

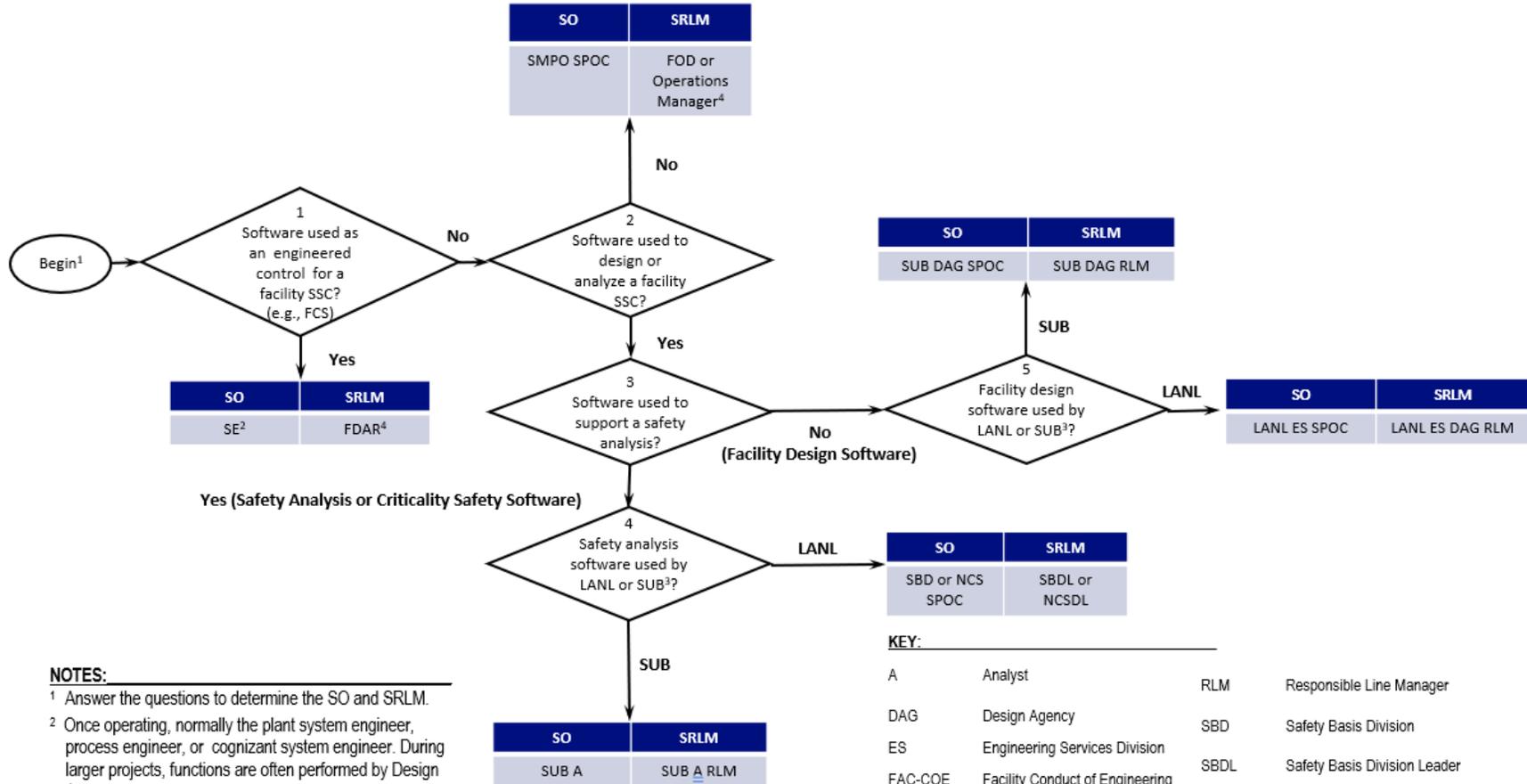
APPENDIX A: CHAPTER 21 SO AND SRLM DECISION DIAGRAM (GUIDANCE)

Use Figure 21.A1 to identify the SO and SRLM. For clarification, contact the Facility Design Authority Representative (FDAR).⁵ .

- For software used within a single facility/application and/or under a single FDAR, the associated FDAR has the ultimate authority to determine the appropriate SO and SRLM.
- For software used among multiple facilities/applications where there may be multiple FDARs, the LANL Facility Design Authority (DA) has the ultimate authority to make the determination.
- For fire alarm control panel (FACP) software, the system engineer is the SO. The Fire Protection group provides support to the SO to promote chapter compliance.
- For SB and NCS divisions, Chapter 21 FDAR responsibilities shall be performed by the Senior Director of the Nuclear Safety Program (ALDFO) or the TA-55 Chief Engineer. This includes approving forms and commercial grade dedication documents (incorporates/supersedes [VAR-10326r1](#)).

⁵ Note: Chapter 21 involvement of FDARs is based on roles defined in NQA-1 and DOE-STD-1073 (and former DOE O 414.1D, that stated: "Management of safety software must include the following elements. Involve the facility design authority, as applicable, in: the identification of; requirements specification; acquisition; design; development; verification and validation (including inspection and testing); configuration management; maintenance; and retirement.")

Figure 21.A1 Chapter 21 SO and SRLM Decision Diagram (Guidance)



NOTES:

- ¹ Answer the questions to determine the SO and SRLM.
- ² Once operating, normally the plant system engineer, process engineer, or cognizant system engineer. During larger projects, functions are often performed by Design Agency.
- ³ As flowed down in supplier/subcontractor agreement. Criticality Safety decisions use same general logic as SBD.
- ⁴ For software used across multiple FODs, the SMP Program Owner should be the SRLM.
- ⁵ For clarification, contact the FDAR who has the ultimate authority to determine the appropriate SO and SRLM.
- ⁶ See SOFT-INTRO App. A, Definitions for administrative and engineered control definitions.

KEY:

A	Analyst	RLM	Responsible Line Manager
DAG	Design Agency	SBD	Safety Basis Division
ES	Engineering Services Division	SBDL	Safety Basis Division Leader
FAC-COE	Facility Conduct of Engineering	SE	System Engineer
FCS	Facility Control System	SMPO	Safety Management Program Owner
FDAR	Facility Design Authority Representative	SO	Software Owner
FOD	Facility Operating Director	SPOC	Software Point of Contact
MAR	Material at Risk	SRLM	Software Responsible Line Manager
NCS	Nuclear Criticality Safety	SSC	System, Structure, Component
NCSDL	Nuclear Criticality Safety Division Leader	SUB	Subcontractor