



California ISO

Attachment B2

Deliverability Constraint Boundary Diagrams

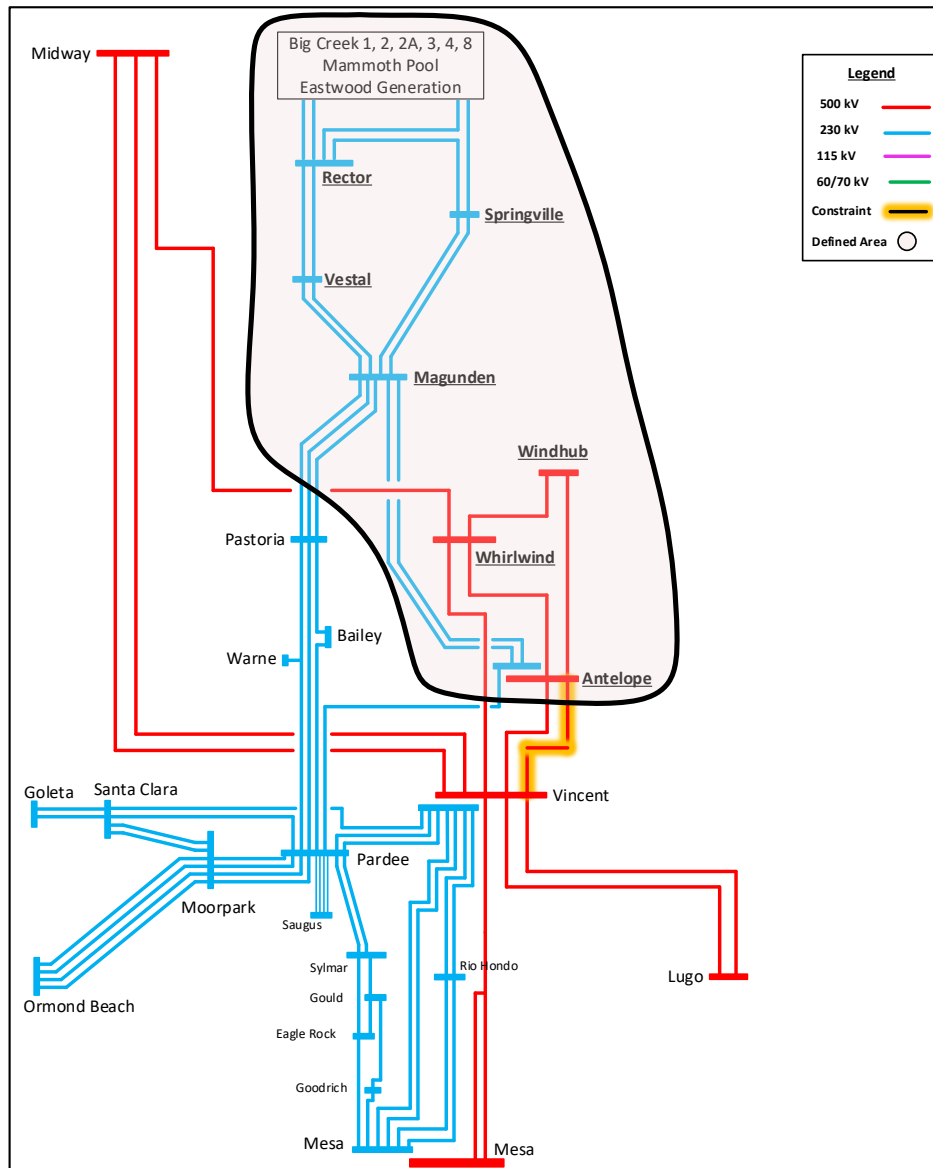
08/28/2024

Changes from previous version

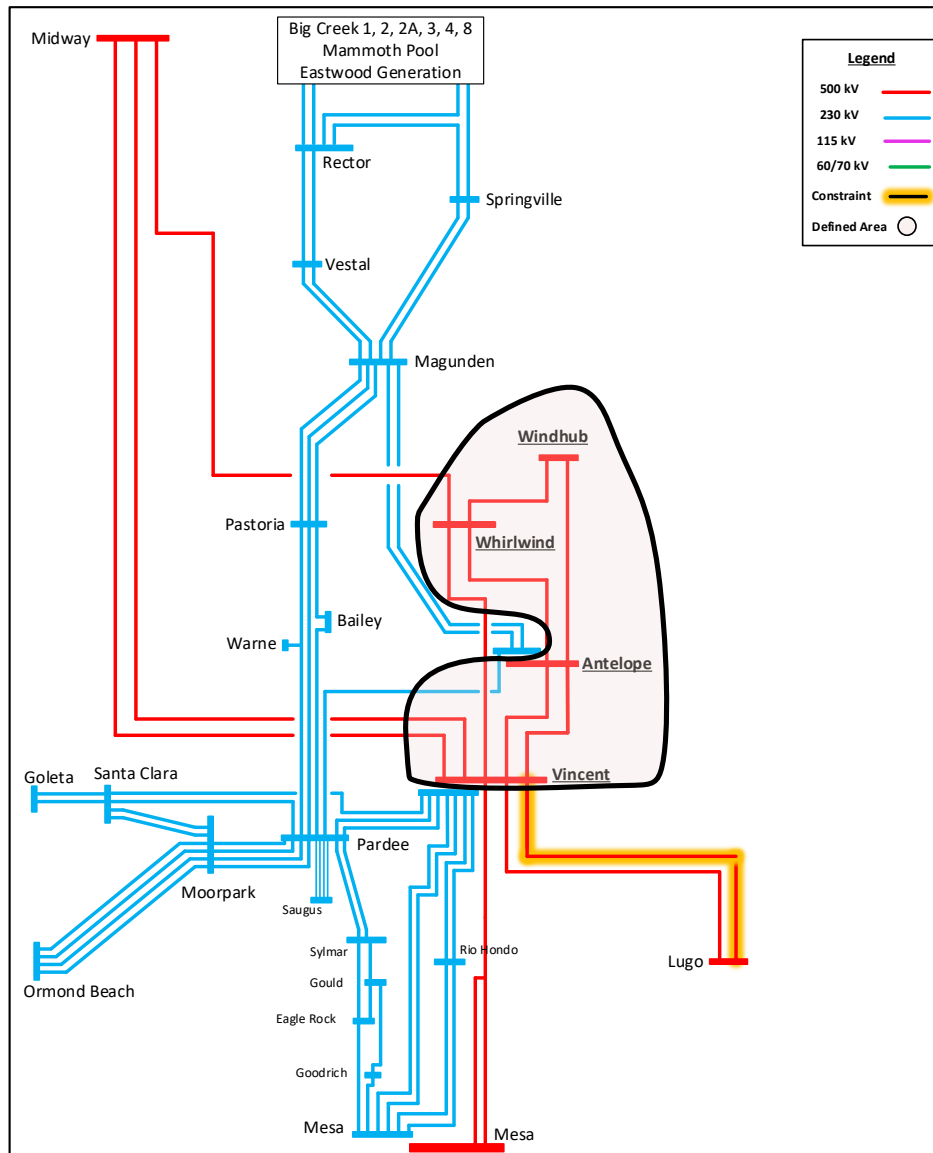
- POIs based solely on Flow Impact are not included
- 10% instead of 5% DFAX is applied to 500 kV line constraints per revised deliverability methodology.
- Constraint boundary diagrams include approved transmission projects through 2022-2023 TPP.

SCE Northern Interconnection Area Deliverability Constraints

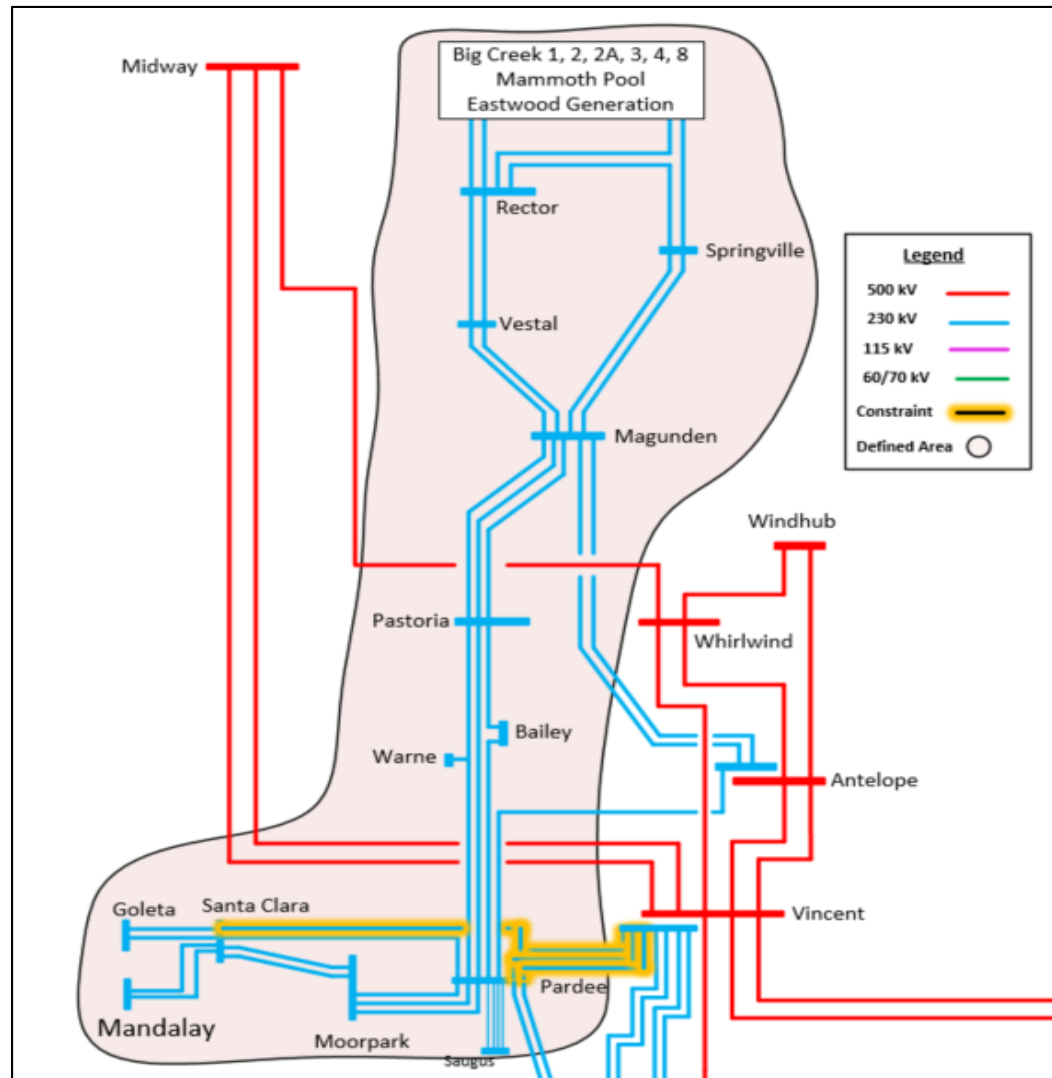
Antelope-Vincent On-Peak Constraint



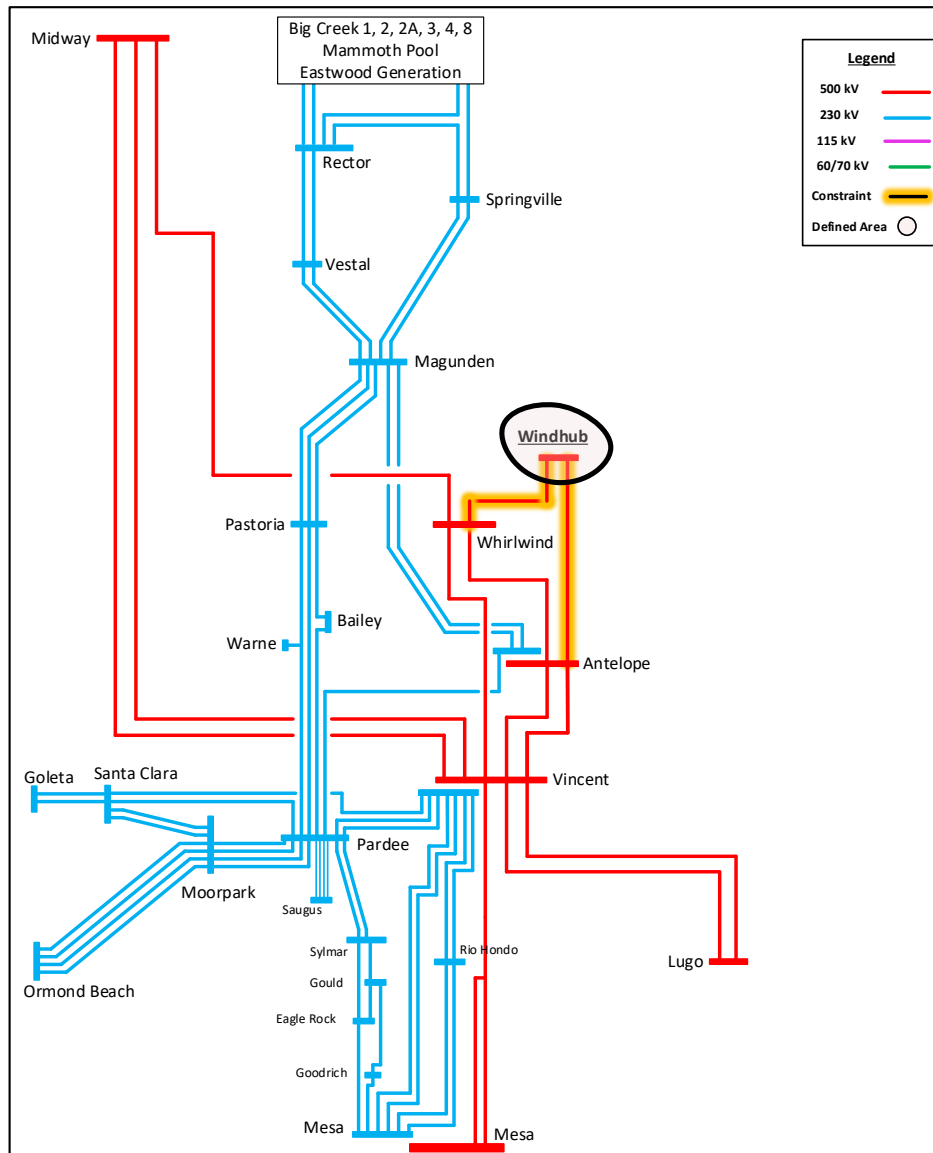
Vincent-Lugo On-Peak Constraint



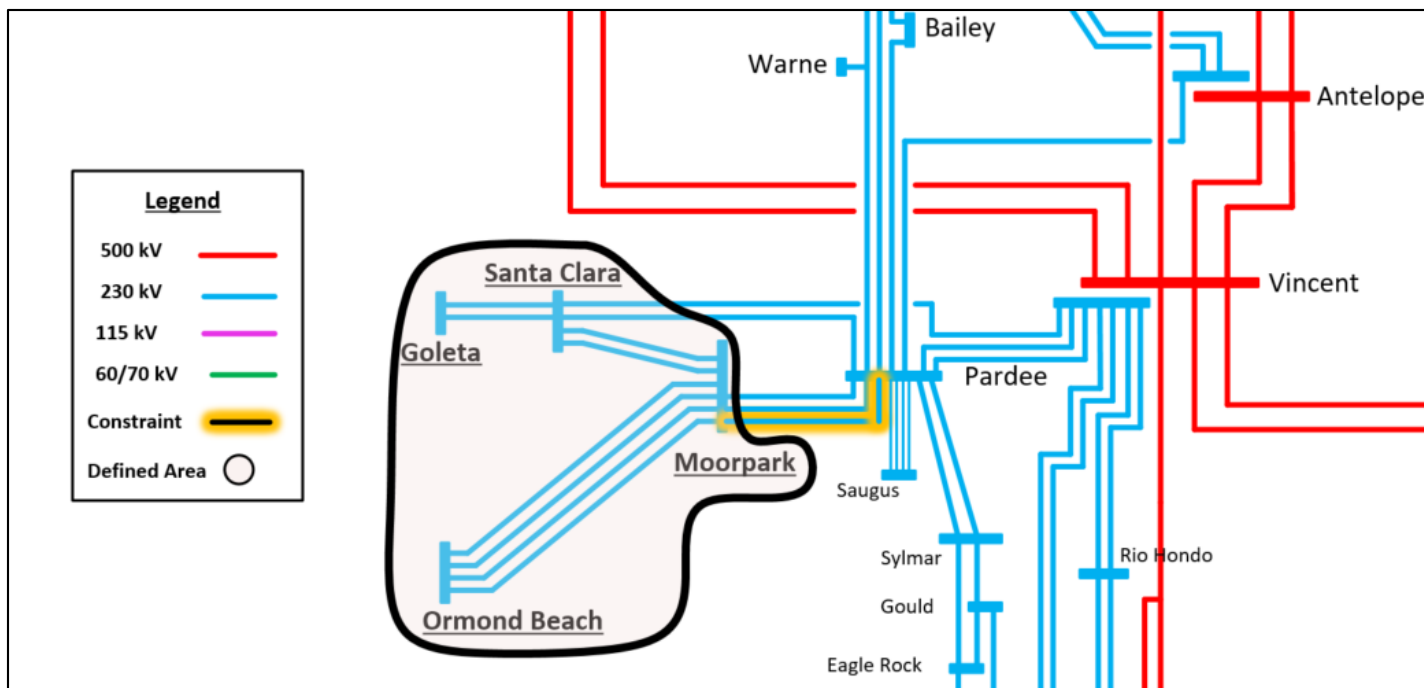
Pardee-Sylmar On-Peak Constraint



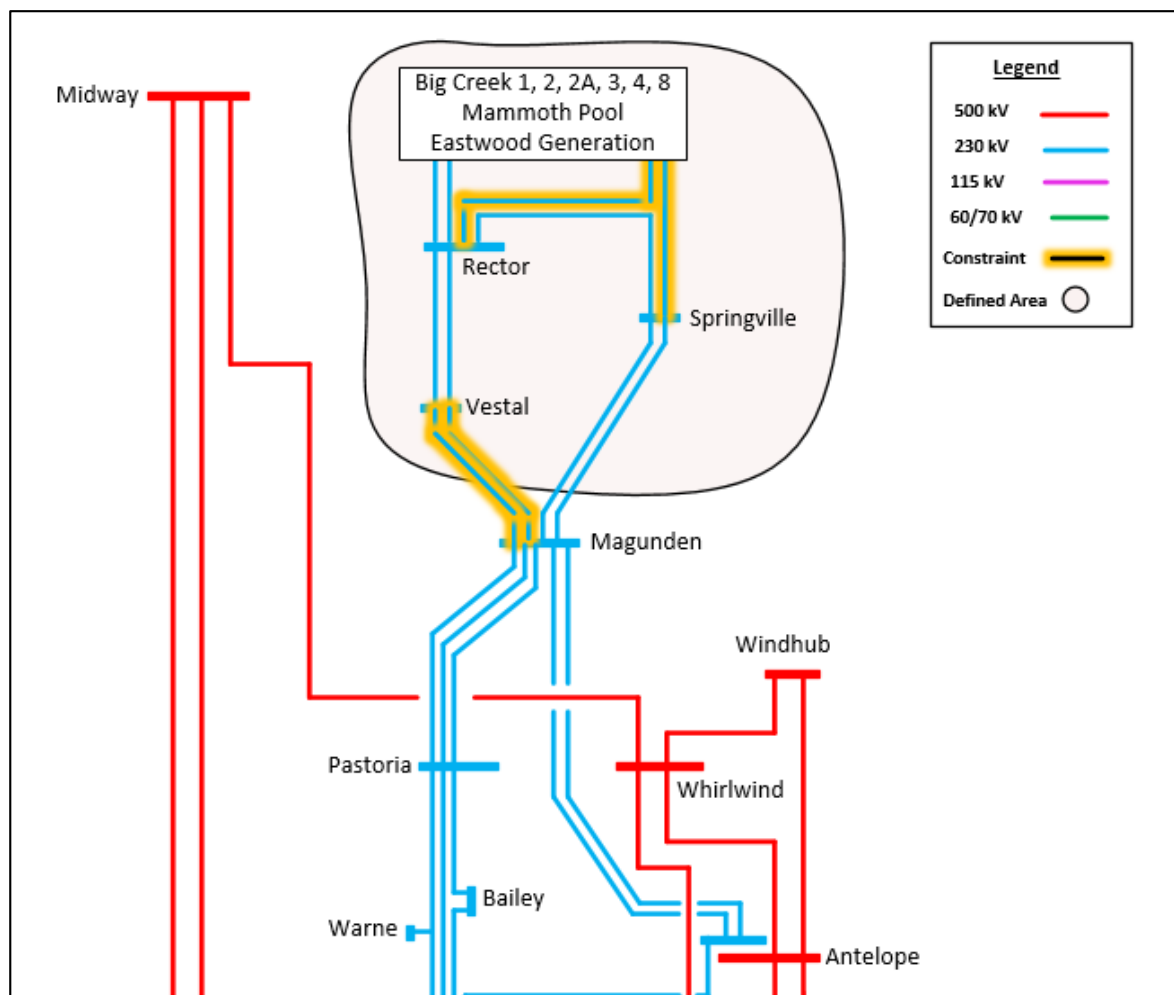
Windhub On-Peak Constraint



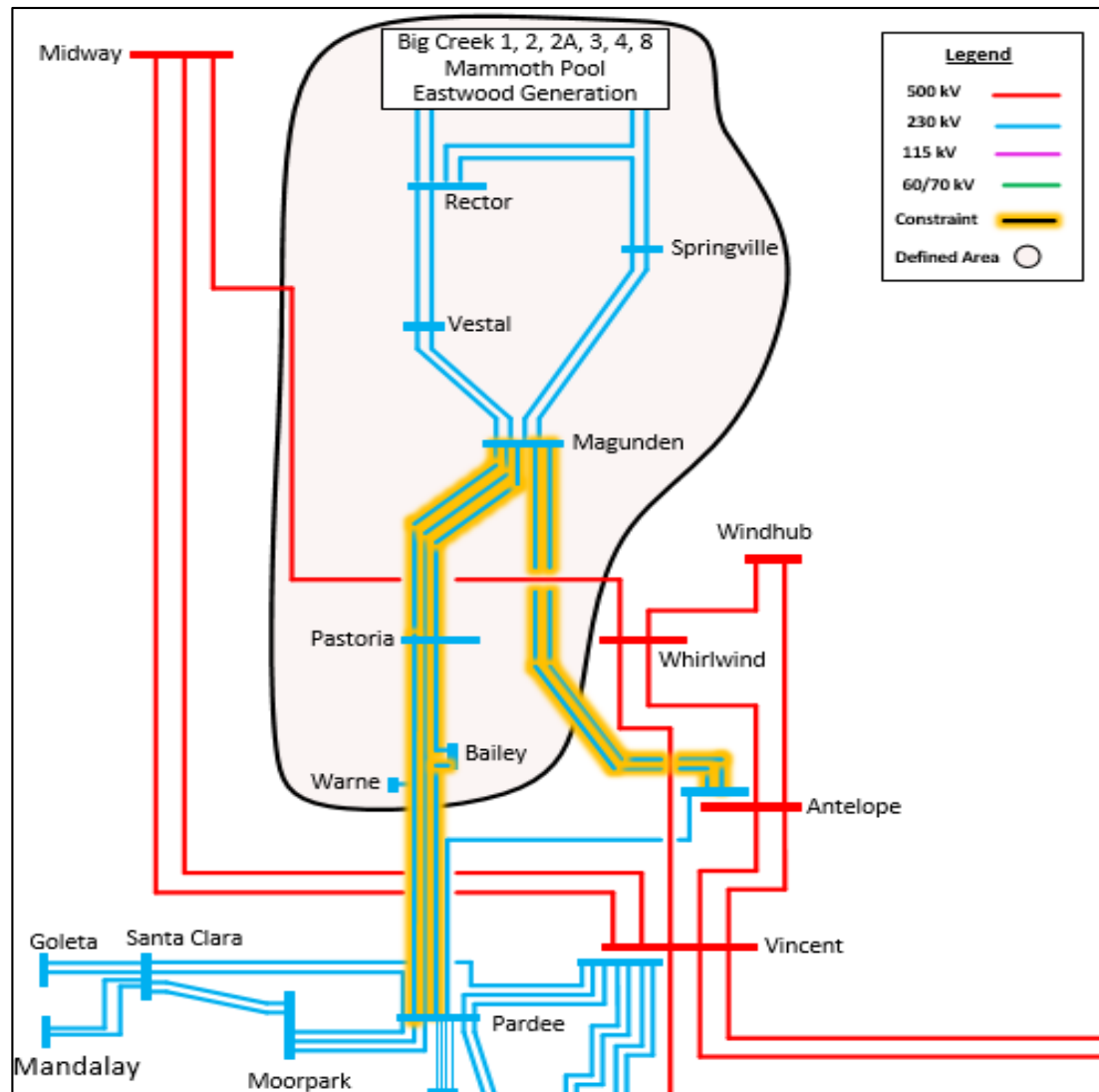
Moorpark-Pardee On-Peak Constraint



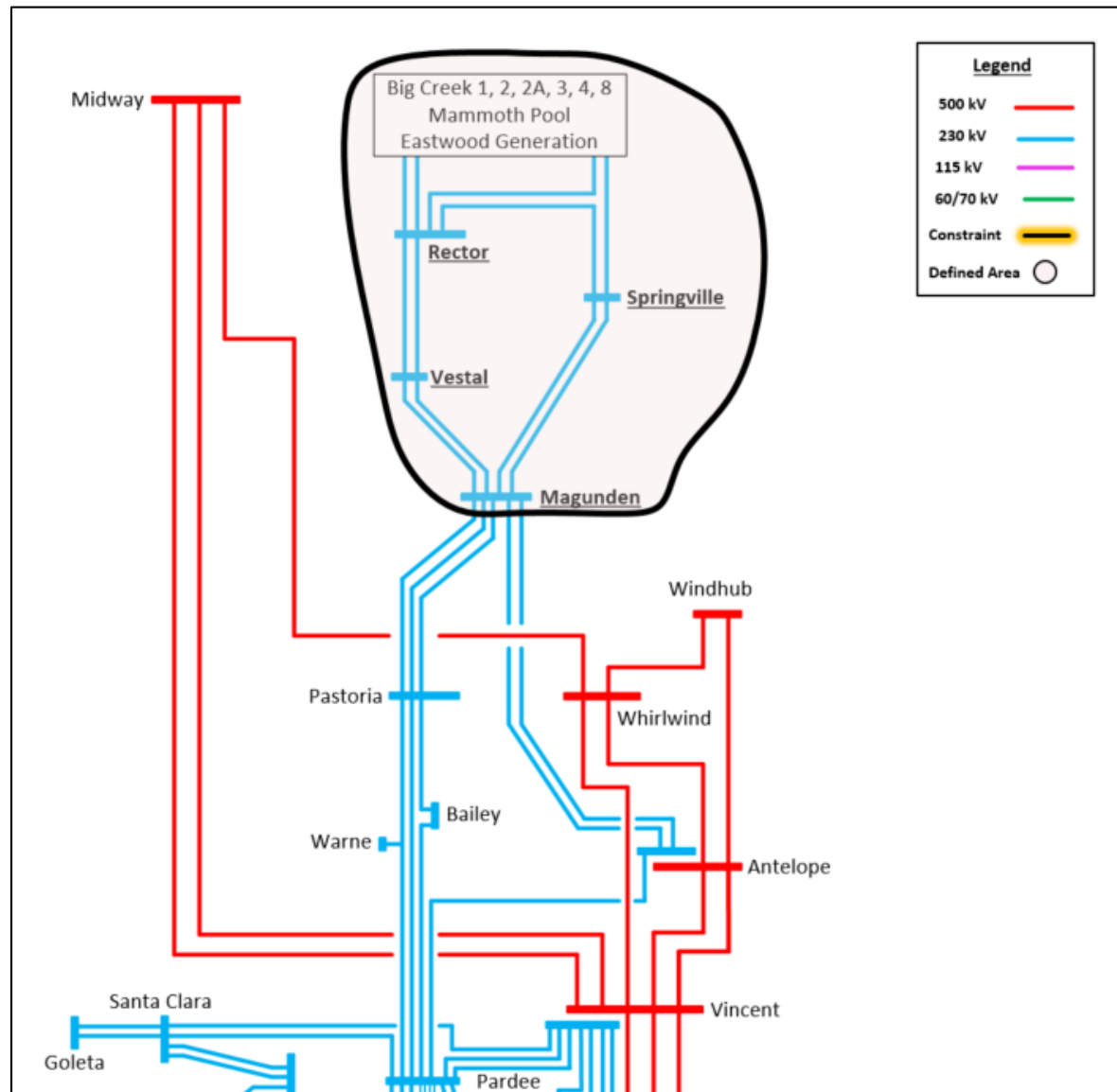
North of Magunden On-Peak Constraint



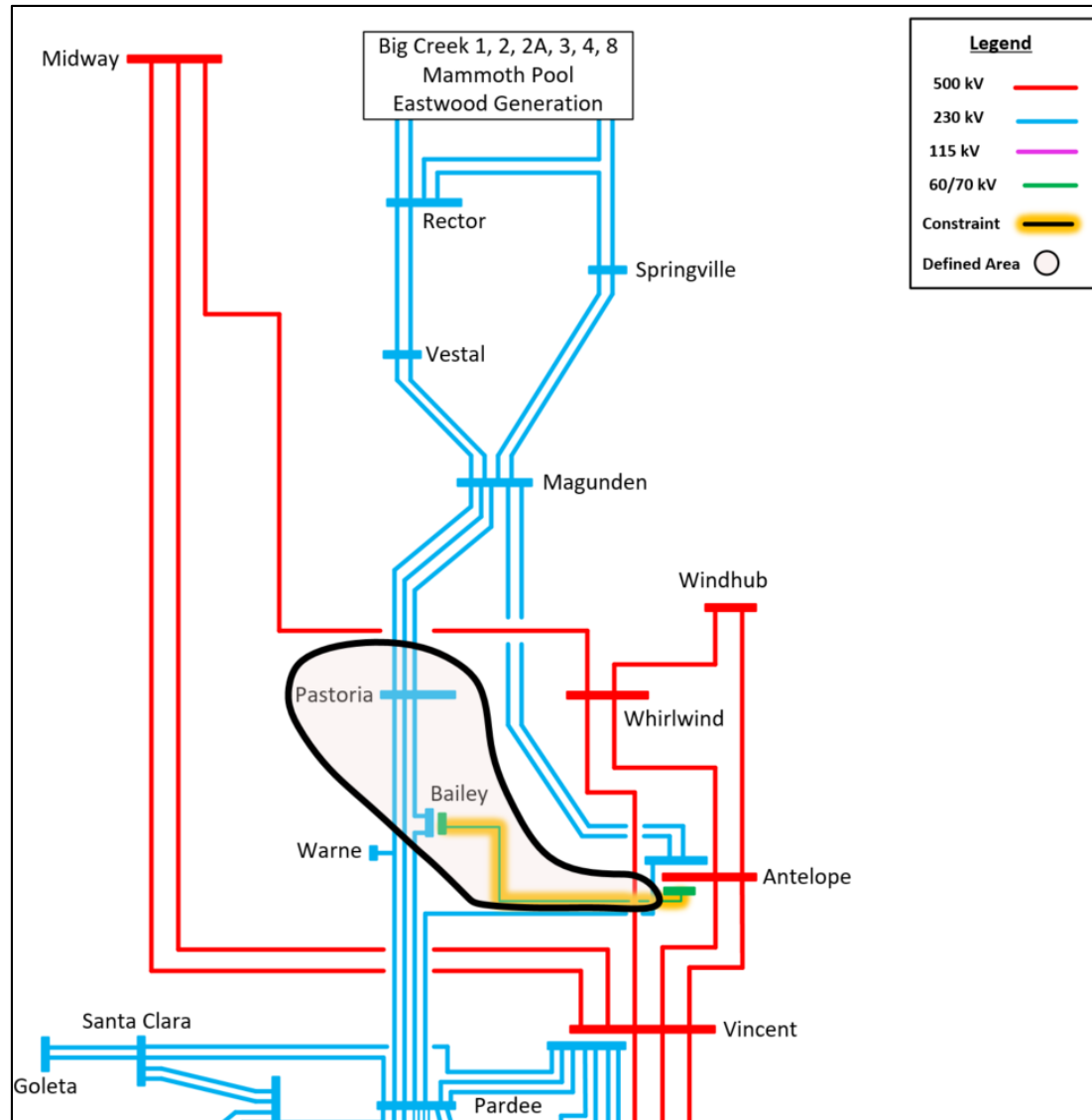
South of Magunden On-Peak Constraint



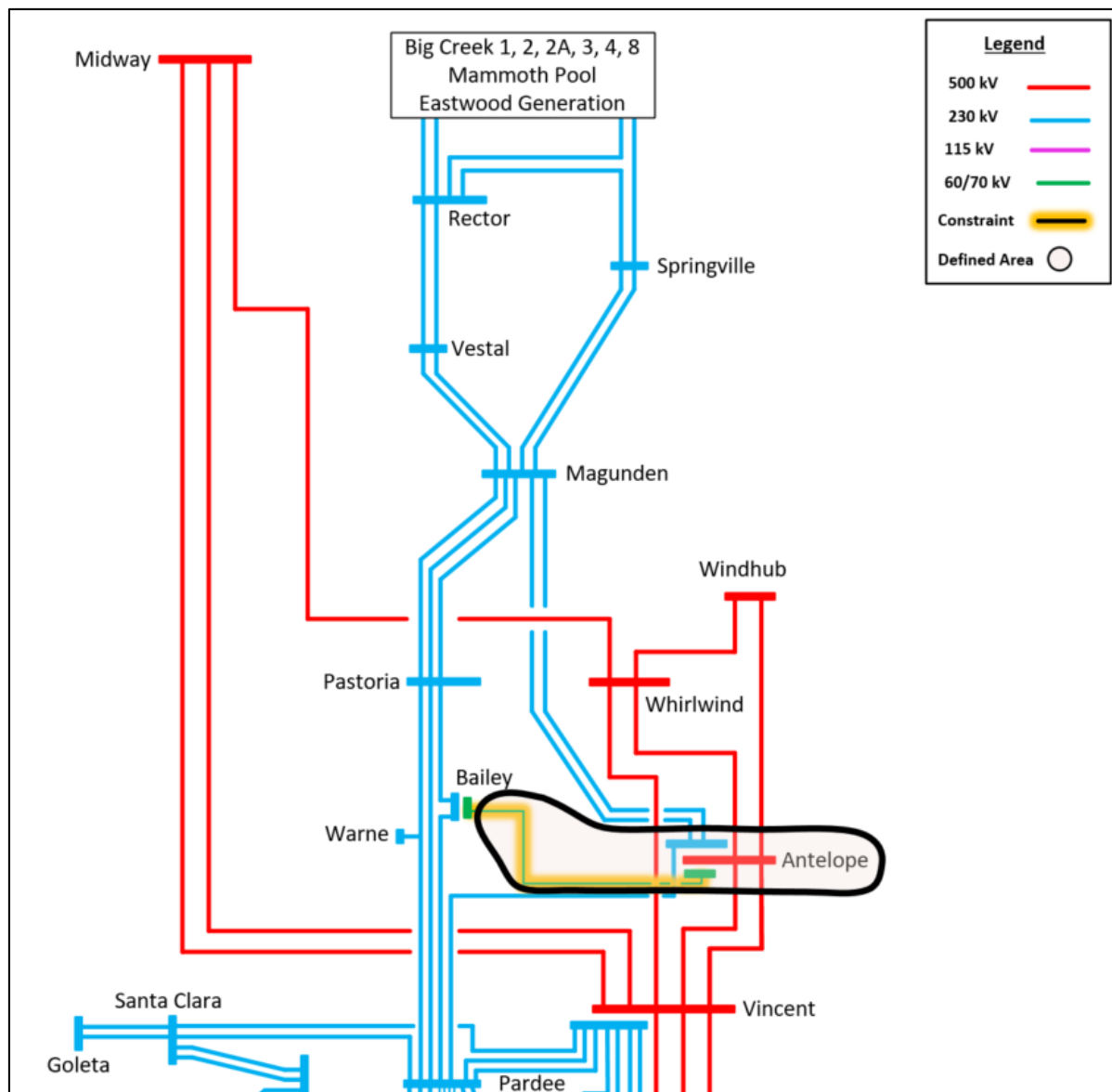
South of Magunden Off-Peak Constraint



Antelope-Neenach On-Peak Constraint

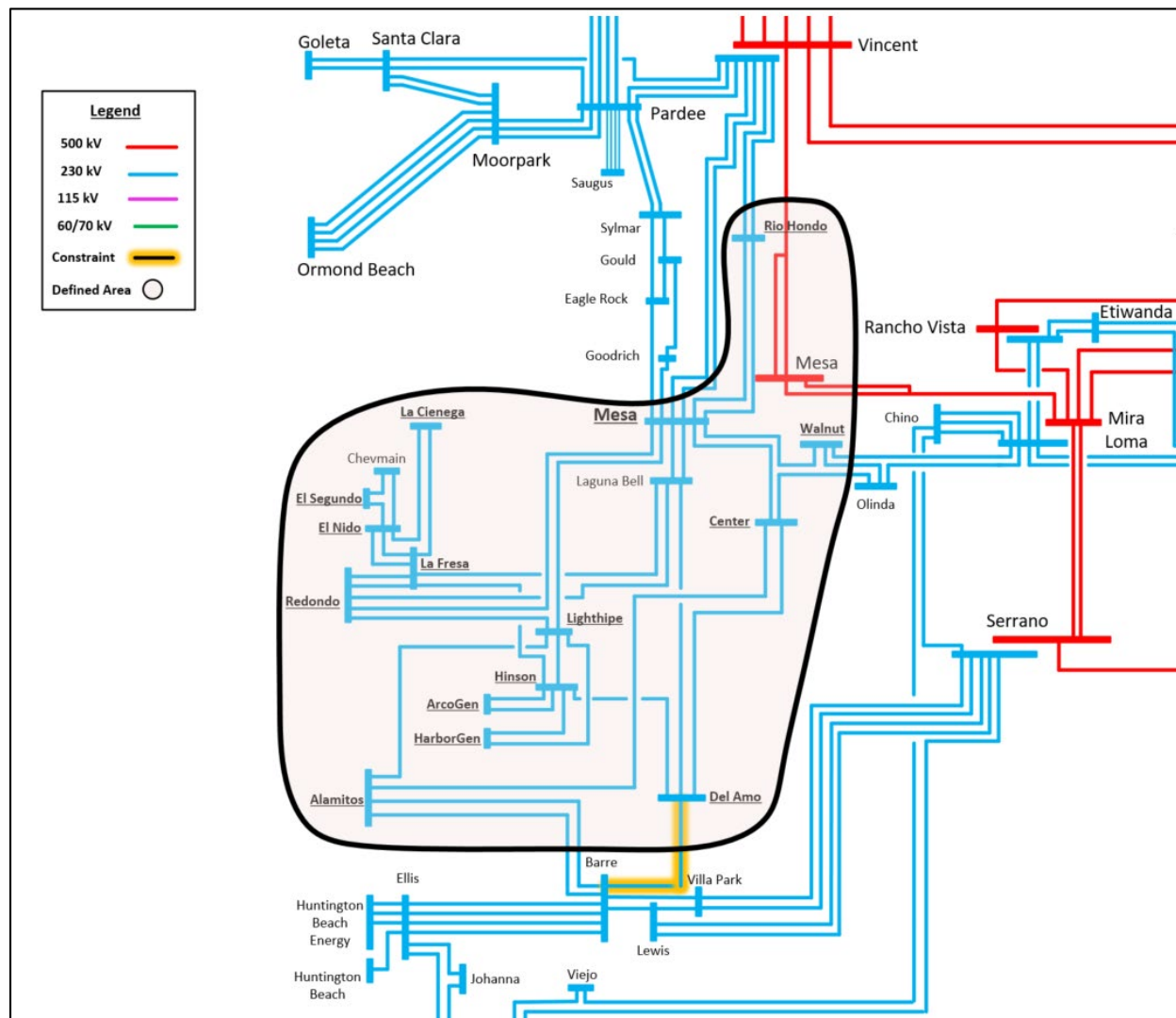


Antelope-Neenach Off-Peak Constraint

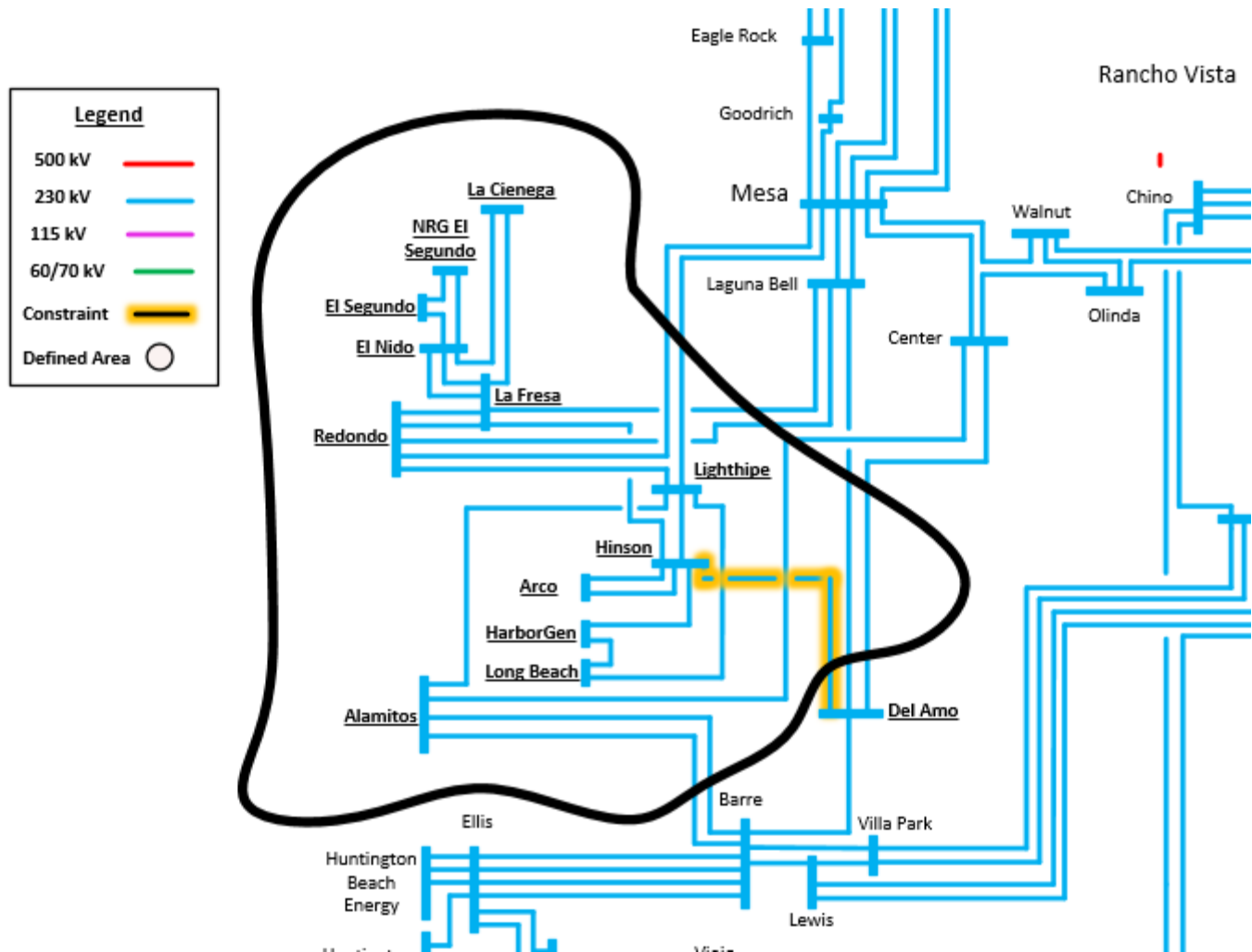


SCE Metro Interconnection Area Deliverability Constraints

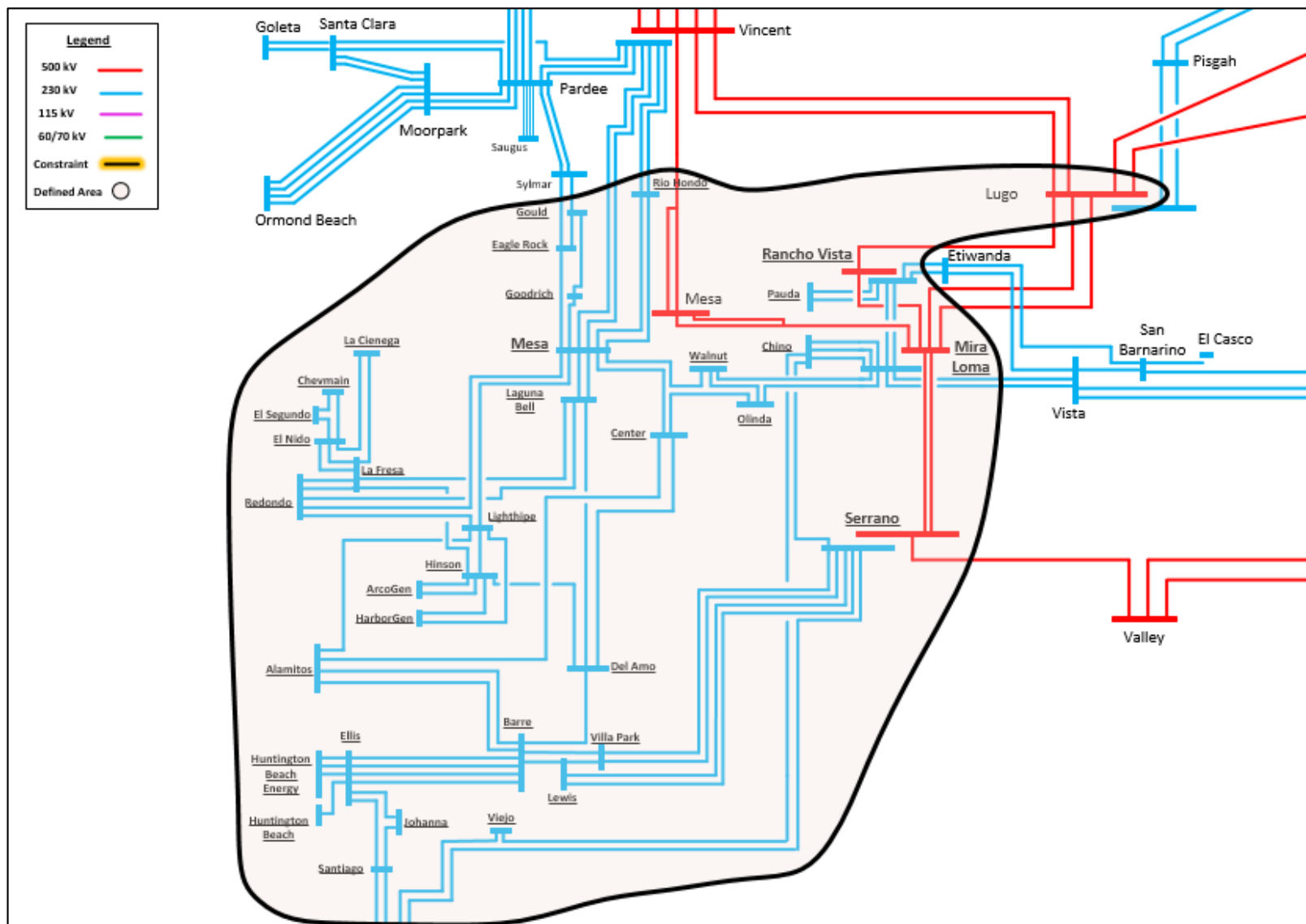
Del Amo – Barre On-Peak Constraint



Hinson - Del Amo On-Peak Constraint

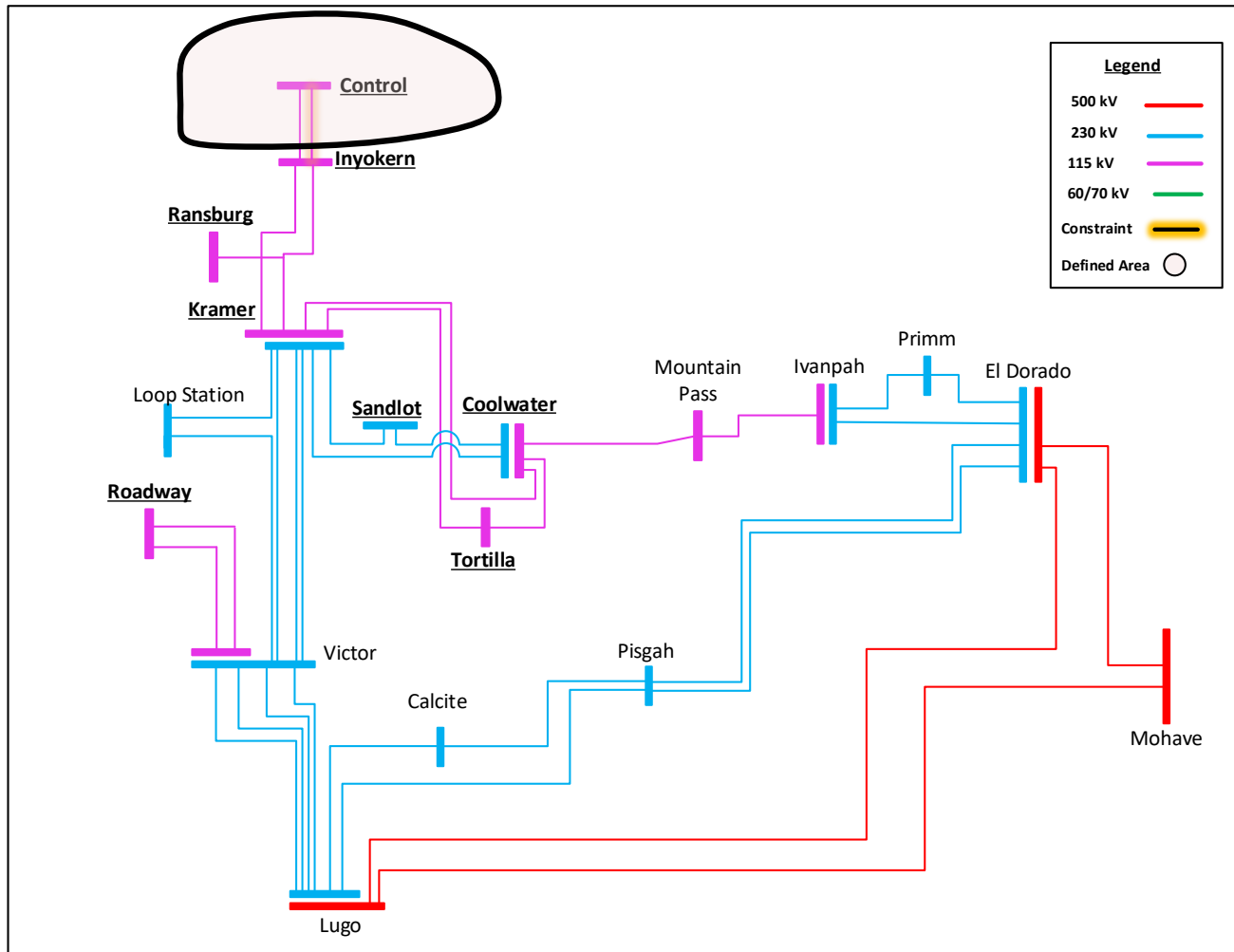


SCE Metro Area Default Constraint

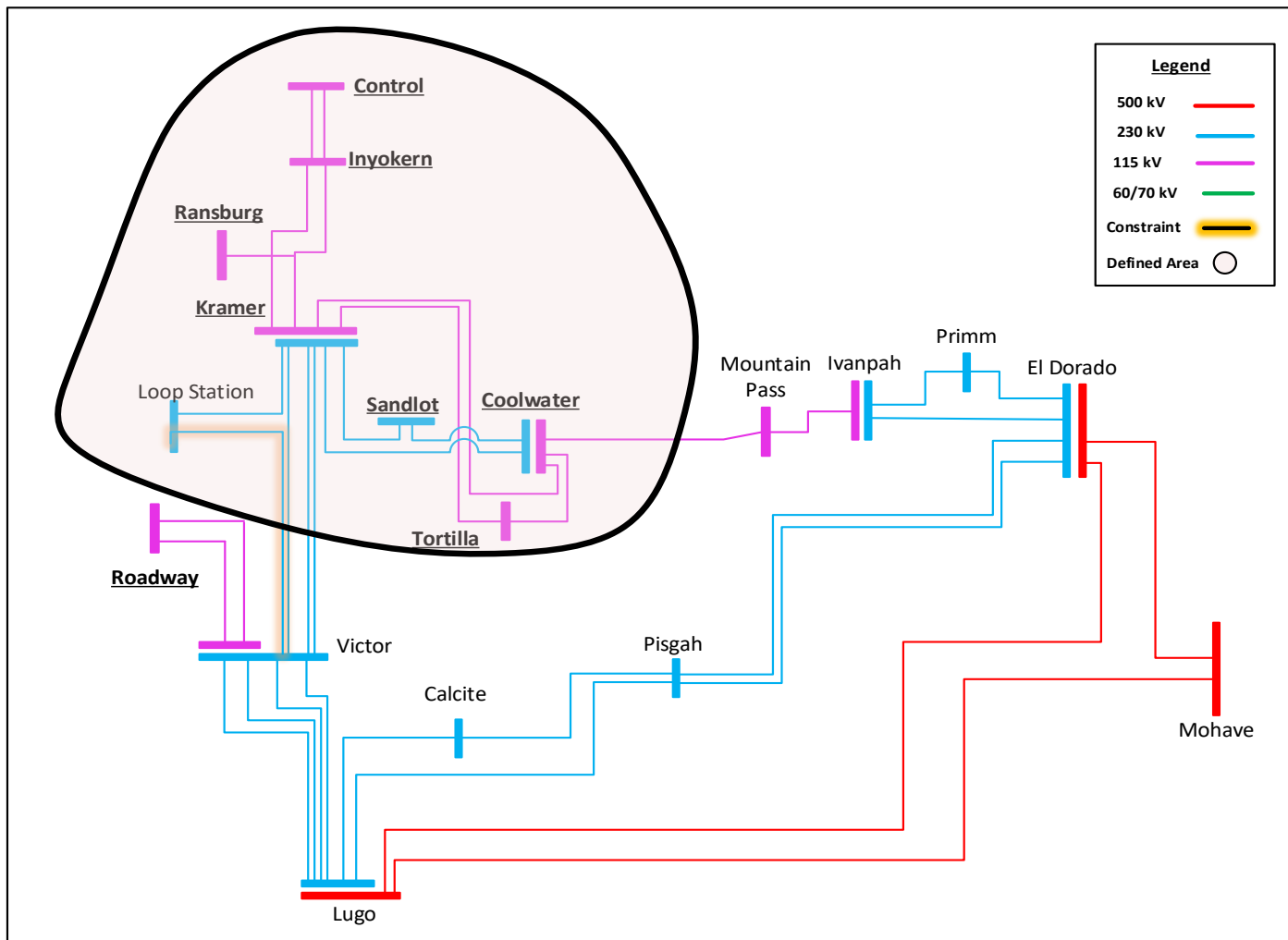


SCE North of Lugo (NOL) Interconnection Area Deliverability Constraints

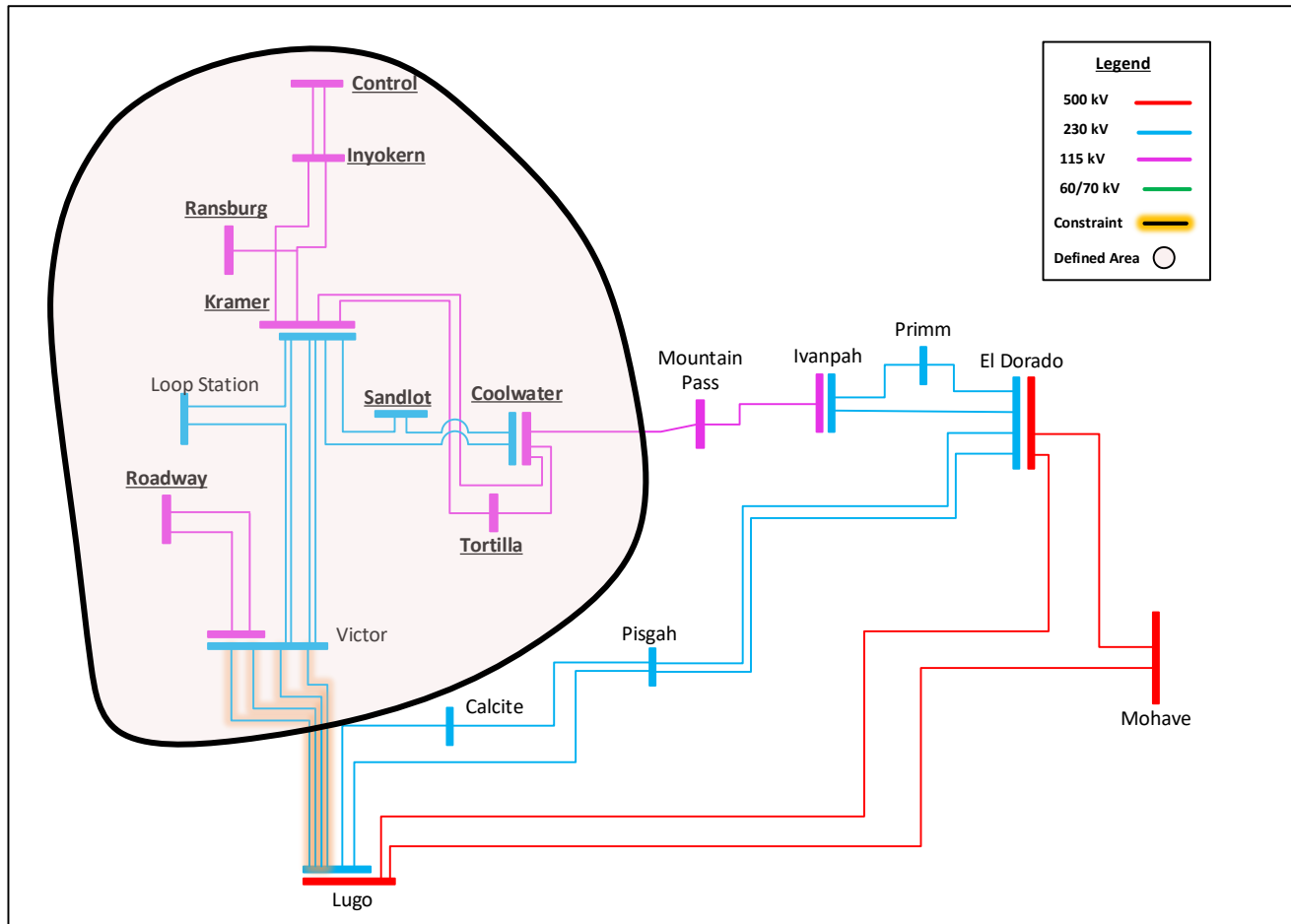
Control to Inyokern Constraint On-Peak Constraint



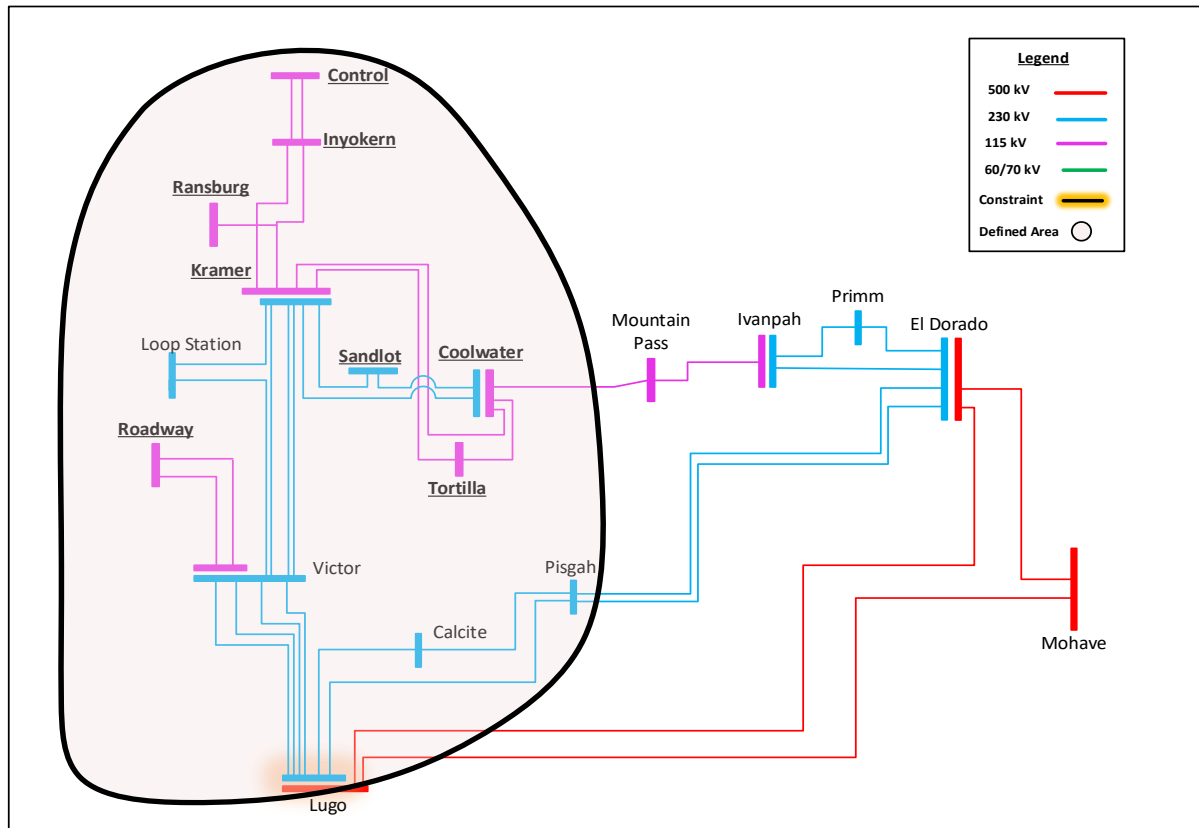
South of Kramer Constraint



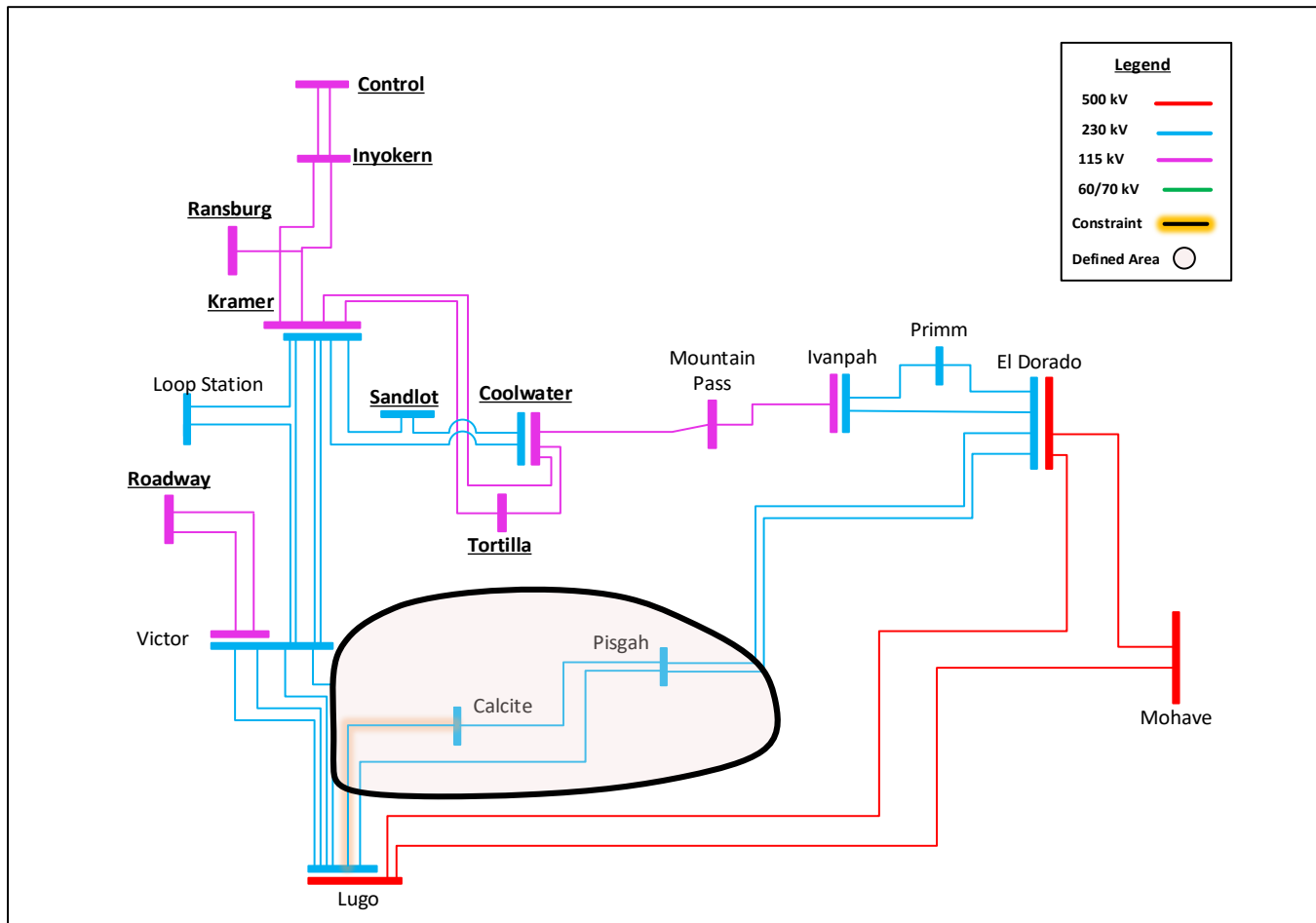
Victor – Lugo Area Constraint



Lugo 500/230 kV Transformer Constraint

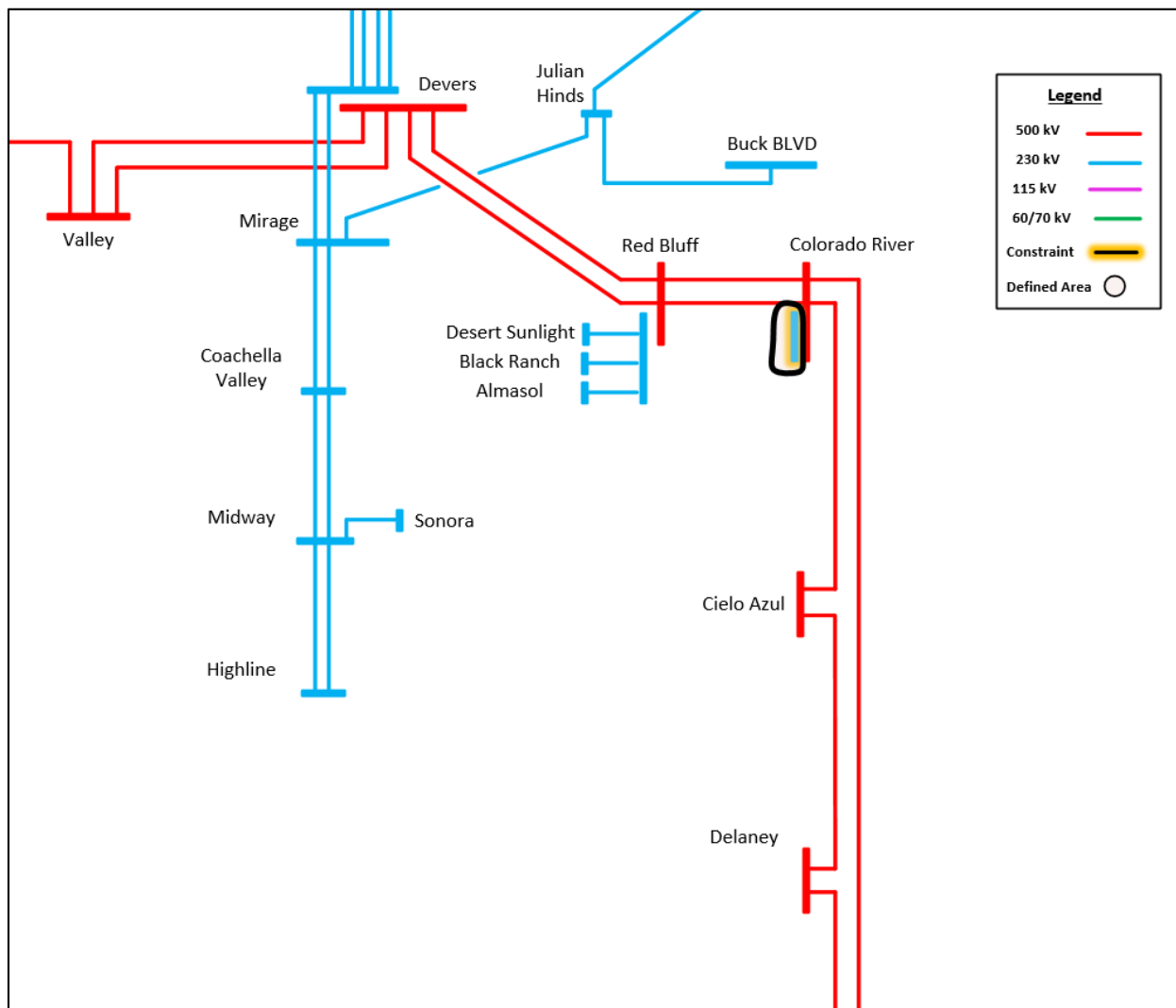


Calcite to Lugo Area Constraint

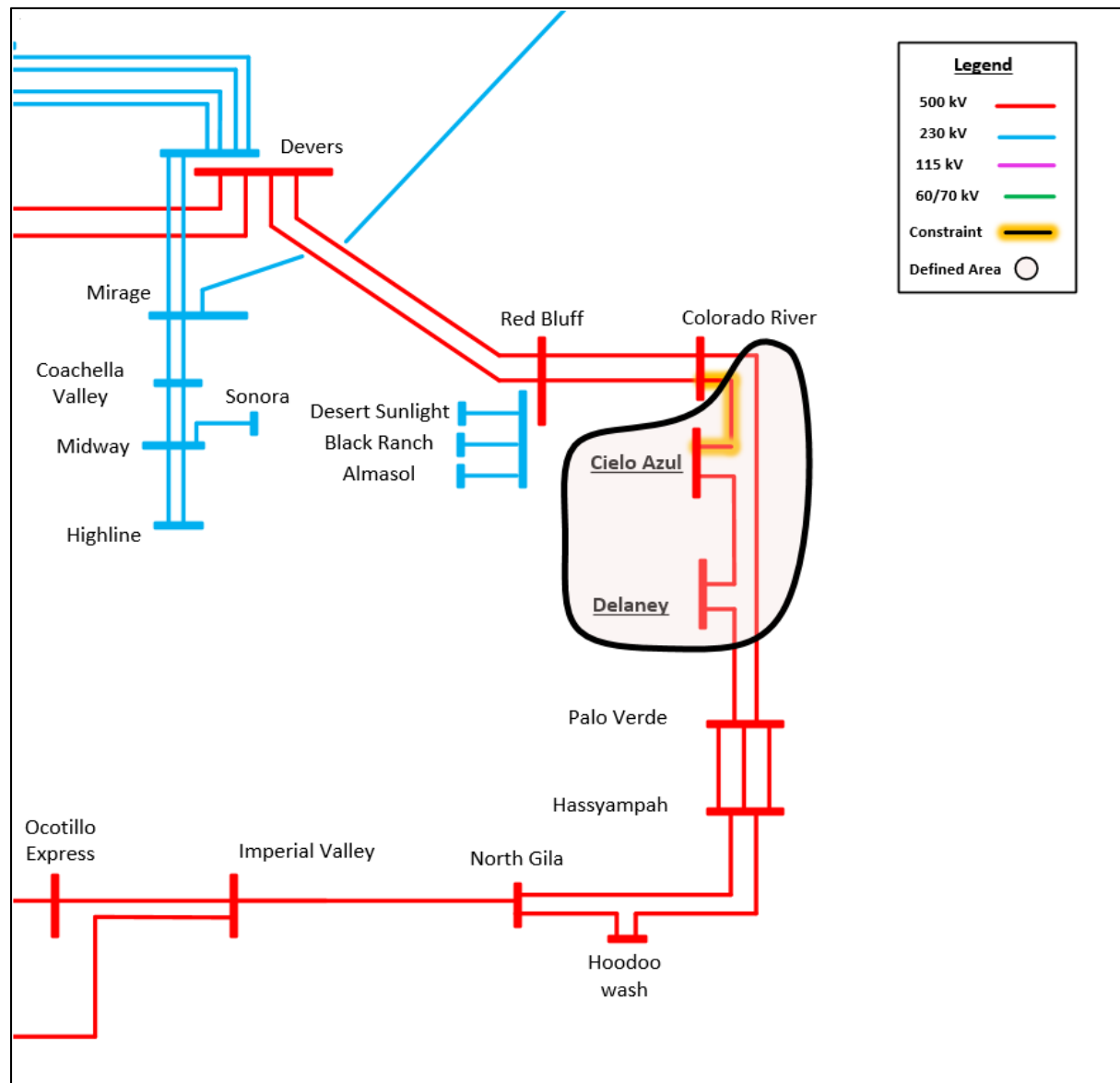


SCE Eastern Interconnection Area Deliverability Constraints

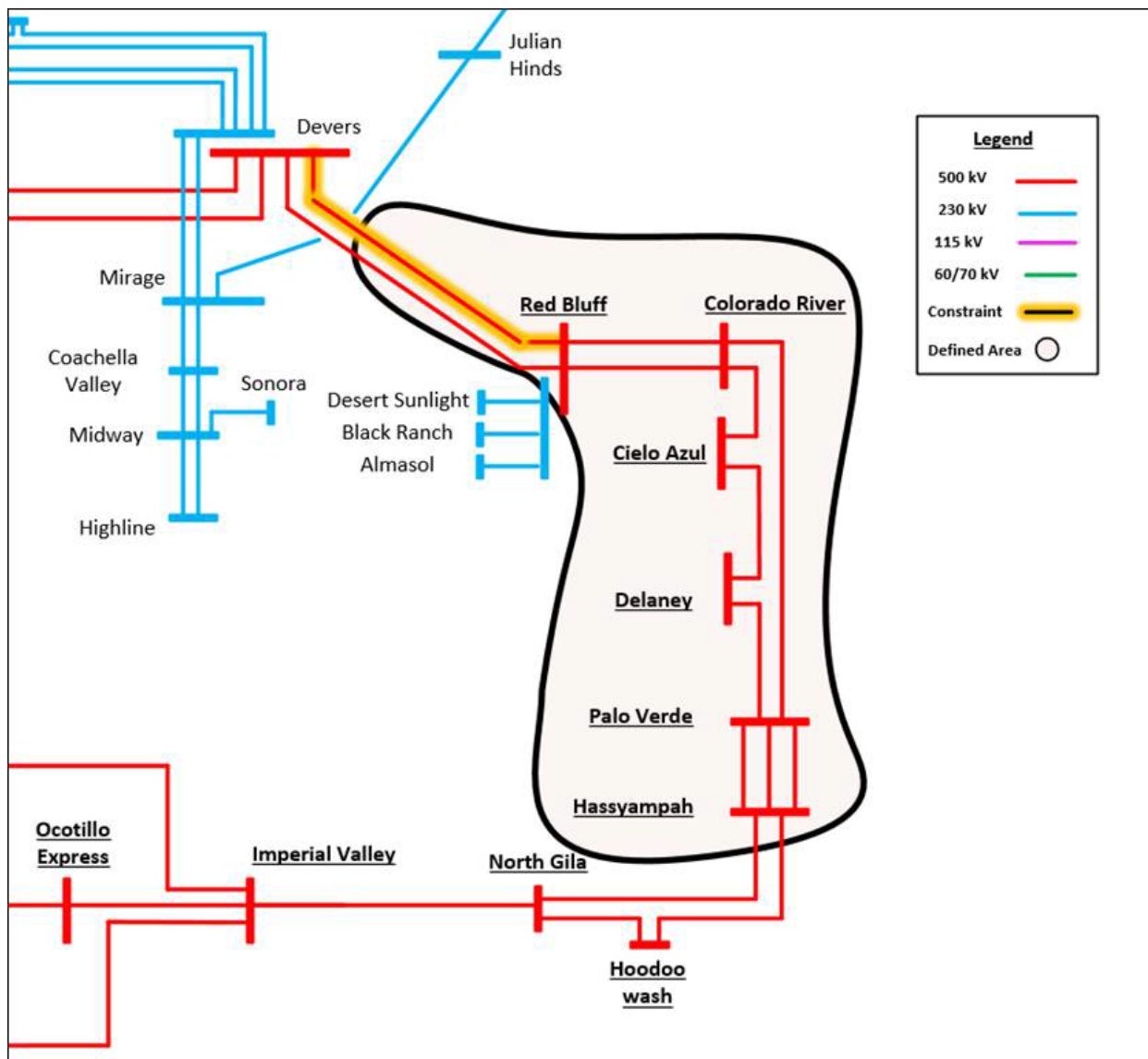
Colorado River 500/230 kV On-Peak Constraint (230 kV bus only)



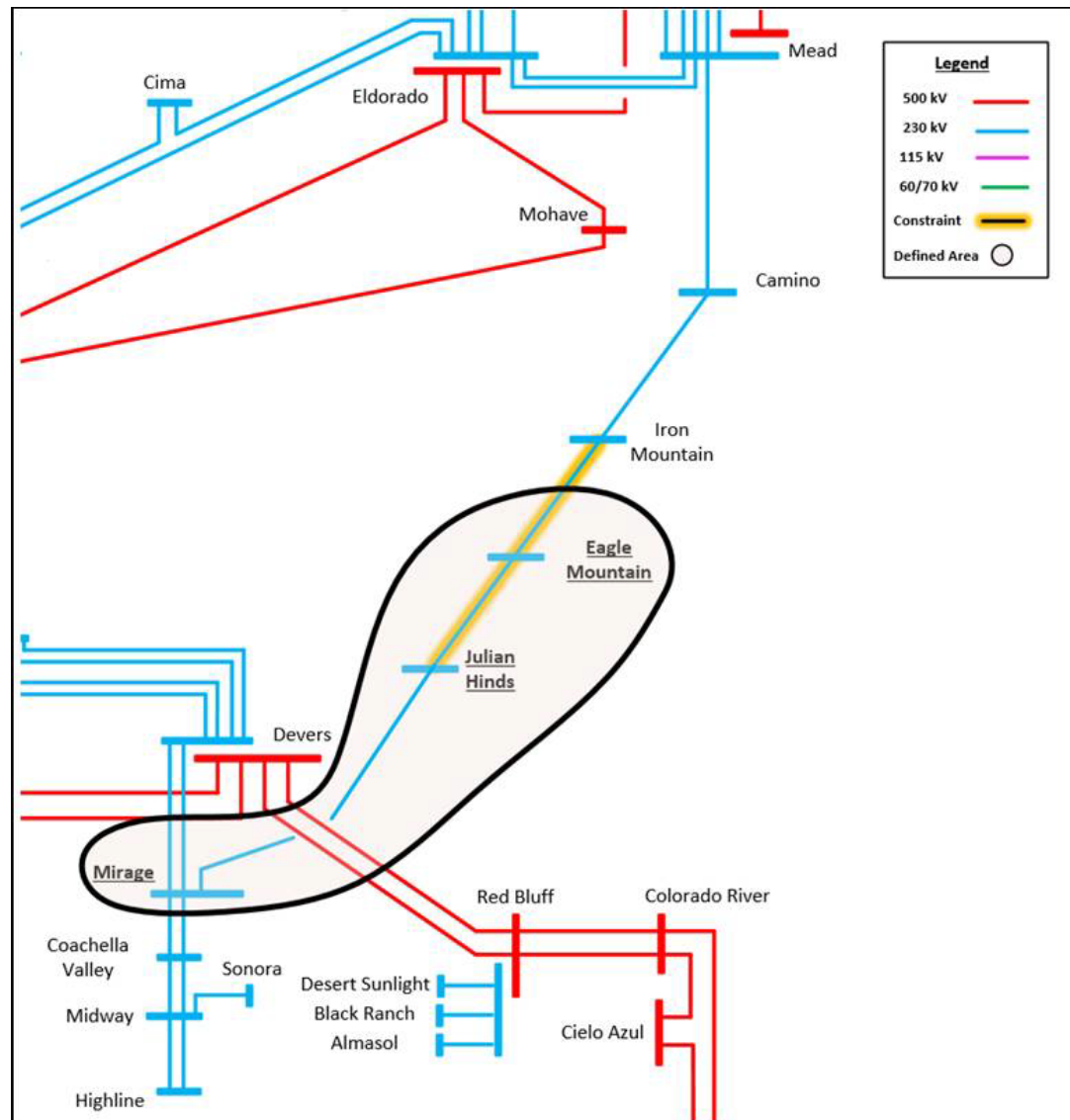
DCRT On-Peak Constraint



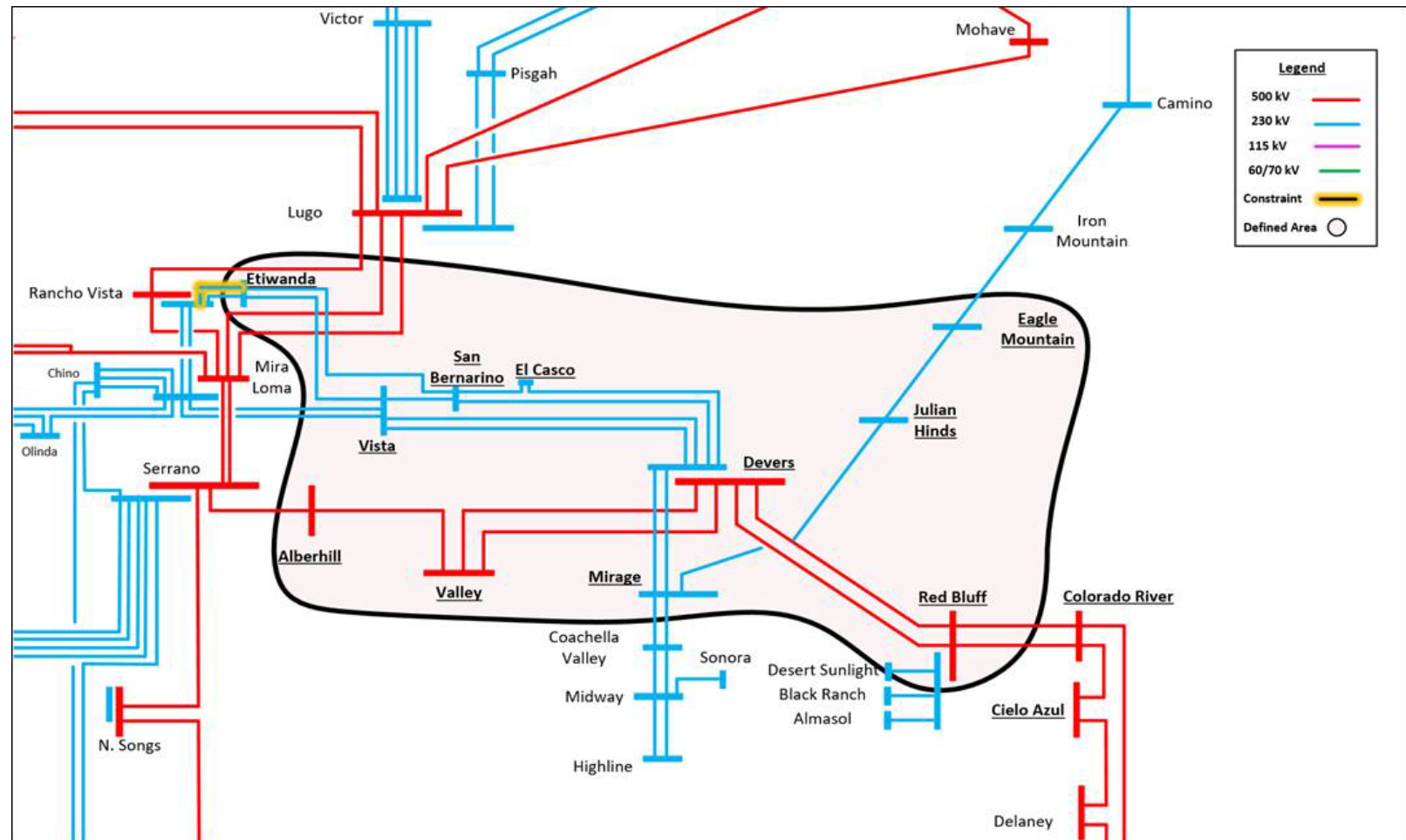
Devers-Red Bluff On-Peak Constraint



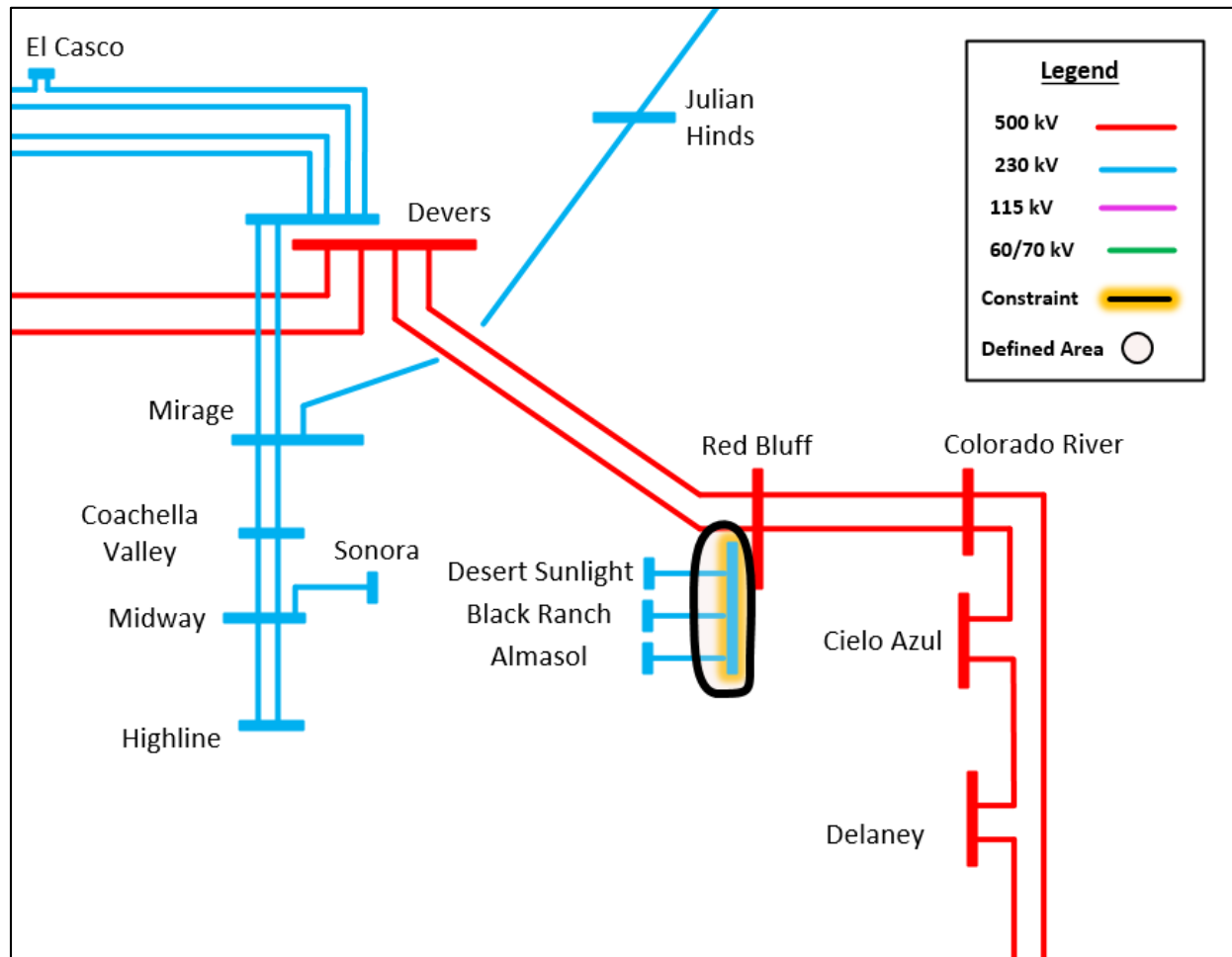
Eagle Mountain On-Peak Constraint



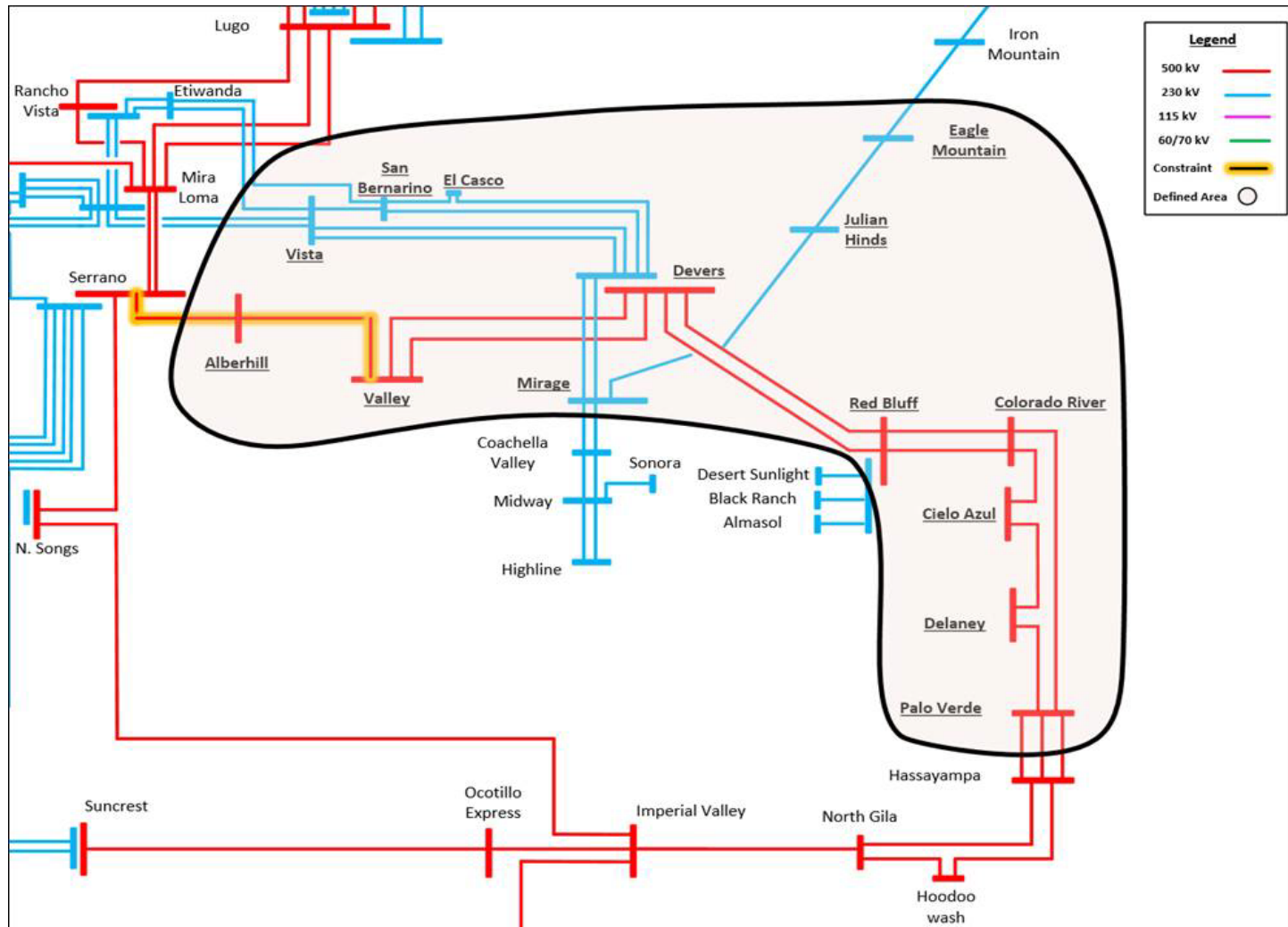
Etiwanda-Rancho Vista On-Peak Constraint



Red Bluff 500/230 kV On-Peak Constraint (230 kV only)

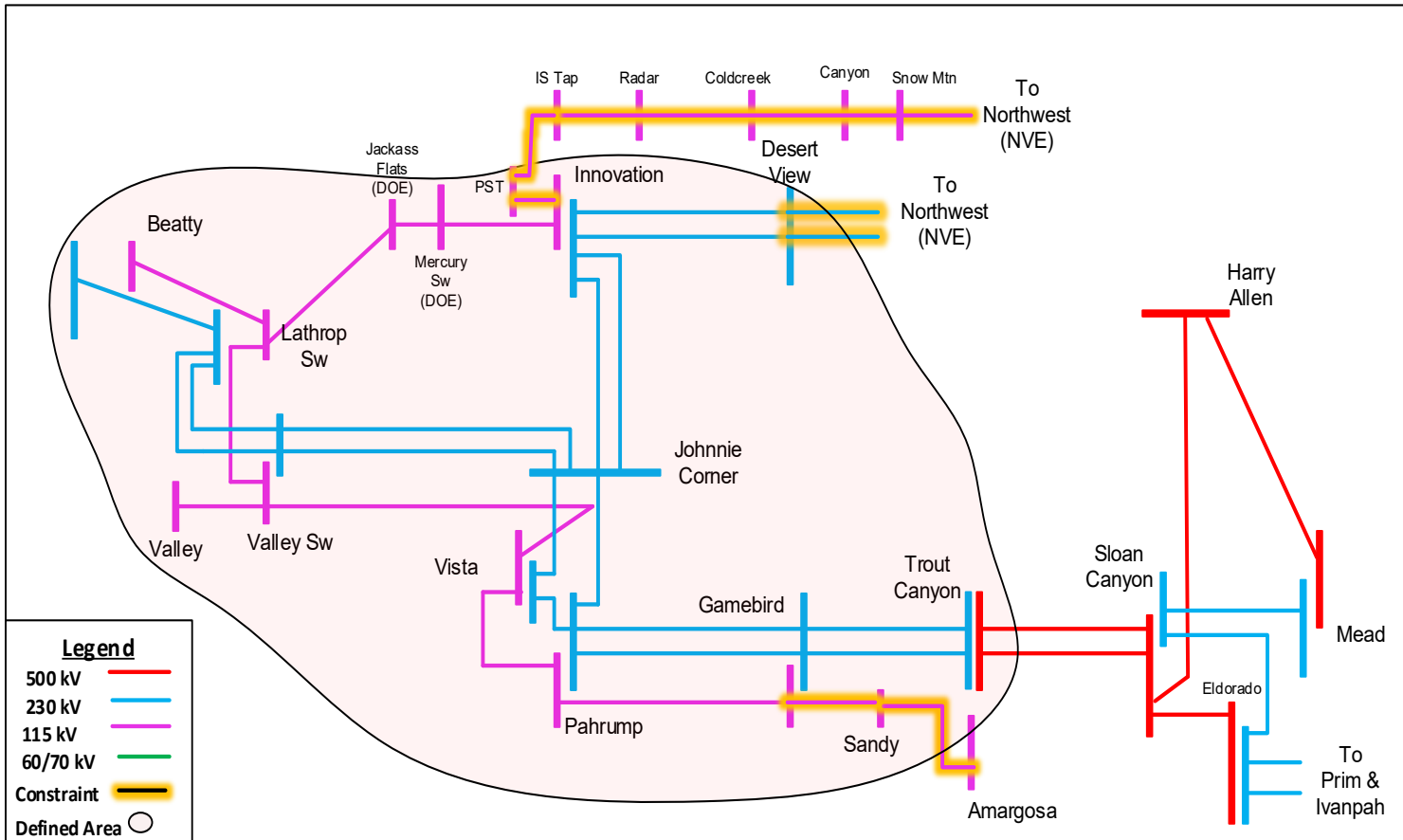


Serrano-Alberhill-Valley On-Peak Constraint

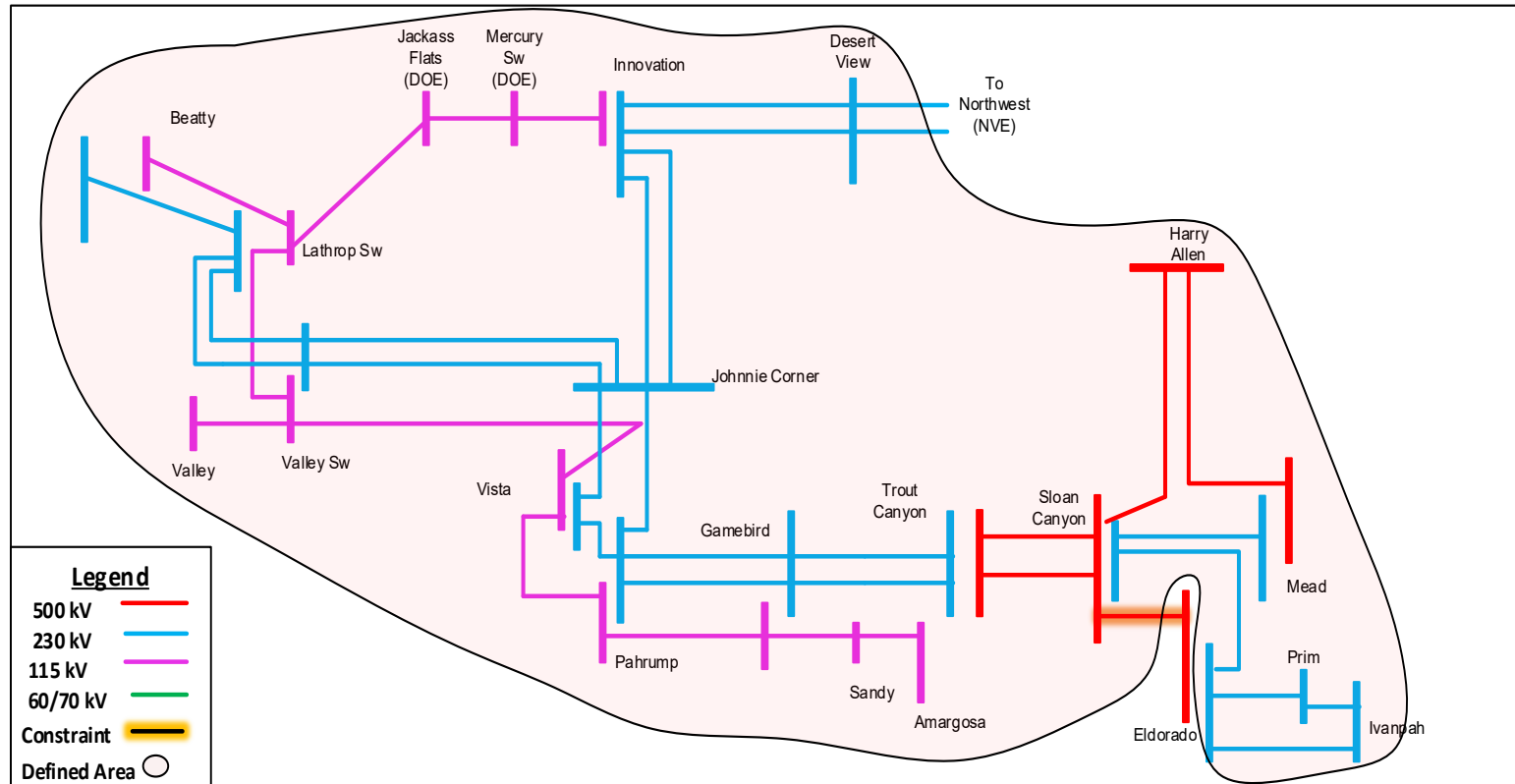


East of Pisgah Interconnection Area Deliverability Constraints

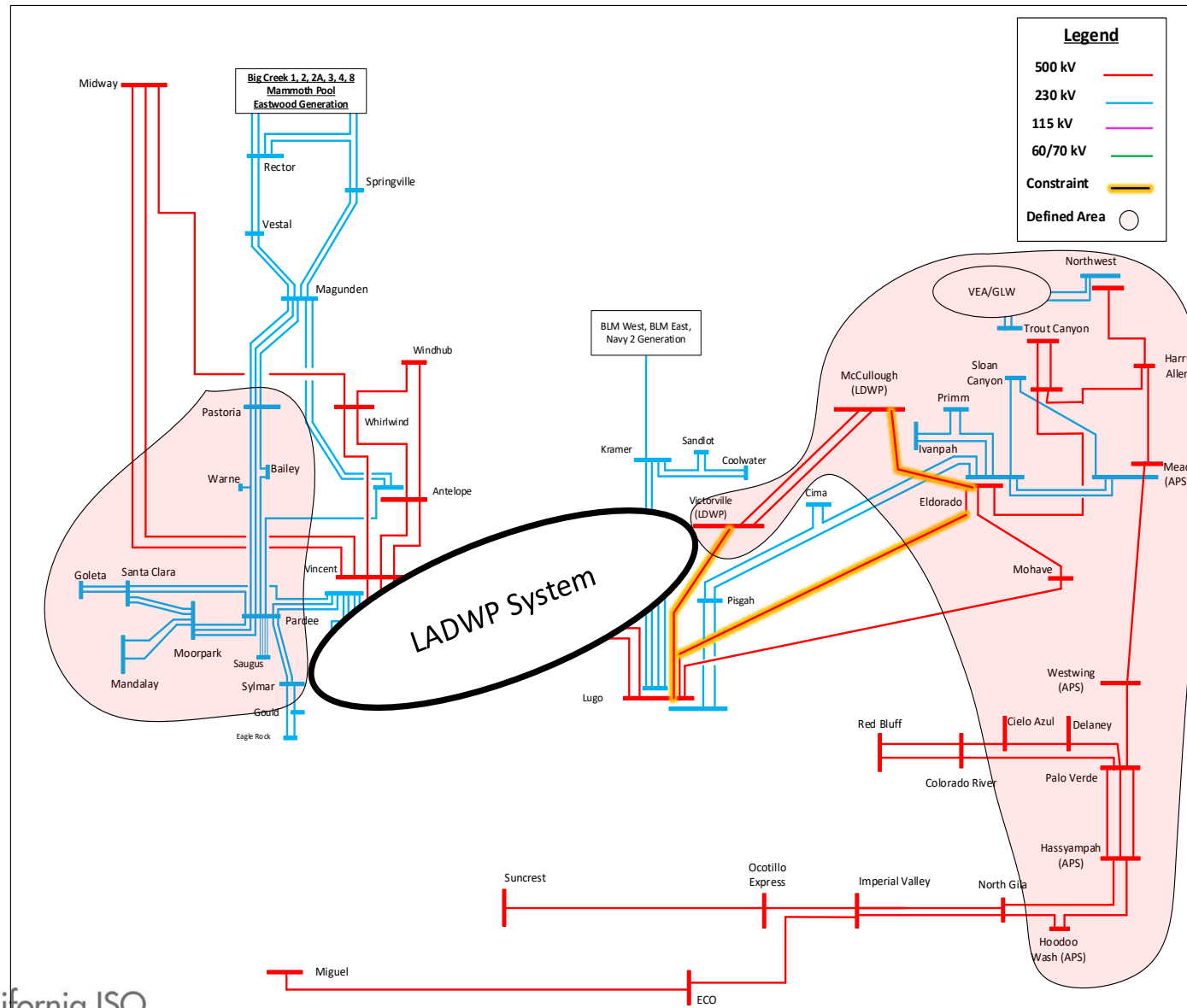
GLW Area Constraint



Sloan Canyon – Eldorado 500 kV Area Constraint



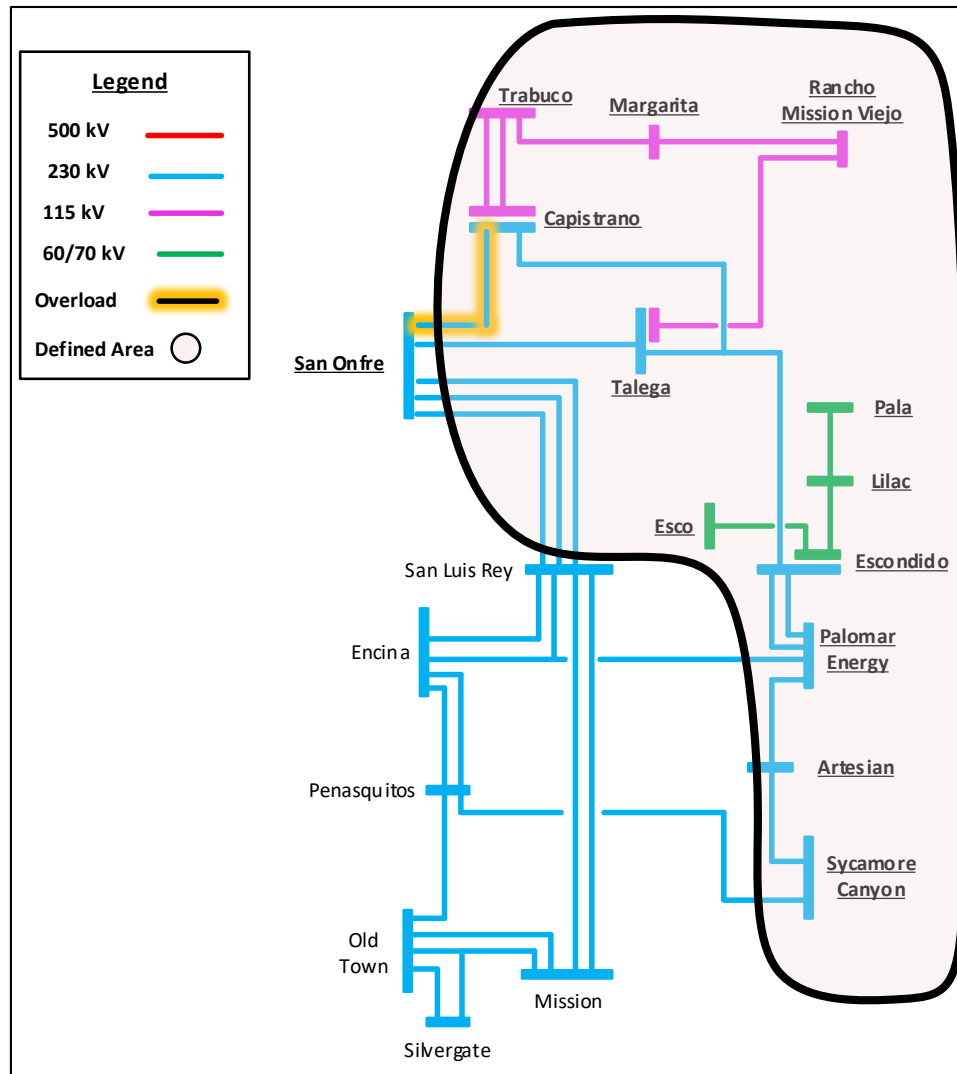
Lugo-Victorville Area Constraint



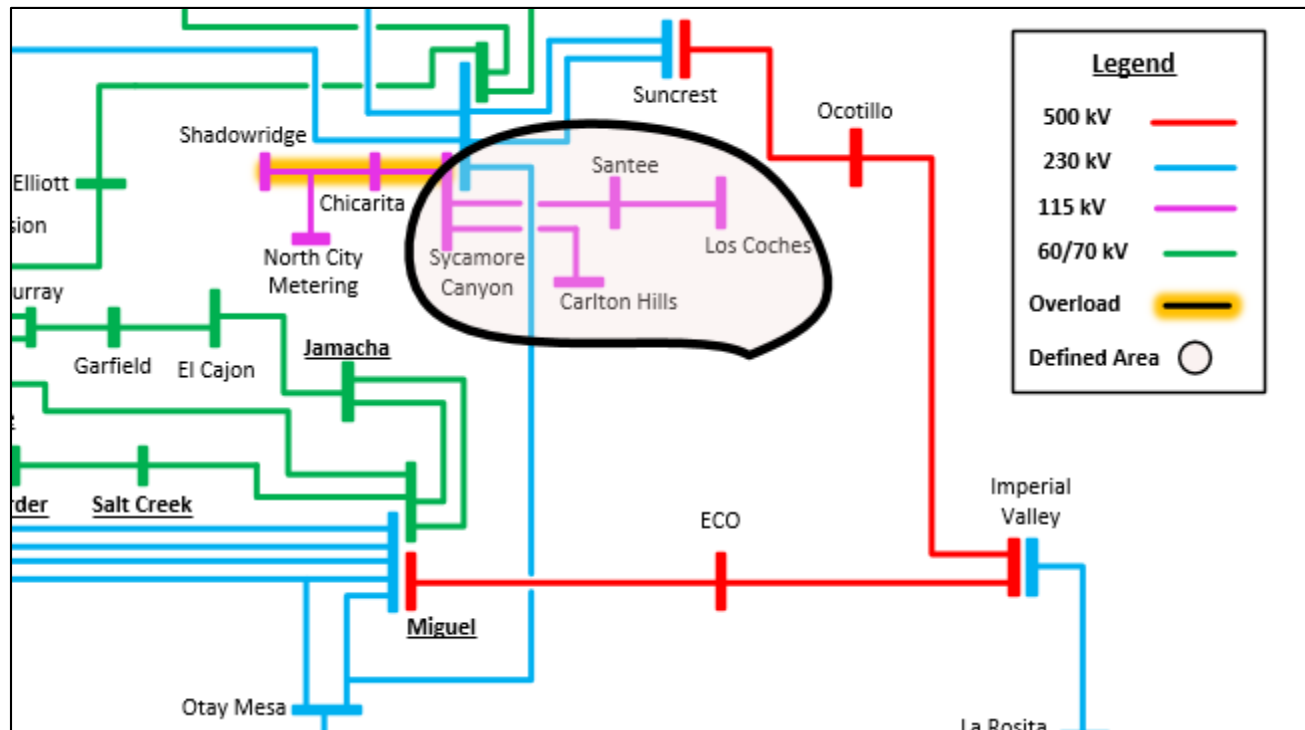
Note: The GLW/VEA system, which is not shown in detail, is inside the constraint boundary.

SDG&E Interconnection Area Deliverability Constraints

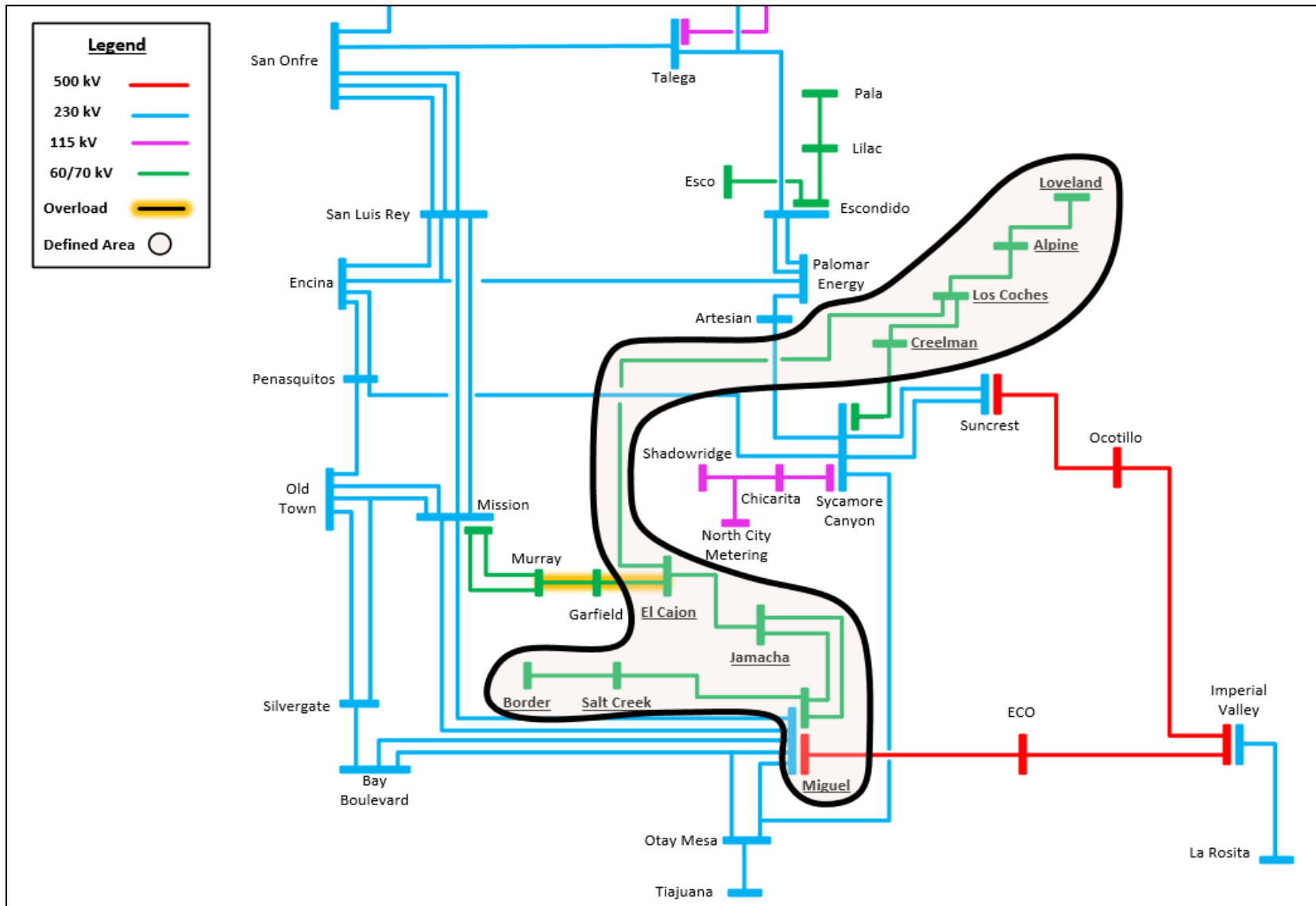
Capistrano-San Onofre 230 kV On-Peak Constraint



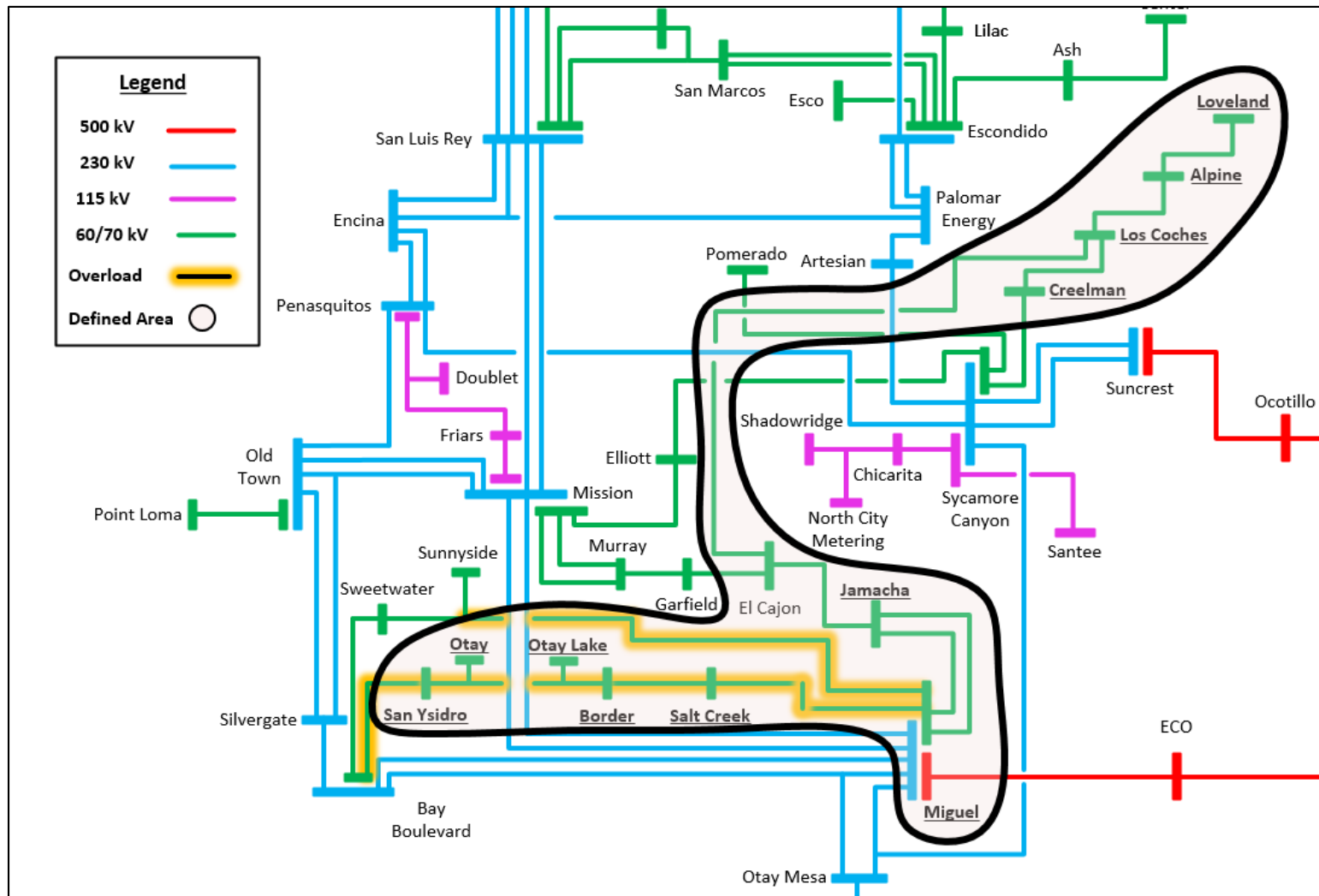
Chicarita 138 kV On-Peak Constraint



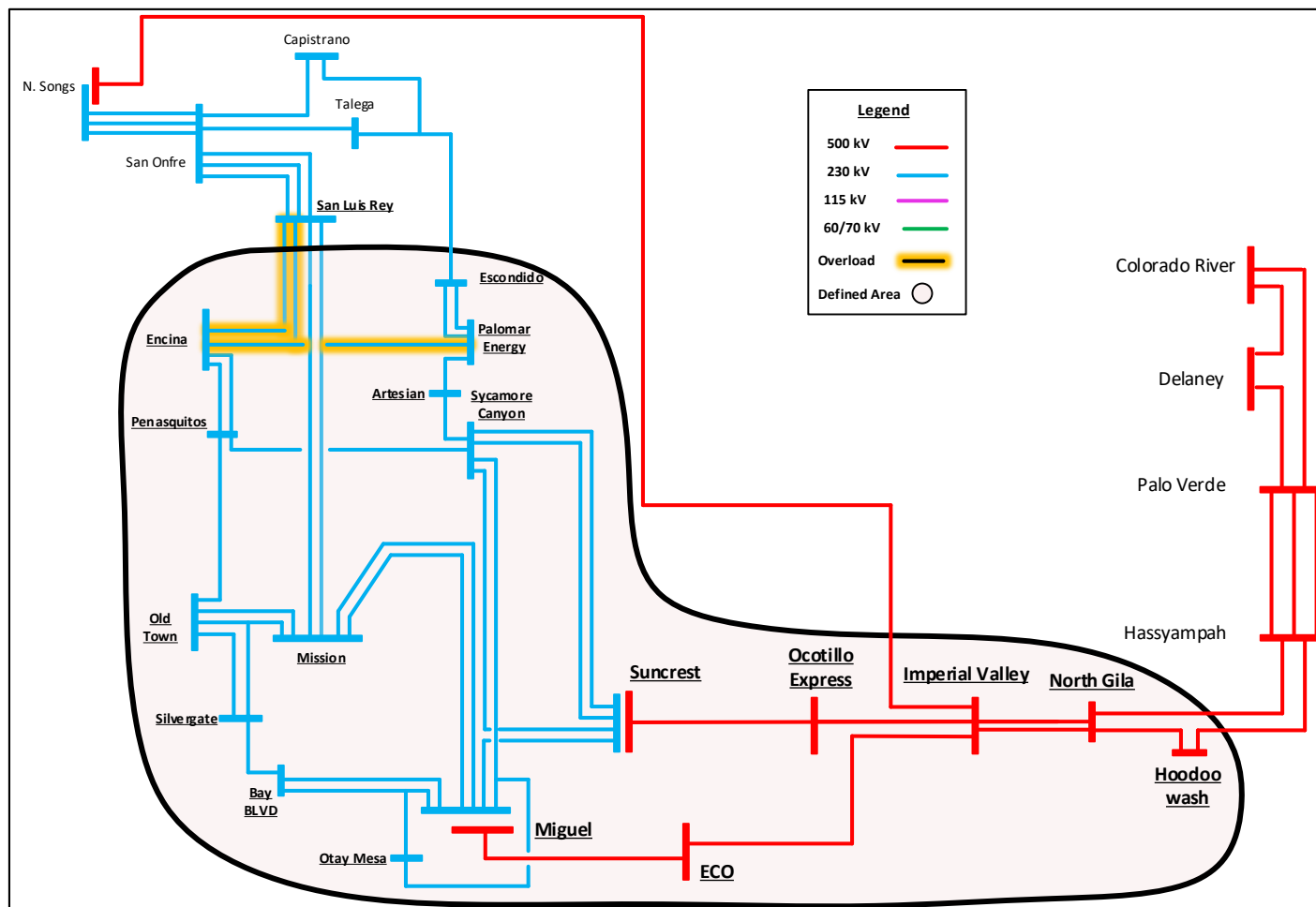
El Cajon 69 kV On-Peak Constraint



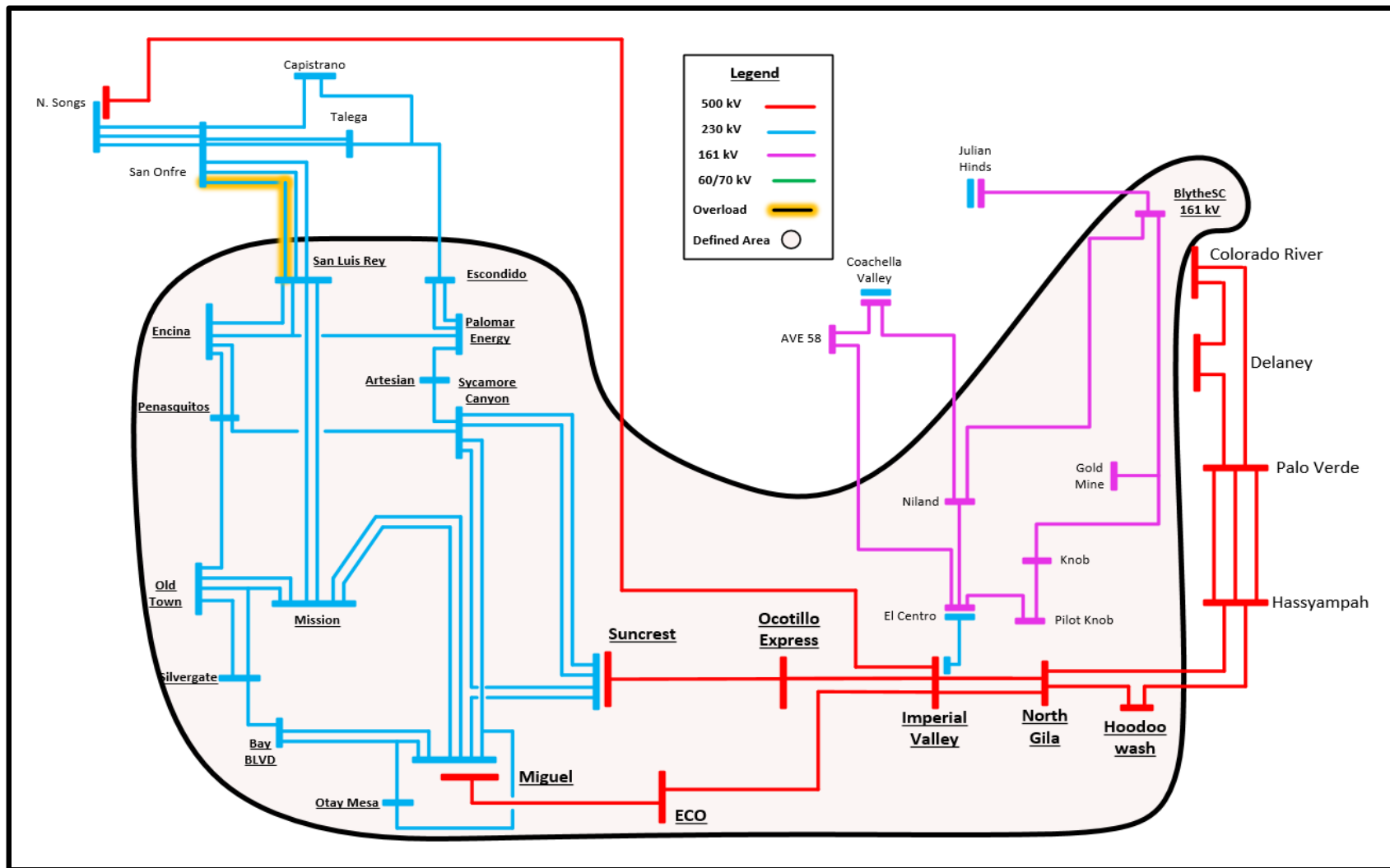
Miguel 69 kV On-Peak Constraint



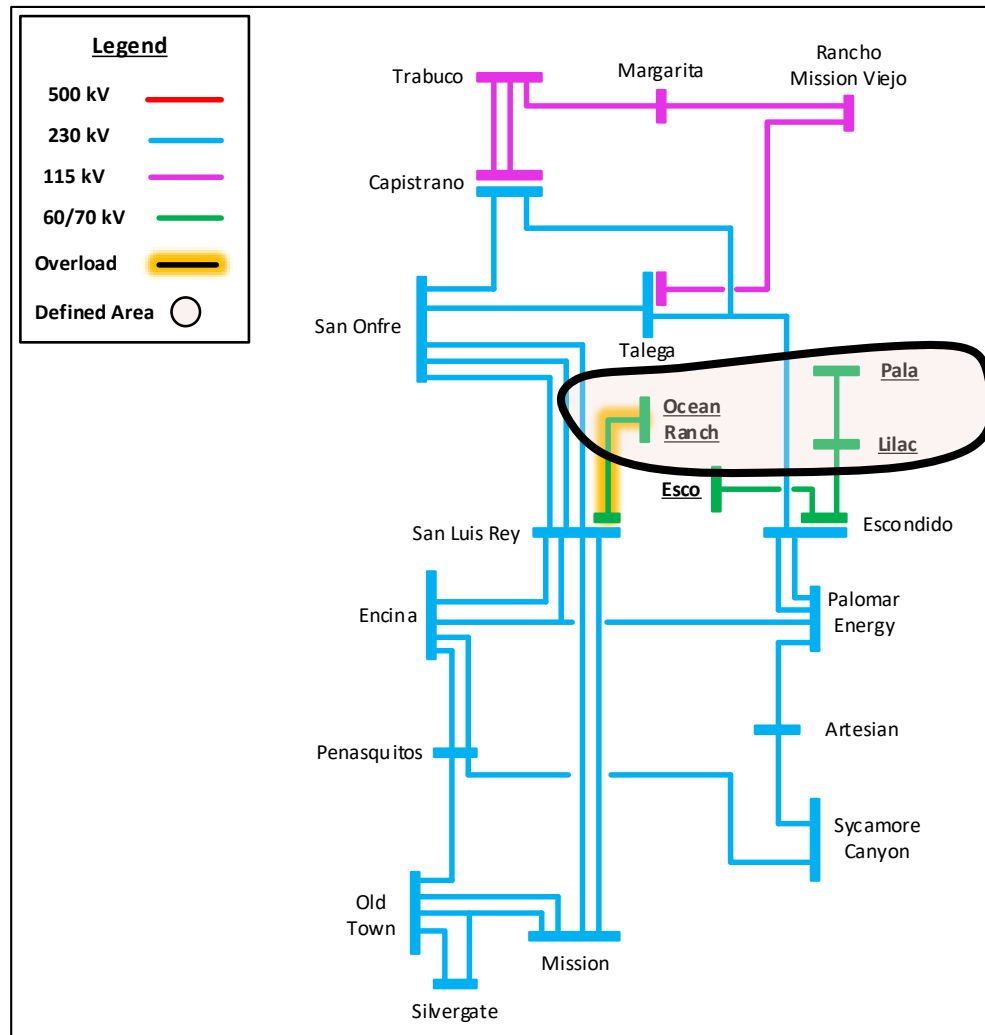
Encina - San Luis Rey 230 kV On-Peak/Off-Peak Constraint



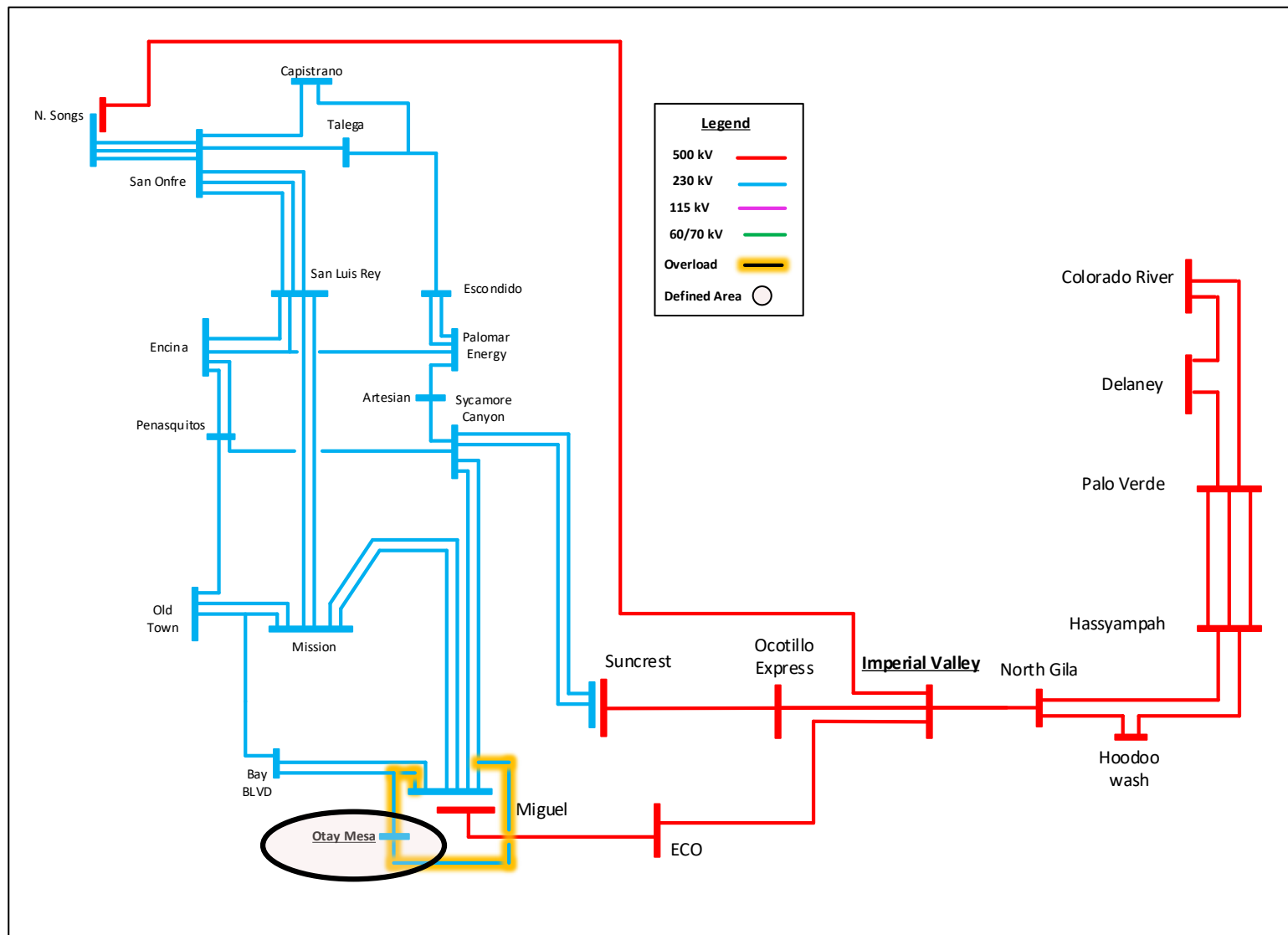
San Luis Rey-San Onofre 230 kV On-Peak/Off-Peak Constraint



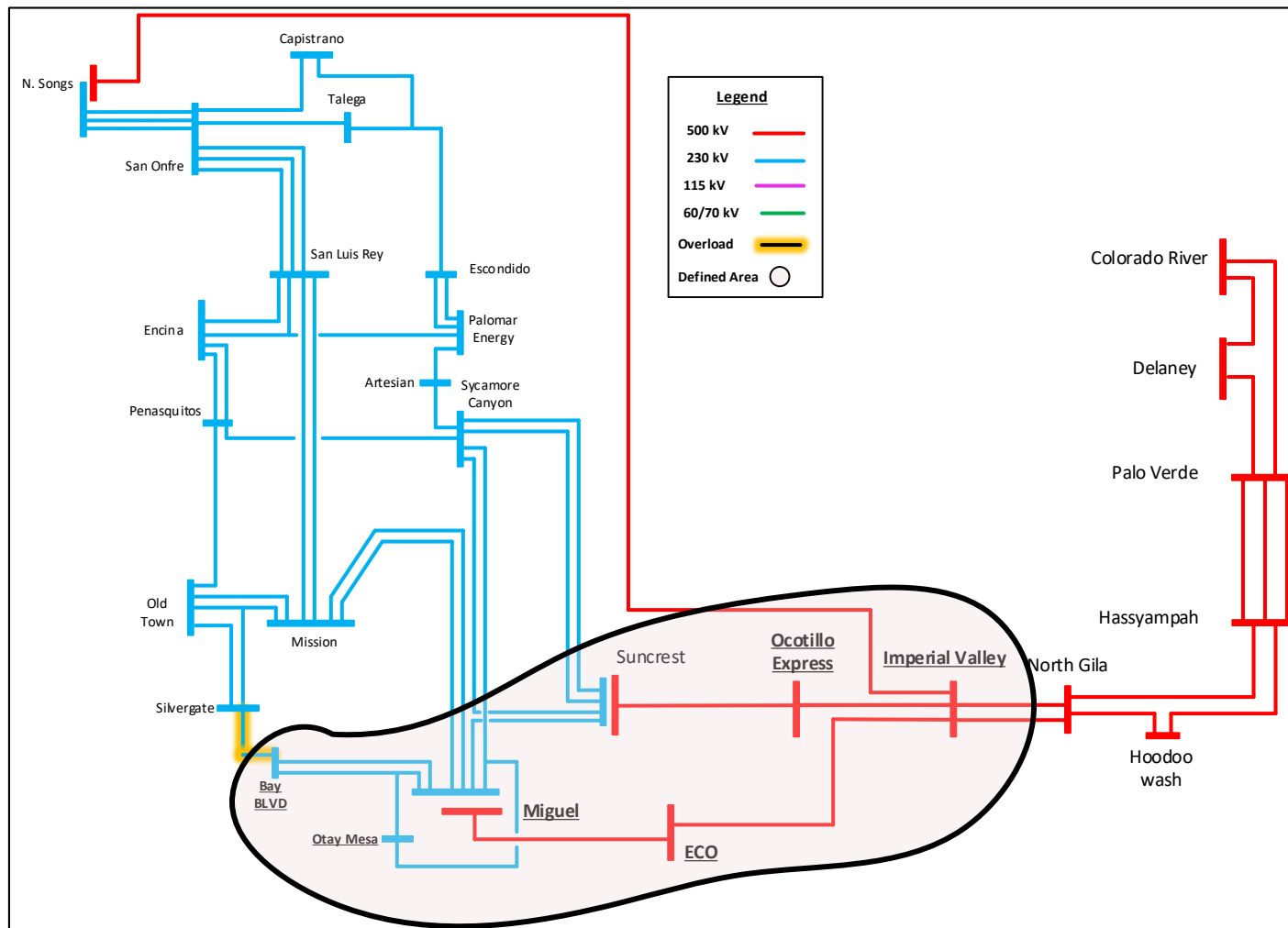
Ocean Ranch 69 kV On-Peak Constraint



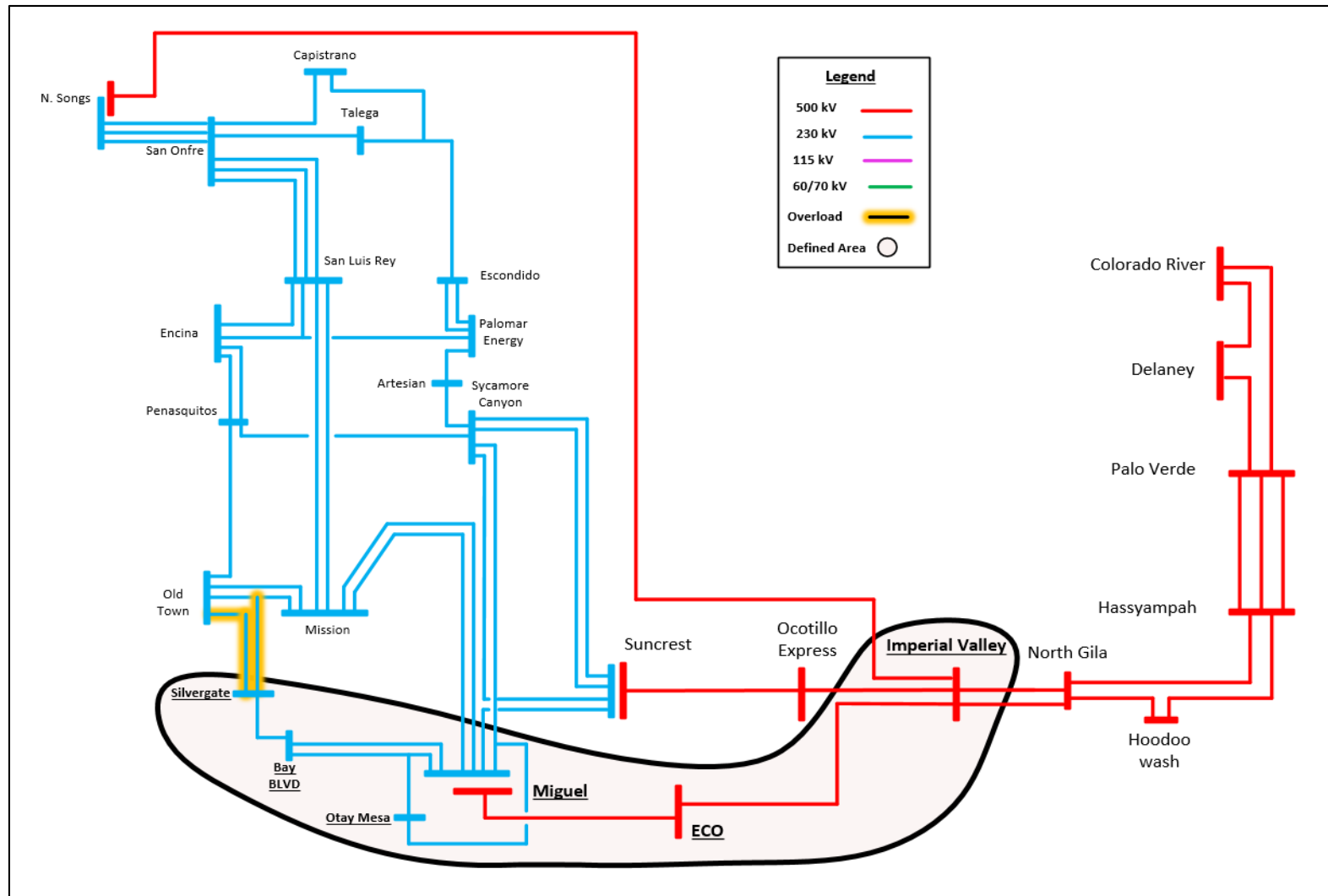
Otay Mesa 230 kV On-Peak Constraint



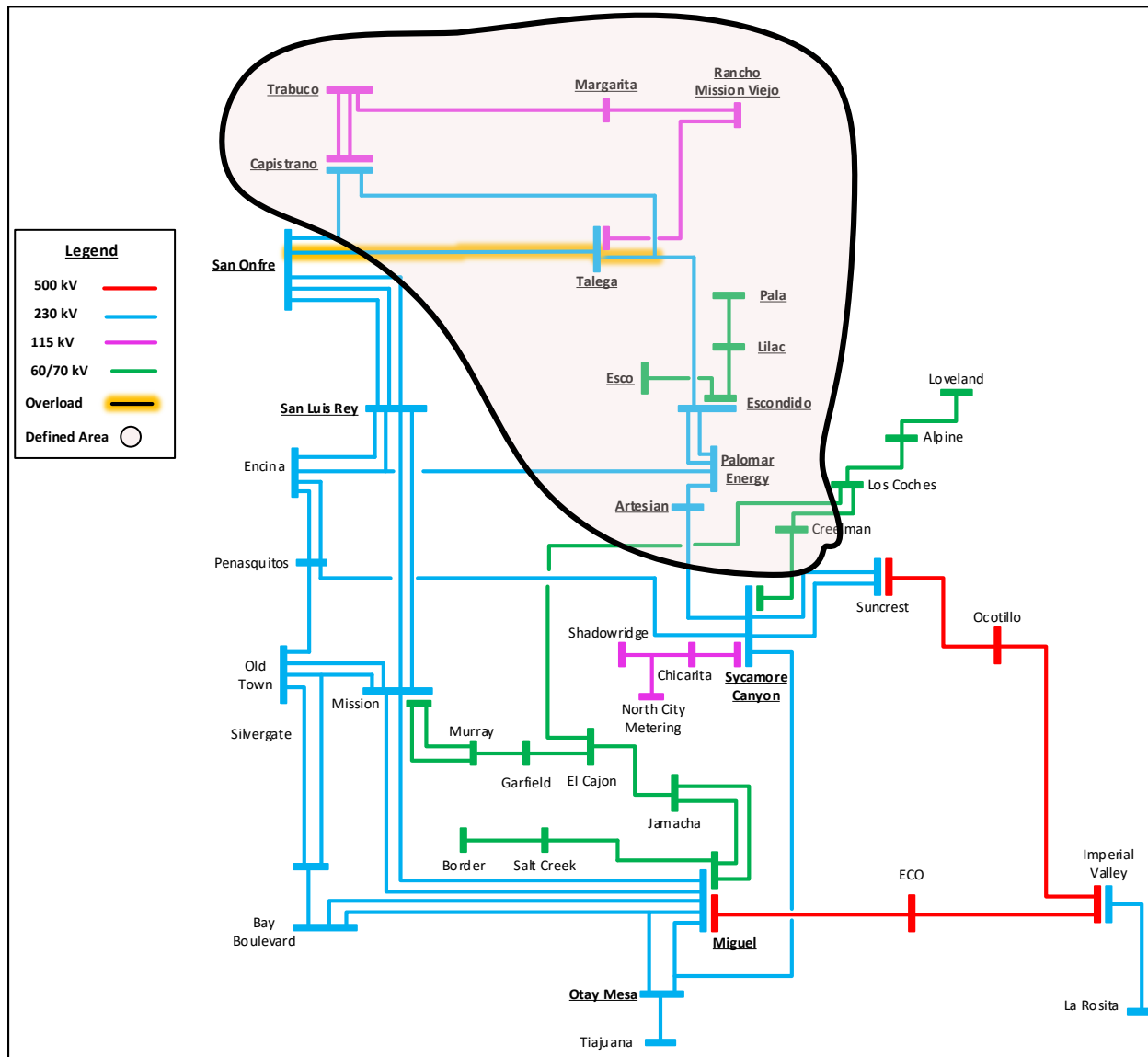
Silvergate - Bay Blvd 230 kV On-Peak/Off-Peak Constraint



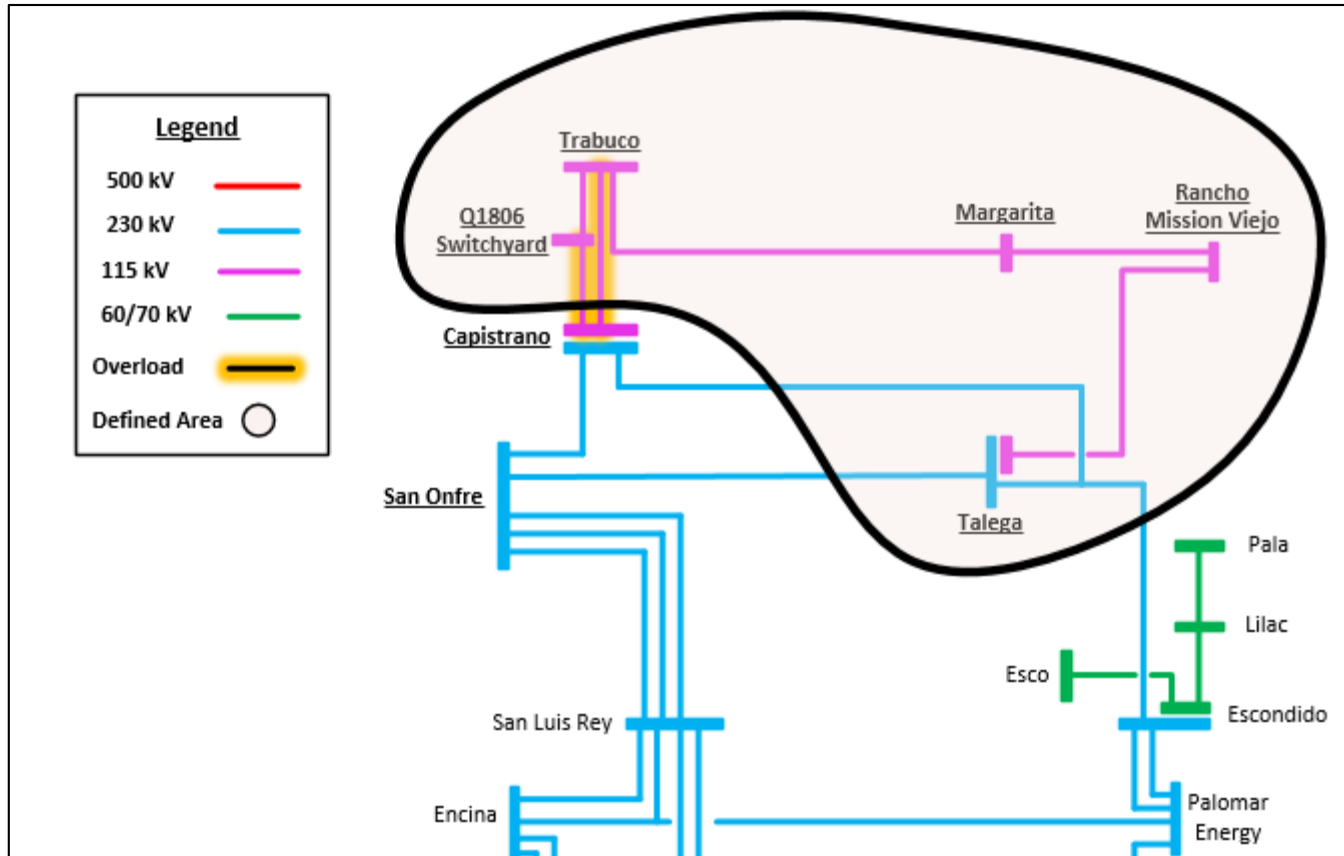
Silvergate-Old Town 230 kV On-Peak Constraint



Talega 230 kV On-Peak Constraint

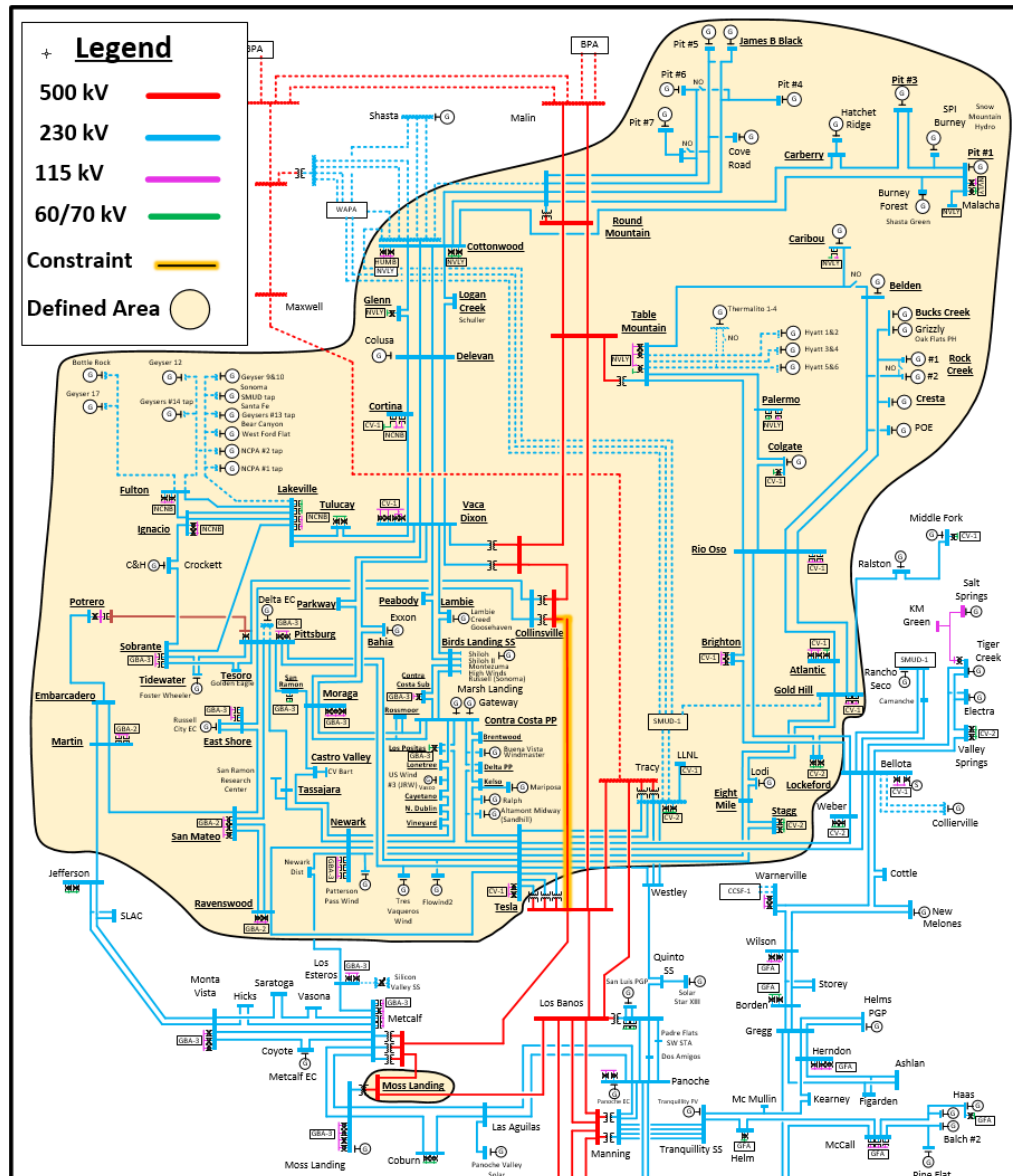


Trabuco-Capistrano 138 kV On-Peak Constraint

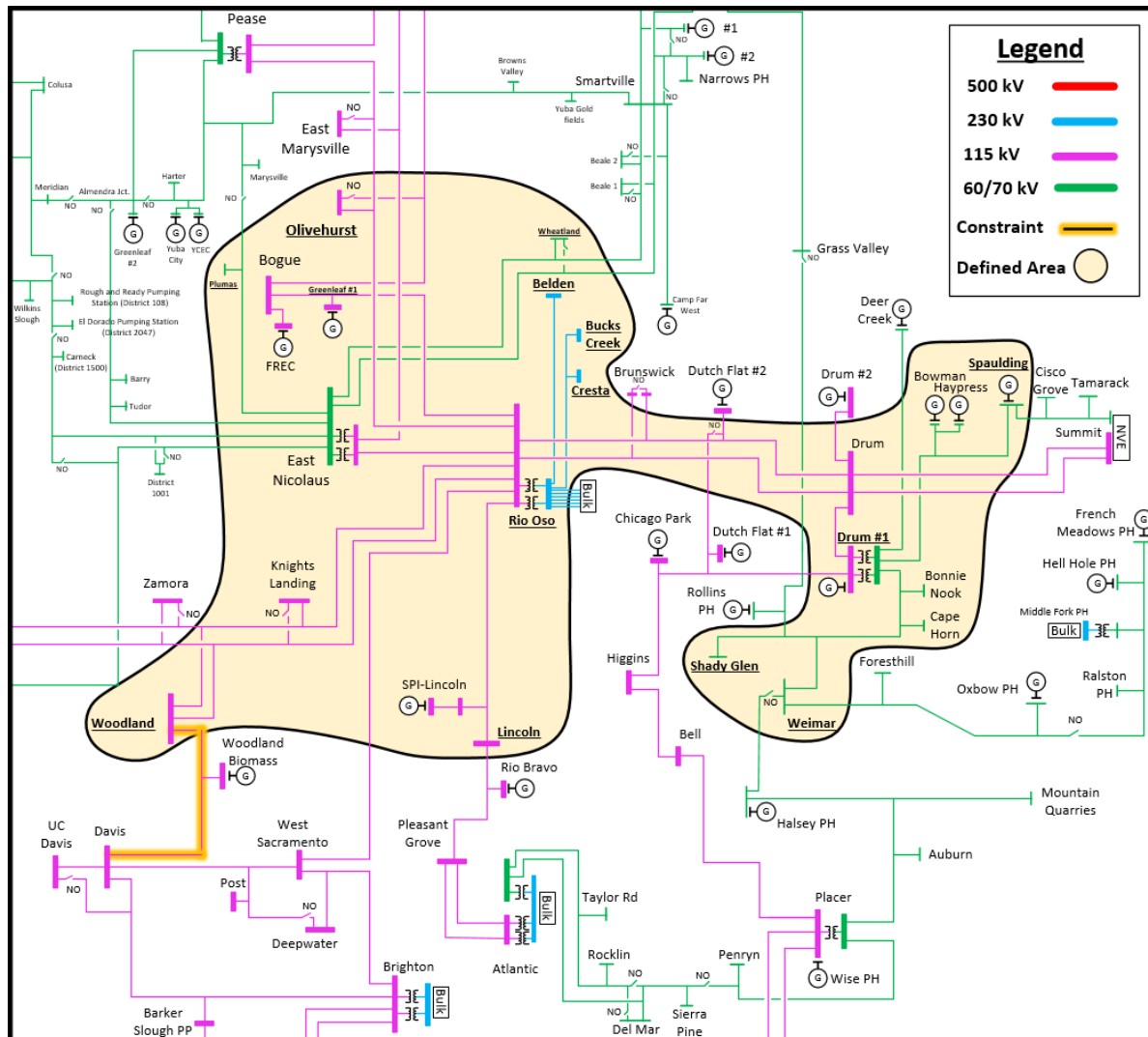


PG&E North of Greater Bay Interconnection Area Deliverability Constraints

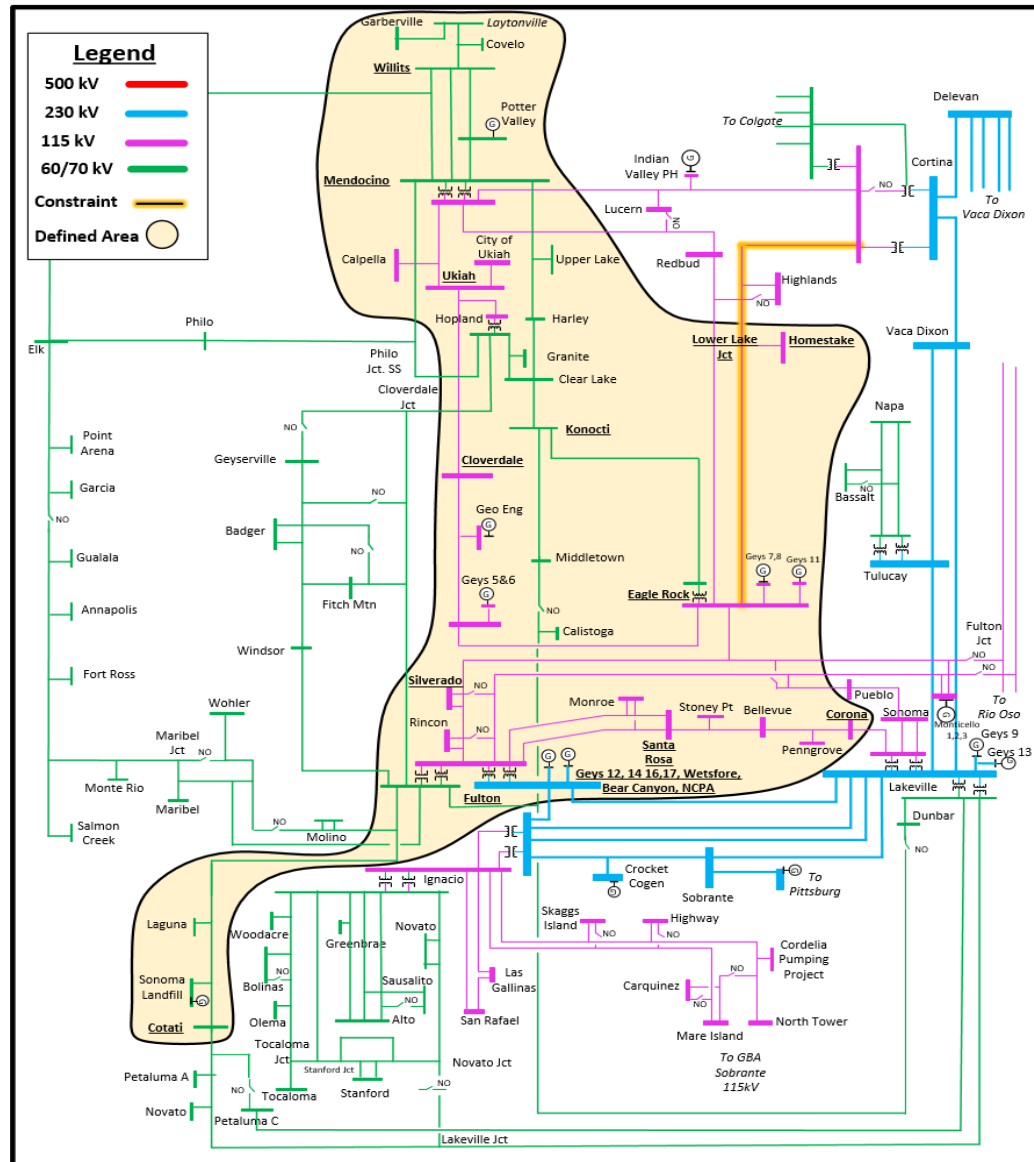
Collinsville-Tesla 500 kV Line



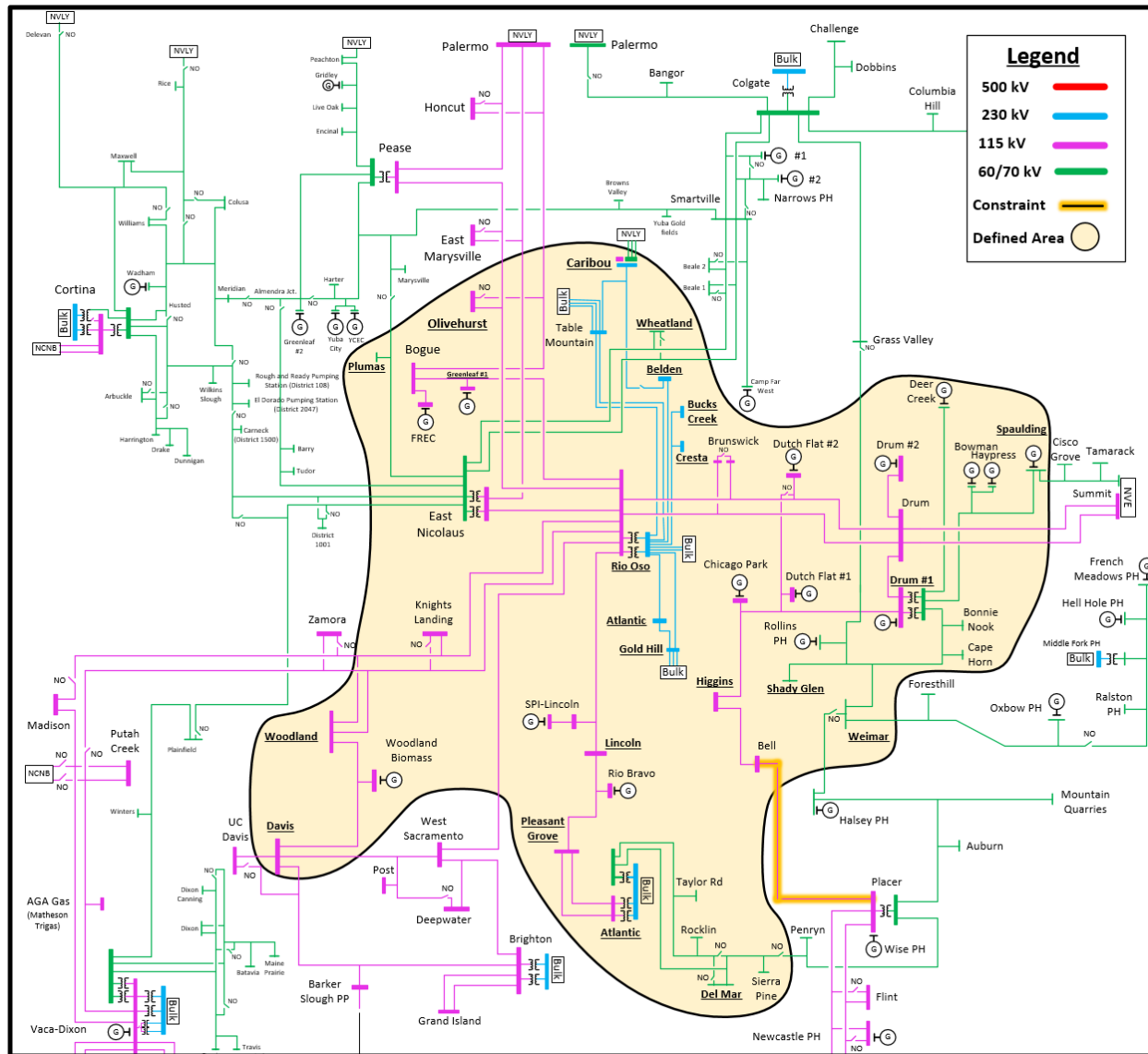
Woodland - Davis 115kV line



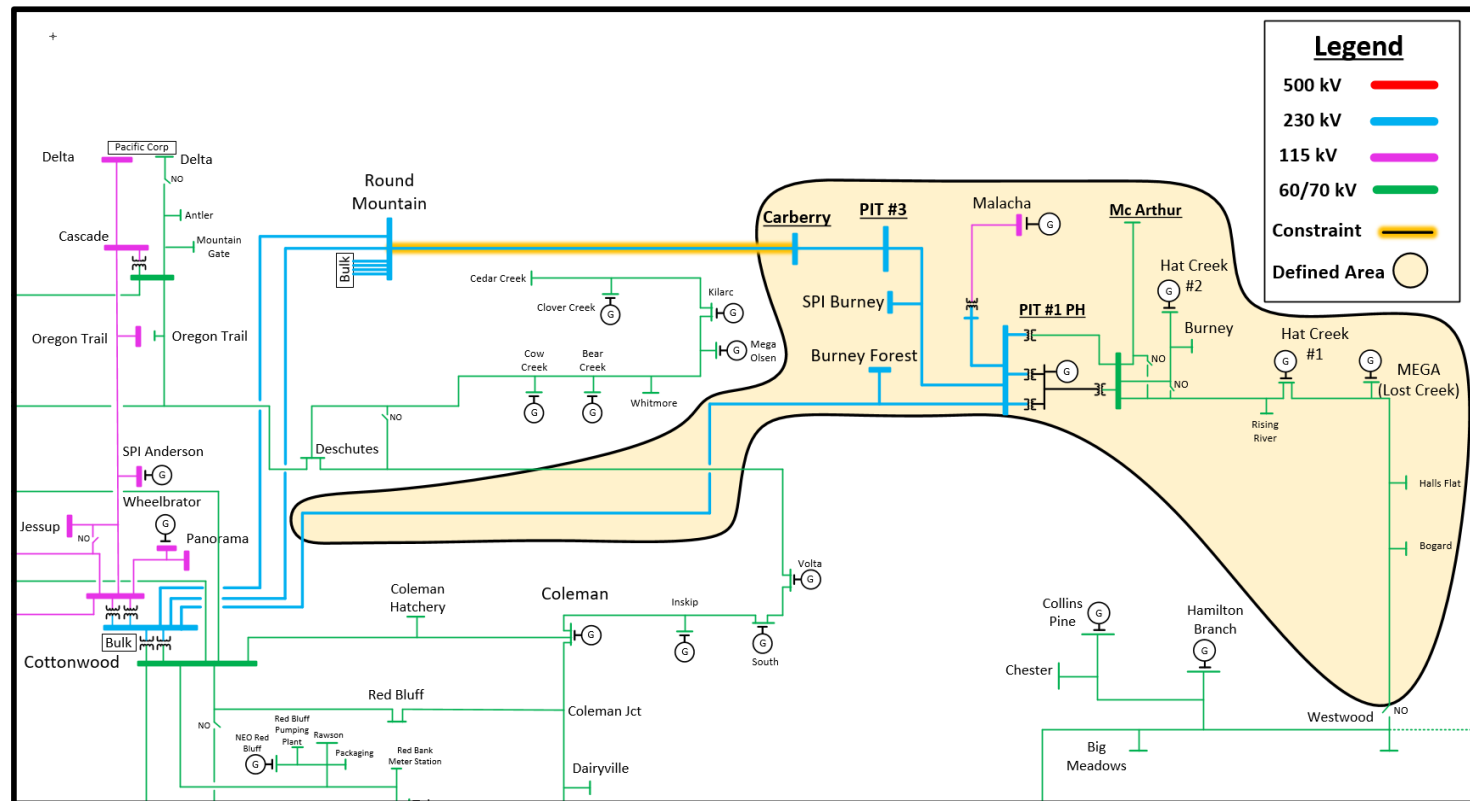
Cortina-Eagle Rock 115 kV line



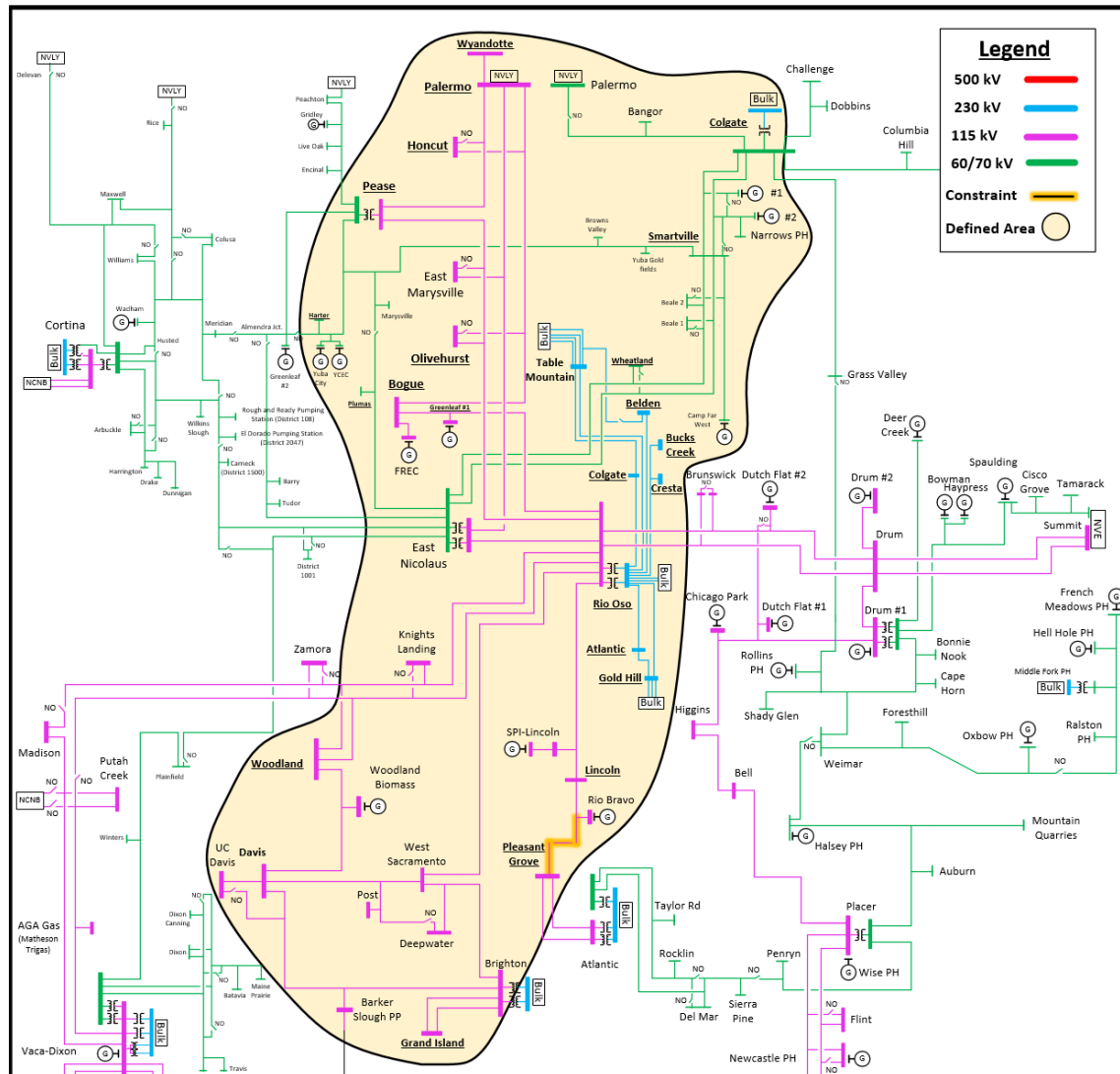
Bell-Placer 115kV Line



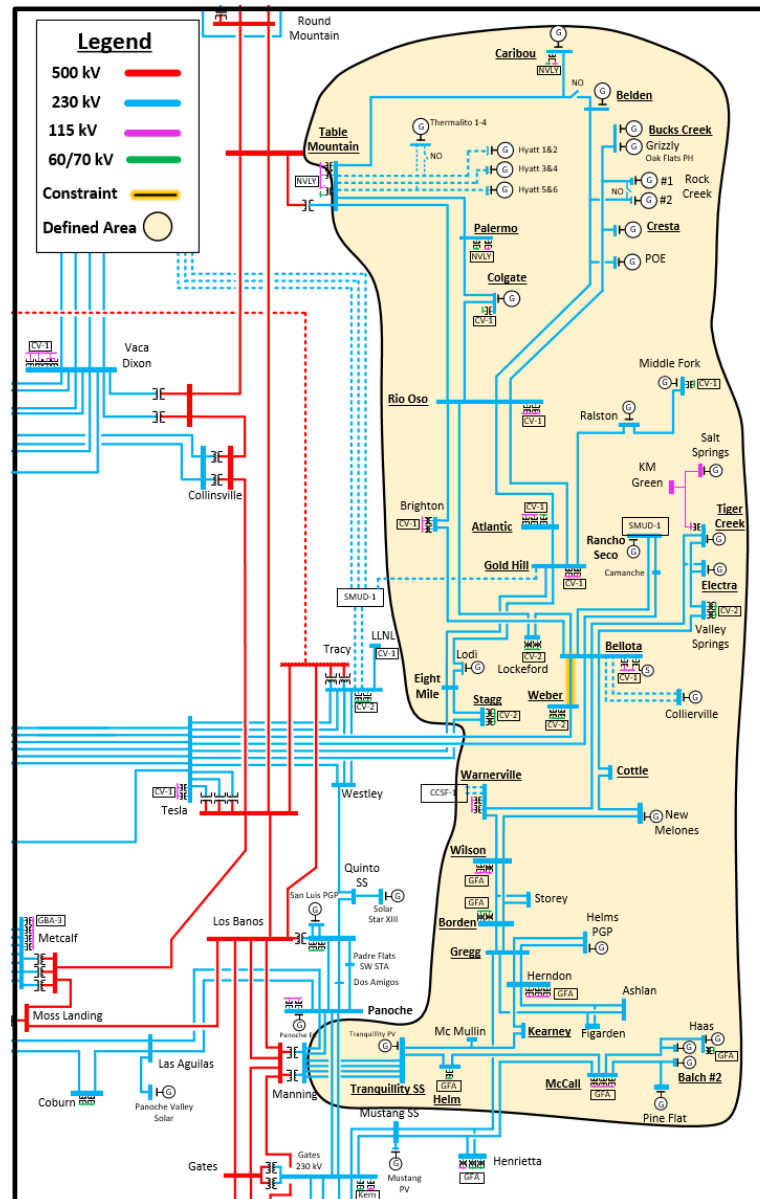
Carberry-Round Mountain 230kV Line



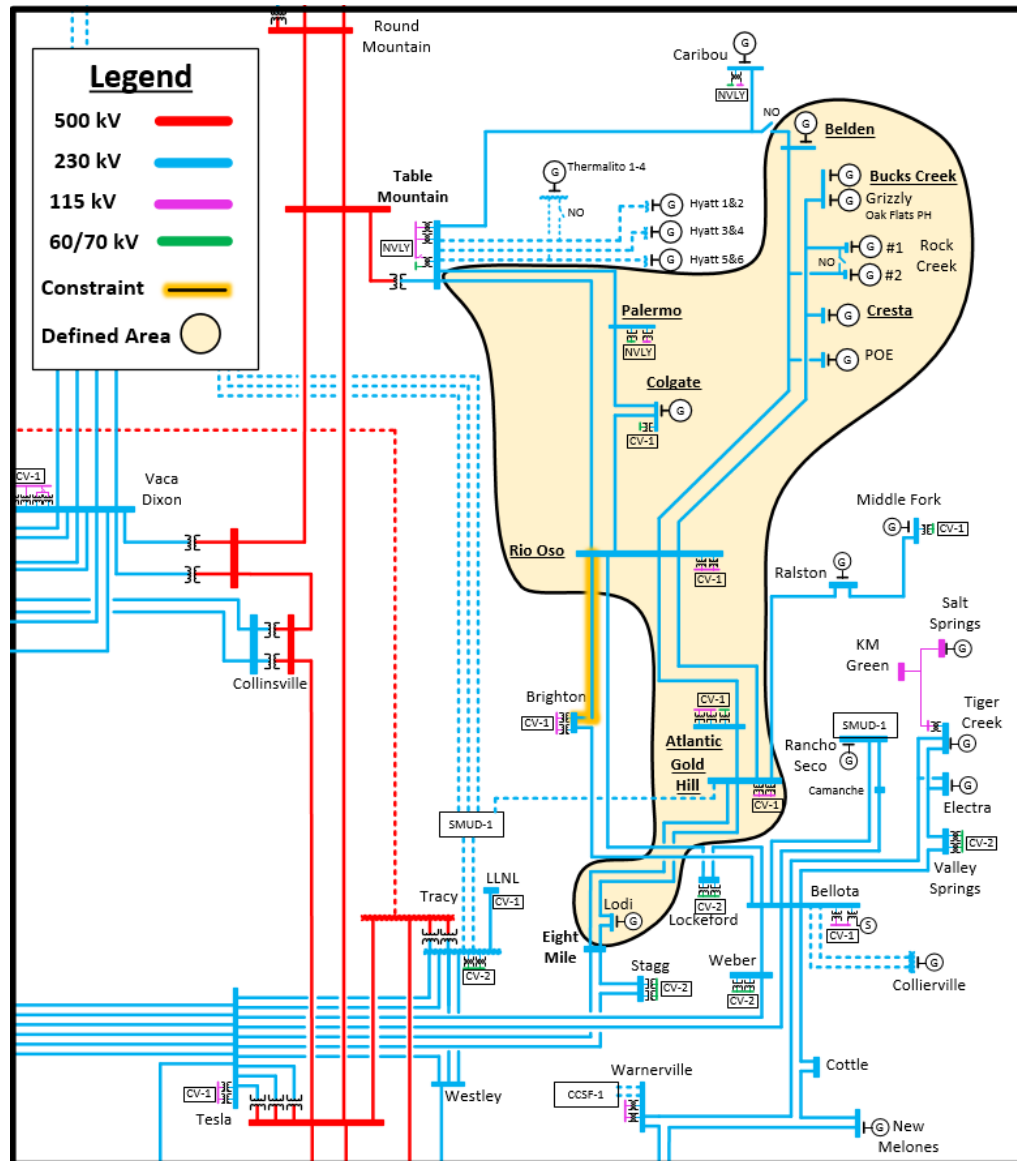
Rocklin-Pleasant Grove 115kV line



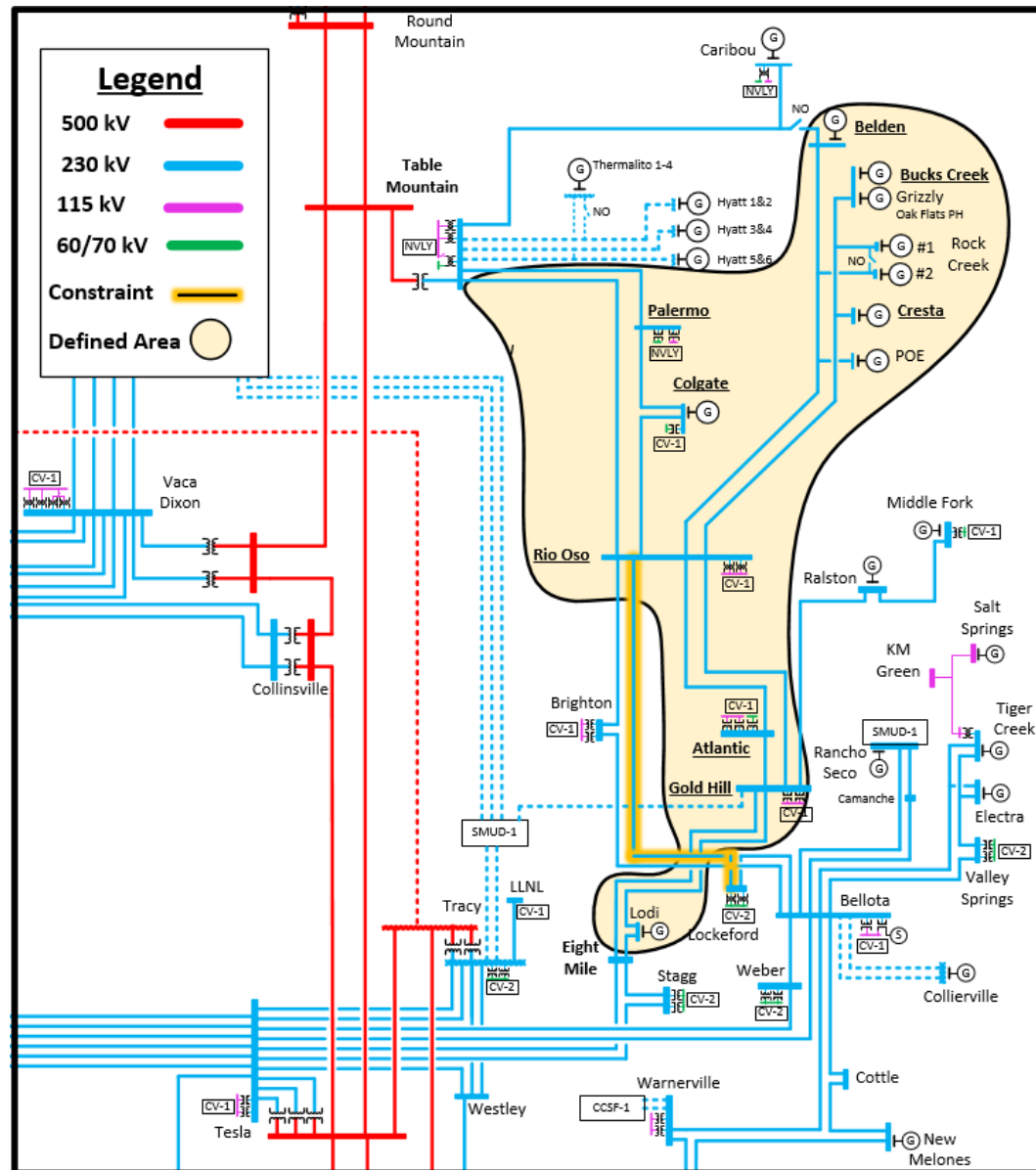
Bellota-Weber 230kV line



Rio Oso-Brighton 230kV line

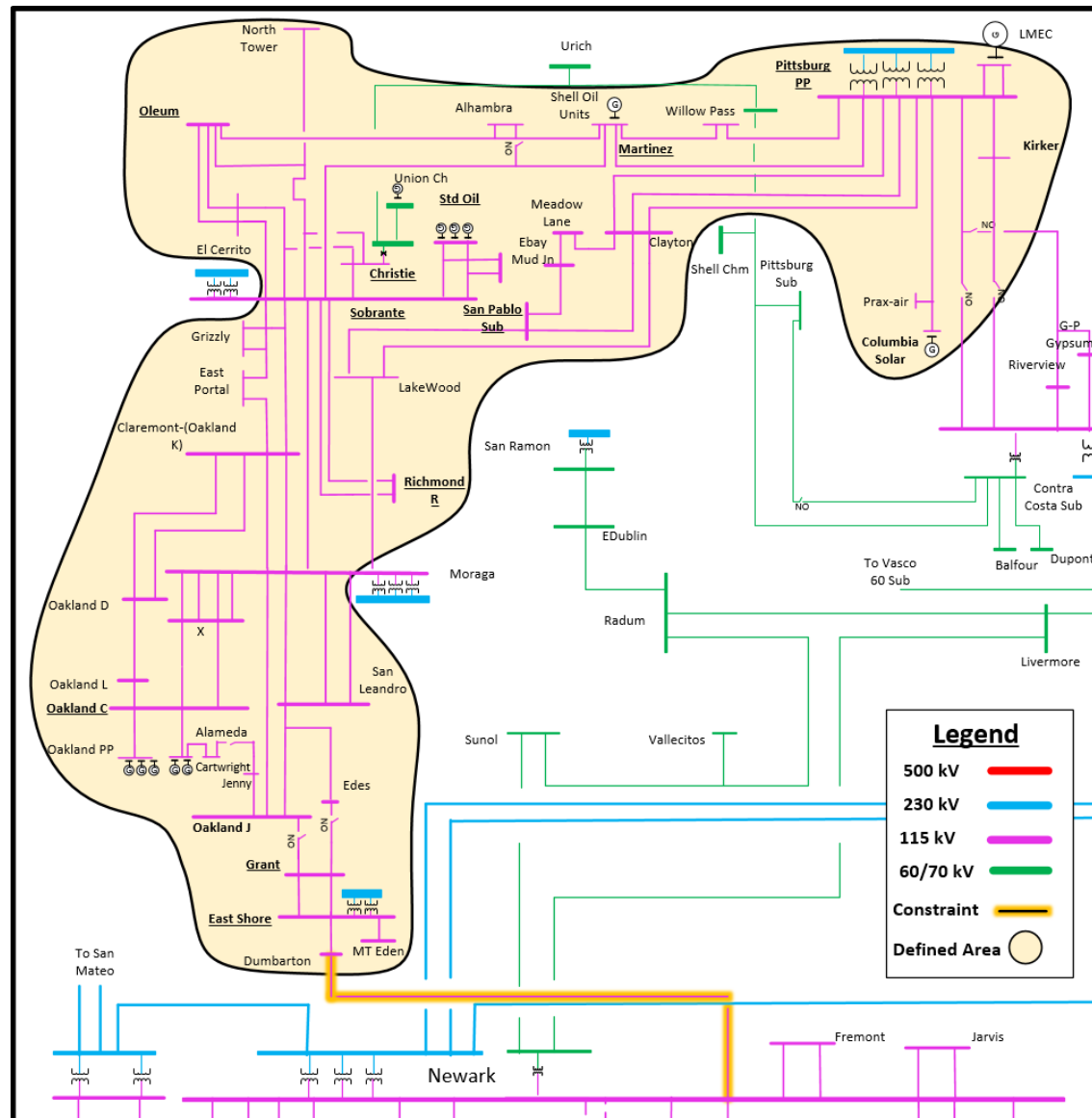


Rio Oso-Lockeford 230kV line

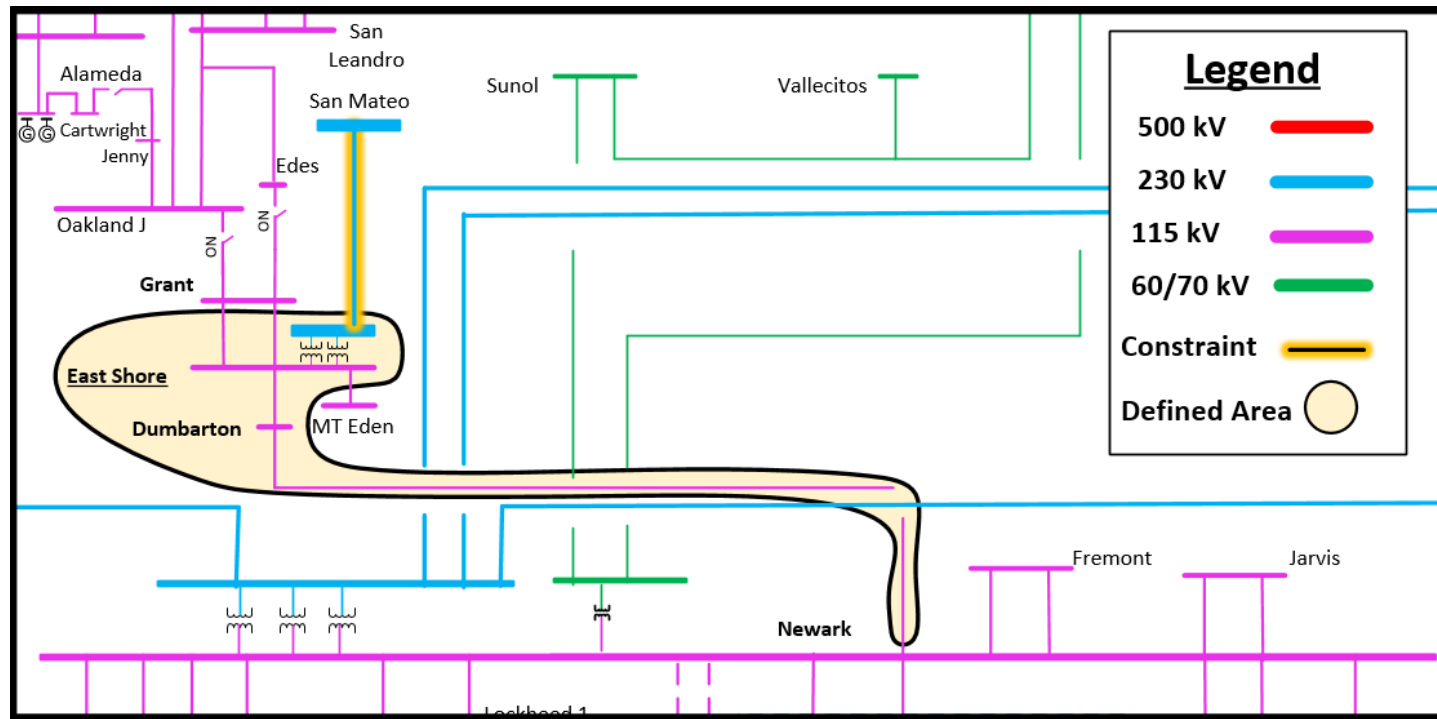


PG&E Greater Bay Interconnection Area Deliverability Constraints

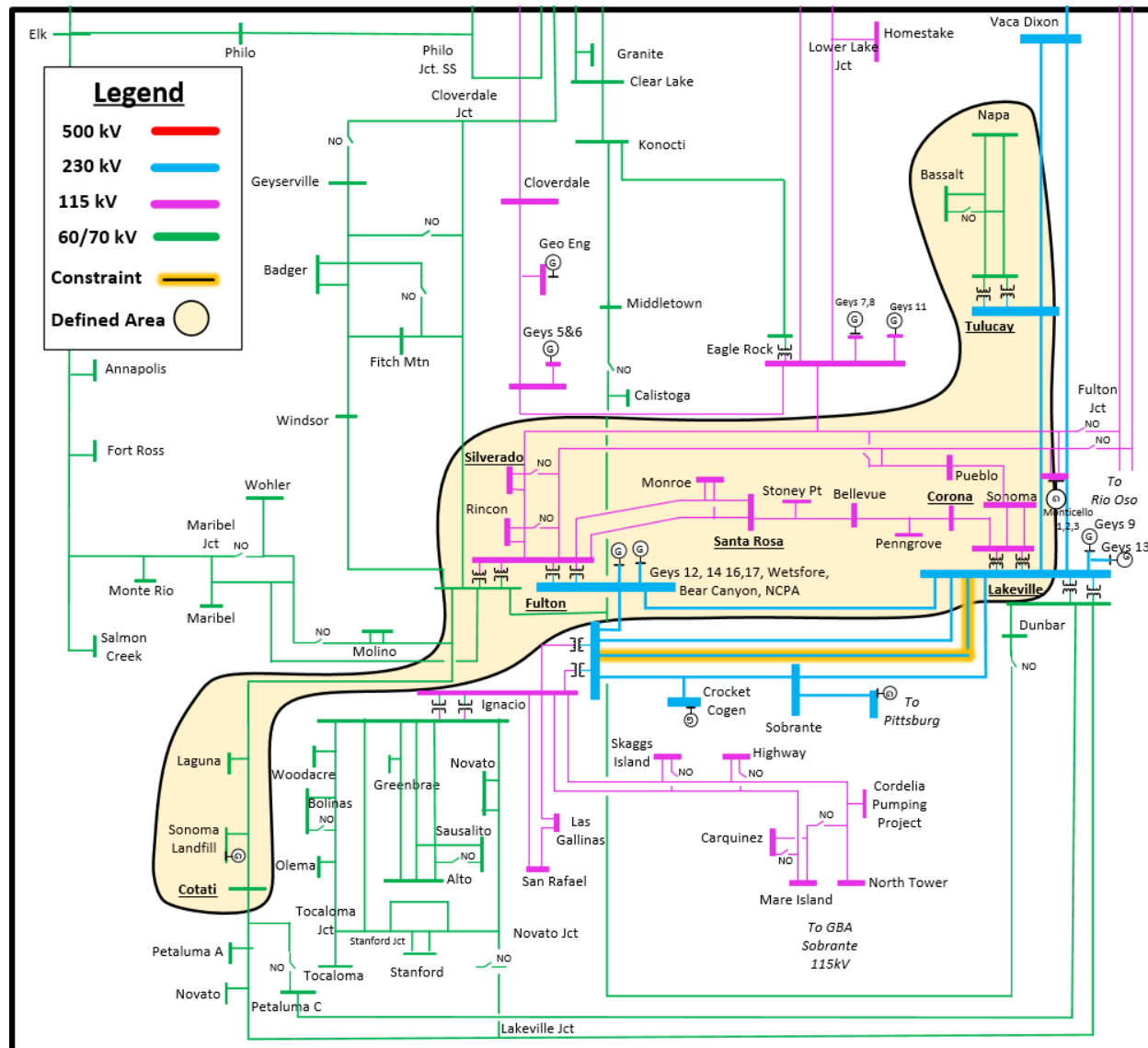
Dumbarton-Newark 115 kV line



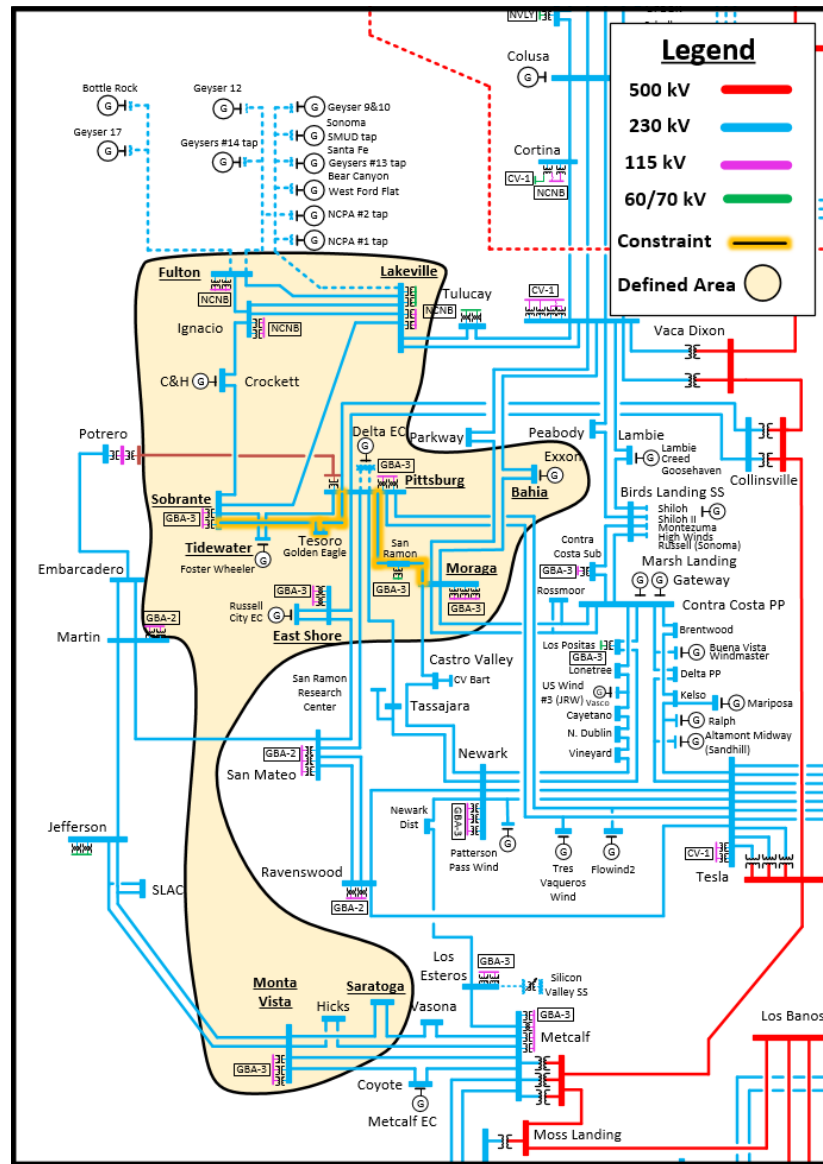
Eastshore-San Mateo 230 kV line



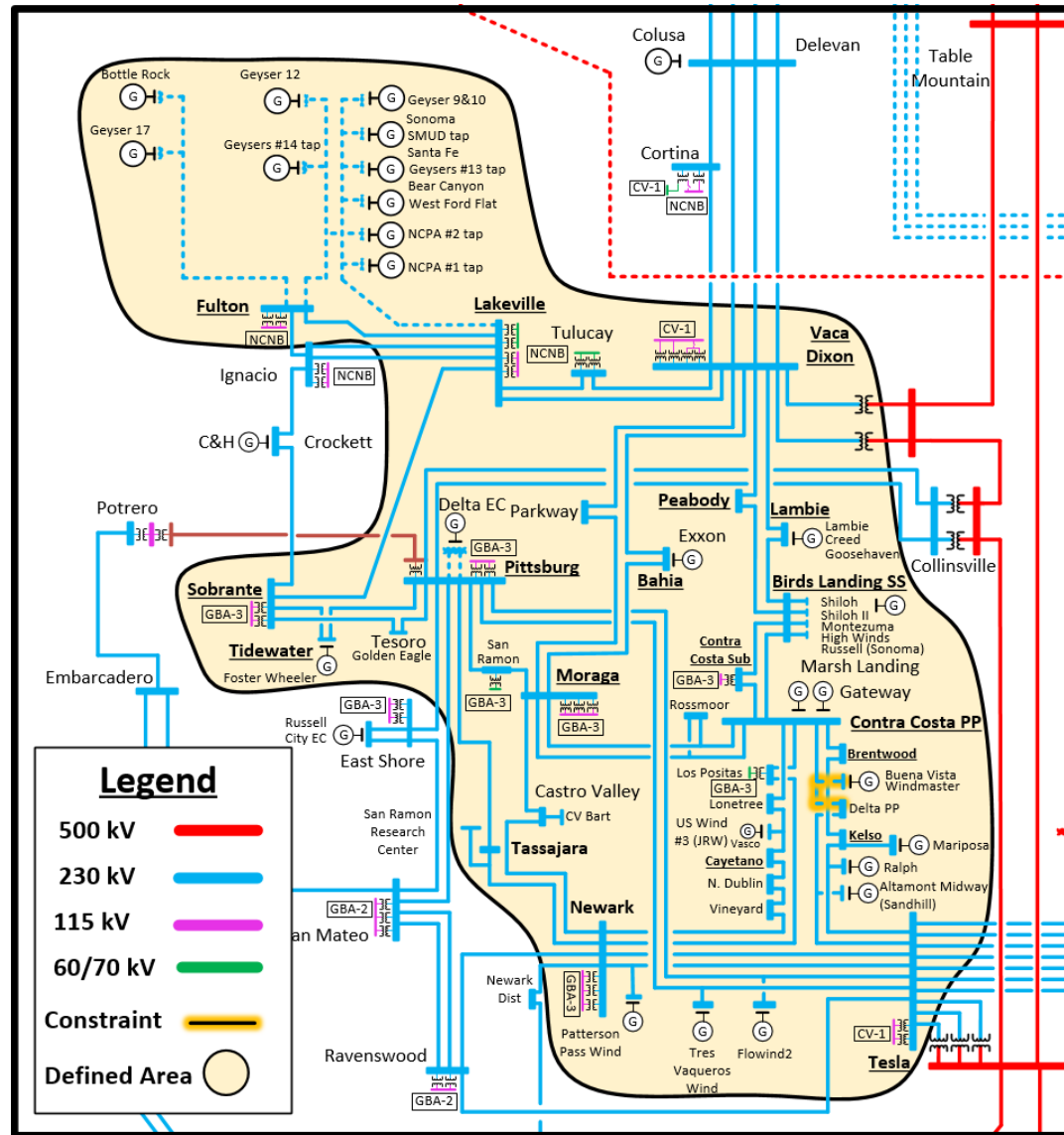
Lakeville-Ignacio 230 kV line



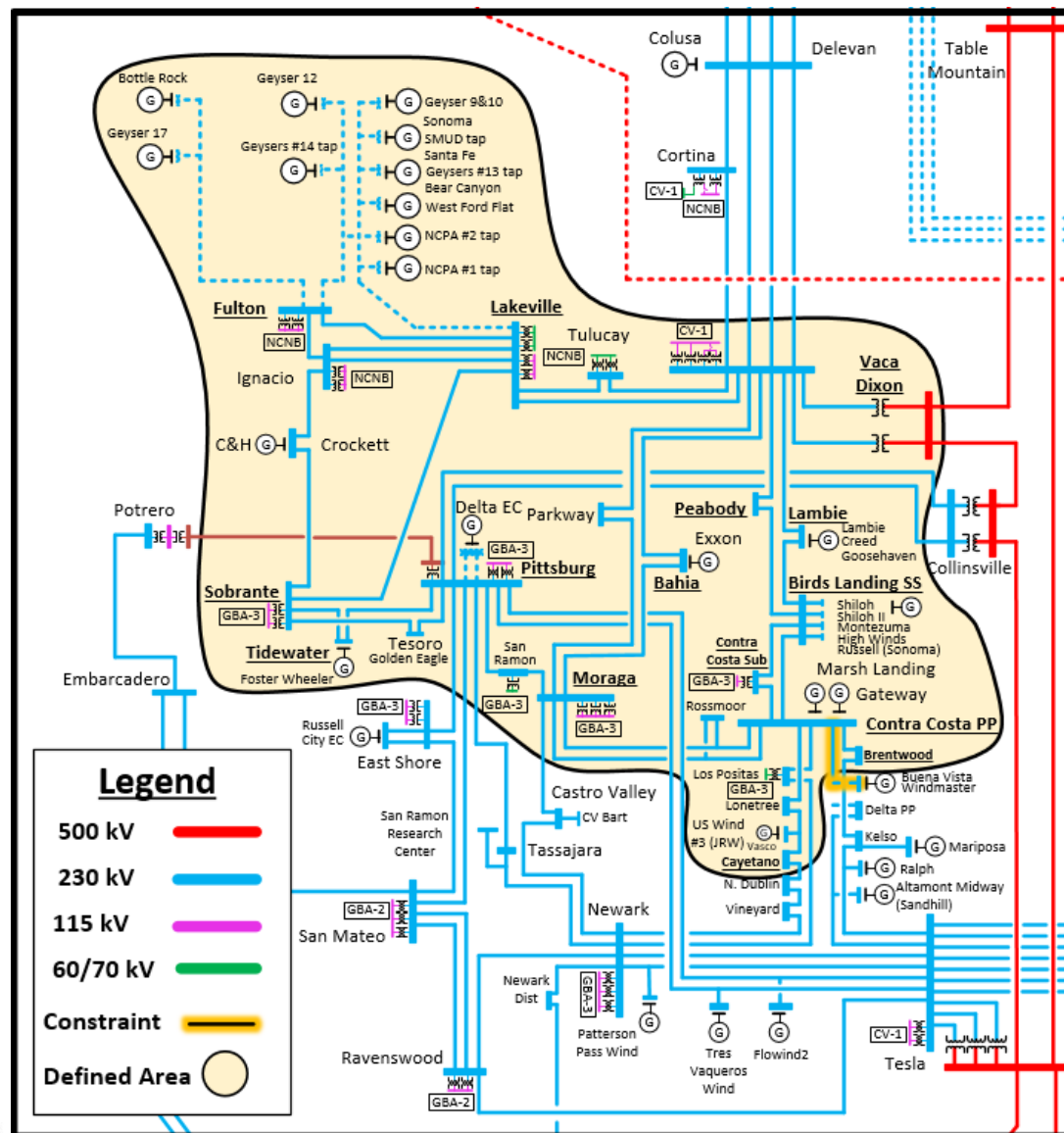
Sobrante-Moraga 230 kV line



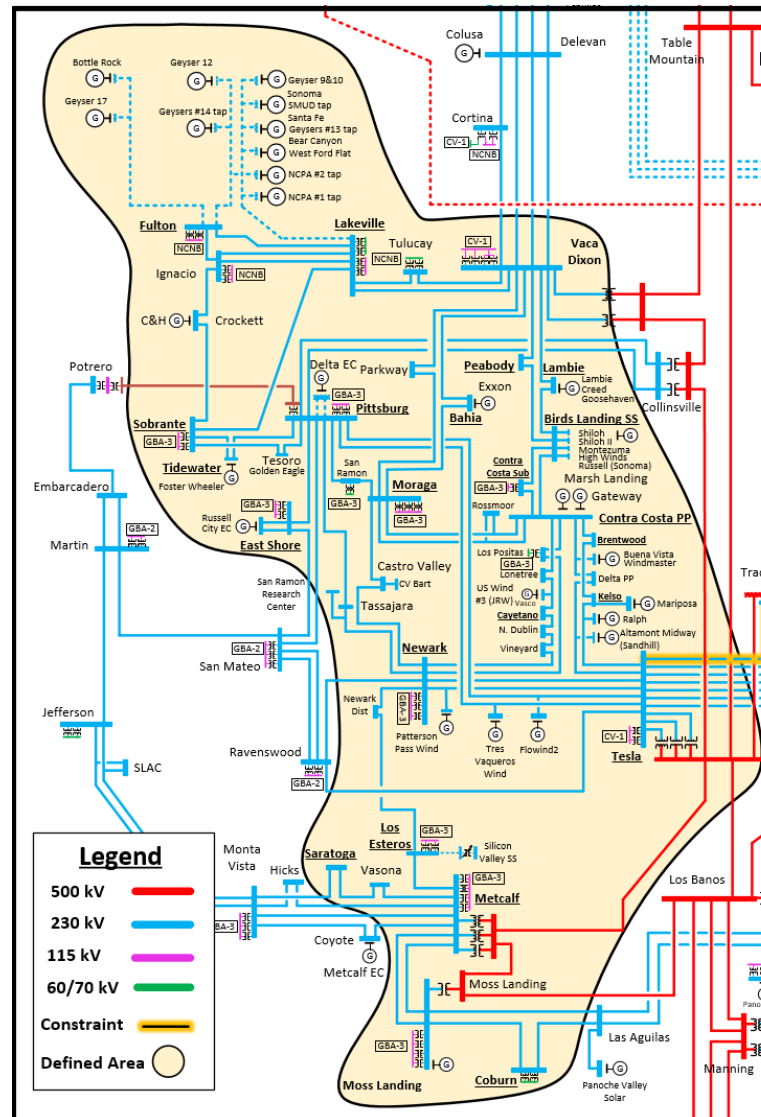
Windmaster-Delta pumps 230 kV line



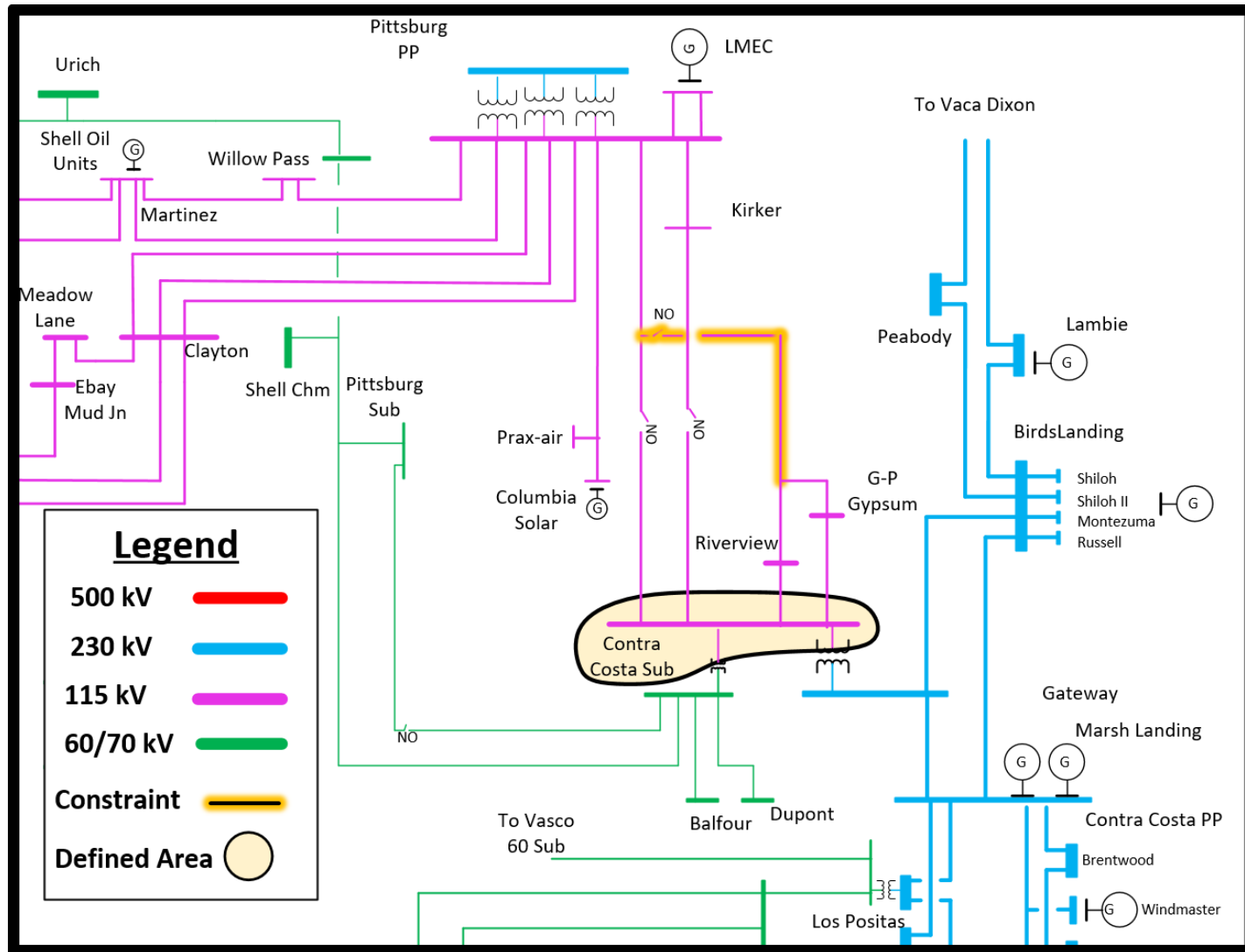
Contra Costa - Windmaster 230 kV line



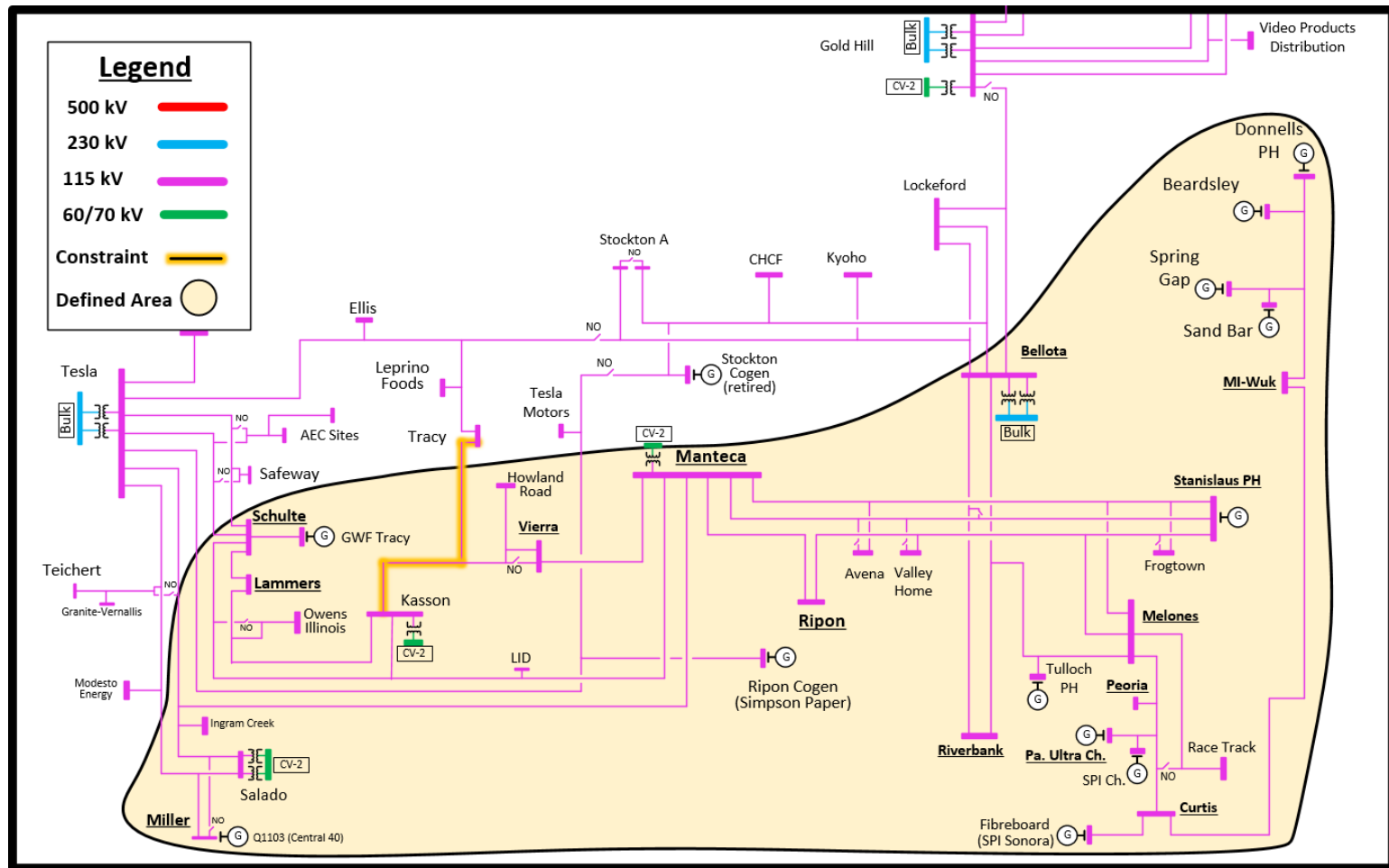
Tesla-Tracy-Pump 230 kV line #2



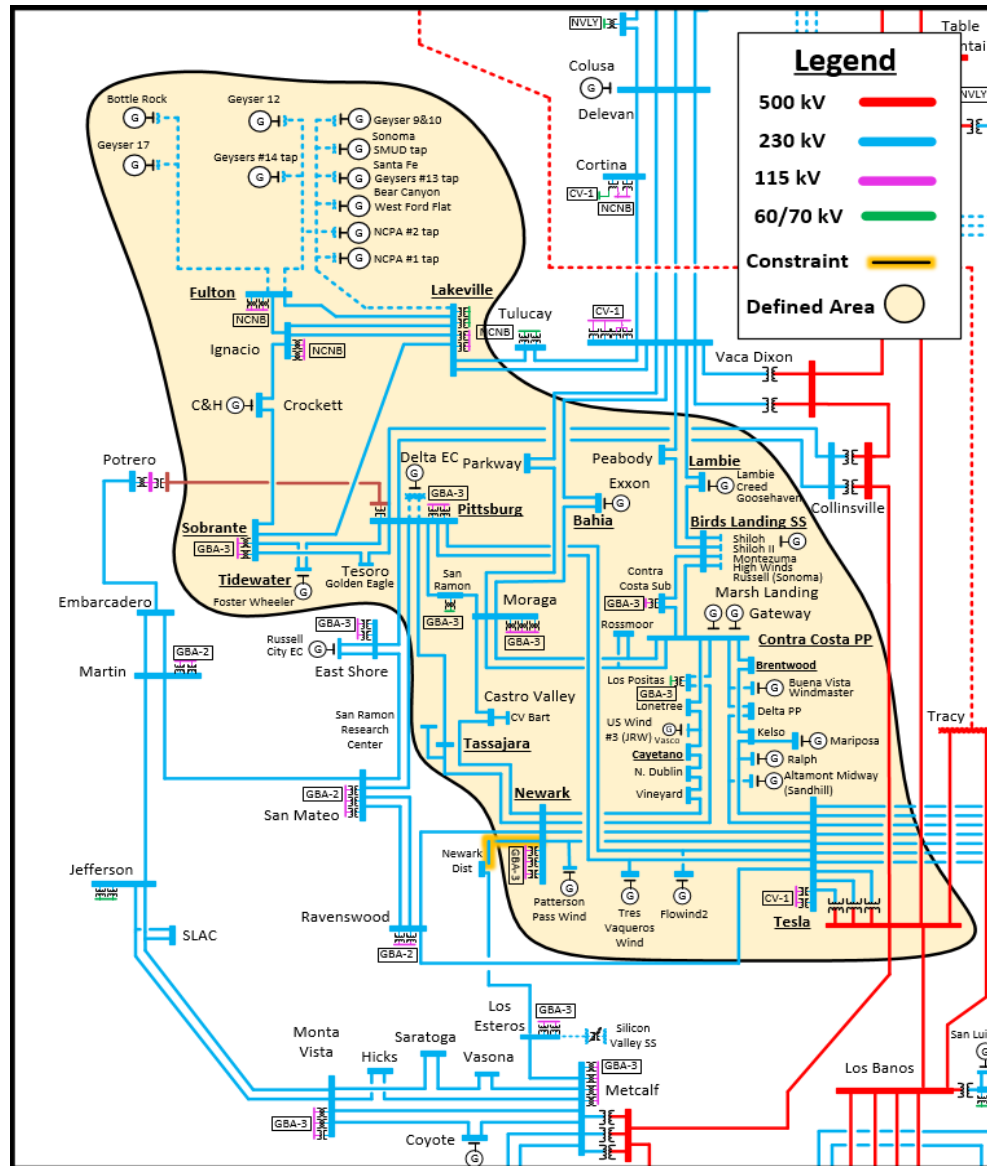
Contra Costa #1 115kV Line



Kasson Jct-Heinz 115 kV line



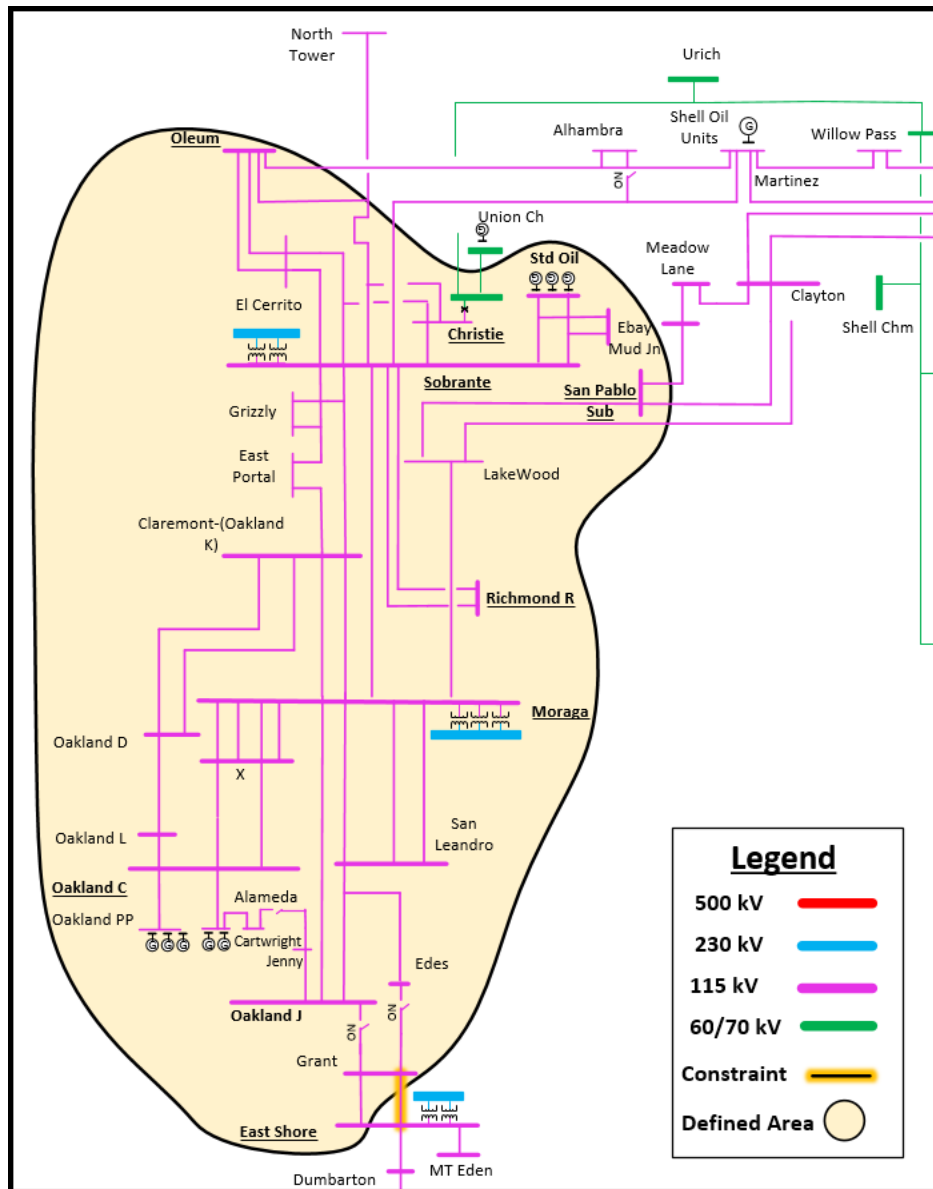
Newark-Newark Distribution 115 kV line



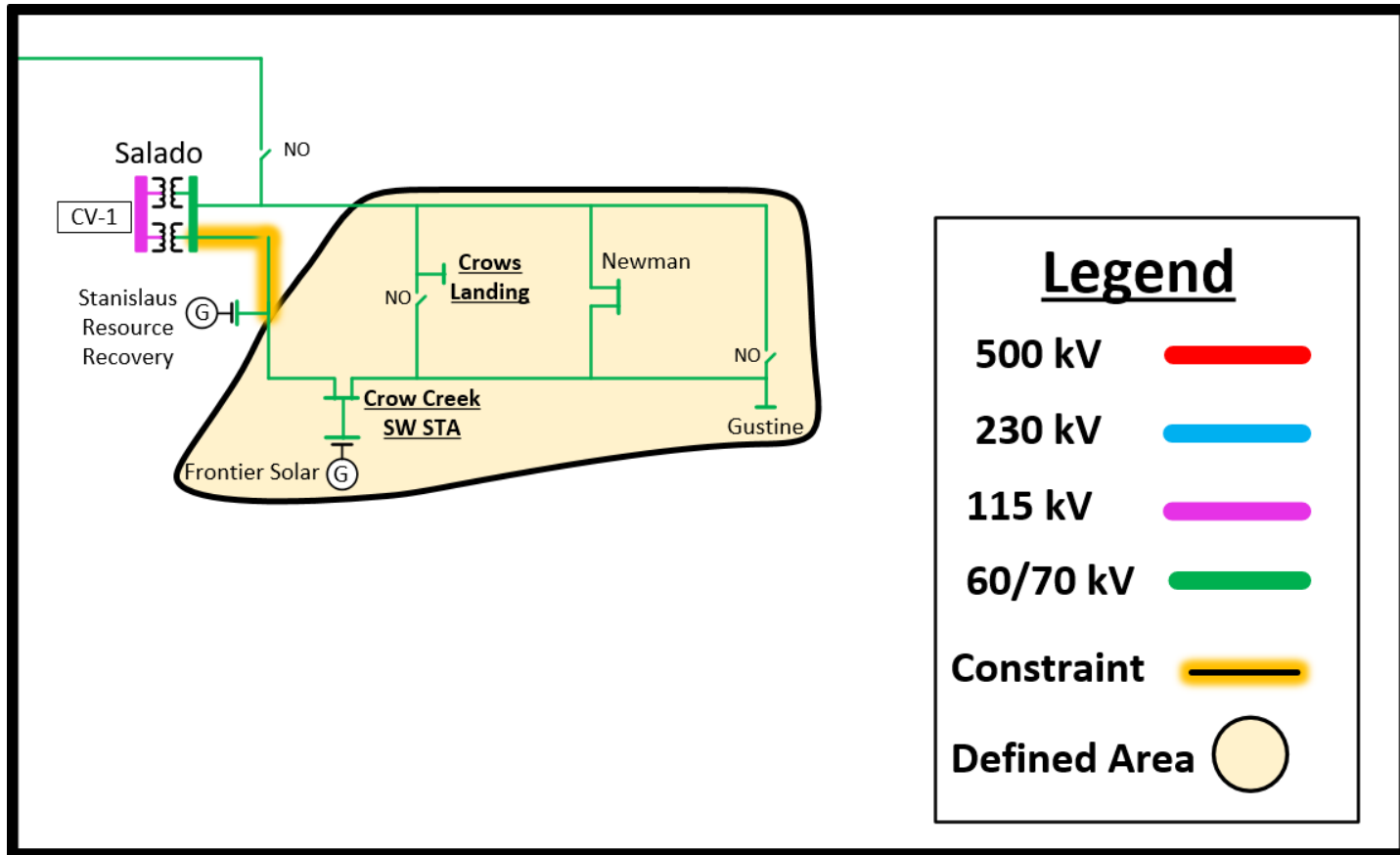




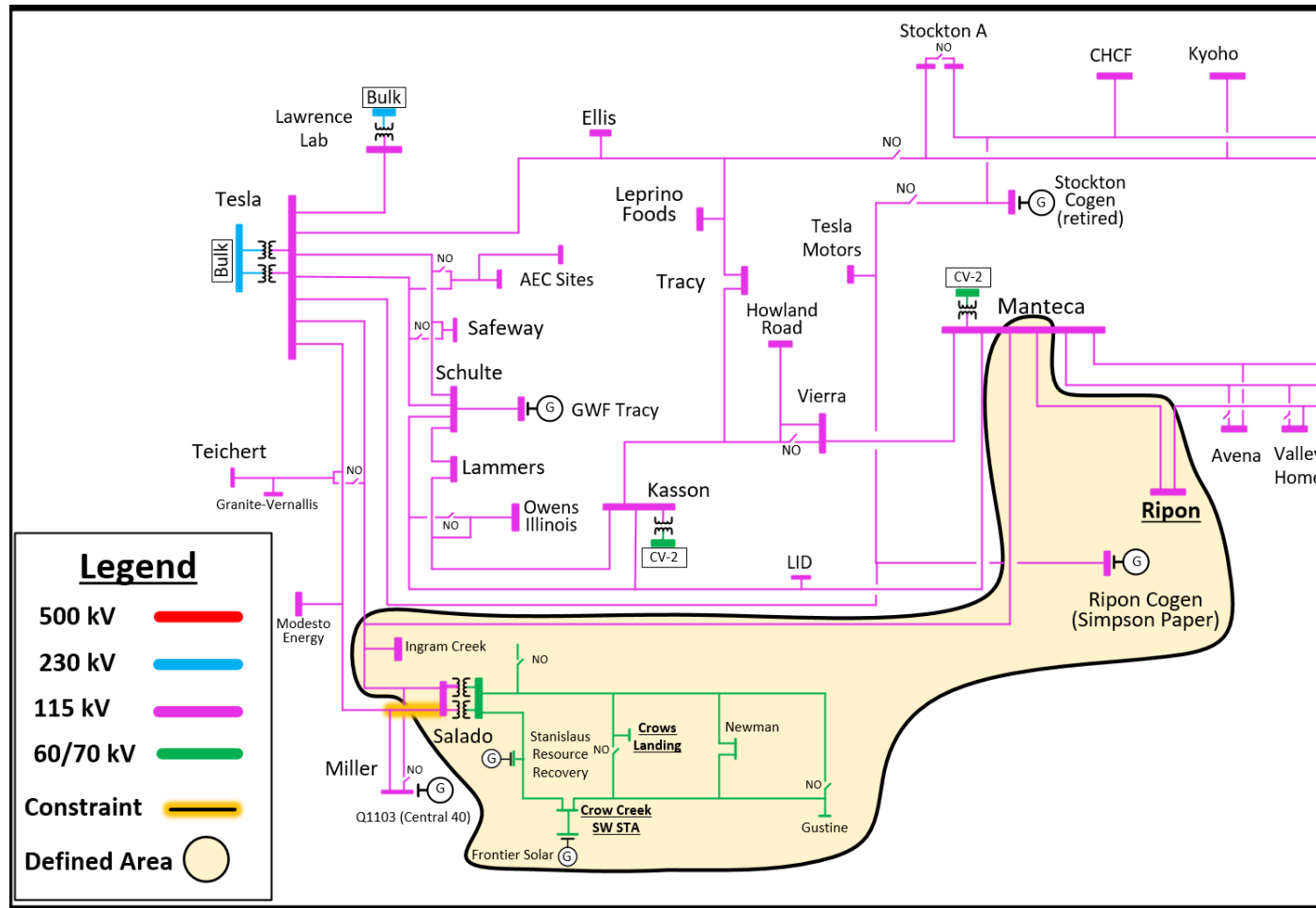
Grant - Eastshore #2 line 115 kV



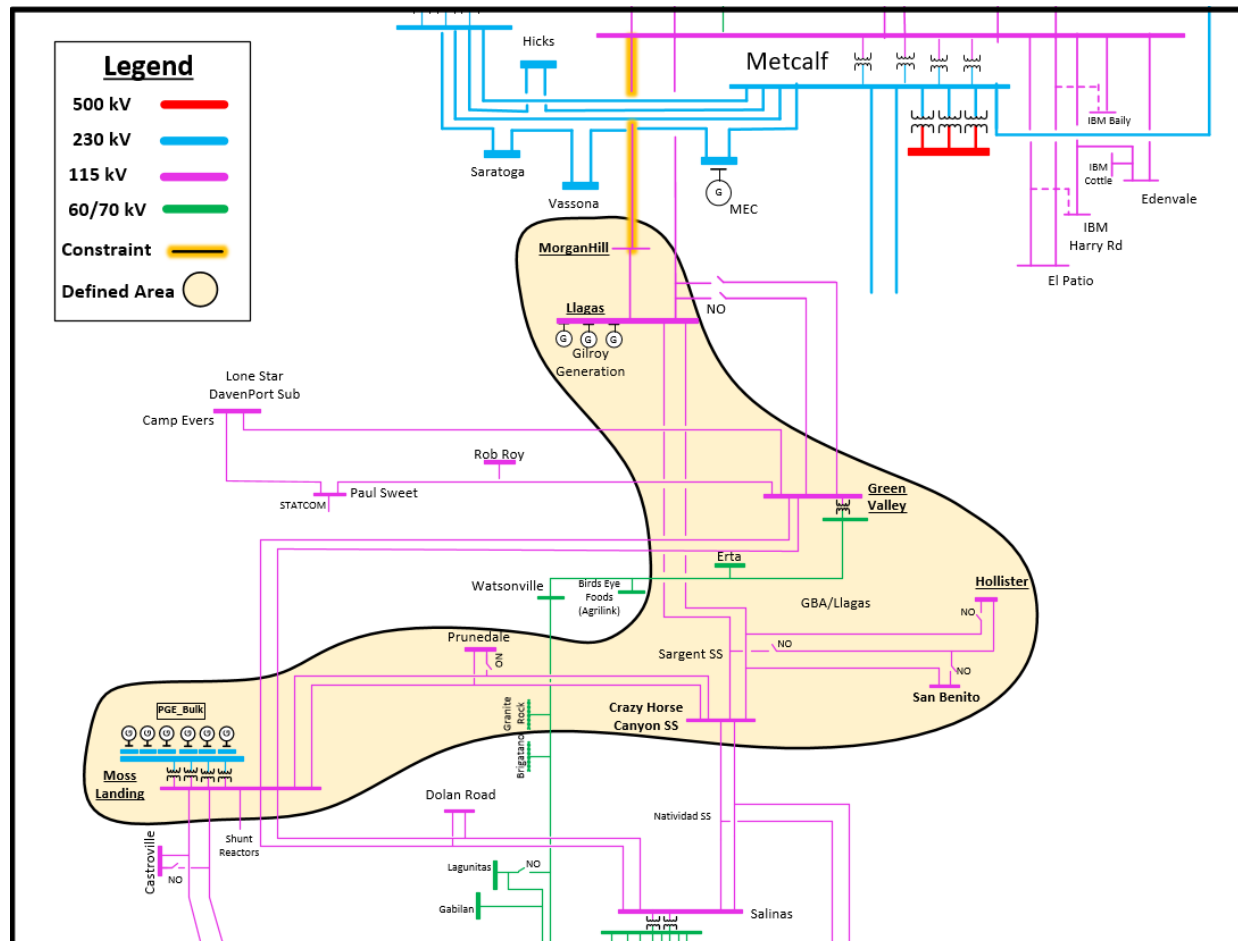
Salado-Crow Creek Sw Sta 60 kV line



Tesla-Salado 115 kV line

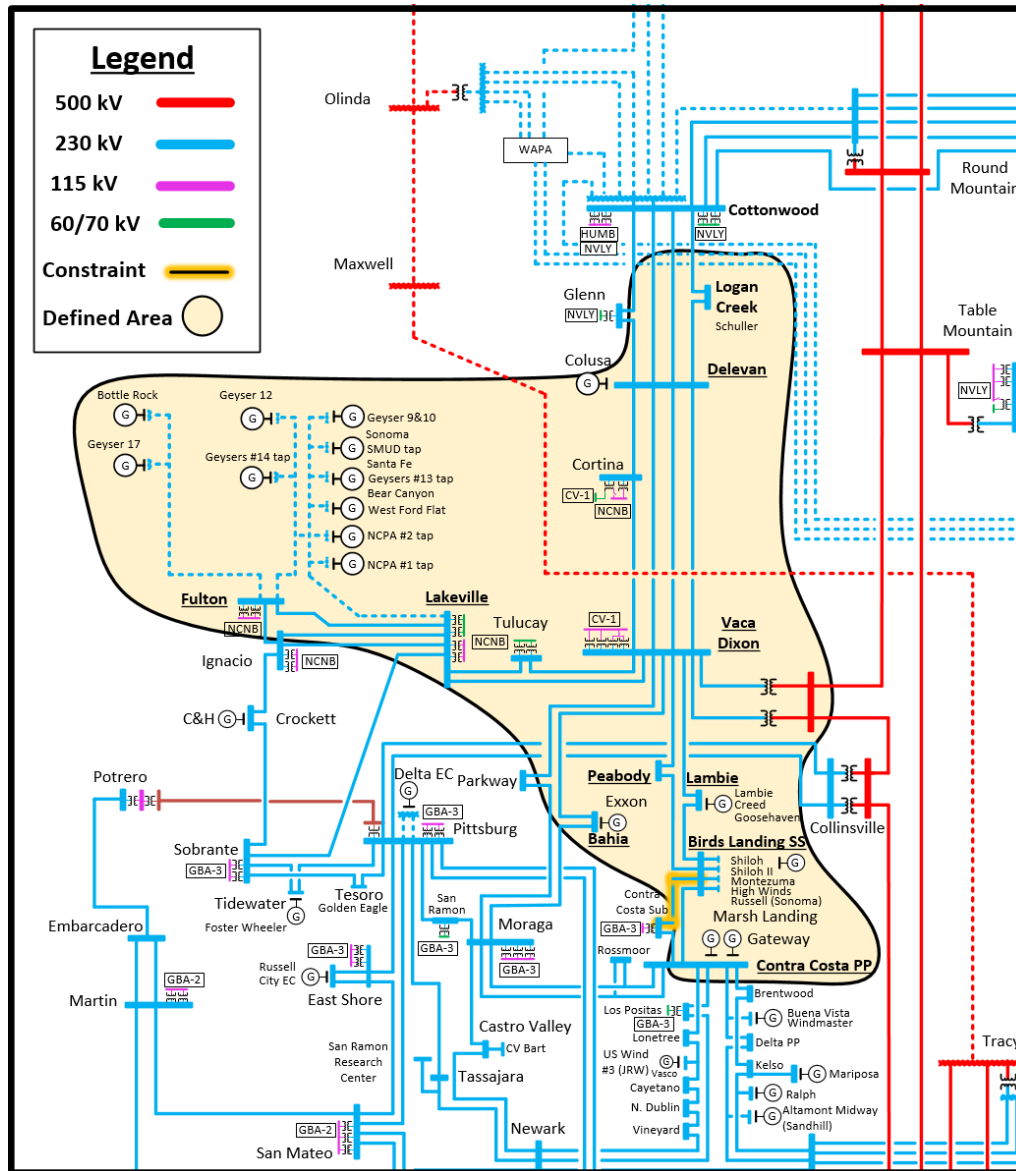


Morganhill-Metcalf 115kV Line



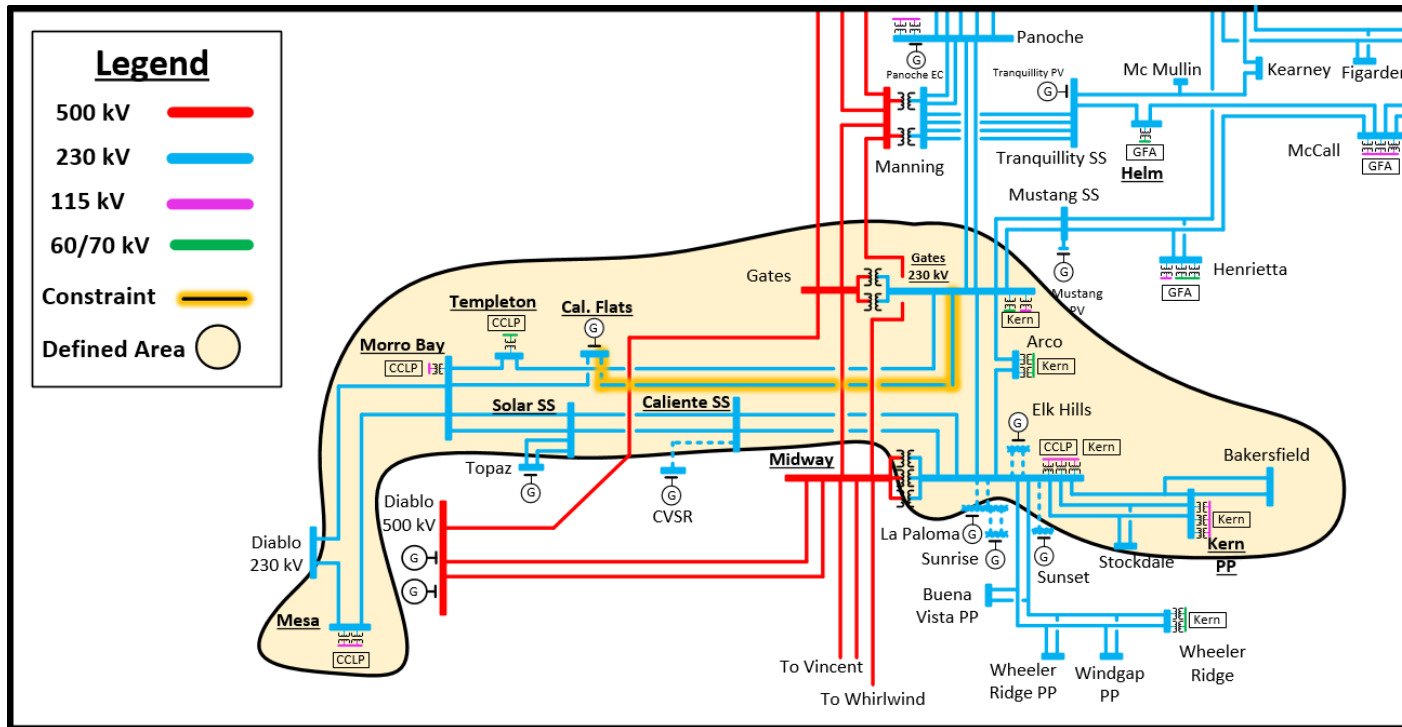


Birds Landing-Contra Costa 230kV Line

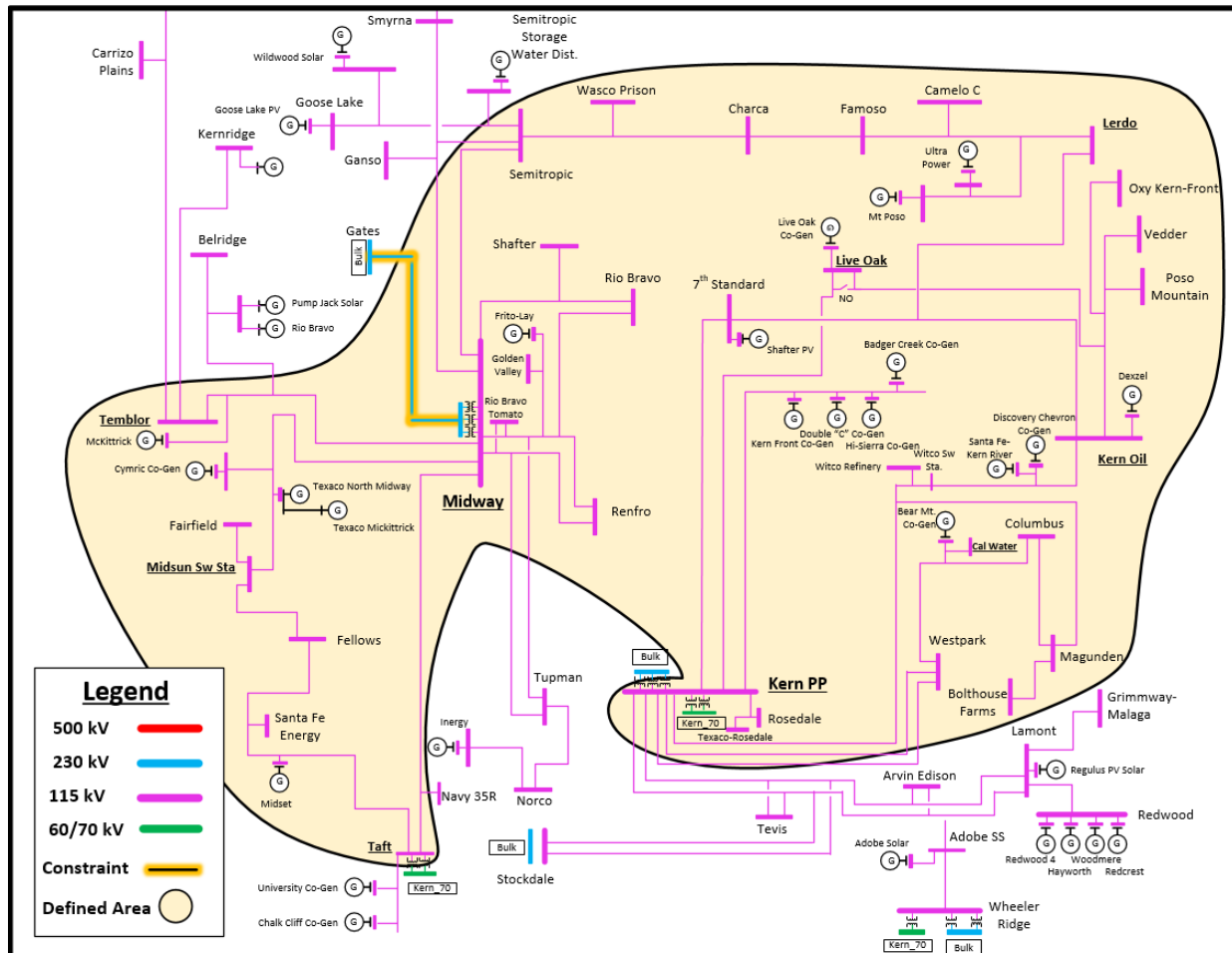


PG&E Kern Interconnection Area Deliverability Constraints

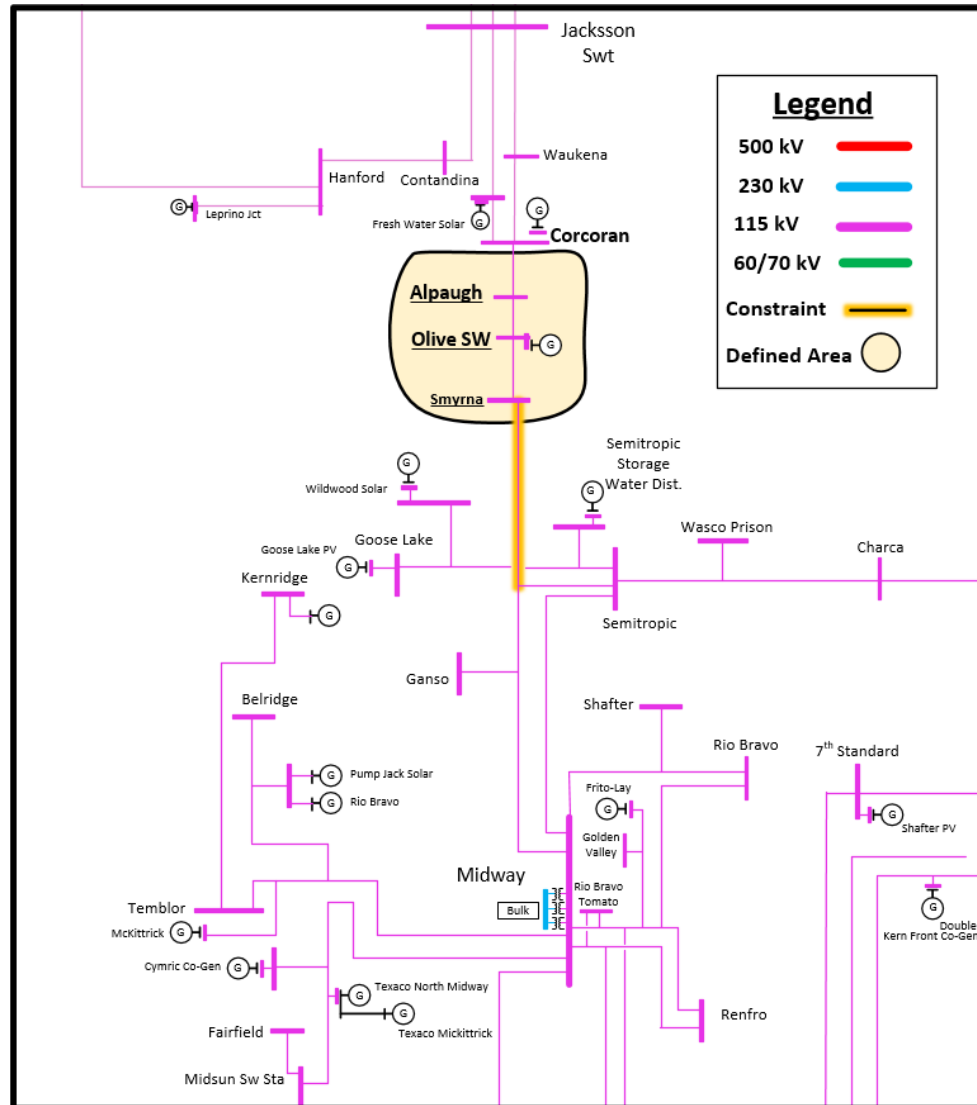
Cal Flat-Gates 230 kV line



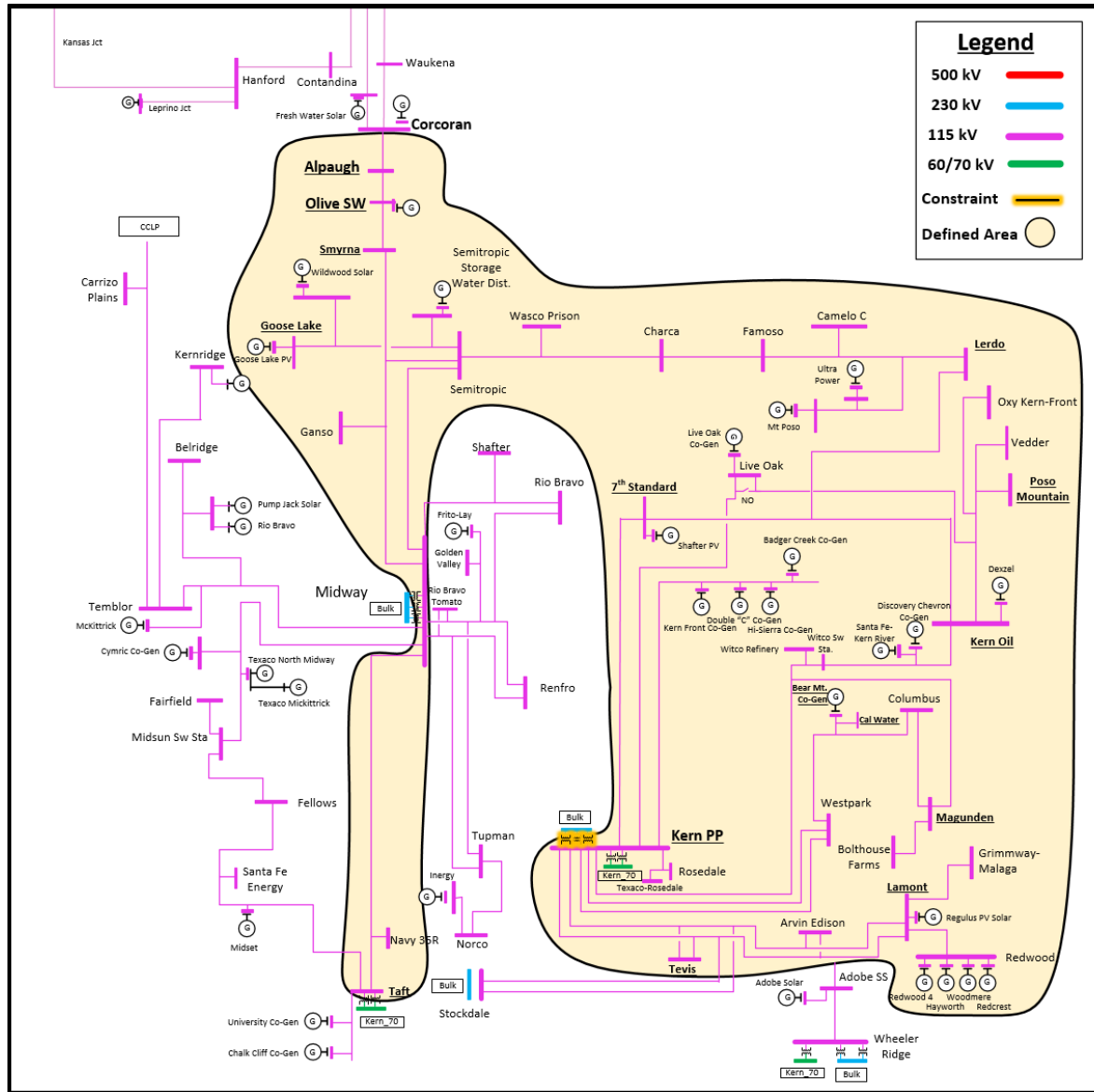
Q1959 SS-Gates 230 kV Line



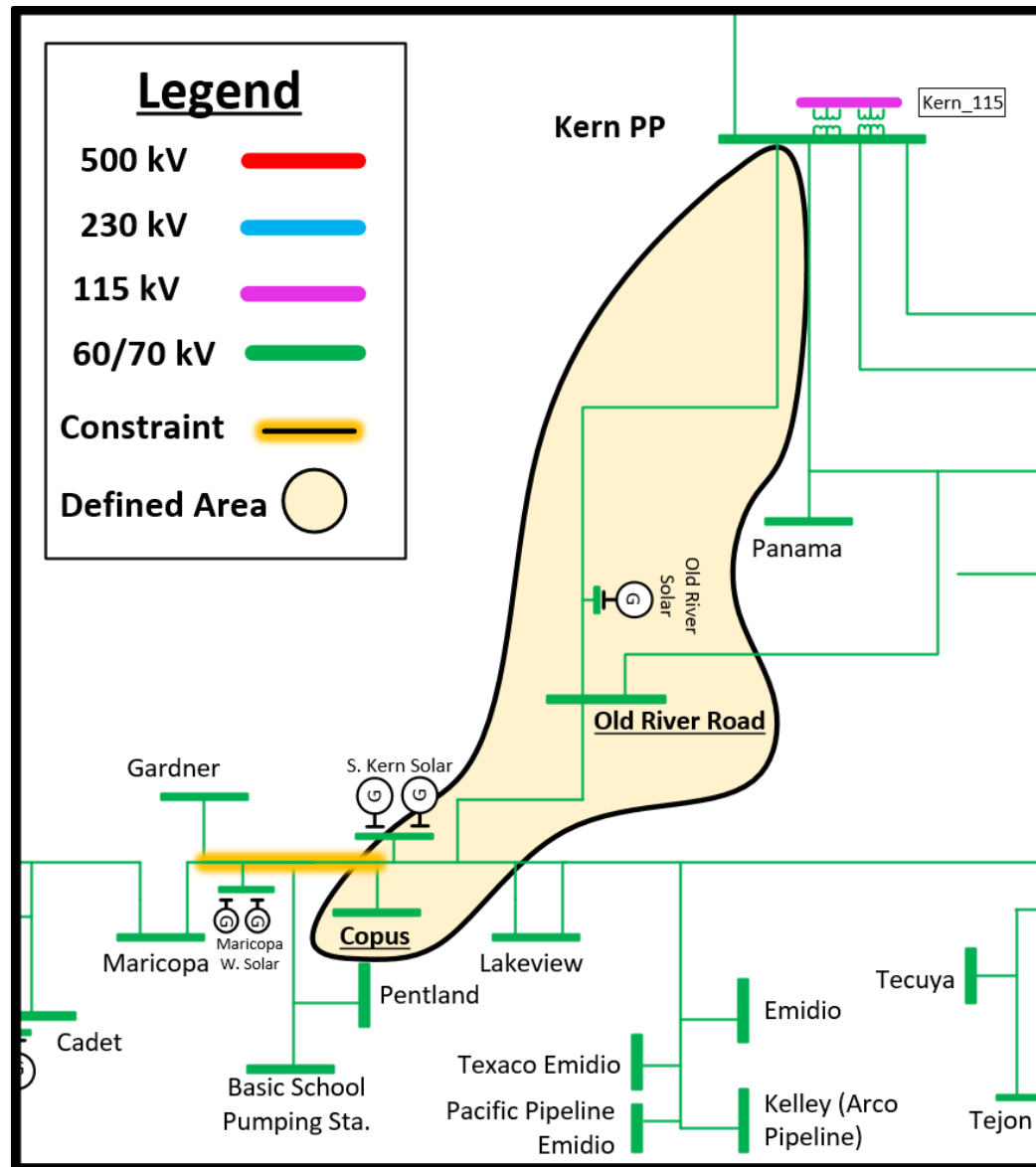
Smyrna-Atwell Jct 115kV Line



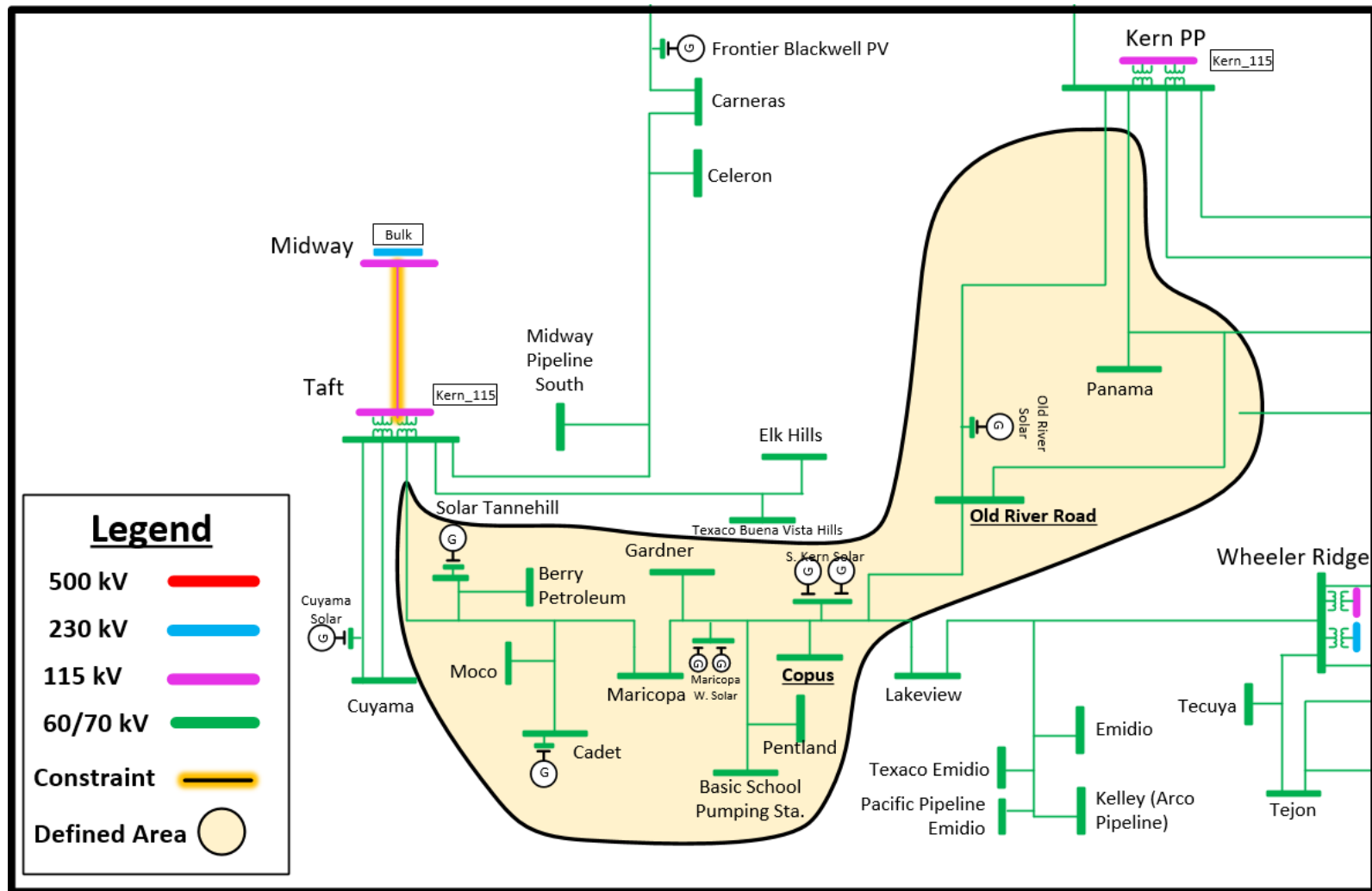
Kern 230/115kV TB #4



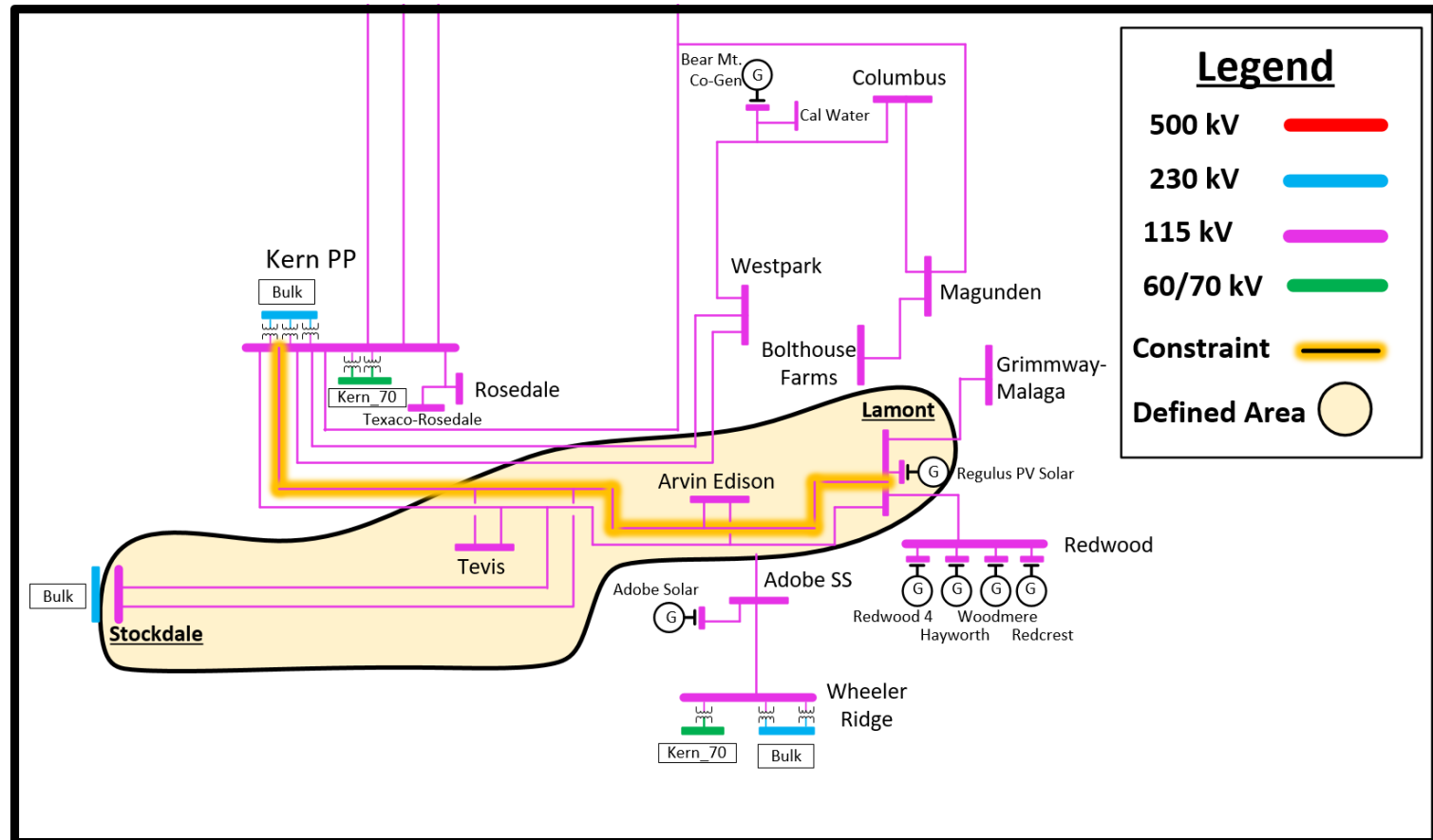
Maricopa-Copus 70 kV line



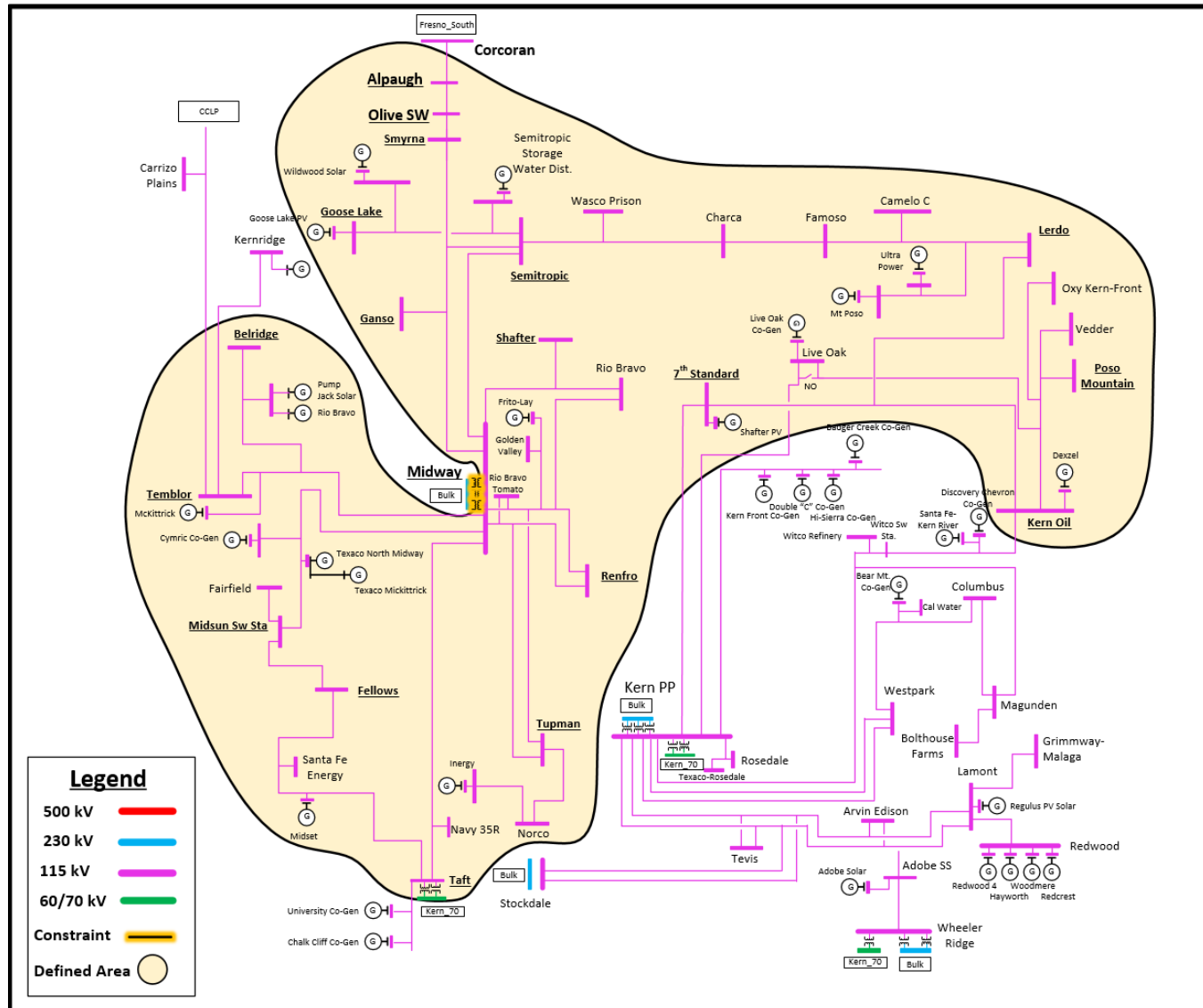
Midway-Taft 115 kV line



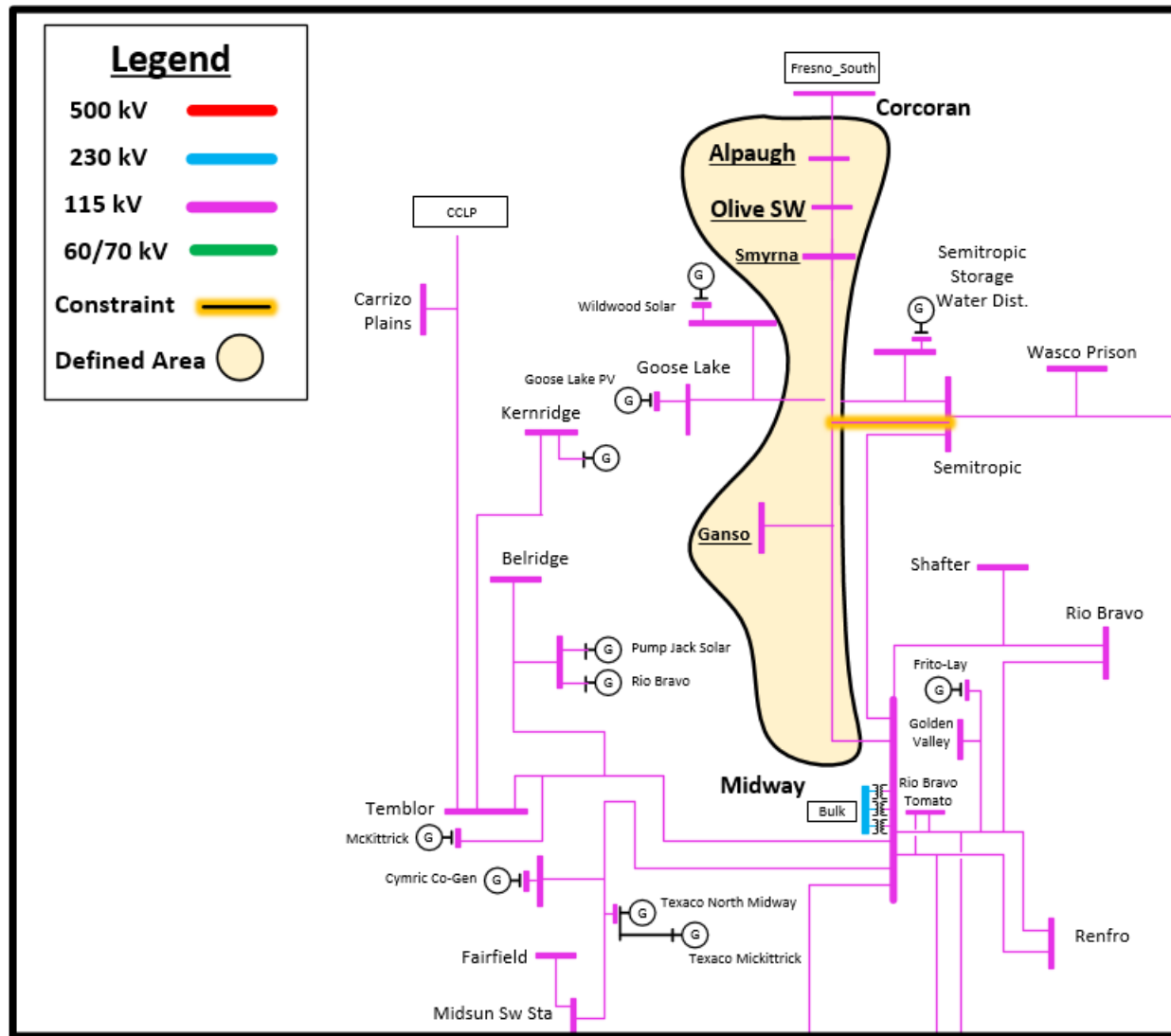
Kern-Tevis-Stockdale-Lamont 115kV line



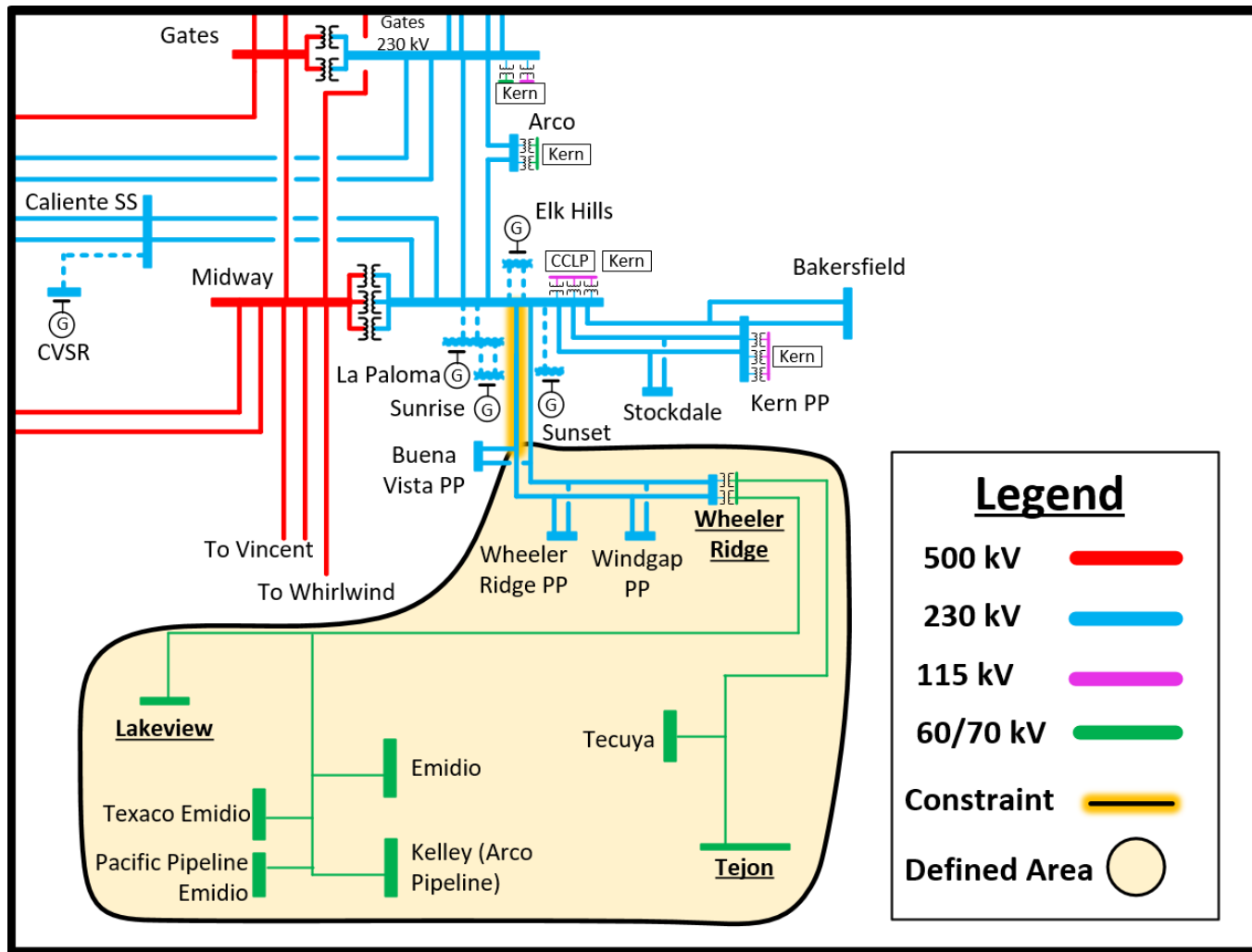
Midway 230/115kV TB #3



Semitropic-Midway 115kV Line



Midway-Buena Vista Jct 230kV Line

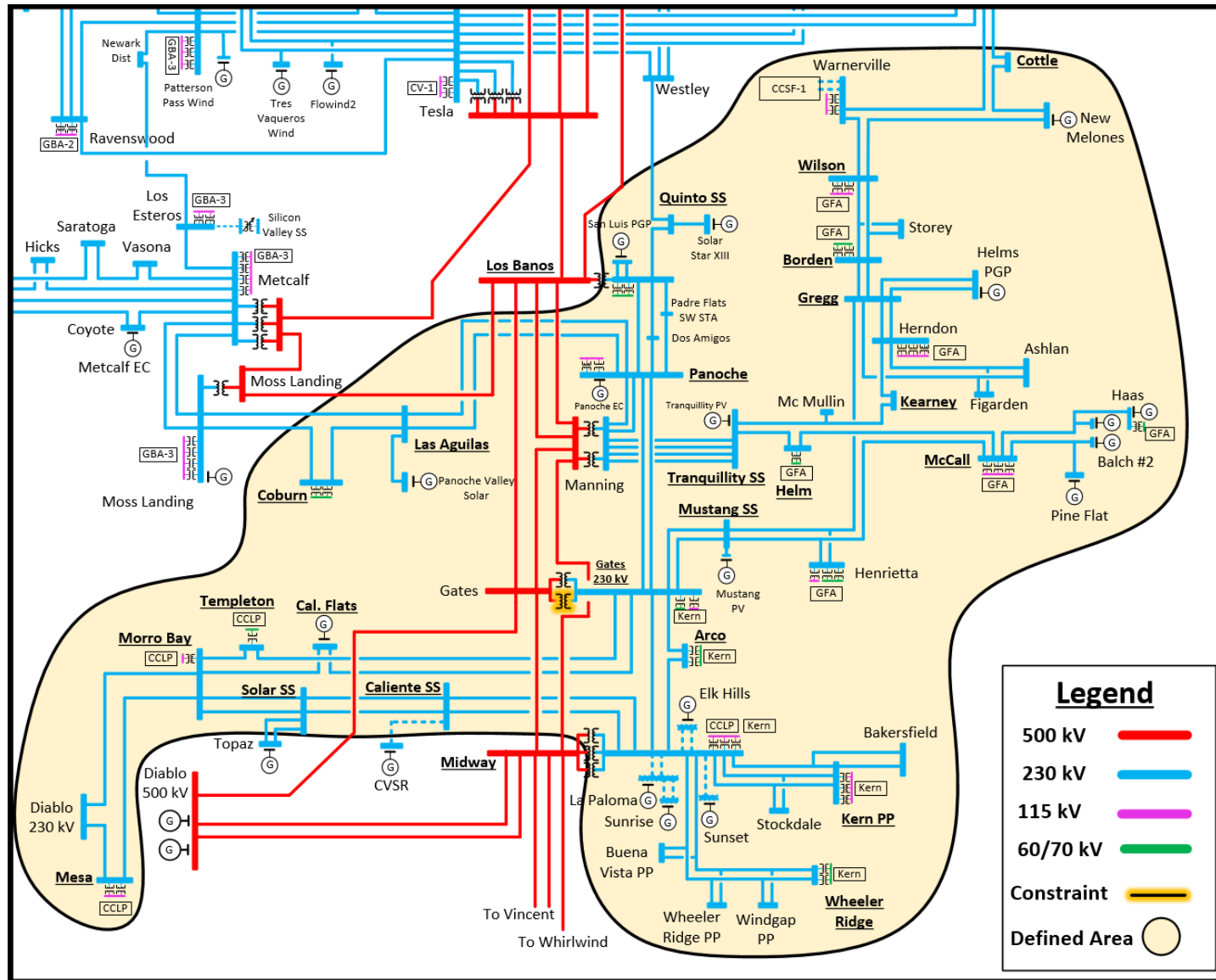


PG&E Fresno Interconnection Area Deliverability Constraints

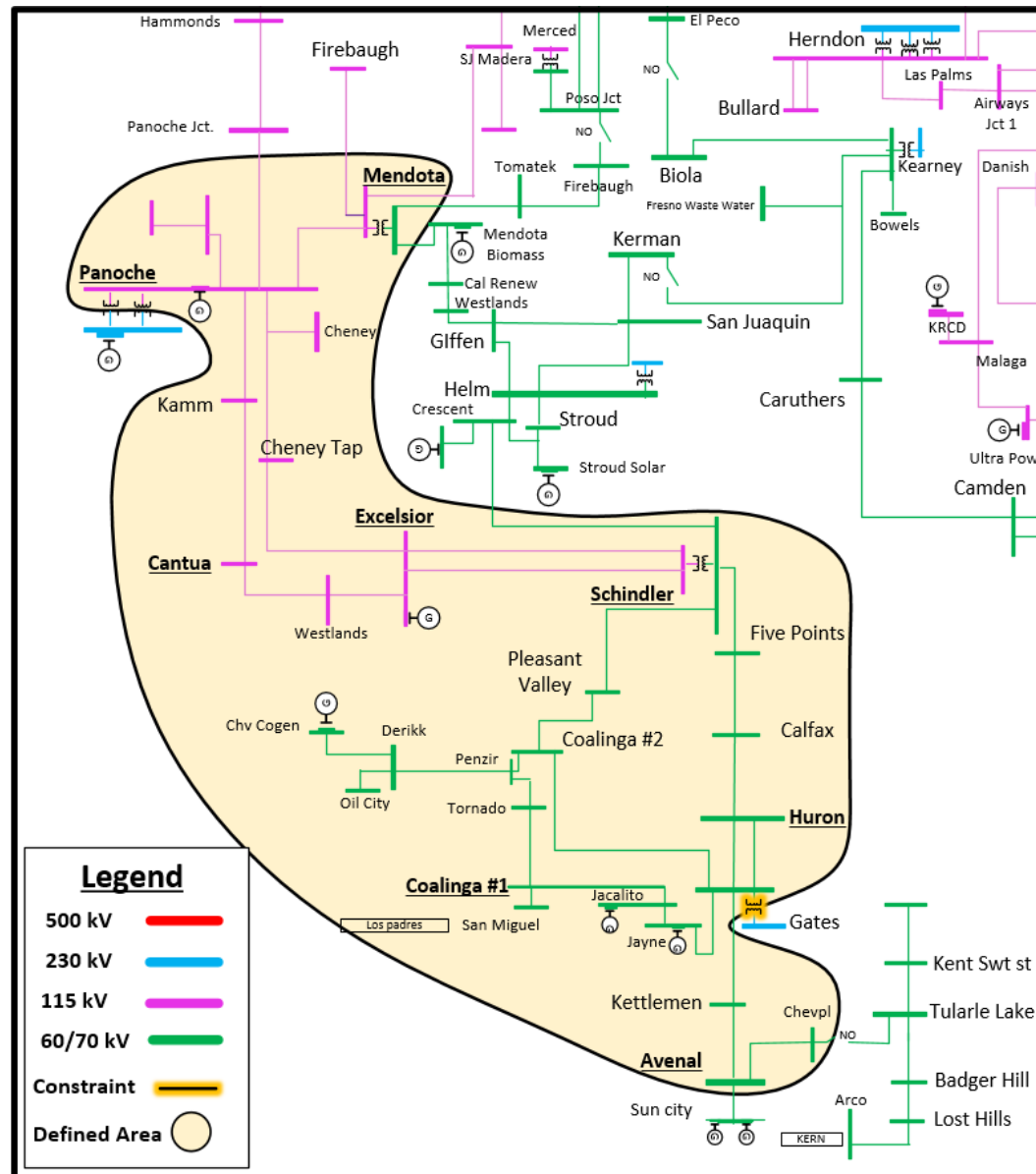
California ISO



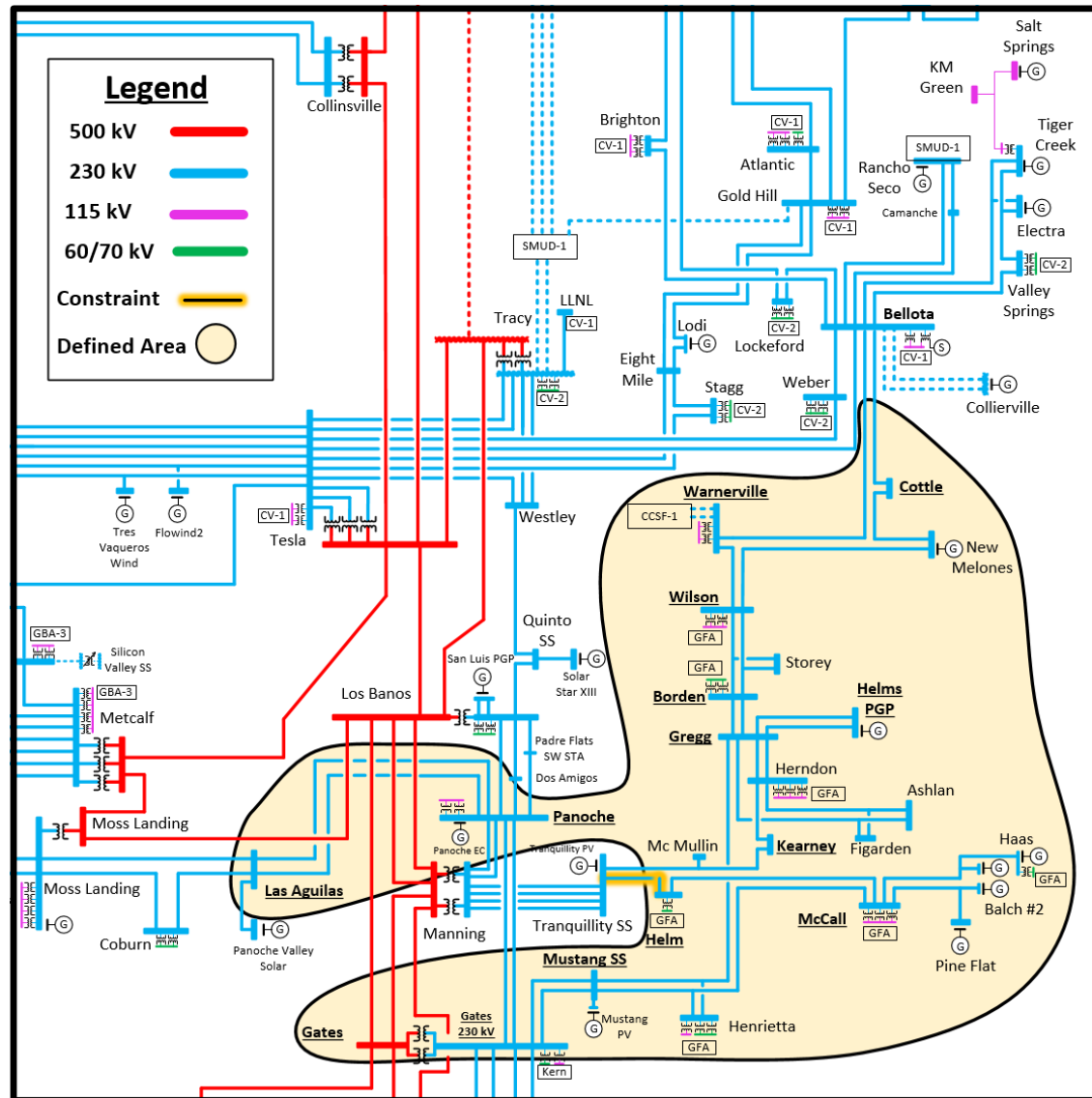
Gates 500/230kV TB #11



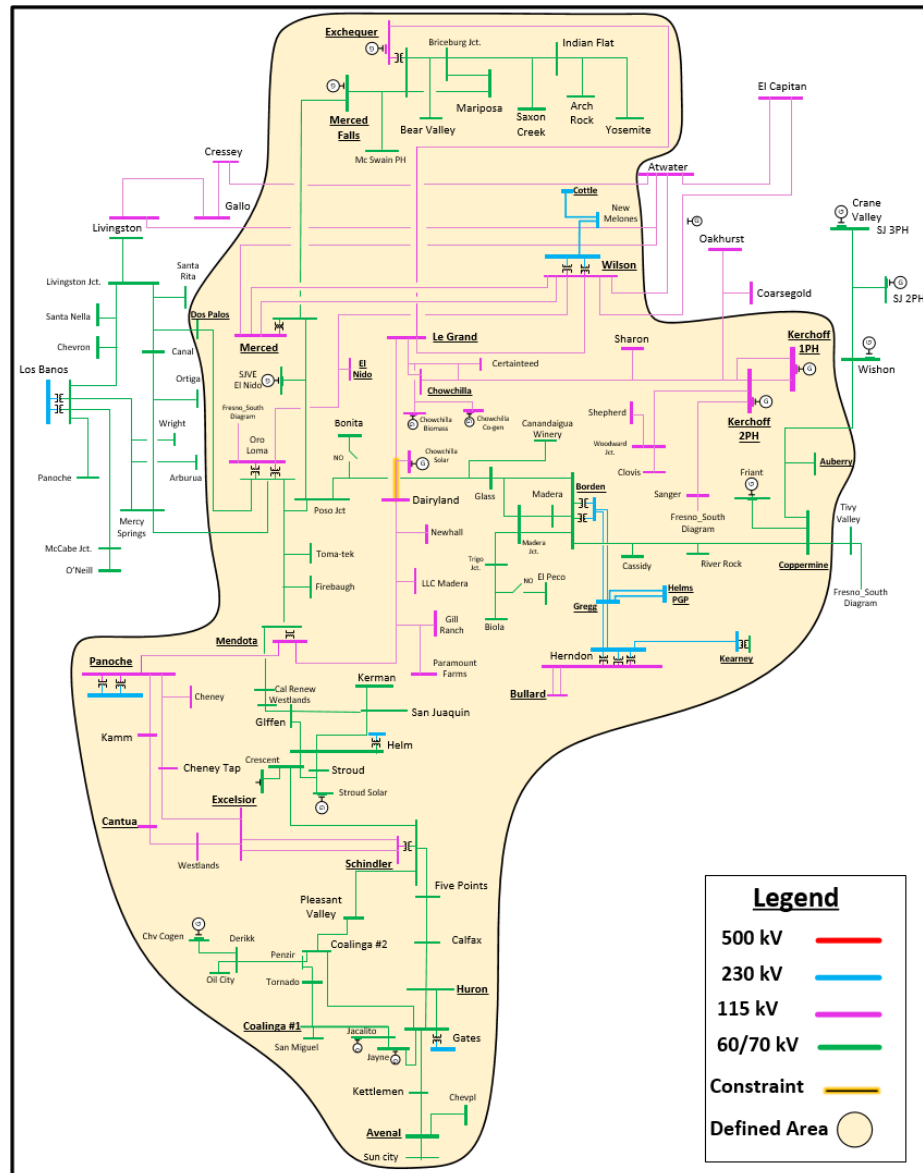
Gates 230/70kV TB #5



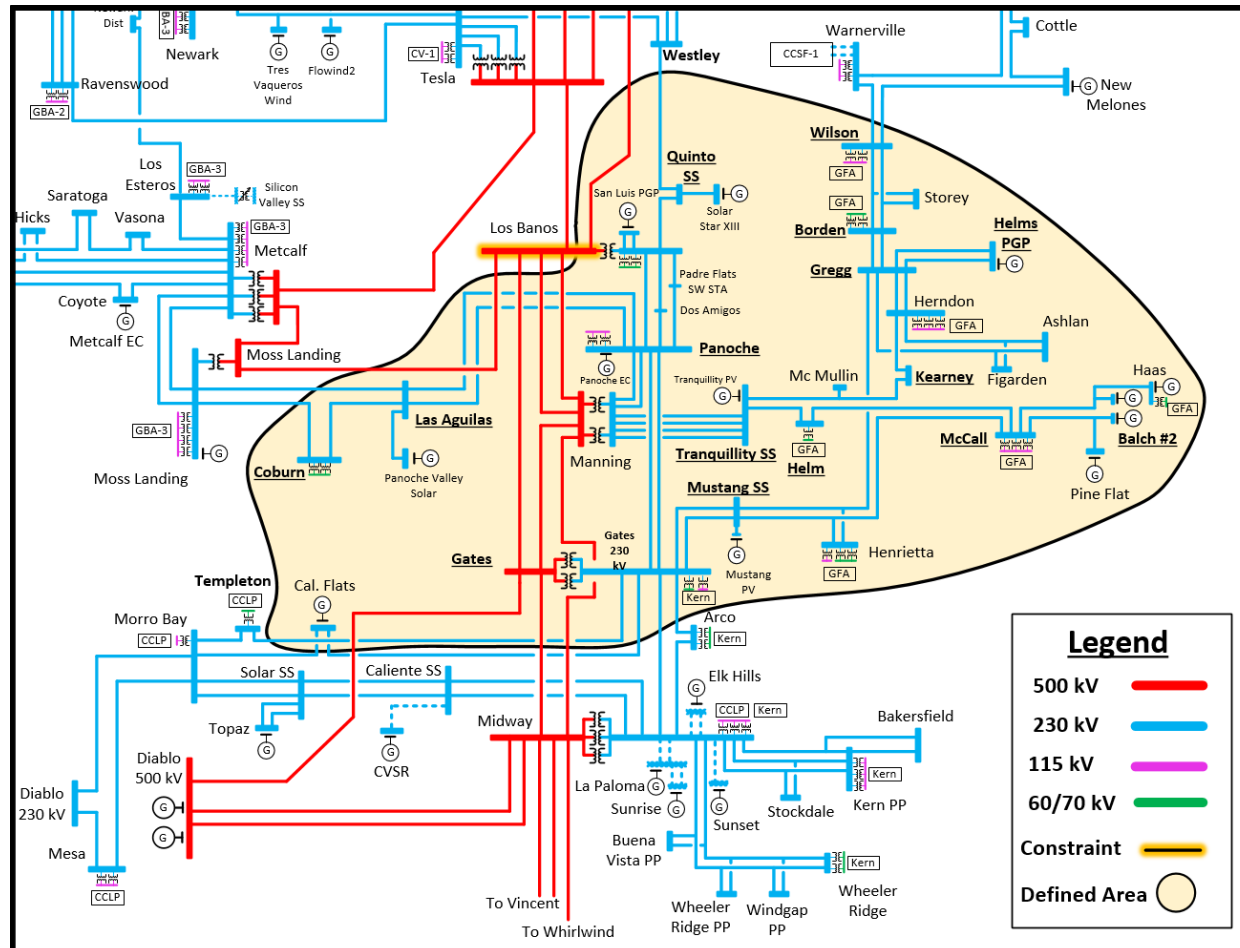
Tranquility-Helm 230kV Line



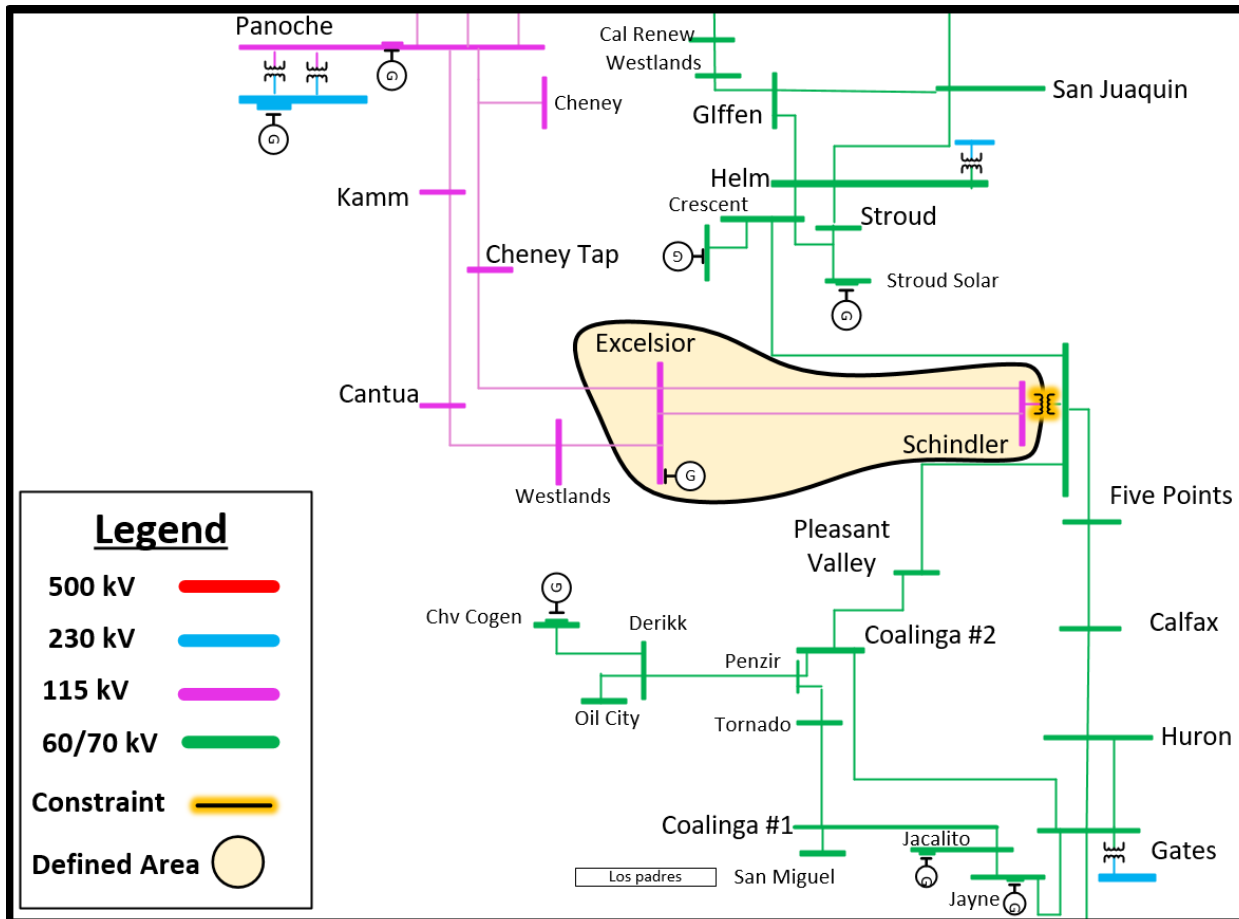
Dairyland-Chowchilla 115kV Line



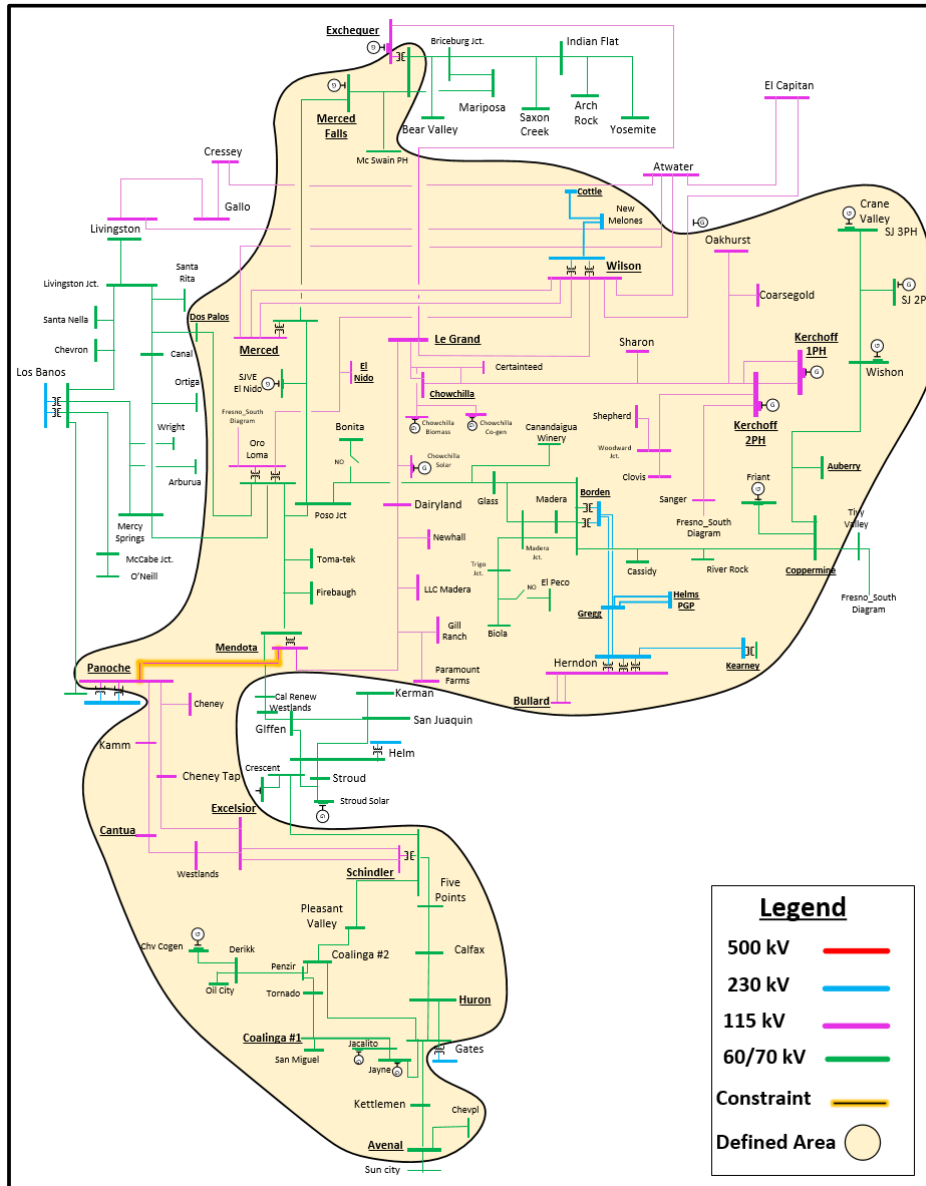
Los Banos 500/230kV TB



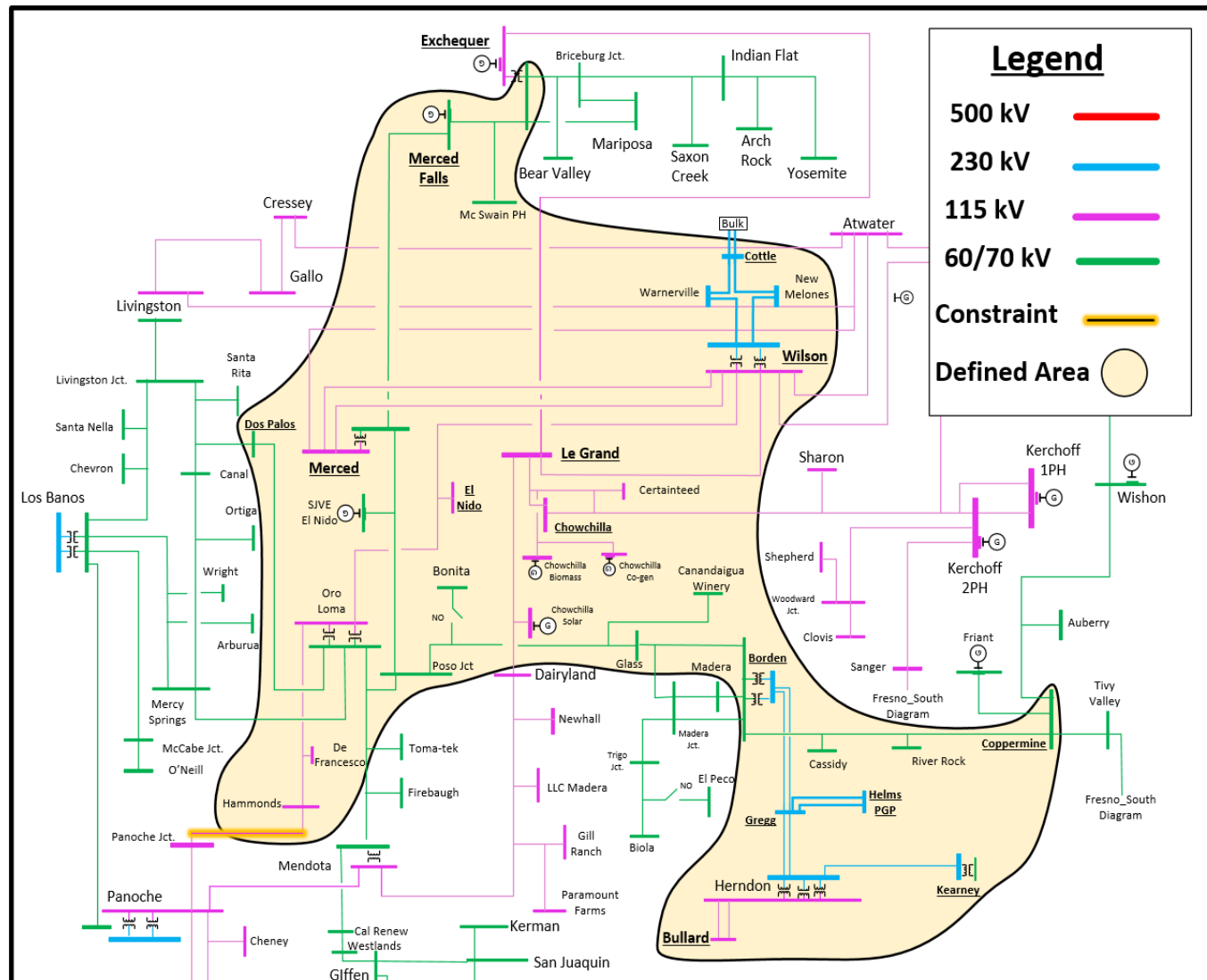
Schindler 115/70kV TB #1



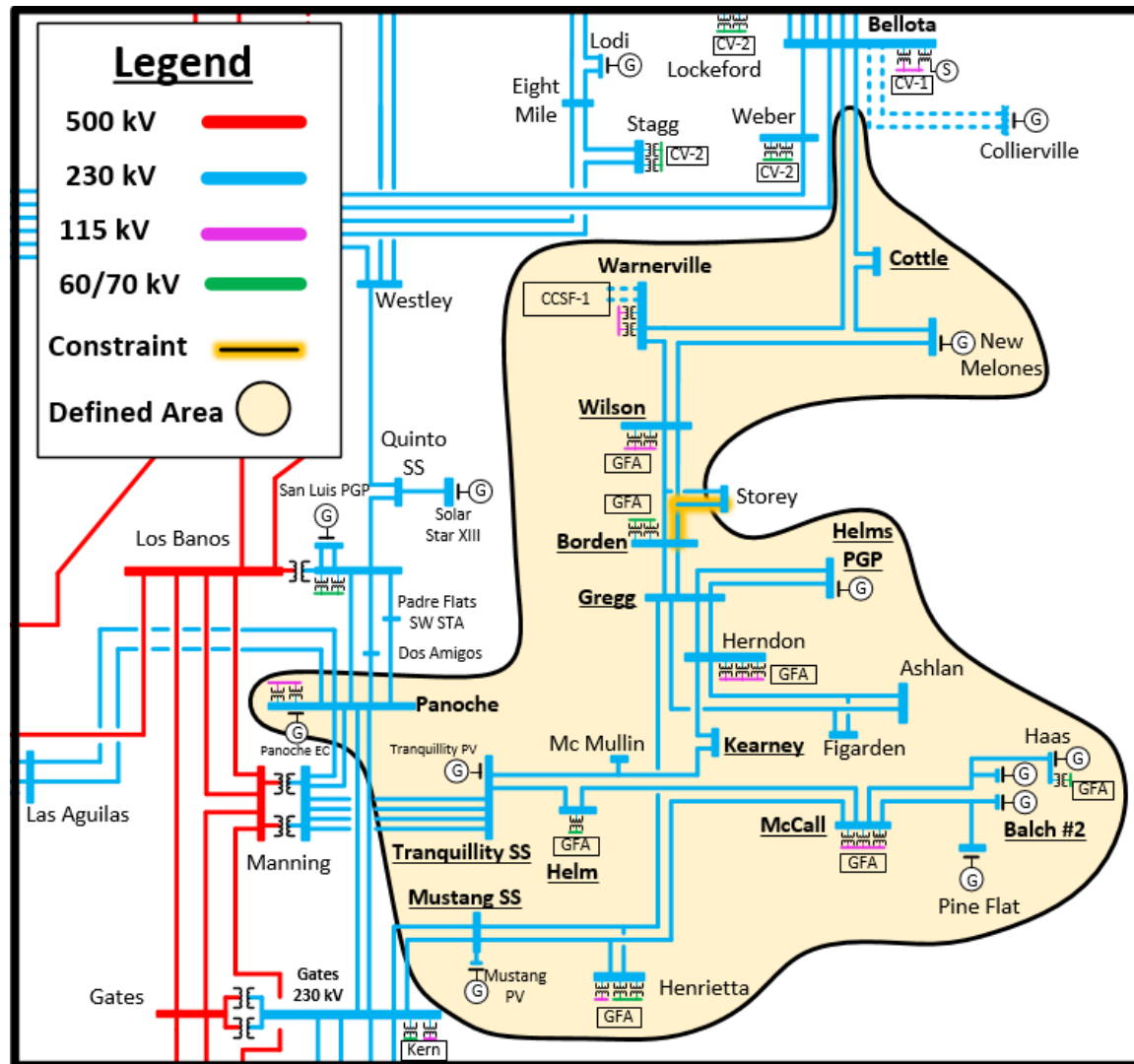
Panoche - Mendota 115 kV line



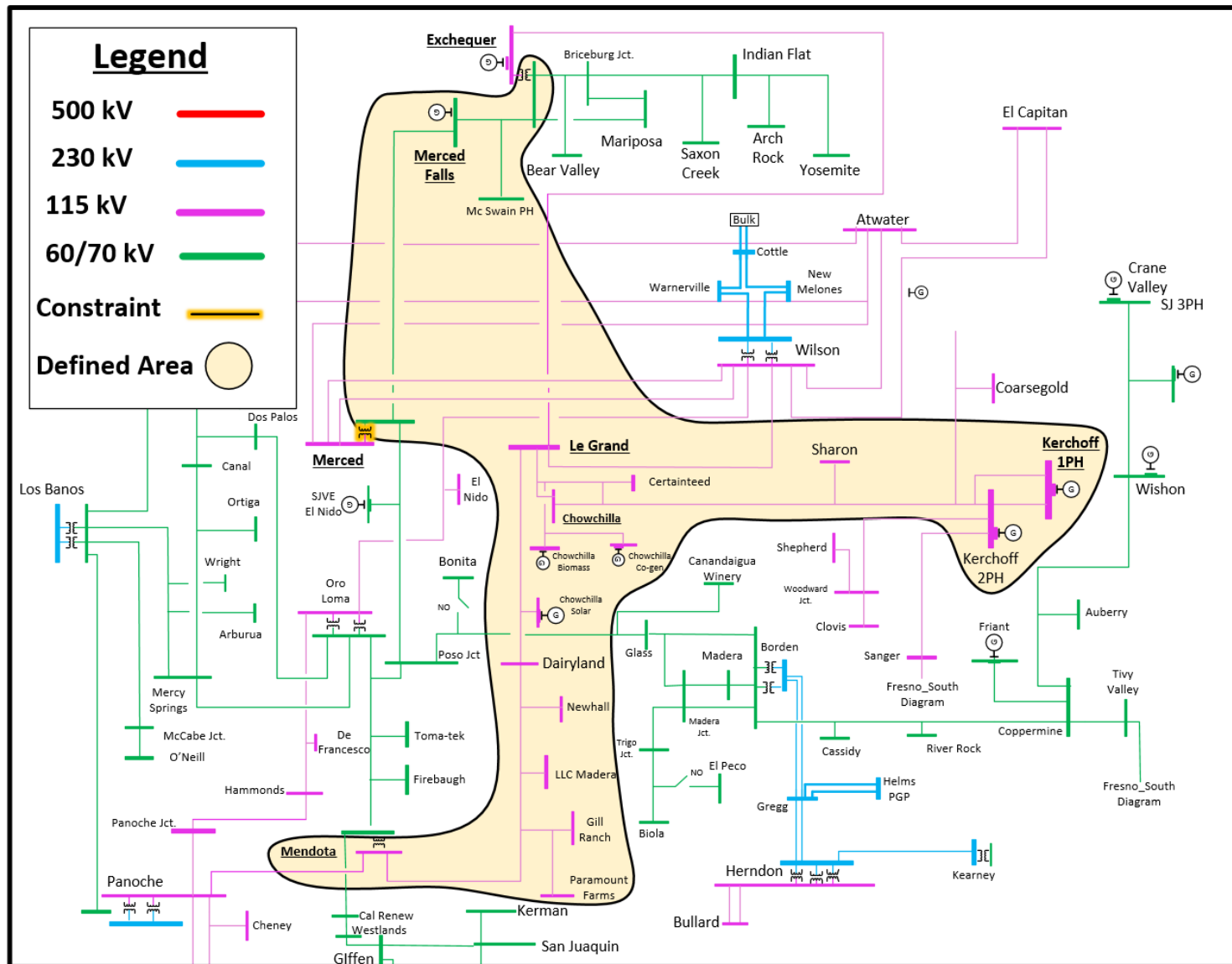
Panoche-Oro Loma 115kV Line



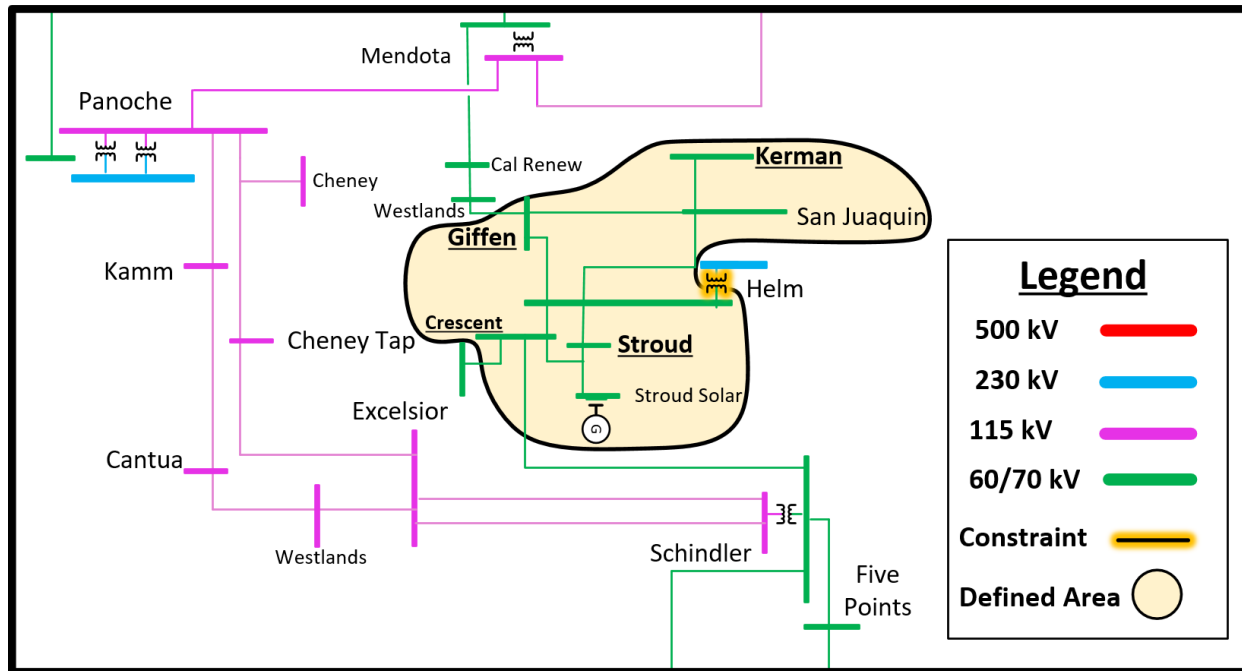
Borden-Storey #1 230kV line



Merced 115/70kV TB#2

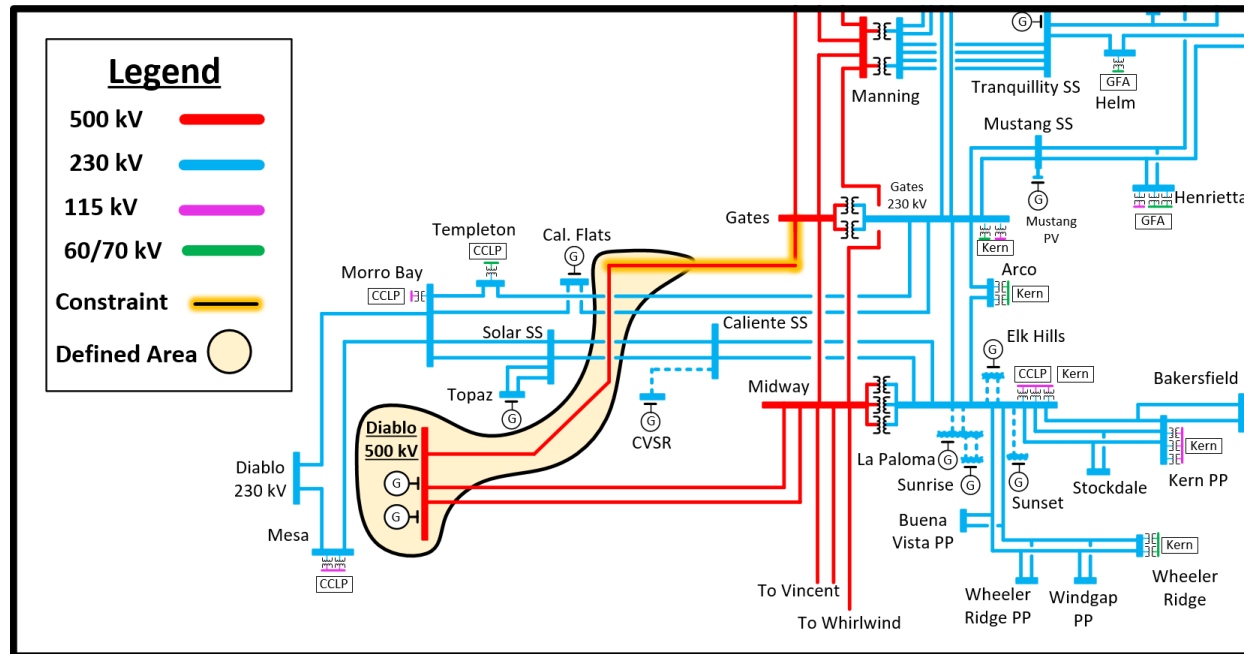


Helm 230/70kV TB #1



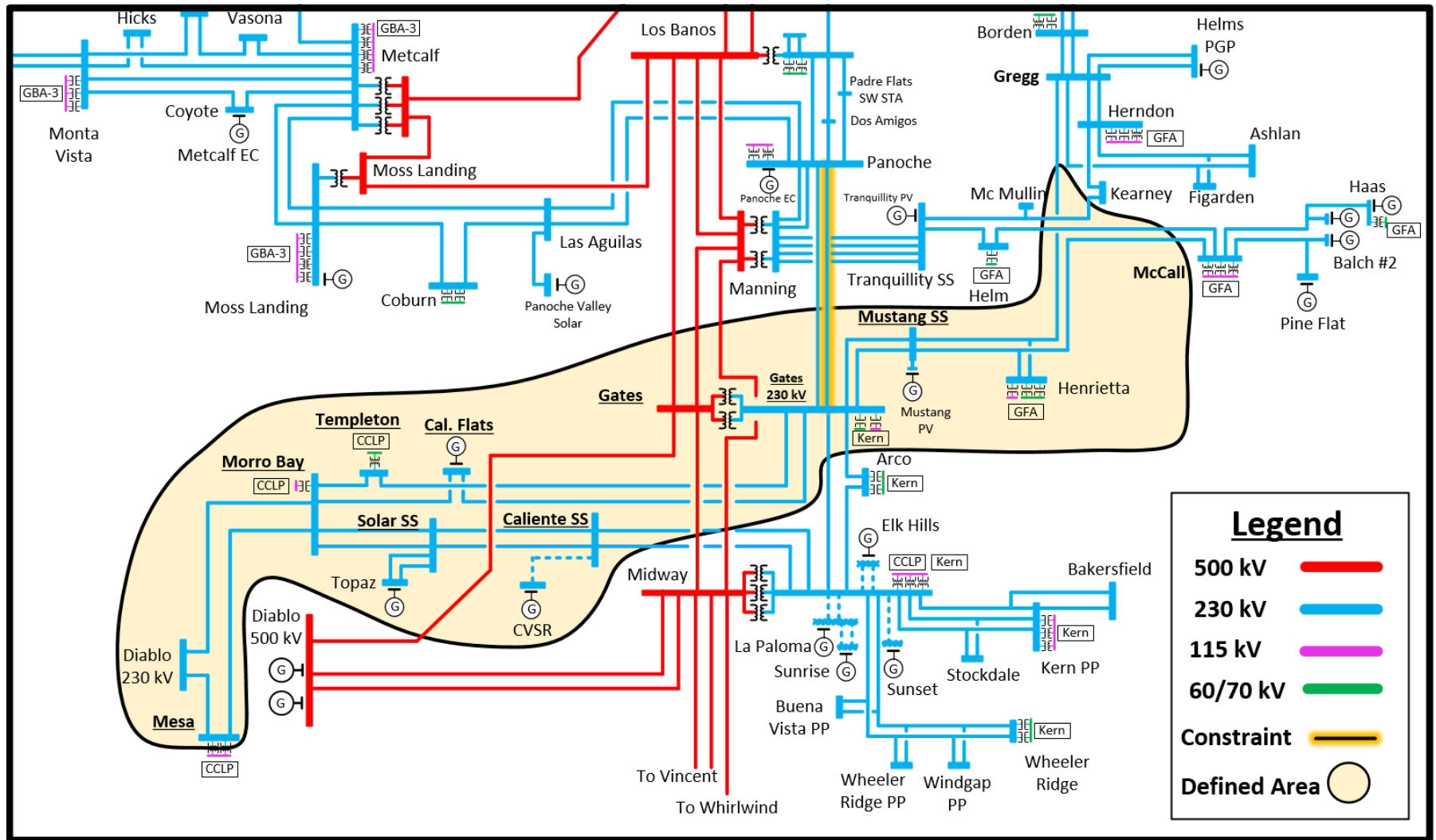


Diablo-Gates 500 kV line

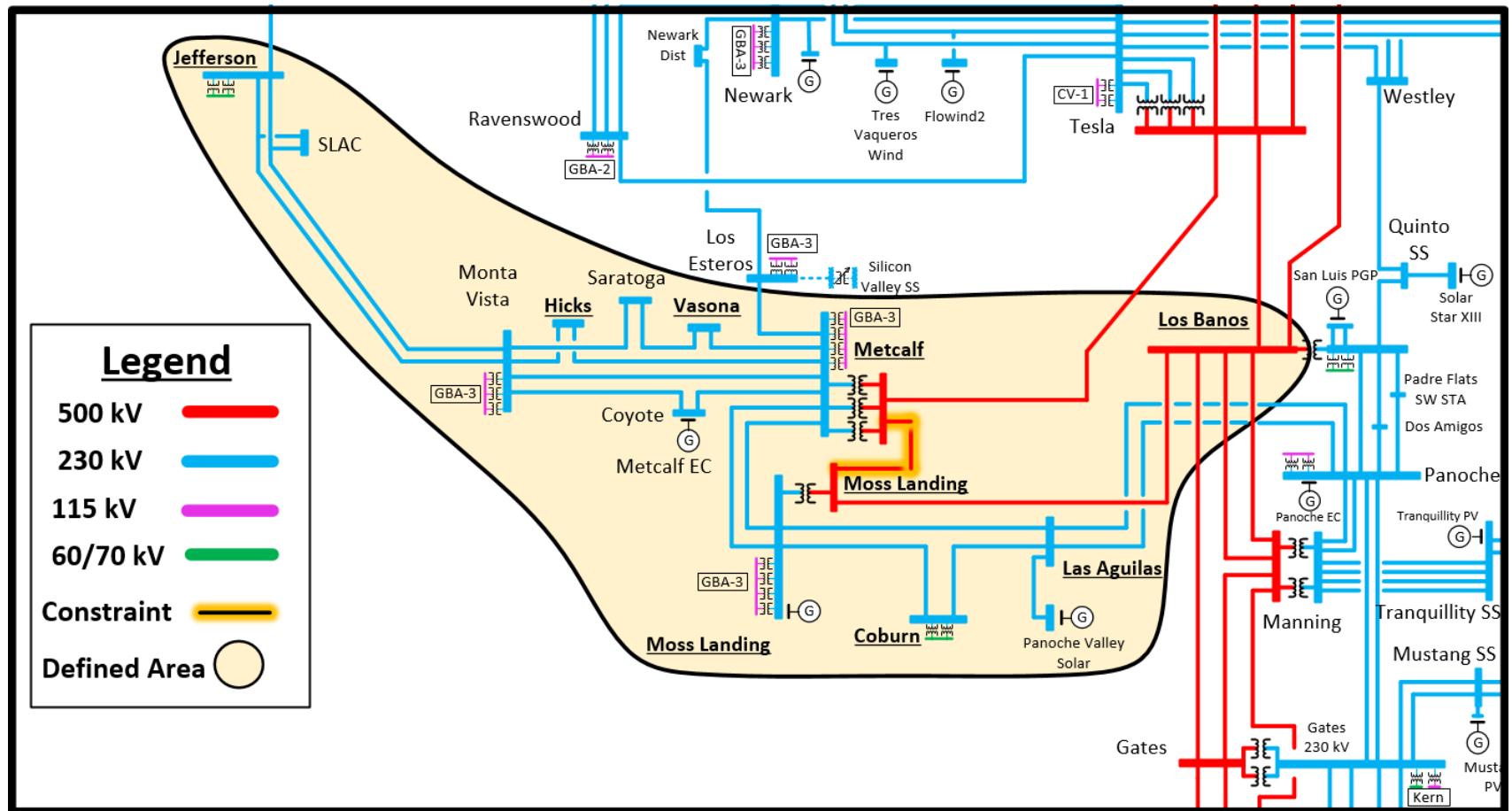




Gates-Panoche 230 kV #1 and #2 Lines



Metcalf-Mosslanding 500kV



Melones-Cottle 230kV line

