Multics Review Board
Auditor's Checklist

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Sn and Gn refer to standards and guidelines from appropriate sections of PR-004.

Section I, Programming Style

S1   1. Source code comments: None ┆   ┆   ┆   ┆   ┆   ┆ (X) Sufficient

S2   2. Any undeclared variables?   Yes ___   No X

S3   3. Do any commands have explicit argument lists?   Yes ___   No X

S4   4. Are any absolute pathnames included?   Yes ___   No X

S4   If so, are they properly declared?   No ___   Yes ___

S5   5. Is the "/" operator used for PL/I fixed point division? Yes ___   No X

S6   6. Is everything cleaned up during normal termination?   No ___   Yes ___

G1   7. Source language(s) used: _____ pl1 fortran _____

G2   8. Module size: Very large (X) ┆   ┆   ┆   ┆   ┆   ┆ ┆ < 3 pages

G3   9. Are variable names too short or otherwise inappropriate? Yes ___   No X

G4 10. Are programs written using block structure logic?   No ___ Yes X

G5 11. Are any commands invoked as subroutines?   Yes ___   No X

G6 12. Are permanent or externally generated structures used? Yes ___   No X

G6   If so, are version numbers used and checked?   No ___   Yes ___

G7   Is structured data obtained through I/O?   Yes ___   No ___

G8 13. Are all variable references fully qualified?   No ___   Yes X

G9 14. Indenting: Inappropriate ┆   ┆   ┆   ┆   ┆ (X) ┆ Appropriate

Section II, Error Detection and Handling

S1 15. Do commands expect arguments?   Yes X   No ___

S1   If so, do they print usage lines when no arguments given? No ___ Yes X

S1   If so, are arguments and consistency validated?   No ___ Yes X

S2 16. Are error messages understandable and appropriate?   No ___ Yes X

S3 17. Is a cleanup handler invoked during abnormal termination? No ___ Yes ___

S4 18. Are commands usable recursively?   No ___ Yes ___

S4   If not, do they check for attempted recursion?   No ___ Yes ___

Section II, Error Detection and Handling, continued

S5 19. Are commands interactive in nature?   Yes _____ No _____

S5   If so, do they have handlers for program_interrupt?   No _____ Yes _____

S6 20. Are error messages directed to appropriate streams?   No _____ Yes _____

S7 21. Do commands detect attempted use as active functions?   No _____ Yes _____

S7 22. Do active functions detect attempted use as commands?   No _____ Yes _____

G2 23. Are nonstandard error codes utilized?   Yes _____ No _____

Section III, Input/Output Handling

G1 24. Are standard I/O streams used appropriately?   No _____ Yes _____

G2 25. Is interactive input utilized?   Yes _____ No _____

G2   If so, would command_query_ be reasonable?   Yes _____ No _____

G2   If so, is command_query_ used?   No _____ Yes _____

G3 26. Is iox_ used rather than language I/O?   No _____ Yes _____

Section IV, Naming Conventions

S1 27. Entry names: Inappropriate | | | | | | | Appropriate

S2 28. Entry names consist of lowercase letters, numbers, "_"?   No _____ Yes _____

S4 29. Trailing "_" used for subroutine names?   No _____ Yes _____

S4 30. Trailing "_" used for any command names?   Yes _____ No _____

S5 31. Are any nonstandard control arguments used?   Yes _____ No _____

Section V, Bound Segments

S1 32. Number of modules in submission: _____

S1 33. Does submission consist of bound segments?   Yes _____ No _____

S2   If so, are the bound segments named appropriately?   No _____ Yes _____

S3   Are bind files included?   No _____ Yes _____

S4a   Do bind files include Order statements?   No _____ Yes _____

S4b   Objectname statements?   No _____ Yes _____

S4c   "Global: delete;"?   No _____ Yes _____

S4d   Addname statements?   No _____ Yes _____

S4e   Force_Order statements?   Yes _____ No _____

Section V, Bound Segments, continued

S4f   Does each component have an objectname statement?   No _____ Yes _____

S4g   Are retain statements used correctly?   No _____ Yes _____

S4h   Are synonym statements used correctly?   No _____ Yes _____

Section VI, Documentation: Info Segments

    34. Are info segments included in the submission?   No _____ Yes _____

S1   If so, contents: Insufficient | | | | | | Sufficient

G3   If so, Multics terminology: Poor | | | | | | Good

S2   If so, date and title on heading lines?   No _____ Yes _____

S3   If so, all lines formatted to 71 or fewer characters?   No _____ Yes _____

S4   If so, paragraphs limited to no more than 15 lines?   No _____ Yes _____

S5   If so, are control characters (backspaces, etc) present?   Yes _____ No _____

G2   If so, do they pass validate_info_seg?   No _____ Yes _____

G1   If so, overall format: Poor | | | | | | Good

Section VII, Documentation: Manuals

    35. Is a user manual needed?   Yes | | | | | | No

S1 36. Is a user manual available?   No _____ Yes _____

S2   If so, content: Insufficient | | | | | | Sufficient

S3   If so, formatted to reproduce on 8 1/2 by 11 paper?   No _____ Yes _____

G1   If so, is it MPM format?   No _____ Yes _____

G4   If so, is a glossary of special terms required?   Yes _____ No _____

G4   If so, is a glossary of terms included?   No _____ Yes _____

G5   If so, are acronyms clearly defined?   No _____ Yes _____

G6   If so, is manual longer than 10 pages?   Yes _____ No _____

G6   If so, does it include a table of contents?   No _____ Yes _____

G7   If so, are tables and figures listed in contents?   No _____ Yes _____

G3   If so, examples: Insufficient | | | | | | Sufficient

G2   If so, audience: Inappropriate | | | | | | Appropriate

Section VIII, Documentation: Facility Description

37. Is a facility description available?   No ____ Yes ____

S1   If so, contents: Insufficient | | | | | | | Sufficient

S2   If so, formatted for 8-1/2 by 11 paper?   No ____ Yes ____

G1   If so, written in MPM format?   No ____ Yes ____

G3   If so, does it include examples?   No ____ Yes ____

G3   If so, are they complete and correct?   No ____ Yes ____

G2   If so, audience: Inappropriate | | | | | | Appropriate

Overall

38. Summary ratings of overall package:

                    Not Useful | | | | | | Very Useful

                    Not Usable | | | | | | Easily Usable

              Unmaintainable | | | | | | Very Maintainable

          Nonobvious effects | | | | | | No side effects

                    Unfriendly | | | | | | Very Friendly

                  Unreadable | | | | | | Very Readable

39. Do you recommend MRB approval?   No ____ Yes ____

Comments: _____

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Auditor's Signature _____ Date _____