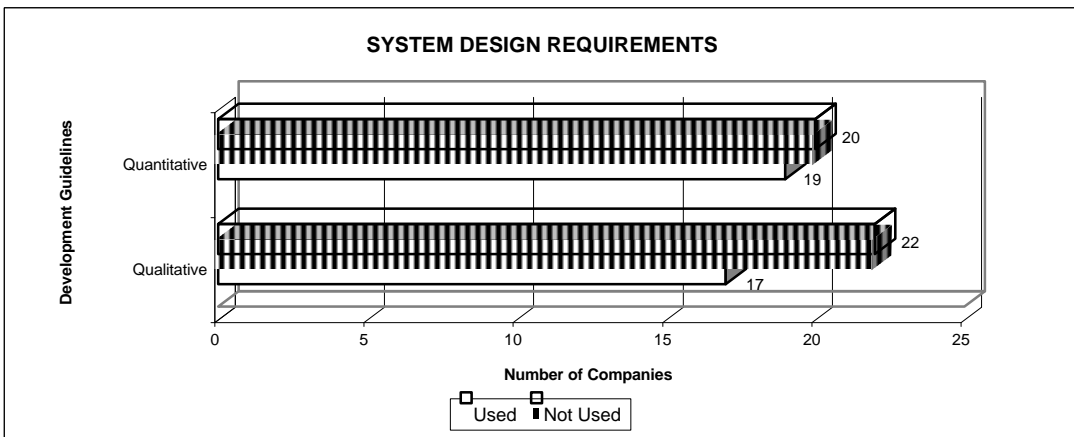
# SYSTEMS ENGINEERING MANAGEMENT

Q34. To what extent does your systems engineering process require doing the following?

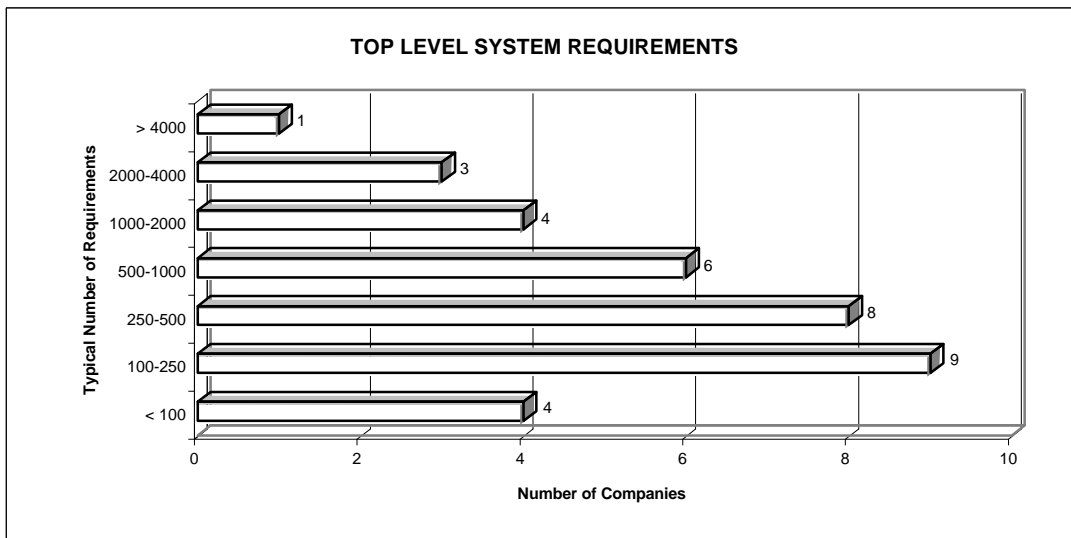




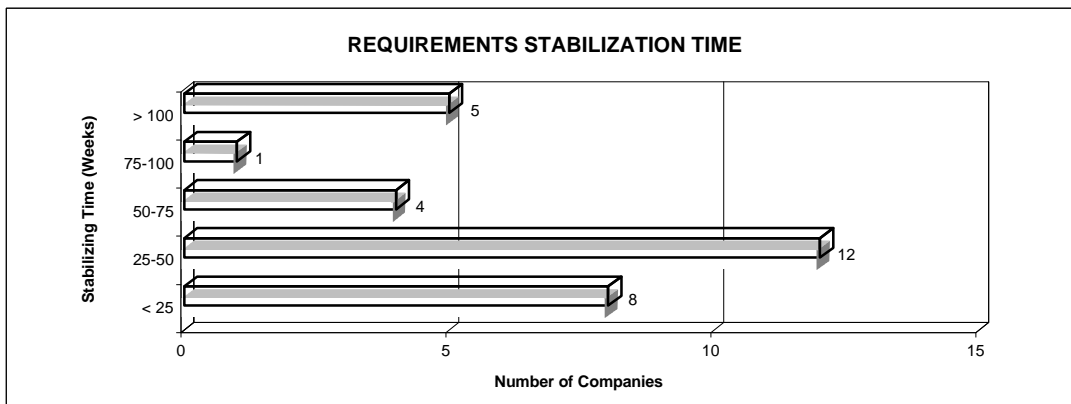
Q35. For the development of system design requirements, are guidelines used for determining the quantitative or qualitative natures of these requirements?



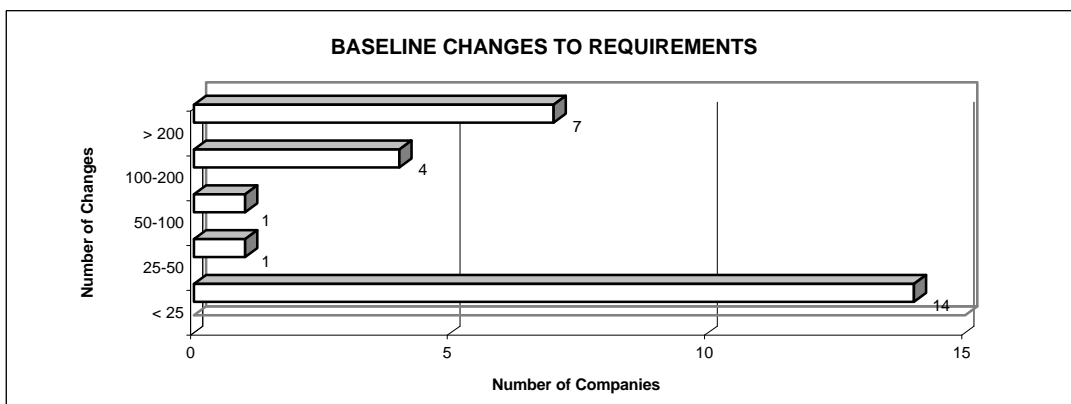
Q36. What is the typical number of requirements in a top level system specification?



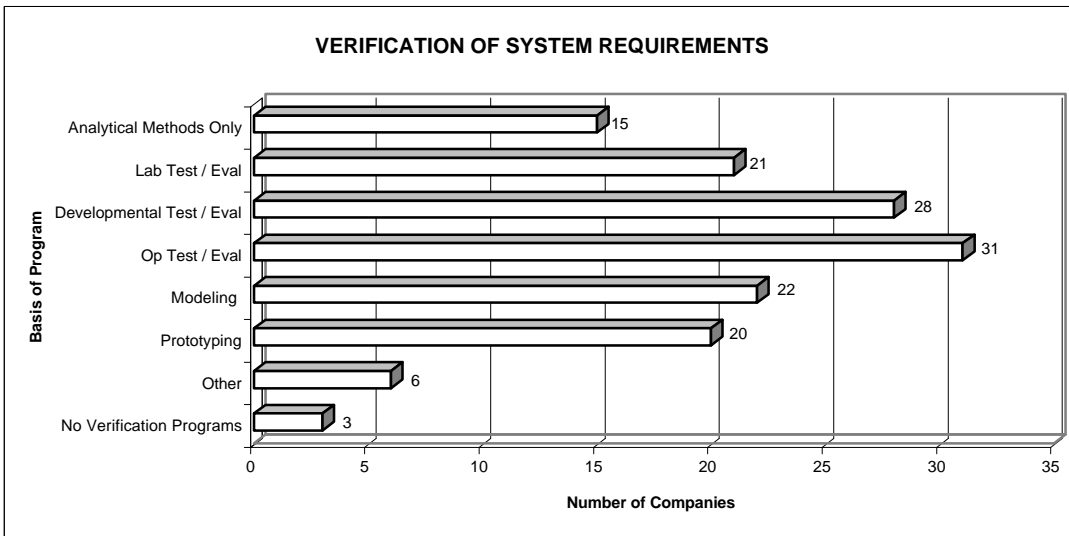
Q37. What is the typical time it takes for requirements to stabilize after contract award?



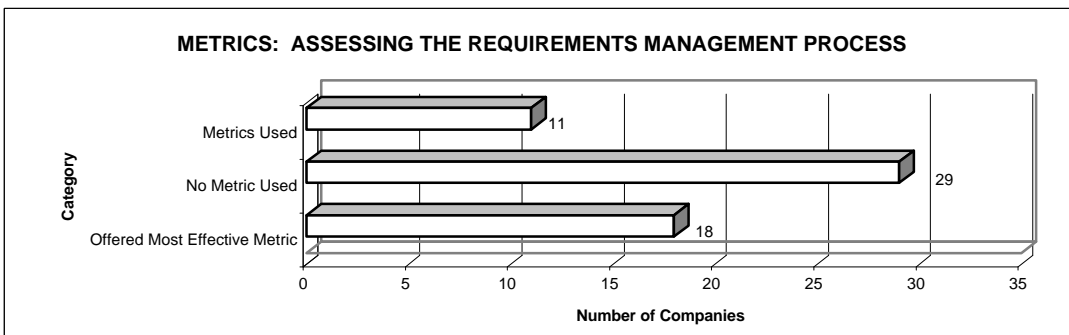
Q38. What is the typical number of baseline changes processed on a typical contract after contract award?



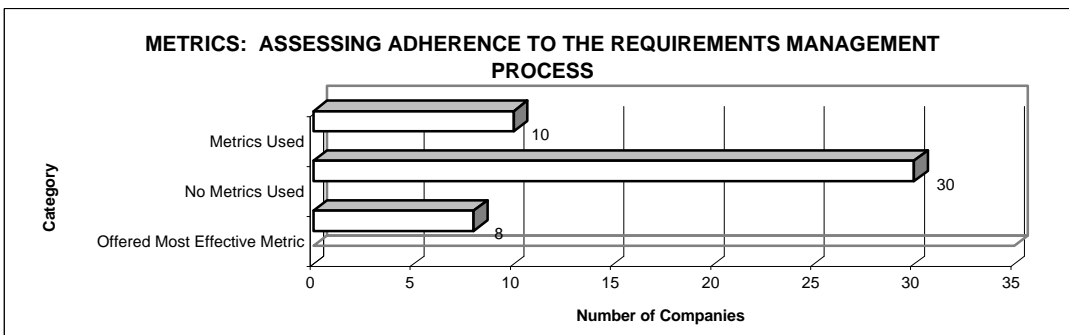
Q39. Has the company established a test and evaluation program for verification that system requirements have been met, and if yes, what is the basis of this program?



Q40. Do you make use of metrics related to your process of requirements management? If yes, what is being measured? If not, which metric do you believe could be most effectively used to assess your process?

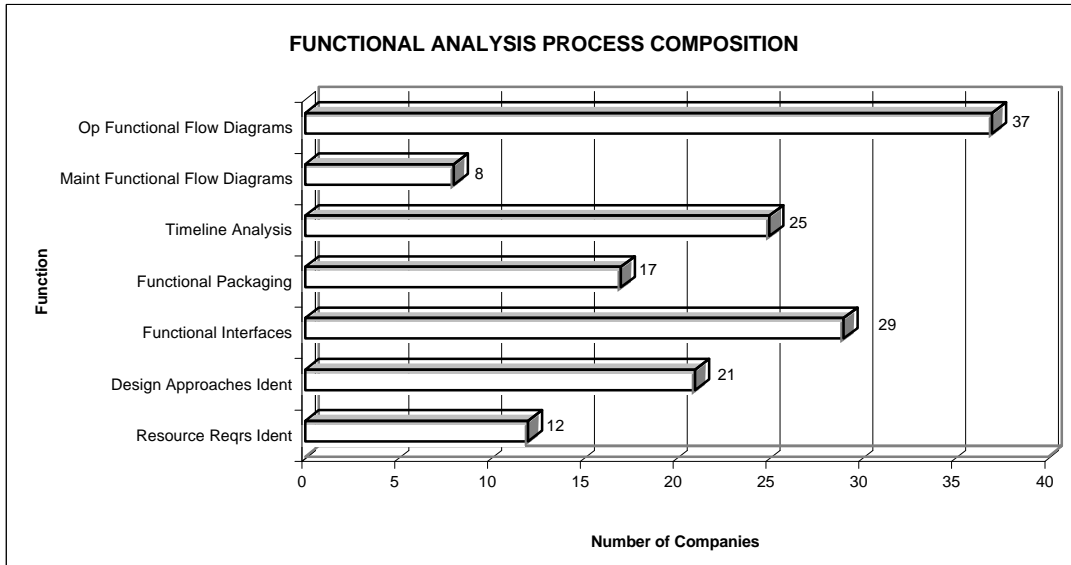


Q41. Do you make use of metrics related to how well you are performing requirements management? If yes, what is being measured? If not, which metric do you believe could be most effectively used?

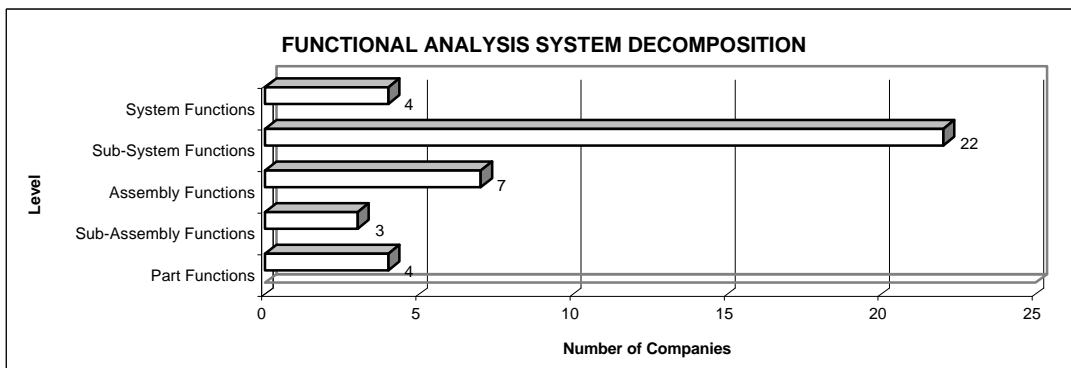


## FUNCTIONAL/PERFORMANCE ANALYSIS

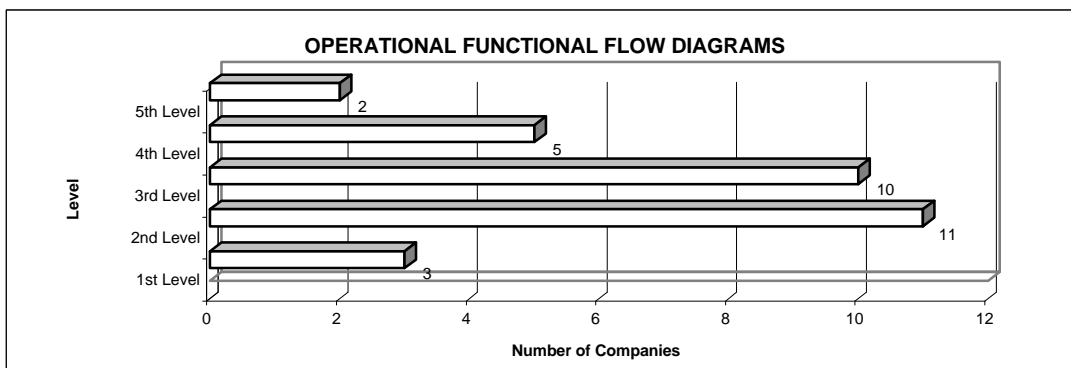
Q42. What comprises your functional analysis process?



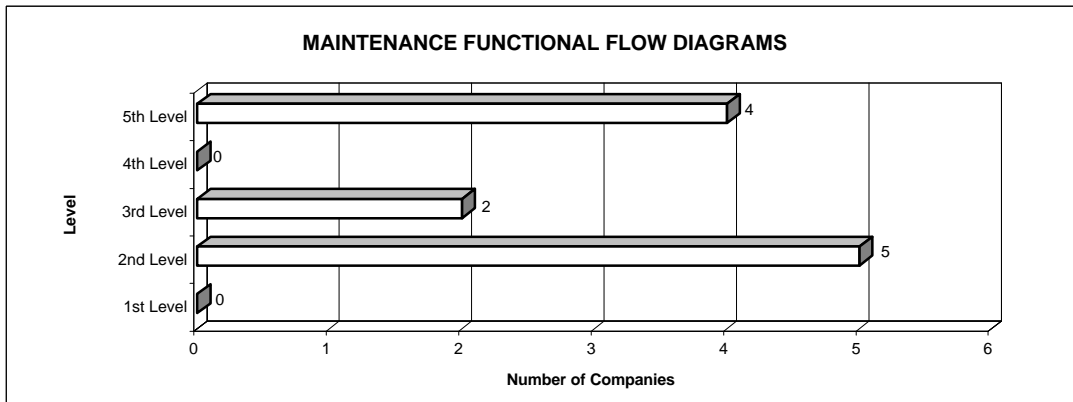
Q43. To what level of system decomposition is formal functional analysis completed?



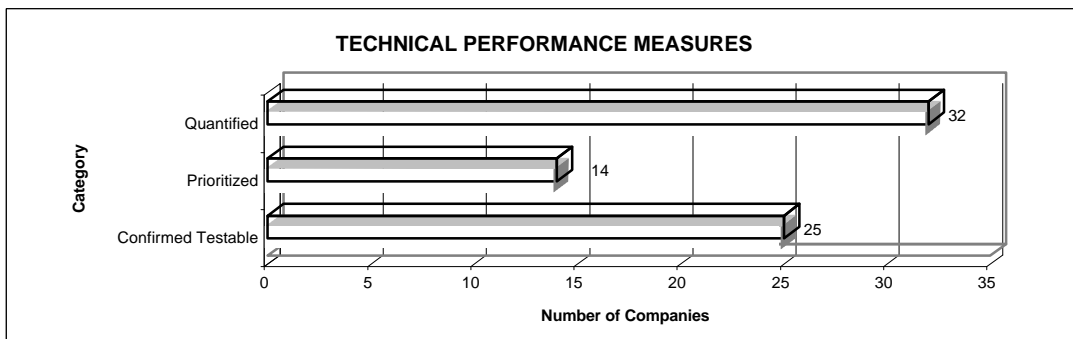
Q44. To what level are operational functional flow diagrams prepared?



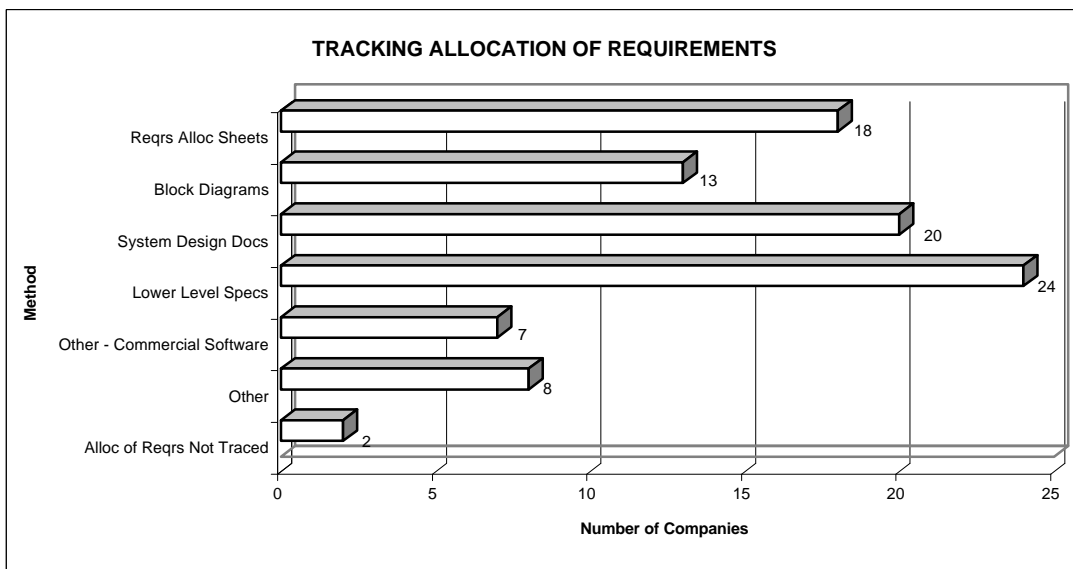
Q45. To what level are maintenance functional flow diagrams prepared?



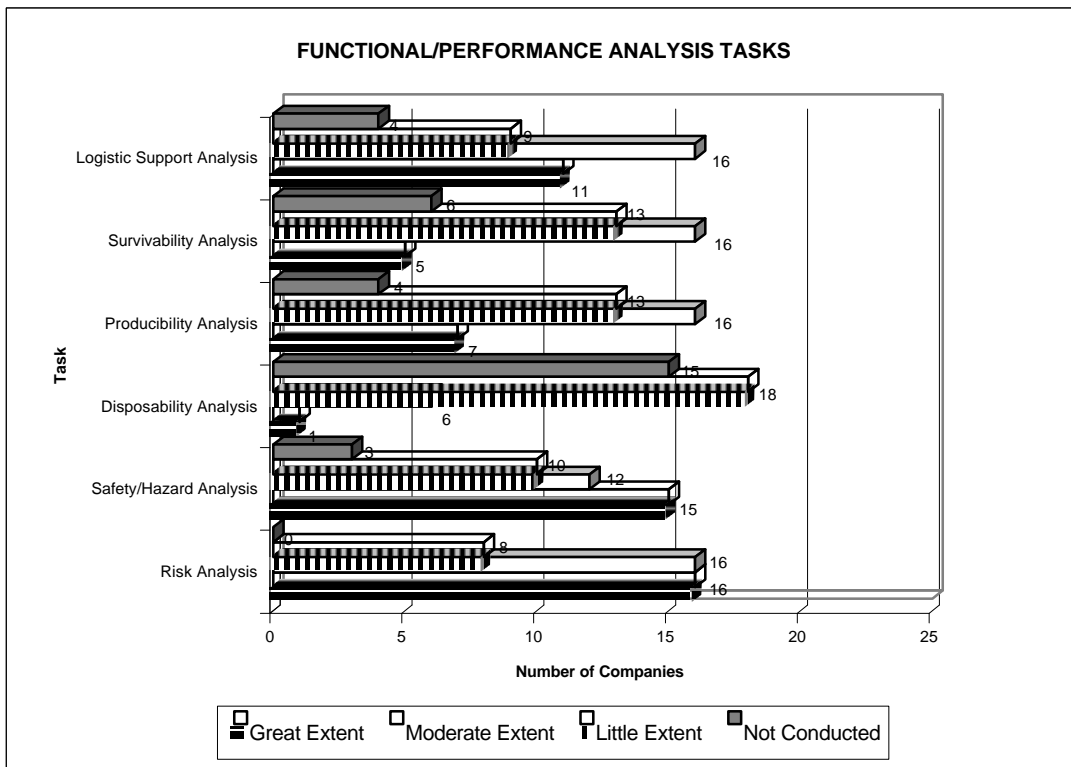
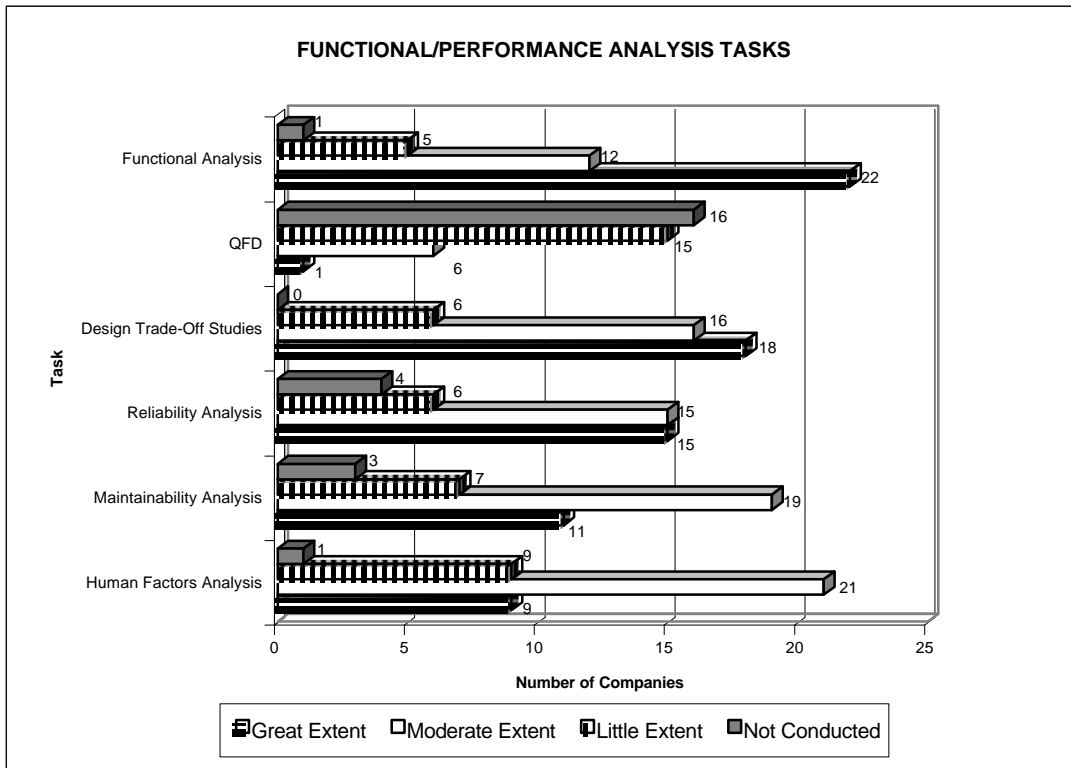
Q46. During the allocation of requirements process, the result of which is the allocation of TPMs to sub-systems and below, are TPMs:



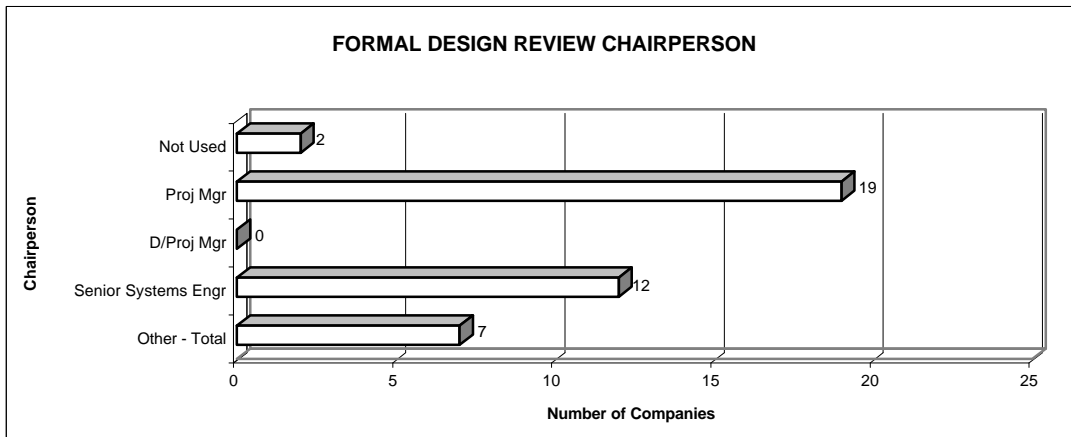
Q47. Do you trace the allocation of requirements throughout the system development, and if so, what methods are used for this tracking function?



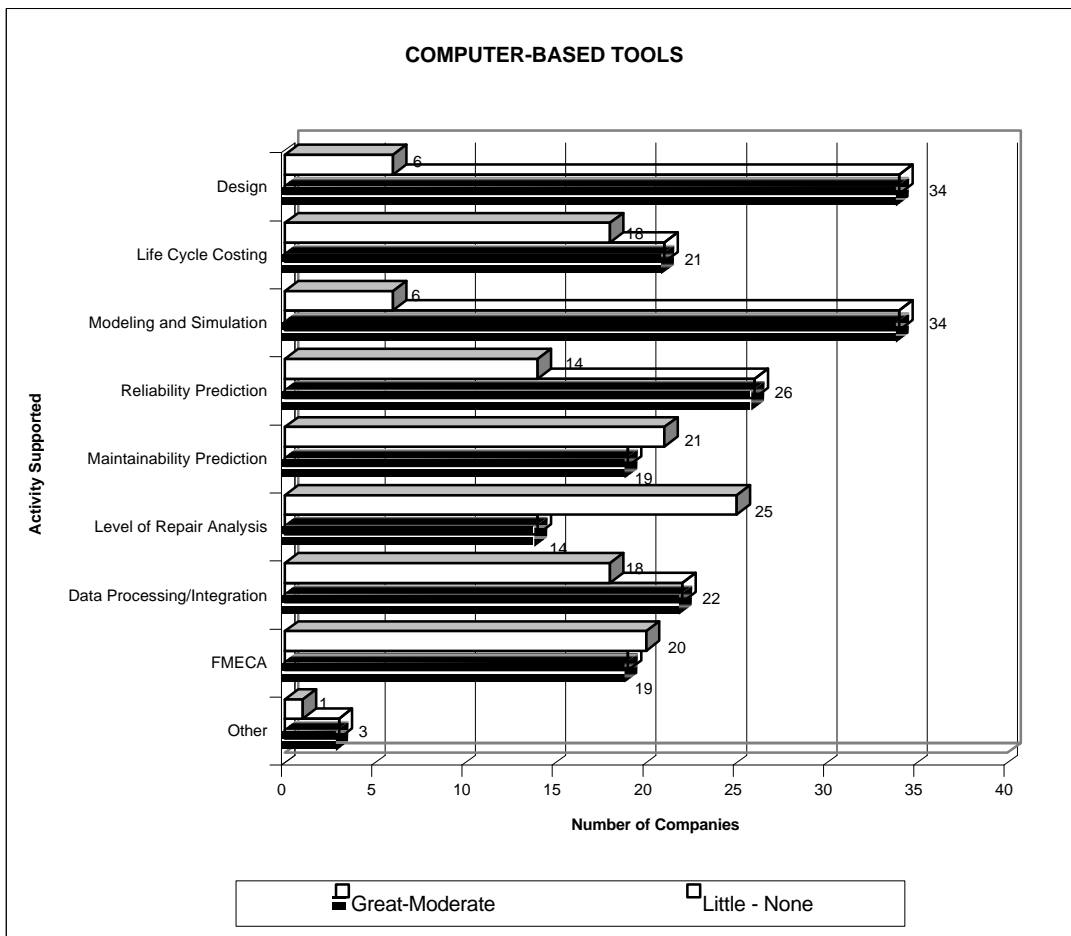
Q48. To what extent do you require the following tasks be conducted?



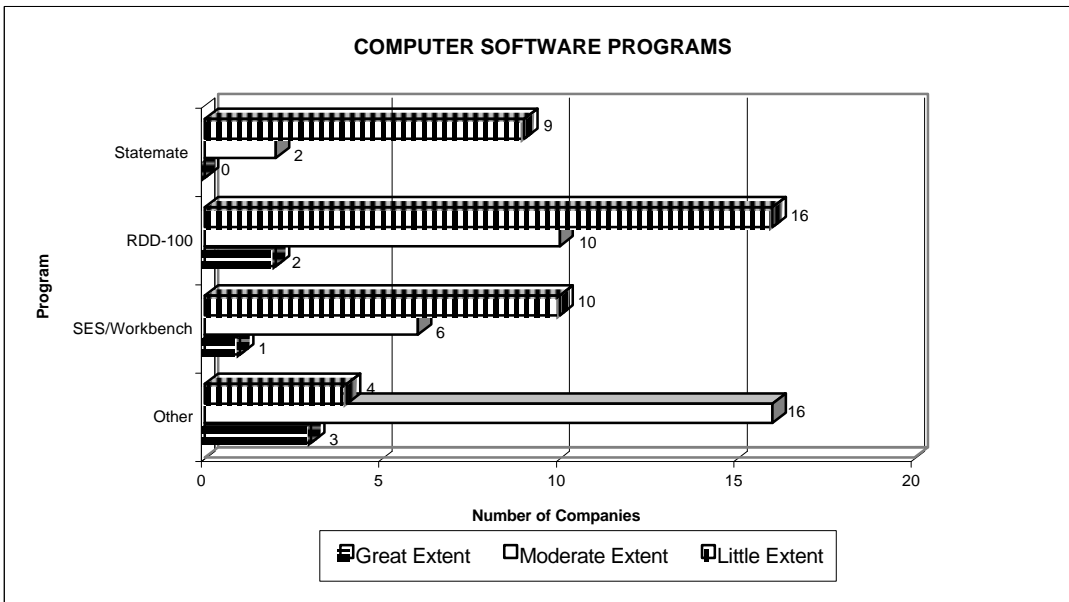
Q49. Who chairs your formal design reviews?



Q50. To what degree does your systems engineering activity make use of computer-based tools to support the following activities:

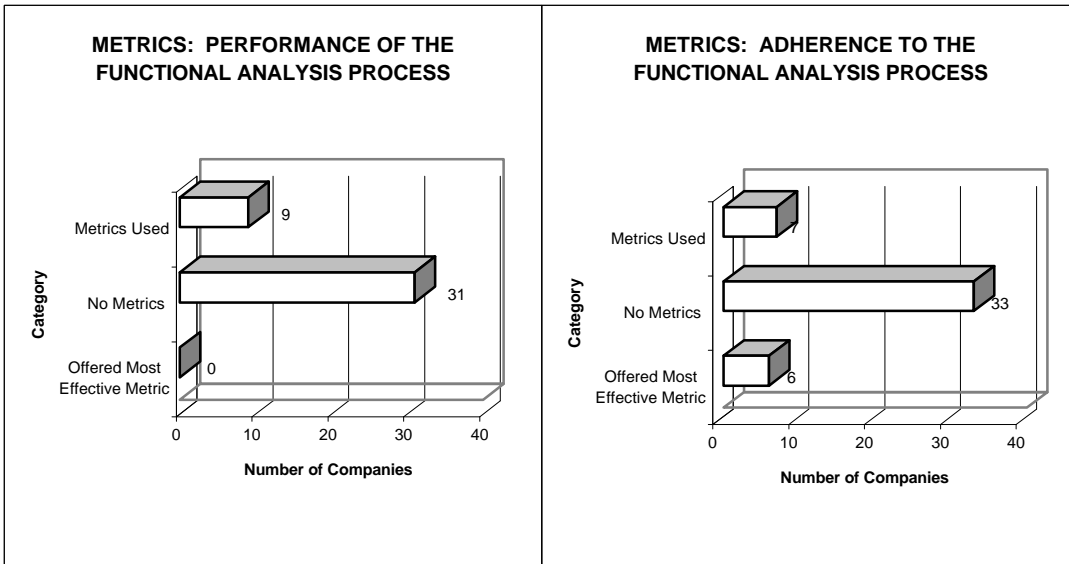


Q51. To what extent do you use the following software programs in support of functional/performance analysis?



Q52. Do you make use of metrics related to your functional/performance analysis process? If yes, what is being measured? If not, which metric do you believe could be most effectively used to assess your process?

Q53. Do you make use of metrics related to how well you are performing your functional/performance analysis relative to your process? If yes, what is being measured? If not, which metric do you believe could be most effectively used?

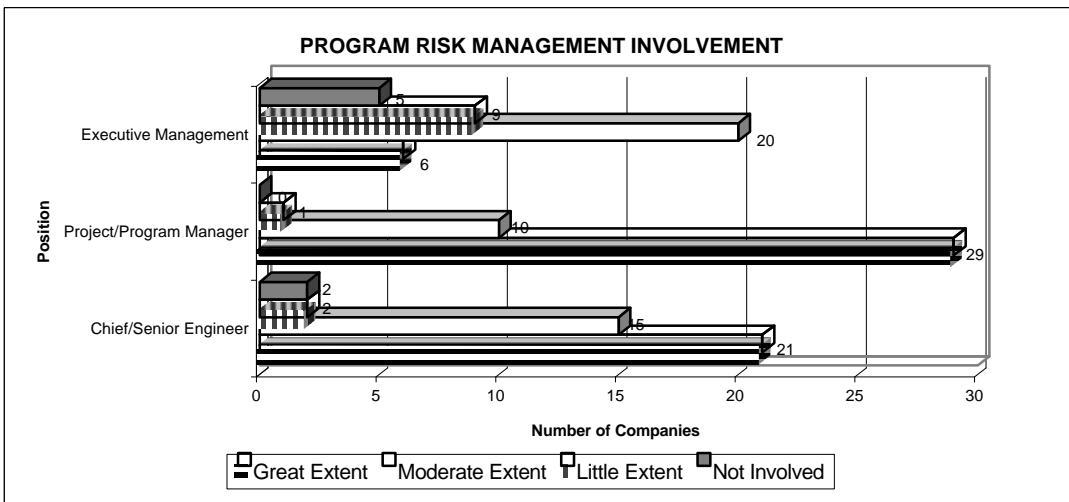


## RISK MANAGEMENT

Q54. Is risk assessment completed and, if so, who has top responsibility for risk management?

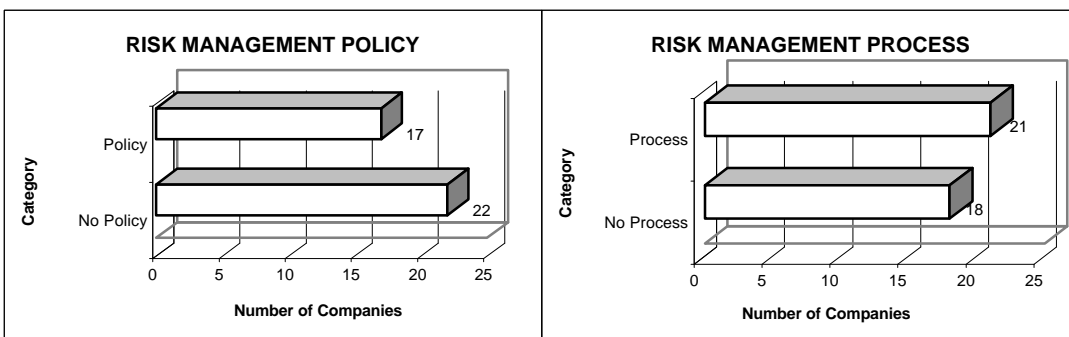


Q55. To what extent are each of the following persons involved in program risk management?

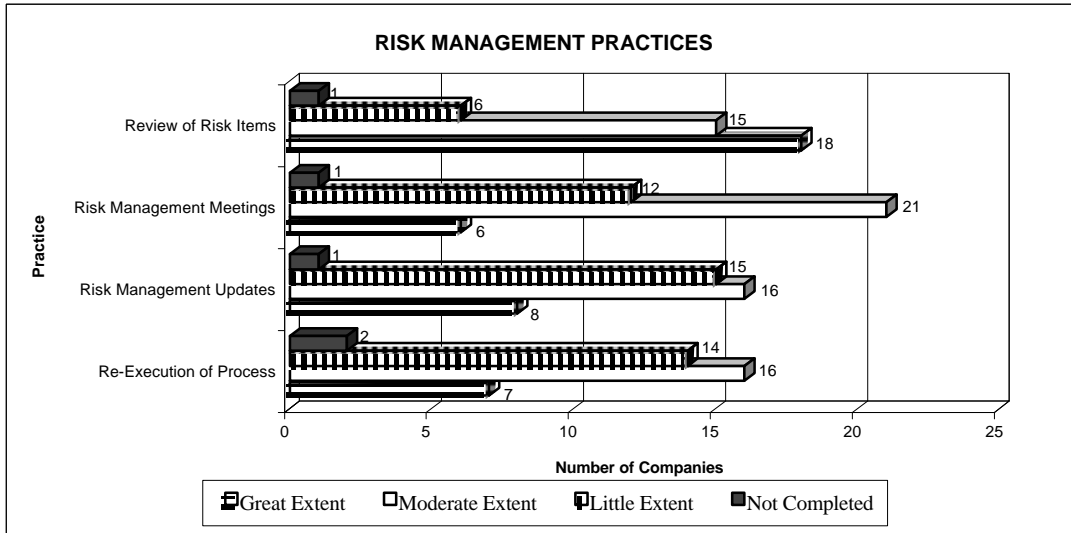


Q56. Do you have a formal risk management statement for use during the systems engineering process?

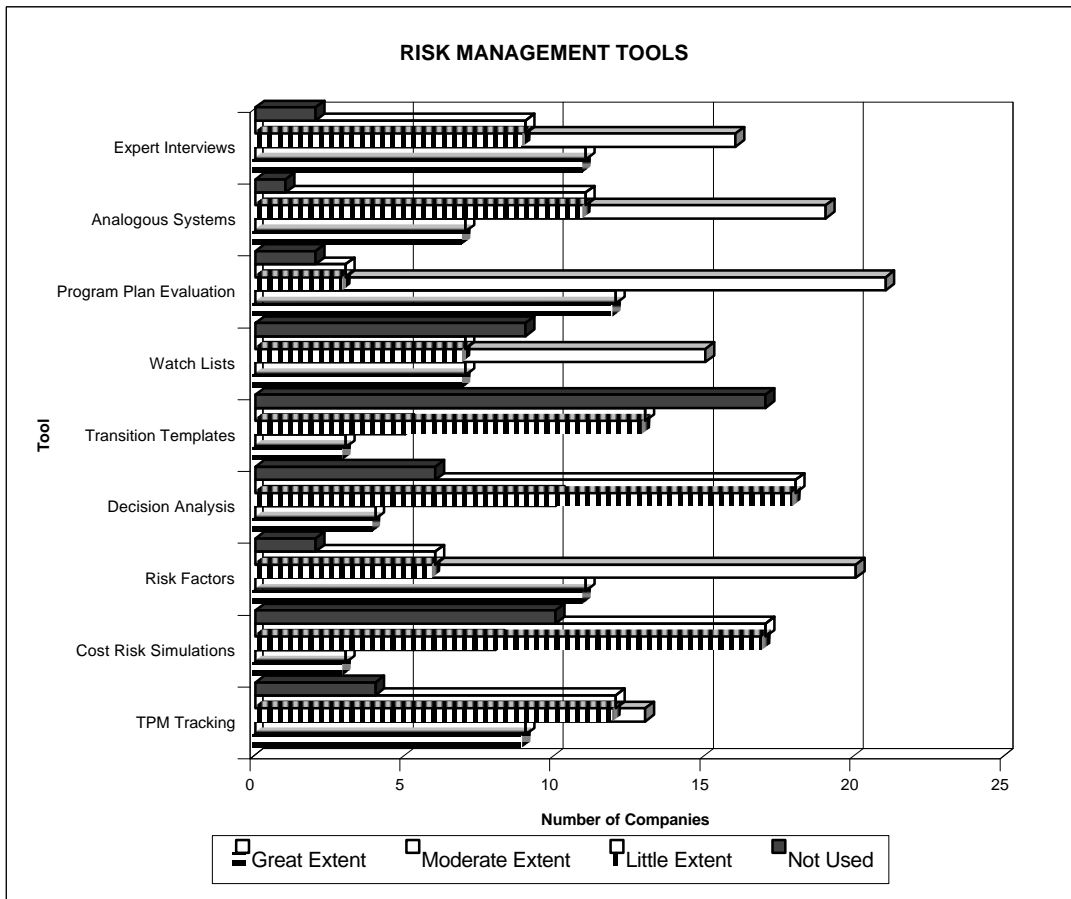
Q57. Do you have a formalized, documented process for conducting risk management?



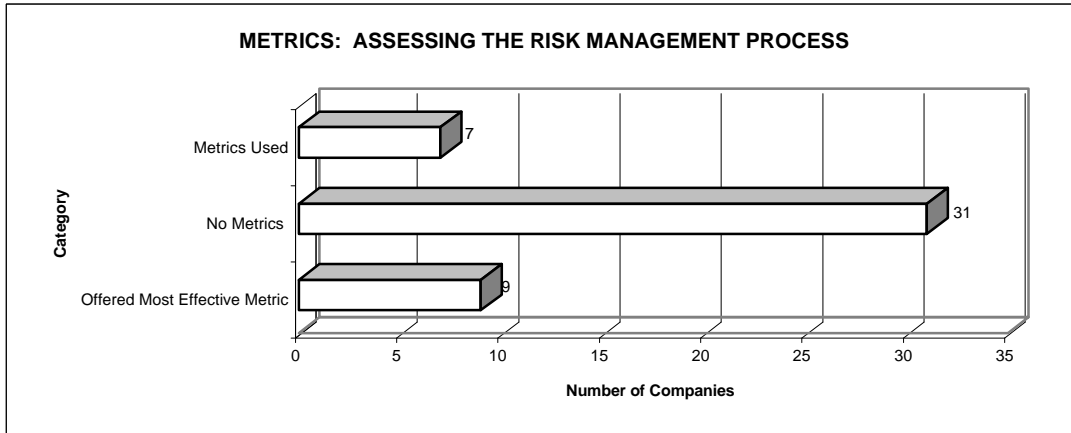
Q58. To what extent do you practice the following when you conduct risk management?



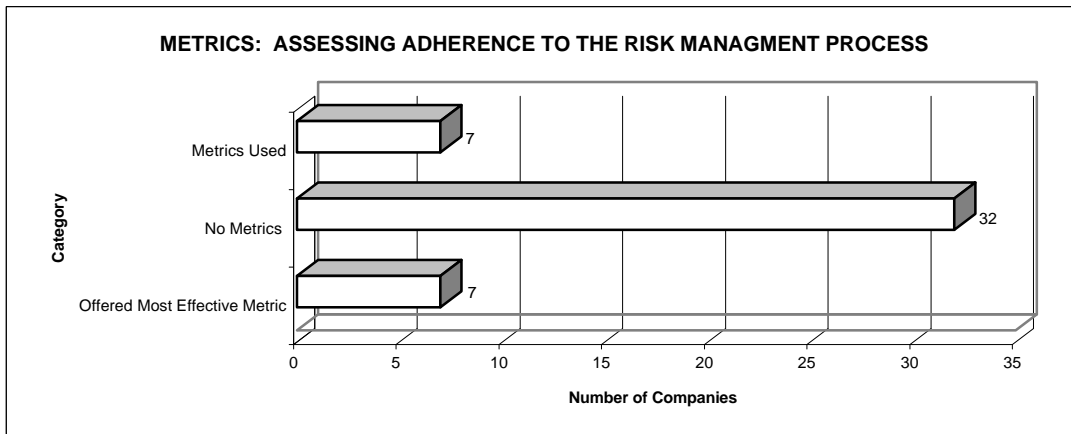
Q59. To what extent do you use the following tools or techniques in the conduct of your risk management?



Q60. Do you make use of metrics related to your process of risk management? If yes, what is being measured? If not, which metric do you believe could be most effectively used to assess your process?

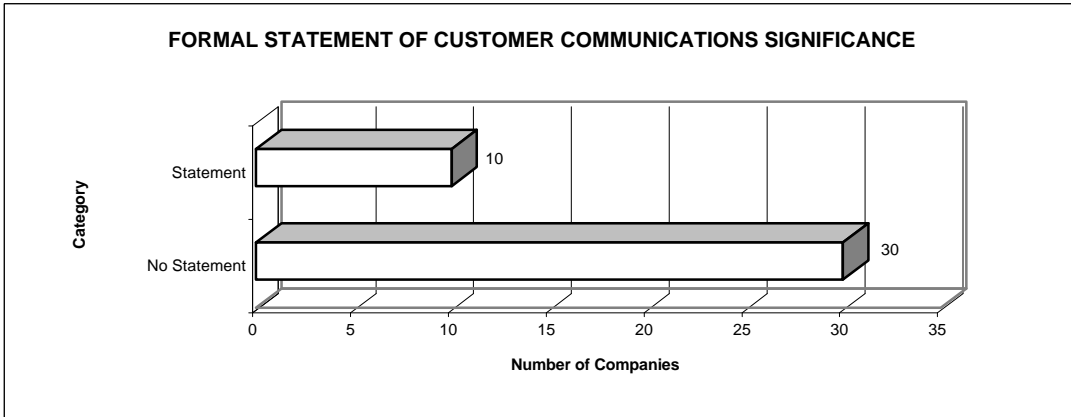


Q61. Do you make use of metrics related to how well you are following your risk management process? If yes, what is being measured? If not, which metric do you believe could be most effectively used?

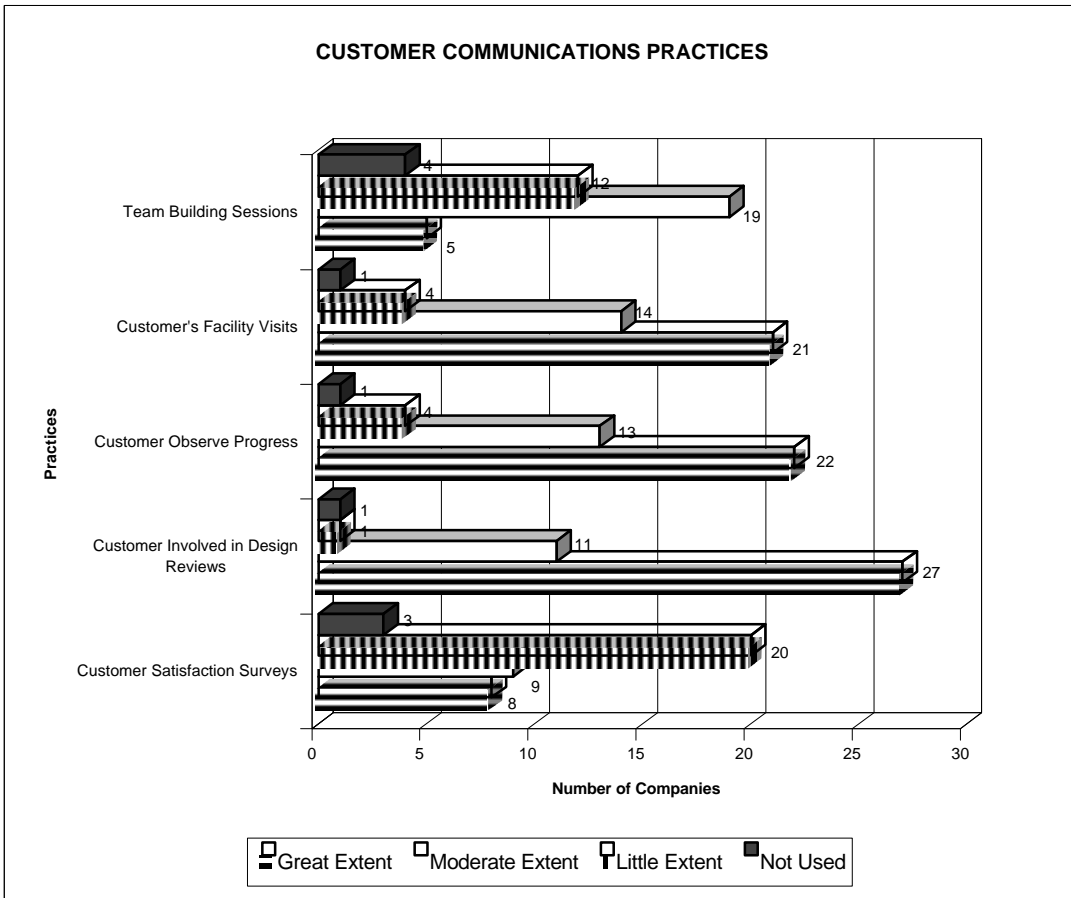


## CUSTOMER COMMUNICATIONS

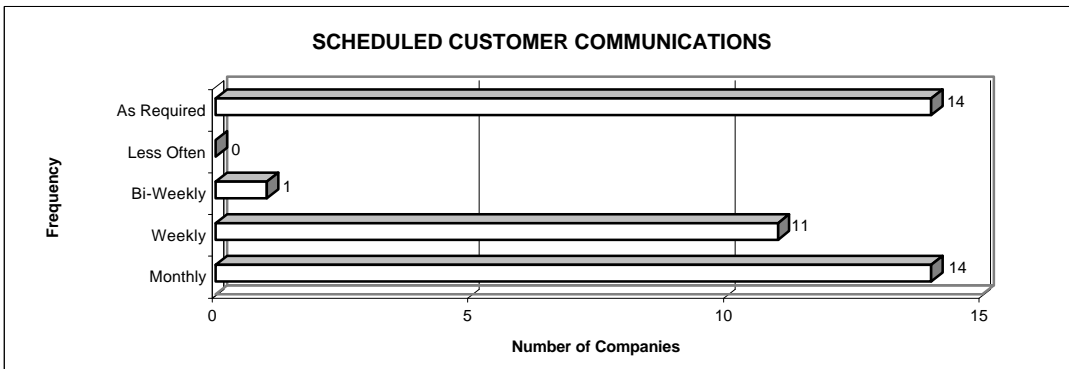
Q62. Do you have a formal statement on the significance of customer communications during system development?



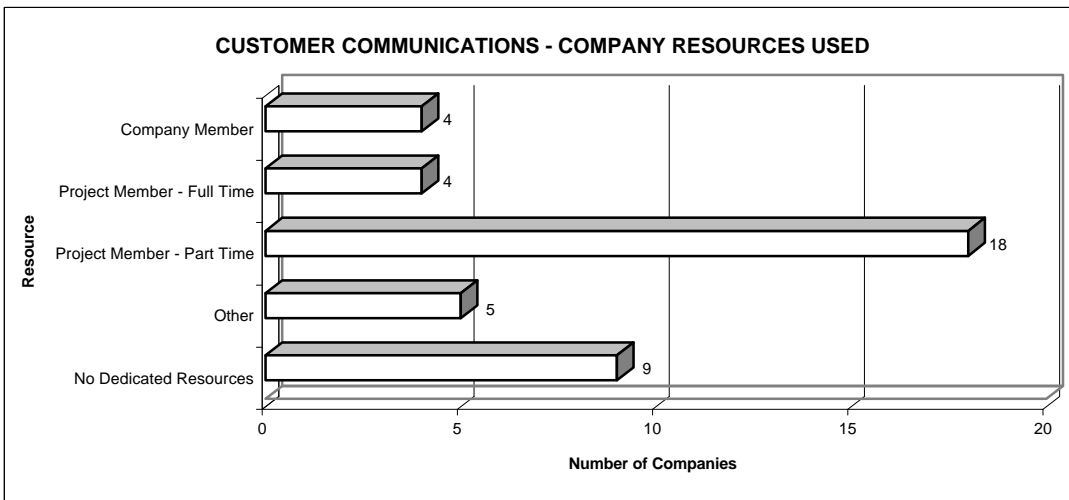
Q63. To what extent are the following practices used to support customer communications?



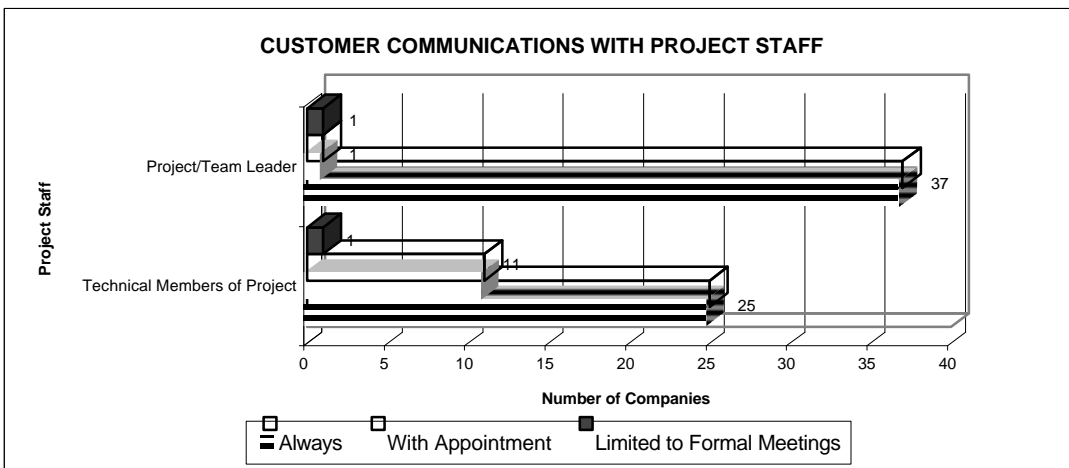
Q64. How frequently are formal, scheduled communications held with the customer during the systems engineering process (including contractual meetings)?



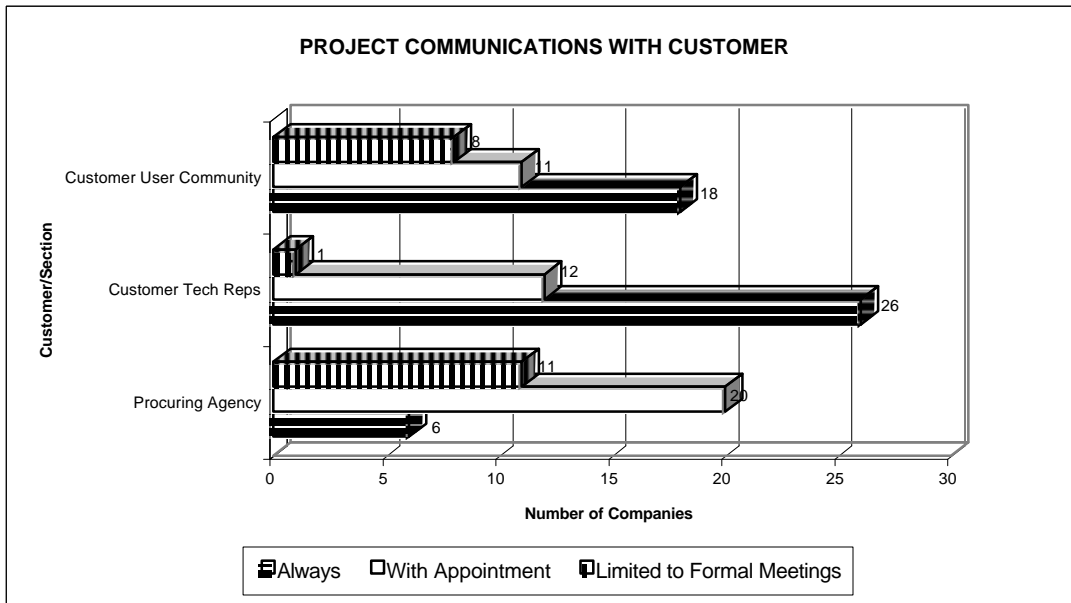
Q65. Does the company dedicate resources to customer relations during the systems process?



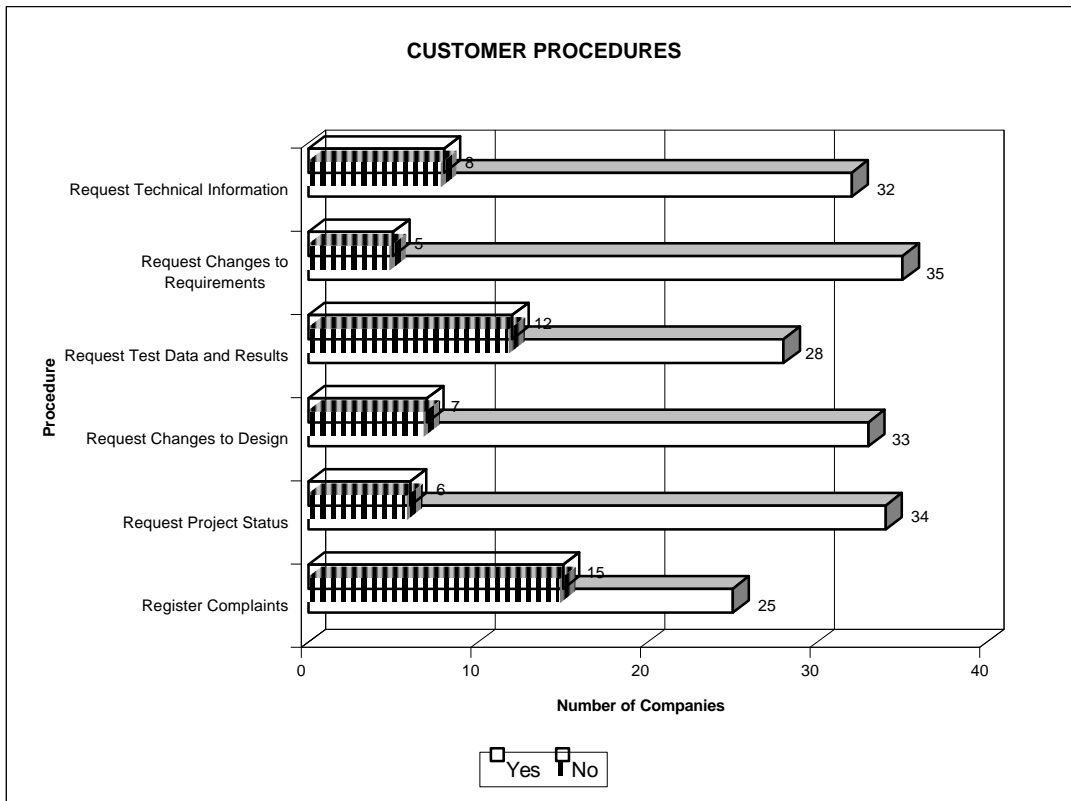
Q66. What flexibility does the customer have to communicate at will with the following staff?



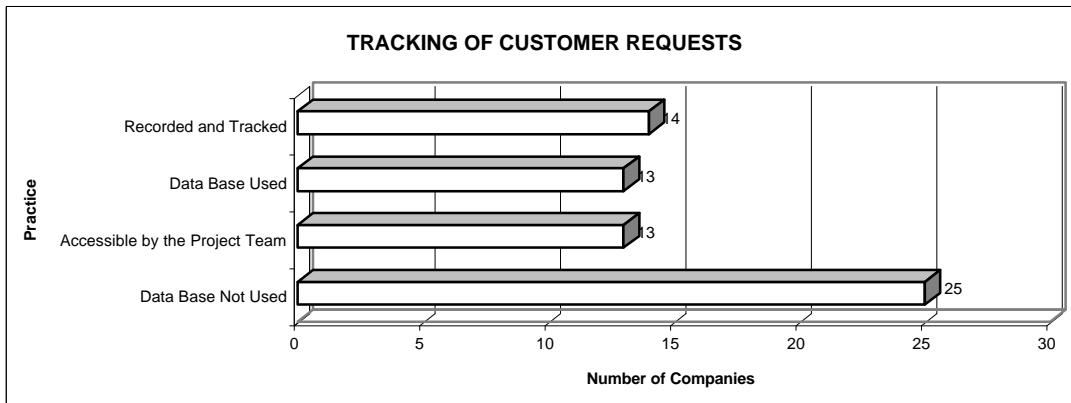
Q67. What flexibility do the systems engineers have to communicate with the following?



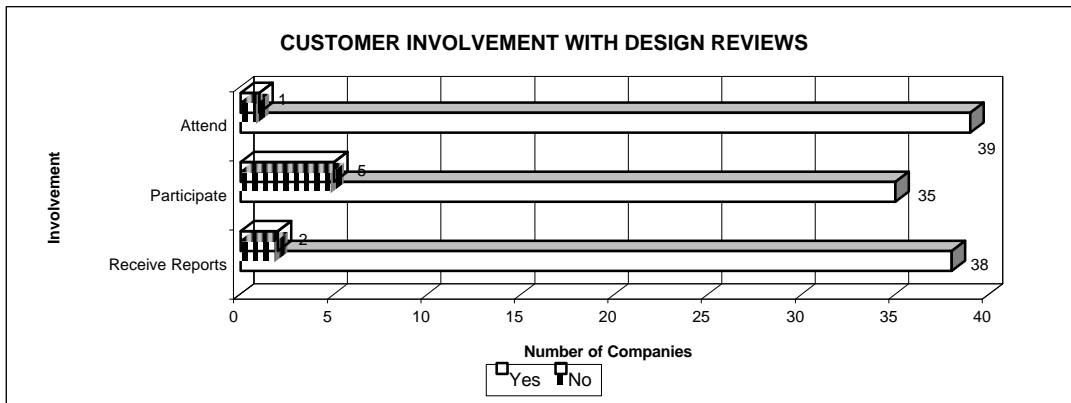
Q68. Are there specific procedures in place at the outset of the project for the customer to do the following?



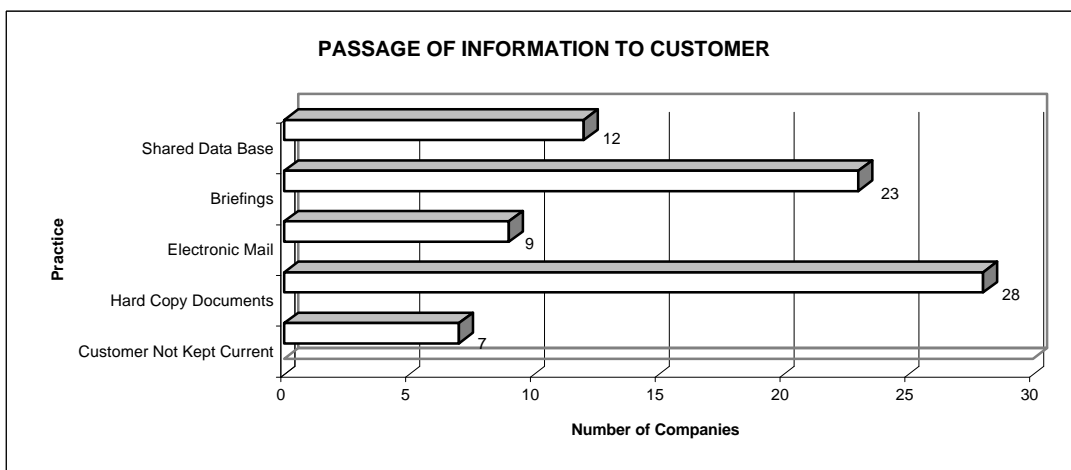
Q69. Are all customer requests, including verbal requests, recorded and tracked in a database, and if so, does the entire project team have access to the database?



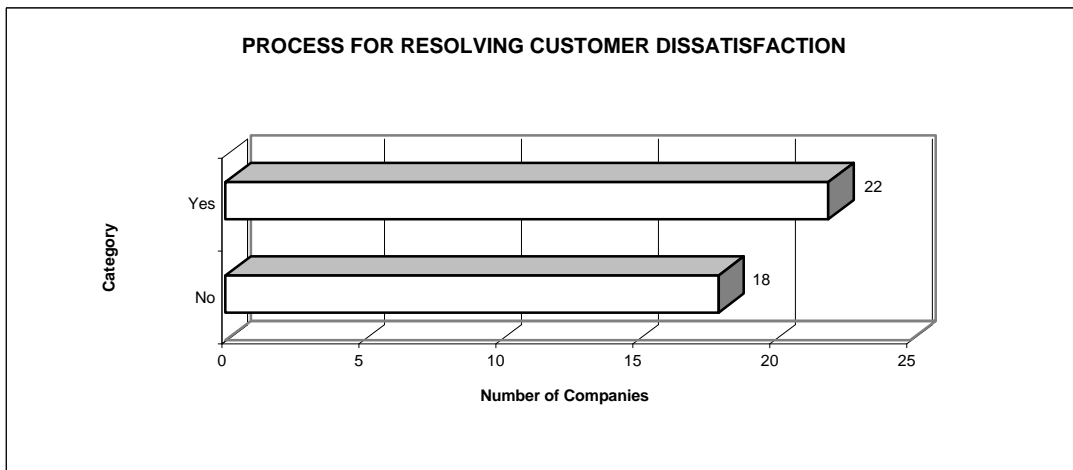
Q70. What is the customer role with design reviews?



Q71. Is the customer kept current on the details of the system database of configuration item, and if so, how is the information passed?



Q72. Is there a defined process for analysis and resolution of customer dissatisfaction?



Q73. Does the company currently have metrics for measuring customer satisfaction, and if so, what do these metrics measure?

