



DISCIPLINE CHECKING AND APPROVAL RESPONSIBILITY MATRIX

Discipline	Deliverable	Primary Responsibility Engineering	Primary Responsibility Drafting	Drafting Checker (Note 1)	Engineering Checker (Note 1)	Engineering Approval (Note 2)
General	Design Criteria Documents	Design Engineer	N/A	N/A	Discipline Engr. Checker	Lead Discipline Engr. / Project Manager
General	Reports / Studies	Design Engineer	N/A	N/A	Discipline Engr. Checker	Lead Discipline Engr. / Project Manager
Process	PFD's	Process Engineer	Lead Mechanical Designer	Mechanical Checker	Process Engr. Checker	Lead Process Engr.
Process	Simulations / Sizing	Process Engineer	N/A	N/A	Process Engr. Checker	Lead Process Engr.
Process	P&ID's	Process	Lead Mechanical Designer	Mechanical Checker	Process / Instrumentation / Mechanical / Electrical Engr. Checker	Lead Process Engr.
Mechanical	Line List	Mechanical Engineer	Lead Mechanical Designer	Mechanical Checker	Process & Mechanical Engr Checker	Lead Mechanical Engr.
Mechanical	Calculations / Specs / Data Sheets	Mechanical Engineer	N/A	N/A	Mechanical Engr. Checker	Lead Mechanical Engr.
Mechanical	Equipment Drawings	Mechanical Engineer	Lead Mechanical Designer	Mechanical Checker	Mechanical Engr. Checker	Lead Mechanical Engr.
Mechanical	Piping Plans and Sections	Mechanical Engineer	Lead Mechanical Designer	Mechanical Checker	Mechanical Engr. Checker	Lead Mechanical Engr.
Mechanical	Isometrics	Mechanical Engineer	Lead Mechanical Designer	Mechanical Checker	N/A	Lead Mech. Engr. or Project Manager (Note 3)
Process	Plot Plan / Arrangement	Process Engineer	Lead Mechanical / Civil Designer	Mechanical /Civil Checker	Mech / Process / Electrical Engr.	Lead Process Engr. or Project Manager (Note 3)
Civil / Structural	Piling / Grading Plans	Structural Engineer	Lead Structural Designer	Structural Checker	Structural Engr. Checker	Lead Structural Engr.
Civil / Structural	Steel / Framing Plans, Sects, and Dets	Structural Engineer	Lead Structural Designer	Structural Checker	Structural Engr. Checker	Lead Structural Engr.
Civil / Structural	Foundation / Framing Plans, Sects, and Dets	Structural Engineer	Lead Structural Designer	Structural Checker	Structural Engr. Checker	Lead Structural Engr.
Civil / Structural	Stairs / Ladders / Grating / Handrails	Structural Engineer	Lead Structural Designer	Structural Checker	Structural Engr. Checker	Lead Structural Engr.
Civil / Structural	Misc. Supports (Pipe / Tray Supports)	Structural Engineer	Mechanical / Electrical / final Structural Designer	Structural Checker	Structural Engr. Checker	Lead Structural Engr.
Civil / Structural	Calculations / Computer Models	Structural Engineer	N/A	N/A	Structural Engr. Checker	Lead Structural Engr.
Electrical	Installation Details	Electrical Engineer	Lead Electrical Designer	Electrical Checker	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	Load List	Electrical Engineer	N/A	N/A	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	Conduit / Cable Schedule	Electrical Engineer	Lead Electrical Designer	Electrical Checker	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	Calculations / Specs / Data Sheets	Electrical Engineer	N/A	N/A	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	Area Classification	Electrical Engineer	Lead Electrical Designer	Electrical Checker	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	Block Diagrams	Electrical Engineer	Lead Electrical Designer	Electrical Checker	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	One-Line Diagrams	Electrical Engineer	Lead Electrical Designer	Electrical Checker	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	Plans and Sections / Details	Electrical Engineer	Lead Electrical Designer	Electrical Checker	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	Schematics / Wiring Diagrams	Electrical Engineer	Lead Electrical Designer	Electrical Checker	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	Panel Schedules	Electrical Engineer	Lead Electrical Design	Electrical Checker	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	MCC Elevations	Electrical Engineer	Lead Electrical Designer	Electrical Checker	Electrical Engr. Checker	Lead Electrical Engr.
Electrical	Electrical Plans & Details	NA	Lead Electrical Designer	Electrical Checker	Electrical Engr. Checker	Lead Electrical Engr.
Instrument	Study / Philosophy	Instrument Engineer	N/A	N/A	Instrument Engr. Checker	Lead Instrument Engr.
Instrument	Instrument Index	Instrument Engineer	N/A	N/A	Instrument Engr. Checker	Lead Instrument Engr.
Instrument	I/O List	Instrument Engineer	N/A	N/A	Instrument Engr. Checker	Lead Instrument Engr.
Instrument	Instrument / Control Cable Schedule	Instrument Engineer	Lead Instrument Designer	Instrument Checker	Instrument Engr. Checker	Lead Instrument Engr.
Instrument	Calculations / Specs / Data Sheets	Instrument Engineer	N/A	N/A	Instrument Engr. Checker	Lead Instrument Engr.



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Instrument	System Architecture & Block Diagrams	Instrument Engineer	Lead Instrument Designer	Instrument Checker	Instrument Engr. Checker	Lead Instrument Engr.
Instrument	Loop Diagrams	Instrument Engineer	Lead Instrument Designer	Instrument Checker	N/A	Lead Instrument Engr. (Note 3)
Instrument	Installation Details	Instrument Engineer	Lead Instrument Designer	Instrument Checker	Instrument Engr. Checker	Lead Instrument Engr.
Instrument	Panels and Junction Boxes	Instrument Engineer	Lead Instrument Designer	Instrument Checker	Instrument Engr. Checker	Lead Instrument Engr.
Instrument	Wiring Diagrams	Instrument Engineer	Lead Instrument Designer	Instrument Checker	Instrument Engr. Checker	Lead Instrument Engr.
Instrument	SAFE Charts / Cause & Effects Diagrams	Regulatory / Compliance / Instrument Engineer	N/A	N/A	Instrument Engr. Checker	Lead Instrument Engr.
Instrument	Location Plans	Instrument Engineer	Lead Instrument Designer	Instrument Checker	Instrument Engr. Checker	Lead Instrument Engr.
Mechanical	Safety Flow Diagrams	Regulatory / Compliance	Lead Mechanical Designer	Mechanical Checker	Instrument Engr. Checker	Lead Instrument Engr.
Mapping	Area and Route Maps	Pipeline Engineer	Mapping Lead	Mapping Checker	Pipeline Engr. Checker	Lead Pipeline Engr.
Mapping	Alignment Sheets	Pipeline Engineer	Mapping Lead	Mapping Checker	Pipeline Engr. Checker	Lead Pipeline Engr.
Mapping	Property Plats	Pipeline Engineer	Mapping Lead	Mapping Checker	Pipeline Engr. Checker	Lead Pipeline Engr.
Mapping	Certified Property Plats	Pipeline Engineer	Mapping Lead	Mapping Checker	Pipeline Engr. Checker	Lead Pipeline Engr.
Mapping	Legal Descriptions	Pipeline Engineer	Mapping Lead	Mapping Checker	Pipeline Engr. Checker	Lead Pipeline Engr.
Mapping	Certified Legal Descriptions	Pipeline Engineer	Mapping Lead	Mapping Checker	Pipeline Engr. Checker	Lead Pipeline Engr.
Mapping	Crossing Permit Drawings	Pipeline Engineer	Mapping Lead	Mapping Checker	Pipeline Engr. Checker	Lead Pipeline Engr.
Mapping	Directional Drill Design Drawings	Pipeline Engineer	Mapping Lead	Mapping Checker	Pipeline Engr. Checker	Lead Pipeline Engr.
Mapping	Construction Details	Pipeline Engineer	Mapping Lead	Mapping Checker	Pipeline Engr. Checker	Lead Pipeline Engr.
Mapping	Regulatory Agency Submittal Exhibits	Pipeline Engineer	Mapping Lead	Mapping Checker	Pipeline Engr. Checker	Lead Pipeline Engr.
Pipeline	Scoping Documents and AFE Estimates	Pipeline Engineer	Pipeline Lead	Pipeline Checker	Pipeline Engr. Checker	Lead Engineer / Project Manager (Note 3)
Pipeline	Design Basis	Pipeline Engineer	Pipeline Lead	Pipeline Checker	Pipeline Engr. Checker	Lead Engineer / Project Manager (Note 3)
Pipeline	Project Reports	Pipeline Engineer	Pipeline Lead	Pipeline Checker	Pipeline Engr. Checker	Lead Engineer / Project Manager (Note 3)
Pipeline	Field Survey Notes	Pipeline Engineer	Surveyor	N/A	N/A	N/A
Pipeline	Process and Hydraulic Calculations	Pipeline Engineer	N/A	N/A	Pipeline Engr. Checker	Lead Engineer / Project Manager (Note 3)
Pipeline	Calculations / Specs / Data Sheets	Pipeline Engineer	N/A	N/A	Pipeline Engr. Checker	Lead Engineer / Project Manager (Note 3)
Pipeline	Regulatory Agency Submittals	Pipeline Engineer	N/A	N/A	Pipeline Engr. Checker	Lead Engineer / Project Manager (Note 3)
Pipeline	Construction Permit Applications	Pipeline Engineer	N/A	N/A	Pipeline Engr. Checker	Lead Engineer / Project Manager (Note 3)
Pipeline	Construction Bid Packages	Pipeline Engineer	Pipeline Lead	Pipeline Checker	Pipeline Engr. Checker	Lead Engineer / Project Manager (Note 3)
Pipeline	Fabricated Assembly Drawings	Pipeline Engineer	Pipeline Lead	Pipeline Checker	Pipeline Engr. Checker	Lead Engineer / Project Manager (Note 3)
Pipeline	Site Specific Piping and Support Drawings	Pipeline Engineer	Pipeline Lead	Pipeline Checker	Pipeline Engr. Checker	Lead Engineer / Project Manager (Note 3)

Notes: (1) In all cases, the Primary Checker is someone other than the person who initially performed the work.
(2) See SGP-EG-0058 Professional Engineering Licensure and Sealing of Engineering Deliverables regarding responsibility for sealing "Issue for Construction" deliverables.
(3) Or assigned delegate

References:
[SEP-EG-0050](#) Drafting Standards
[SEP-EG-0054](#) Deliverable Review and Approval
[SEP-QU-0060](#) Standard Work Process
[SGP-EG-0058](#) Professional Engineering Licensure and Sealing of Engineering Deliverables